OhioEPA

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

October 23, 2014

**RE: US DOE-PORTS
GENERAL CORRESPONDENCE
REMEDIAL RESPONSE
PIKE COUNTY
ID# 466000865**

Kristi Wiehle, Site Coordinator
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US Department of Energy
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Piketon, Ohio 45661

Joel Bradburne, Site Lead
Portsmouth/Paducah Project Office
US Department of Energy
Post Office Box 700
Piketon, Ohio 45661

RE: Ohio EPA Concurrence of D3 Revised Remedial Investigation and Feasibility Study Report for the Site-Wide Waste Disposition Evaluation Project for the Portsmouth Gaseous Diffusion Plant, Including the Corrective Action Management Unit Supplement

Dear Ms. Wiehle and Mr. Bradburne:

Pursuant to the requirements in Section XV, Review of Submissions of *The April 13th, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification for the Portsmouth Gaseous Diffusion Plant (Decontamination and Decommissioning Project)* (hereinafter referred to as DFF&O), Ohio EPA is providing concurrence with the D3 Remedial Investigation and Feasibility Study Report for the Site Wide Waste Disposition Evaluation Project (RI/FS Report) for the Portsmouth Gaseous Diffusion Plant. Ohio EPA provided DOE with conditional concurrence with respect to the RI/FS Report and conditional approval with respect to the draft preliminary waste acceptance criteria (WAC) in April 2014. The conditional concurrence and conditional approval letter did not require modification to the D3 WD RI/FS Report for the Site-Wide Waste Disposition Evaluation Project; however, it included a list of items to address in order to satisfy the conditions noted. DOE has met the conditions as outlined by revising and re-submitting an agreed upon Applicable or Relevant and Appropriate Requirements (ARARs) table, agreeing that Appendix E of the D3 RI/FS Report be read in context with Section 2 of the RI/FS Report, and by pursuing two proposed corrective action management units (CAMU) in accordance with Ohio Administrative rules (OAC) 3745-57-72.

During meetings between DOE and Ohio EPA, DOE proposed drafting a supplement to the RI/FS Report to include CAMU and principle hazardous constituent (PHC) concepts, which directly influence the Waste Acceptance Criteria (WAC). Ohio EPA agreed with DOE's proposal. The RI/FS Report Supplement was submitted on October 21, 2014, as part of the D3 RI/FS Report for the Site-Wide Waste Disposition Evaluation Project and Ohio EPA hereby concurs with the RI/FS Report Supplement pursuant to the requirements in Section XV, of the DFF&O. Furthermore, the RI/FS Report Supplement is approved, including any portions of the RI/FS Report Supplement that are relied upon as part of the WAC. Ohio EPA will be providing public notice and will seek public comment on the proposed CAMU designations. Designation would occur at the Record of Decision stage.

Consistent with the terms of paragraph 79 of the DFF&O, Ohio EPA's concurrence and approval is for purposes of the DFF&O and does not impact any US DOE obligations under any existing permits, authorizations, and orders, including but not limited to the Ohio Consent Decree and the hazardous waste installation and operation permit. In the event of any conflict exists between the Waste Disposition RI/FS, including the final WAC, and the DFF&O, the provisions shall be construed, if possible, so that effect is given to both, however, if the conflict is irreconcilable, the provisions of the DFF&O shall prevail. See, RI/FS SOW.

As set forth in paragraph 9c of the DFF&O, in the event any portion of the Work requires a permit, license, or other authorization from Ohio EPA or any other state, federal or local government agency, Respondent shall submit applications in a timely manner and take all other actions necessary to obtain such permit, license, or other authorization. (See, DFF&O, ¶9c.)

If you have any questions regarding this correspondence, please do not hesitate to contact me at 740-380-5289 or maria.galanti@epa.ohio.gov.

Sincerely,

Maria Galanti
Site Coordinator
Division of Environmental Response and Revitalization

MG/cb

cc: Dennis Carr, FBP, LLC
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Melody Stewart, DMWM-SEDO

REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT FOR THE SITE-WIDE WASTE DISPOSITION EVALUATION PROJECT AT THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO

U.S. Department of Energy
DOE/PPPO/03-0246&D3

February 2014

This document has been approved for public release:

Barry Carlson (signature on file) 2-19-2014
Classification & Information Officer Date

REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT FOR THE SITE-WIDE WASTE DISPOSITION EVALUATION PROJECT AT THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO

U.S. Department of Energy
DOE/PPPO/03-0246&D3

February 2014

Prepared for
U.S. Department of Energy

Prepared by
Fluor-B&W Portsmouth LLC, Under Contract DE-AC30-10CC40017
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ACRONYMS

ACHP	Advisory Council on Historic Preservation
ACM	asbestos-containing material
AEA	Atomic Energy Act of 1954, as amended
ALARA	as low as reasonably achievable
AMSL	above mean sea level
ARAR	applicable or relevant and appropriate requirement
ASM	always-safe mass
ATSDR	Agency for Toxic Substances and Disease Registry
ASTM	American Society for Testing and Materials
BERA	Baseline Ecological Risk Assessment
bgs	below ground surface
BJC	Bechtel Jacobs Company LLC
CAA	Clean Air Act of 1970
CAMU	Corrective Action Management Unit
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended
CFR	*Code of Federal Regulations*
CIP	Cascade Improvement Program
COC	contaminant of concern
COPC	chemical of potential concern
CPT	cone penetration testing
CSM	conceptual site model
CUP	Cascade Uprating Program
D&D	decontamination and decommissioning
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DUF_6	depleted uranium hexafluoride
DOE	U.S. Department of Energy
DOECAP	DOE Consolidated Audit Program
DOT	U.S. Department of Transportation
EC	engineering category
ELCR	excess lifetime cancer risk
EM	DOE Office of Environmental Management
EMWMF	Environmental Management Waste Management Facility
EO	Executive Order
EPA	U.S. Environmental Protection Agency
ETTP	East Tennessee Technology Park
FEMA	Federal Emergency Management Agency
FML	flexible membrane liner
FS	Feasibility Study
FY	fiscal year
GCL	geosynthetic clay liner
GDP	gaseous diffusion plant
GIS	geographic information system
GRA	general response action

HDPE	high density polyethylene
HEU	highly-enriched uranium
HI	hazard index
HMFEI	Headwater Macroinvertebrate Field Evaluation Index
IMTA	impacted material transfer area
LDR	land disposal restriction
LEU	low-enriched uranium
LiDAR	Light Detection and Ranging
LLW	low-level (radioactive) waste
LMES	Lockheed Martin Energy Systems, Inc.
MCL	maximum contaminant level
MLLW	mixed LLW
NAAQS	National Ambient Air Quality Standards
NCP	National Oil and Hazardous Substances Contingency Plan
NDA	nondestructive assay
NEPA	National Environmental Policy Act of 1969
NESHAP	National Emission Standards for Hazardous Air Pollutants
NHPA	National Historic Preservation Act
NNSA	National Nuclear Security Administration
NNSS	Nevada National Security Site
NORM	naturally occurring radioactive material
NPDES	National Pollutant Discharge Elimination System
NRC	U.S. Nuclear Regulatory Commission
NRHP	National Register of Historic Places
OAC	*Ohio Administrative Code*
ODNR	Ohio Department of Natural Resources
ODOD	Ohio Department of Development
Ohio EPA	Ohio Environmental Protection Agency
OHPO	Ohio Historic Preservation Office
OMB	Office of Management and Budget
ORC	State of Ohio Revised Code
OSDC	on-Site disposal cell
OSWER	Office of Solid Waste and Emergency Response
OVEC	Ohio Valley Electric Corporation
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PEMS	Project Environmental Measurements System
PER	Pre-investigation Evaluation Report
PGE	process gas equipment
PHWH	Primary Headwater Habitat
PORTS	Portsmouth Gaseous Diffusion Plant
PPE	personal protective equipment
PRG	preliminary remediation goal
PUREX	plutonium uranium extraction
QA	quality assurance
QC	quality control
RA	Remedial Action
RADCAL	Radiation Instrumentation Calibration
RAO	remedial action objective

RC	regulatory category
RCRA	Resource Conservation and Recovery Act of 1976, as amended
RCW	recirculating cooling water
RD	Remedial Design
RES	Rollins Environmental Services
RFI	RCRA facility investigation
RI	Remedial Investigation
ROD	Record of Decision
ROI	region of influence
RPD	relative percent difference
RWMC	Radioactive Waste Management Complex
S&M	surveillance and maintenance
SAP	sampling and analysis plan
SNM	special nuclear material
SODI	Southern Ohio Diversification Initiative
SOW	statement of work
SPCC	spill prevention, control, and countermeasures
SSAB	Site-specific Advisory Board
SVOC	semivolatile organic compound
SWMU	solid waste management unit
T&E	threatened and endangered
TBC	to-be-considered
TCE	trichloroethene
TCLP	Toxicity Characteristic Leaching Procedure
TOC	total organic carbon
TPMC	Theta Pro2Serve Management Company, LLC
TRU	transuranic
TSCA	Toxic Substances Control Act of 1976
UCL	upper confidence limit
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USEC	United States Enrichment Corporation
USFWS	U.S. Fish and Wildlife Service
USPCI	United States Pollution Control, Inc.
VOC	volatile organic compound
WAC	waste acceptance criteria
WCS	Waste Control Specialists
WMI	Waste Management, Inc.
WRCC	Western Regional Climate Center

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EXECUTIVE SUMMARY

The Ohio Environmental Protection Agency (Ohio EPA) and the U.S. Department of Energy (DOE) have entered into a formal agreement regarding the decision-making process for the decontamination and decommissioning (D&D) of the Portsmouth Gaseous Diffusion Plant (PORTS) and for the associated waste management. The terms of the agreement between Ohio EPA and DOE are contained in *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O).

This document, *Remedial Investigation and Feasibility Study Report for the Site-Wide Waste Disposition Evaluation Project at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio*, presents the information necessary to select a Site-wide disposal alternative for the waste generated under the DFF&O and to receive community input on the alternatives under consideration. This decision is designed to coincide closely with another major DFF&O decision, the fate of the majority of buildings at PORTS, which is evaluated in *Remedial Investigation and Feasibility Study Report for the Process Buildings and Complex Facilities Decontamination and Decommissioning at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio*.

The information in the Site-wide Waste Disposition Evaluation Remedial Investigation/Feasibility Study supports three elements of decision making: (1) problem definition, (2) solution identification, and (3) solution evaluation.

Problem Definition. If no action is taken, no D&D or waste disposal would occur; therefore, the buildings at PORTS would degrade, collapse, and remain where they fall. Contamination now safely contained within the building structures and equipment would slowly release to the environment during building degradation. Contaminants such as radionuclides, polychlorinated biphenyls, and asbestos would be a future threat to users of the buildings or users of the media adjacent to the buildings at PORTS and to terrestrial species that are present at PORTS.

An estimated 1.47 million cy of building/structure waste are anticipated to be generated from demolishing the buildings at PORTS if D&D is selected as the remedial action. The vast majority of this waste would originate from the three large gaseous diffusion process buildings: X-326, X-330, and X-333. The waste volumes include the structure of each facility, all process and industrial equipment within each facility, facility slabs, and soil that would be generated incidental to removal of the facility slabs. The balance of the volume from a D&D decision would come from hundreds of smaller buildings and structures and is expected to be 0.35 million cy of waste or approximately 25 percent of the total PORTS D&D waste forecast.

The primary waste forms are presented in Table ES.1. These waste forms are the basis of calculations presented in Sections 8 and 9.

Table ES.1. Waste Volume Summary

D&D Waste Form Description	In Situ Volume (cy)
Residual Soil[a]	53,000
Building Waste	1,032,000
Process Gas Equipment	272,000
Targeted Recyclables	110,000
Total DFF&O Waste and Recyclables	**1,467,000**

[a] See paragraph 5.e. of the DFF&O for the definition of D&D.

D&D = decontamination and decommissioning
DFF&O = *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*

Included in the 1.47 million cy of waste resulting from building demolition are an estimated 53,000 cy of residual soil, as described in the DFF&O, paragraph 5(e)(3) and 5(e)(4)(ii), which are anticipated to be generated during building demolition and foundation and subsurface structure removal that would require disposal. Additionally, the impacts and implications of up to an estimated 710,000 cy of Ohio Consent Decree contaminated soil (from deferred units) from the remaining environmental cleanup activities are considered, acknowledging that additional exemptions and/or authorizations would be necessary to excavate the waste and also to place any such waste in an on-Site disposal cell (OSDC). The 710,000 cy is an estimate established for the purposes of conducting a complete and thorough evaluation of the alternatives. The actual volume of any Ohio Consent Decree contaminated soil will be determined based on several factors. The decision to excavate and dispose of Ohio Consent Decree contaminated soil is not being made under this project. Placement of such Ohio Consent Decree contaminated soil would need to meet the requirements of the waste acceptance criteria (WAC) for the potential OSDC in order to be protective of human health and the environment.

Solution Identification. Three alternatives have been developed in the feasibility study. Alternative 1 is the no-action alternative, the basis to which the action alternatives are compared. Alternative 2 is the on-Site alternative (with appropriate off-Site disposal based on on-Site disposal WAC), and Alternative 3 is the off-Site alternative. Both action alternatives include opportunities for recycling and/or reuse of certain materials.

A number of potential OSDC locations across PORTS were studied and evaluated. From this evaluation, two areas, both of which are located above thick shale, were determined to be the most protective for use in developing an on-Site disposal alternative. However, one of the locations was determined to have preferable operational parameters and improved constructability, and thus was used as a representative location to develop the on-Site alternative.

Alternative 2 has a potential engineered disposal facility with a multi-layer liner, leachate collection and treatment system, and multi-layer cap. Any waste that could not meet the WAC would be treated or sent off-Site for disposal. The representative process options for the off-Site disposal elements of Alternative 2 and for all of Alternative 3 are Energy*Solutions* in Utah, a commercial facility that has previously received DOE waste, for mixed Resource Conservation and Recovery Act of 1976, as amended, or Toxic Substances Control Act of 1976 low-level (radioactive) waste (LLW); the DOE Nevada National Security Site in Nevada for LLW; and the Pike Sanitation Landfill in Pike County for construction and demolition debris as well as solid waste. Significant construction and operational challenges would be associated with an on-Site disposal alternative, but on-site disposal facilities have been built and successfully operated at several DOE facilities.

Alternative 3, off-Site disposal, assumes most of the waste would be sent by rail for off-Site disposal. Significant challenges would be associated with packaging and shipping some of the larger process equipment, but waste, including soil and process equipment, has been shipped across the United States from PORTS and other DOE facilities.

As previously noted, each action alternative includes a commitment by DOE to seek opportunities for the recycle and/or reuse of materials within the scope of the D&D effort for the gaseous diffusion plant. The final decision to recycle and/or reuse specific materials or discrete waste streams would be at the discretion of DOE so long as the recycle and/or reuse materials fits the definition of D&D, does not require modification of any Ohio EPA-approved or -concurred with Submissions (e.g., Proposed Plan, Decision Document, Remedial Design, etc.), and is in compliance with all applicable or relevant and appropriate requirements (ARARs). If DOE's recycling proposal requires modification of any regulatory documents (e.g., Proposed Plan, Decision Document, Remedial Design, etc.), DOE will submit its proposed modification to Ohio EPA for approval or concurrence, as applicable. For the purposes of evaluating the alternatives, approximately 110,000 cy of materials are tentatively identified from the scope of the D&D that may be candidates for recycle and/or reuse and are included in the analyses of each of the action-based remedial alternatives. The final identification of specific materials for recycle and/or reuse by DOE would take place during the follow-on remedial design and remedial action phases of the project.

Solution Evaluation. All of the alternatives were evaluated with respect to the DFF&O and Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (CERCLA) criteria. The no-action alternative is not protective and does not meet threshold criteria. Both the on-Site and off-Site alternatives meet the threshold criteria of protectiveness and compliance with ARARs except that a waiver of the siting requirement in *Ohio Administrative Code* 3745-27-07(H)(4)(d) to not dispose of solid waste within 200 ft of a stream would be needed for the on-Site alternative. The waiver sought is discussed in more detail later in this document. Three key criteria differentiate the on-Site and off-Site alternatives: (1) transportation risk, (2) duration, and (3) cost.

In regard to transportation risk, estimated injuries from a transportation accident were calculated to be 8.8 for Alternative 2 (on-Site disposal), while the same transportation risk would be 18.7 injuries for Alternative 3 (off-Site disposal). The estimated numbers of potential fatalities associated with transportation efforts for Alternative 2 are considerably less than 1, and for Alternative 3 are approximately 2.4.

In regard to duration, Alternative 3 is estimated to take 50 percent longer to implement than Alternative 2. This is primarily due to the logistics of moving a large quantity of waste across the country via rail, which is more challenging than moving that amount of waste across PORTS. Second, with equivalent annual funding, the added costs of off-Site disposal would lengthen the schedule of Alternative 3 over that of Alternative 2.

The estimated present worth cost for Alternative 2 is $0.882 billion. The estimated present worth cost for Alternative 3 is $1.1 billion.

This report, after consideration of regulatory agency and community input, provides information for selection of a preferred alternative for disposition of waste resulting from D&D actions at PORTS. Other supporting documents and information considered during the CERCLA process are available to the public in the Administrative Record File for this project. This report will be followed by a Proposed Plan that presents the preferred alternative and solicits public input, and subsequently by a Record of Decision that documents the selected alternative and addresses public comments on the Proposed Plan.

1. INTRODUCTION

A total of 3,777 acres of federal land. An enriched uranium production mission that spanned 47 years (1954-2001). Three of the largest industrial buildings ever constructed—each with more than 30 acres of enriched uranium production capacity under roof. An enrichment system composed of 14,700 process components and 172 miles of internal nickel-plated pipelines. Four hundred and fifteen ancillary support buildings and structures that supported the enrichment mission within the interior 1,000-acre industrial area of the site. Five groundwater contamination plumes totaling 160 acres, each with interim measures and/or monitoring now in place. Thirteen legacy landfills—located in five general areas of the site and totaling 101 acres—that were compliantly closed under previous regulatory decisions. And, ultimately—once the final remaining facility decontamination and decommissioning (D&D) and affected environmental media cleanup decisions are made—the potential generation of upwards of 2 million cy of new demolition and environmental restoration wastes that will require safe and permanent disposal. The U.S. Department of Energy's (DOE's) Portsmouth Gaseous Diffusion Plant (PORTS) D&D Project, located in Pike County 4 miles south of the village of Piketon, Ohio, is arguably one of the largest and most complex environmental restoration projects underway in the nation today.

This Site-wide Waste Disposition Remedial Investigation/Feasibility Study (RI/FS) report provides technical support for one of the key remaining regulatory decisions driving the PORTS cleanup program: the decision as to where and how any wastes resulting from the D&D of the Portsmouth gaseous diffusion plant (GDP) buildings and structures at the Portsmouth reservation will be permanently dispositioned.

In April 2010, DOE and the Ohio Environmental Protection Agency (Ohio EPA) entered into a regulatory agreement for the PORTS federal facility. This agreement sets the stage for how the D&D and waste disposition decisions for PORTS will proceed. The agreement is known as *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O) (Ohio EPA 2012a), adopts Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (CERCLA) decision-making protocols as its underlying regulatory framework and decision-making architecture. Pursuant to Section I of the DFF&O, the DFF&Os were issued to DOE pursuant to the authority vested in the Director of Ohio EPA under Ohio Revised Code (ORC) Sections 3704.03, 3734.13, 3734.20, 6111.03, and 3745.01 and DOE entered into the DFF&O pursuant to Section 104 of CERCLA, 42 *United States Code* §9604, Executive Order (EO) 12580, and the Atomic Energy Act of 1954, as amended (AEA), 42 *United States Code* §2011, *et seq.*

Using a CERCLA framework, the DFF&O defines the steps for identifying a range of technical alternatives for the D&D and waste disposition components of the project, and reaching formal decisions on how best to proceed. The steps include developing viable alternatives; evaluating and comparing them; gaining public feedback on the range of alternatives; selecting a final approach and formalizing the decisions; and then defining the downstream regulatory requirements for successful implementation of the selected D&D and waste disposition remedial actions.

As a regulatory blueprint, the DFF&O envisions the following principal decision elements (termed in the DFF&O as "projects") as the means to carry out the remaining major GDP D&D and waste disposition decisions for PORTS:

- **The Process Buildings and Complex Facilities D&D Evaluation Project.** This remedial action project consists of the RI/FS, Proposed Plan, Record of Decision (ROD), and Remedial Design/Remedial Action (RD/RA) documents for most process-related PORTS structures, as identified in Attachment H of the DFF&O. The emphasis of this remedial action is to evaluate whether to D&D the buildings and structures, and comparatively examine the impacts if no D&D action is taken and the buildings are hypothetically allowed to degrade with no institutional or engineering controls in place.

- **Non-Time-Critical Removal Action Projects for Support Structures.** This decision-making option is recognized in the DFF&O to facilitate the D&D of various combinations of support structures (outside of the Process Buildings and Complex Facilities D&D Evaluation Project) as fast-track, schedule-driven subprojects. As non-time-critical removal actions, D&D of the support structures would be accomplished by identifying groups of structures and using Engineering Evaluation/Cost Analyses, Action Memoranda, and Removal Action Work Plans for the groups of structures identified. The support structures deemed acceptable in the DFF&O as removal action candidates are identified in Attachment G of the DFF&O.

- **The Site-wide Waste Disposition Evaluation Project.** This remedial action project is recognized in the DFF&O as the regulatory means to reach a remedial action decision for the dispositioning of the D&D wastes to be generated under the work activities contemplated by the DFF&O. Potential waste streams associated with environmental media cleanup activities to be conducted under the Resource Conservation and Recovery Act of 1976, as amended, (RCRA) Ohio Consent Decree and for which DOE might seek exemptions under Ohio laws and regulations to allow placement of such waste streams in any potential on-Site disposal cell (OSDC) that might be constructed as a result of the Site-wide Waste Disposition Evaluation Project are acknowledged in the DFF&O as other potential waste streams. The Site-wide Waste Disposition Evaluation Project consists of the RI/FS, Proposed Plan, ROD, and RD/RA documents necessary to implement the selected remedial action.

1.1 PURPOSE OF THE REPORT

The purpose of this RI/FS report is to evaluate waste disposal alternatives to address wastes anticipated to be generated during the D&D of the Portsmouth GDP consistent with the scope of the DFF&O. Disposal options include the on-Site disposal of certain acceptable waste materials in a newly engineered and constructed waste disposal cell and off-Site disposal at properly permitted and/or licensed disposal and/or treatment facilities.

Waste not generated under the DFF&O are anticipated to be generated during the cleanup of the GDP. These waste streams will be generated pursuant to a different regulatory decision framework than the DFF&O. This RI/FS recognizes the possibility that this additional waste could be disposed in the potential OSDC, assuming the required authorizations are obtained, by separately analyzing the general impacts and implications attributed to the possible disposal of these non-D&D waste. This RI/FS does not provide Ohio EPA authorization for the excavation and disposal decisions for these other wastes. Nevertheless, DOE has evaluated the environmental impact, if any, of the excavation and disposal. DOE's analysis has determined that placement of this waste in the potential OSDC would be protective of human health and safety and the environment assuming such waste meets the waste acceptance criteria (WAC).

To clarify the regulatory authorities that apply to the various waste streams considered in this document, each waste stream discussed throughout the rest of the document is identified by a regulatory category (RC). Likewise, this document also discusses the form that the waste stream takes that is relevant to assumptions made about shipping and placement of the waste stream. To clarify which form the waste stream takes, each waste stream is also identified by an engineering category (EC). The RCs and the ECs are defined in Table 1.1. In the text, these categories are used when the waste being described is only a subset of all possible categories. If the regulatory type of waste is not relevant to the discussion, only the ECs are used. Likewise, if the EC is not relevant to the discussion, only the RCs are used.

Table 1.1. Regulatory and Engineering Categories of PORTS Wastes/Materials

Category	Definition
Regulatory Categories	
RC-1	DFF&O waste including building D&D waste and residual soil as defined in the DFF&O.
RC-2	Ohio Consent Decree waste.
RC-3	Non-DFF&O, Non-Ohio Consent Decree waste composed of previously interred waste in closed waste management units.
RC-4	Other waste for which DOE is a responsible party, including but not limited to CERCLA actions that are not addressed within RC-1, RC-2 or RC-3.
Engineering Categories	
EC-1	Soil and soil-like materials or wastes.
EC-2	Non-soil like, non-liquid waste that generally require EC-1 materials or wastes to achieve compaction requirements for placement in the potential OSDC.

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended
D&D = decontamination and decommissioning
DFF&O = *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE = U.S. Department of Energy
EC = engineering category
OSDC = on-Site disposal cell
RC = regulatory category

Whenever excavation and/or disposal of non-D&D waste (Categories RC-2, RC-3, or RC-4) is discussed in this document, whether in terms of additional waste material or fill, it is to be understood that additional authorization/approval would be required to undertake this activity.

DOE combined the RI and FS reports into a comprehensive RI/FS report, rather than issuing stand-alone individual RI and FS reports initially contemplated by the DFF&O. As a combined RI/FS report, the document accomplishes three integrated objectives: (1) it defines the magnitude of the waste disposal problem, (2) it defines the range of potential solutions, and (3) it individually and comparatively evaluates the potential solutions so a preferred approach presented by DOE can be evaluated by regulatory agency decision makers and be shared with the public for review and comment through a subsequent Proposed Plan.

1.1.1 Scope and Role of the Site-wide Waste Disposition Decision

The scope of the Site-wide waste disposition decision is to determine the best overall approach, based on the regulatory required evaluation criteria, to permanently dispose of the waste to be generated from the D&D of the Portsmouth GDP within the scope of the DFF&O. This document also discusses other possible anticipated waste streams, which are not D&D and for which separate authorization would be needed to excavate and place such waste into a potential OSDC.

1.1.1.1 Scope of Site-wide waste disposition decision

The scope of the decision has several facets. The DFF&O and CERCLA's required nine criteria are used to conduct the technical-, risk-, and cost-based balancing evaluation of various alternatives to address the following facets of the decision. An evaluation of National Environmental Policy Act of 1969 (NEPA) values is included. The decision will also identify the regulatory requirements for design and/or planning implementation of the selected remedial action, using the applicable or relevant and appropriate requirements (ARARs).

Disposal

Ultimately, the waste disposition evaluation will support a decision between off-Site disposal and on-Site with some off-Site disposal for the waste volumes generated during the remediation efforts conducted under the DFF&O (RC-1). A range of alternatives is developed in this RI/FS to evaluate the disposal alternatives.

Recycle and/or Reuse

DOE is committed to recycling and/or reuse of materials from the PORTS D&D Project regardless of the selected disposal remedy. Recycling and/or reuse is part of each disposal alternative. Specific recycle and/or reuse decisions will be made for discrete materials and waste streams across all phases of the D&D project as appropriate, including during performance of the RI/FS, remedial design, and remedial actions. Decisions to recycle and/or reuse materials will be made at DOE's discretion, following an evaluation of relevant factors and considerations, so long as the recycle and/or reuse materials fits the definition of D&D, does not require modification of any Ohio EPA-approved or -concurred with Submissions (e.g., Proposed Plan, Decision Document, Remedial Design, etc.), and is in compliance with all ARARs. If DOE's recycling proposal requires modification of any regulatory documents (e.g., Proposed Plan, Decision Document, Remedial Design, etc.), DOE will submit its proposed modification to Ohio EPA for approval or concurrence, as applicable.

Fill Sources to Support Development of an On-Site Disposal Alternative

To control subsidence in a disposal cell, fill is co-disposed with large quantities of waste from building demolition (EC-2). Fill is always designated as having soil-like properties and therefore is categorized as EC-1. To completely evaluate an on-Site disposal alternative, it is necessary to consider the source of fill that would be used in the operation of a potential OSDC, should that alternative be selected for implementation. This RI/FS evaluates a range of options for obtaining that fill. Purchasing fill or developing on-PORTS borrow areas are evaluated as potential sources as part of any disposal alternative that contains a potential OSDC. DOE anticipates that some non-D&D contaminated soil (RC-2, RC-3, EC-1) may be appropriate to use as fill. Any fill, regardless of source, would need to meet certain performance standards, which will be set forth in more detail in the Remedial Design documentation. The decision to use non-D&D contaminated soil (RC-2, RC-3, EC-1) for fill in the potential OSDC is evaluated in this document; however, additional regulatory approval would be required to excavate and dispose of this fill. Accordingly, DOE would seek exemptions and authorizations under Ohio laws and regulations to allow placement of such non-D&D contaminated soil (RC-2, RC-3, EC-1) streams in any potential OSDC. The impacts and implications of disposing of non-D&D contaminated soil (RC-2, RC-3, EC-1) from the remaining environmental cleanup activities in such a potential OSDC are considered in order to better inform design criteria and the WAC. DOE has determined that fill from any contaminated borrow areas would be protective of human health, safety, and the environment if it meets the WAC for the potential OSDC. Whenever the use of non-D&D contaminated soil (RC-2, RC-3, EC-1) as fill is discussed in this document, it is to be understood that DOE would need to seek additional regulatory approval for excavation and placement in the potential OSDC.

Ohio Consent Decree and 1997 Administrative Consent Order Waste
There is the potential for generation of waste streams associated with environmental media cleanup activities to be conducted under the Ohio Consent Decree and the 1997 Administrative Consent Order (RC-2, EC-1). DOE might seek exemptions under Ohio laws and regulations to allow placement of such waste streams in any potential OSDC that might be constructed as a result of the Site-wide Waste Disposition Evaluation Project. The impacts and implications of disposing of the waste (RC-2, EC-1) from the remaining environmental cleanup activities in such a potential OSDC are considered in order to better inform design criteria and the WAC.

This RI/FS does not provide the necessary authorization for the excavation and disposal decisions for the waste from other environmental cleanup activities conducted under the Ohio Consent Decree (RC-2, EC-1). Nevertheless, DOE has evaluated the potential environmental impact of the disposal of this waste stream and has determined that placement of this waste in the potential OSDC would be protective of human health, safety, and the environment assuming such waste meets the WAC. Whenever excavation and/or disposal of this non-D&D waste (RC-2, EC-1) is discussed in this document, it is to be understood that additional authorization/approval would be required to undertake that activity.

1.1.1.2 Role of Site-wide waste disposition decision

Ohio EPA entered the orders pursuant to the authority vested in the Director of Ohio EPA under the various ORC Sections while DOE entered these Orders pursuant to Section 104 of CERCLA, among others. The DFF&O uses CERCLA decision-making protocols as its underlying regulatory framework and decision-making architecture. RI/FSs conducted under CERCLA have some special considerations. To develop objectives and goals of remediation and to develop alternatives, the requirements of federal and state regulations that apply or are relevant and appropriate (called ARARs) to the problem at hand must be identified and understood. Entirely on-Site remedial actions are required to attain ARARs, unless specific ARARs are waived in accordance with CERCLA. For entirely on-Site remedial actions, the ARARs include only the substantive requirements of federal, state, and local environmental or facility siting laws/regulations; they do not include occupational safety or worker radiation protection requirements or administrative requirements of the laws/regulations. Additionally, per the DFF&O and 40 *Code of Federal Regulations* (*CFR*) 300.400(g)(3), substantive requirements of other advisories, criteria, or guidance that are not ARARs may be considered in determining remedies (to-be-considered [TBC] guidance). For actions that occur off Site, all elements of the laws and regulations, including the administrative requirements, must be met.

Another consideration of developing and evaluating alternatives under CERCLA is the concept of representative process options. As discussed in Section 4.2.5 of the U.S. Environmental Protection Agency's (EPA's) 1988 Guidance for Conducting RI/FSs (EPA 1988), during the development of alternatives phase of an RI/FS, "…technology processes (called process options) considered to be implementable are evaluated in greater detail before selecting one process to represent each technology type to simplify the subsequent development and evaluation of alternatives without limiting flexibility during remedial design. The representative process provides a basis for developing performance specifications during preliminary design; however, the specific process actually used to implement the remedial action at a site may not be selected until the remedial design phase." For example, an existing off-PORTS commercial disposal facility has been selected as a representative process option for off-Site disposal of mixed low-level (radioactive) waste (MLLW). This selection allows detailed cost estimates and estimates of transportation risk to be generated while still allowing more detailed evaluations to be used to conduct the final selection. However, identifying this facility as a representative facility during this RI/FS does not mean that DOE has selected it as the disposal facility for implementation. In the event off-Site disposal is a component of the final remedy selected in the ROD, DOE will be able to consider and use all viable, regulatory-compliant off-PORTS disposal locations for MLLW disposal that are available.

1.1.2 Relationship to Other Documents

The RI/FS report is a document required by the DFF&O. It provides detailed technical documentation and foundational engineering and scientific information to support a remedial action decision. It is made available for use by the general public through the Site-wide Waste Disposition Administrative Record File. Three other documents will be issued after Ohio EPA concurs with the RI/FS report:

- The Proposed Plan, which summarizes the results of the RI/FS at a level of detail that supports review by the general public and other entities such as state agencies that may elect to provide input to the decision. The Proposed Plan also identifies DOE's preferred remedial action for official comment during the formal public comment period.

- The ROD, which memorializes the final remedial action decision for the DFF&O D&D work activities.

- The Responsiveness Summary, which provides DOE's formal responses to comments received on the Proposed Plan during the formal public comment period. The Responsiveness Summary will be attached to the ROD and placed in the official Administrative Record for this remedial action.

Together the RI/FS report, Proposed Plan, ROD, and Responsiveness Summary comprise the decision-making documents leading to selection of the preferred remedial action. Other implementation documentation, such as the RD/RA Work Plan and other required remedial design or planning document submittals, will follow formal issuance of the ROD. The implementation documents will also be subject to Ohio EPA review and approval/concurrence, as applicable, under the requirements of the DFF&O.

This RI/FS report was prepared in accordance with the DFF&O requirements. The general approach to evaluating potential remedial actions is based on EPA guidance (EPA 1988). The RI/FS approach also incorporates NEPA values in accordance with the DOE Secretarial Policy on NEPA (DOE 1994). While NEPA values are incorporated throughout this RI/FS, they are the particular focus of certain sections in this report. The affected environment is described in Section 3, Physical Characteristics of the Study Area, and the environmental consequences (direct and indirect impacts and mitigation measures) are described in Section 9, Detailed Analysis of Alternatives.

1.1.3 Relationship to Other Environmental Restoration Activities at PORTS

The DFF&O decisions for process facility and support structure D&D and Site-wide waste disposition remedial actions are part of a larger environmental remediation effort that has been underway at PORTS since the late 1980s. Most notably, the earlier Ohio Consent Decree efforts focused on interim soil and groundwater restoration needs outside of the main processing area boundaries. Earlier efforts also focused on regulatory closure of the existing 101 acres of historical landfills at PORTS.

The DFF&O adopts a CERCLA-based decision framework to complete decision making for the remaining D&D and D&D waste disposition decisions at PORTS. The earlier Ohio Consent Decree soil and groundwater and landfill closure efforts were conducted under the RCRA corrective action program obligations in accordance with the Facility's Ohio Consent Decree.

Beyond the DFF&O decisions, several key environmental restoration decisions remain, which will be accomplished under the Ohio Consent Decree: (1) establishment of final cleanup levels for soil and closeout of the remaining RCRA solid waste management units (SWMUs) that were deferred for cleanup until the process facility D&D decision is made and (2) selection of final remedial actions for affected groundwater within the reservation to complete the interim actions now in place. In addition, there may be the need for other actions, including but not limited to those under CERCLA, to be conducted (RC-4).

Section 1.2.2.2 provides an overview of the regulatory and environmental restoration history at PORTS, dating back to 1989.

1.2 SITE BACKGROUND

This section provides a description of the PORTS Facility and a history of the PORTS operations, including the production mission history and the historical environmental restoration and regulatory compliance activities.

1.2.1 Site Description

PORTS, which began operations in 1954, is located on a 3,777-acre federal reservation in a rural area of Pike County, Ohio (Figure 1.1). From 1954 until 2001, the PORTS gaseous diffusion process enriched uranium for DOE and predecessor agencies, the Naval Nuclear Propulsion Program, and commercial customers. In 1993, DOE began leasing the uranium enrichment production and operations facilities at PORTS for commercial enrichment to the United States Enrichment Corporation (USEC). Uranium was enriched at PORTS by USEC until May 2001, at which time the production facilities were placed into a cold-standby mode. During cold standby, the process buildings were maintained with a restart capability as a strategic hedge against a disruption in the nation’s supply of enriched uranium. DOE terminated the cold-standby program in September 2005 and replaced it with a cold-shutdown program, which no longer maintained the gaseous diffusion restart capability. The process buildings, support facilities, and auxiliary facilities are more than 50 years old but have been maintained in a “safe and secure” condition. If demolition of the gaseous diffusion buildings and ancillary structures and systems is selected as the preferred alternative for the buildings, a significant amount of waste will be generated and will require disposal. The disposal alternatives for this potential waste are being evaluated in this waste disposition RI/FS.

The GDP and surrounding area are owned by DOE. The plant consists of 415 facilities (“facility” can mean a building, utility system, or infrastructure unit) with three main process buildings known as X-333, X-330, and X-326, which house the gaseous diffusion equipment. Various support and auxiliary buildings/structures include many substantial buildings/structures for product feed and transfer operations, maintenance, steam generation, chemical cleaning, decontamination, process heat removal, water supply, water storage, water distribution, and electrical power distribution. Other buildings house the administrative offices, hospital, cafeteria, security headquarters, plant control facility, and laboratory support. These buildings consist mostly of concrete/steel construction on concrete slabs.

The three process buildings, as well as most of the remaining buildings and structures, are situated within the approximately 1,000-acre industrialized area that lies within Perimeter Road. The industrialized area includes a 750-acre controlled access area. The central, industrialized area is largely devoid of trees, with managed lawns, parking lots, and paved roadways dominating the open space. The portion of the DOE property outside of Perimeter Road, consisting of more than 2,500 acres, is used for a variety of purposes, including a water treatment plant, sediment ponds, sanitary and inert landfills, cylinder storage yards, open fields, and forested buffer areas (U.S. Nuclear Regulatory Commission [NRC] 2006a). Closed existing landfills and burial grounds account for approximately 101 acres.

Figure 1.1. PORTS Location

Natural uranium, as mined, contains approximately 99.3 percent of the nonfissionable uranium-238 isotope and approximately 0.7 percent of the fissionable uranium-235 isotope. Based on the very small difference in molecular weight between these two isotopes, isolation of these isotopes is achieved using a physical separation process. The gaseous diffusion process uses uranium hexafluoride (UF_6), the only compound of uranium that exists as a gas at reasonable temperatures and pressures, as the feed stock. This gas is forced through a porous medium, or “barrier.” Gaseous diffusion is similar to the distillation process because the light weight components (uranium-235) move up through the process equipment and are removed near the top, and the heavier components (uranium-238) move down and are removed near the bottom.

During the uranium enrichment process at PORTS, uranium-235 moved through the barriers more easily, increasing in concentration as it moved through the process. About half of the gas diffused through the barrier was fed to the next higher stage, while the remaining undiffused portion was recycled to the next lower stage. The uranium enrichment process was initiated in X-333 and continued in series to X-330 and X-326. The “products” from the enrichment operations, highly-enriched uranium (HEU) (greater than 90 percent uranium-235), intermediate-enriched uranium (between 5 and 90 percent uranium-235), and low-enriched uranium (LEU) (less than or equal to 5 percent uranium-235), were withdrawn from X-326.

The basic separation equipment for gaseous diffusion is a “stage.” At PORTS, a stage consists of the following:

- A converter that contains porous separation media (referred to as the barrier material or barrier tubes) with the support structure to hold the separation media
- A gas cooler
- A compressor driven by an electric motor to move the UF_6 gas through the converter
- Interconnecting piping and control valves to contain and control the gas flows.

There are 4,080 stages at PORTS. The three process buildings were constructed to house the equipment and operations for uranium enrichment, collectively referred to as the “cascade.” The buildings are located in the center of the PORTS Facility and cover a combined footprint of approximately 90 acres under roof (Figure 1.2). A brief description of each process building is presented below.

X-333 Building

The X-333 Building was used for the initial enrichment of uranium (up to approximately 2 percent uranium-235 enrichment). The building is 1,456 ft long, 970 ft wide, and 82 ft high, with a combined floor space of 65 acres (two stories). This two-story, steel-frame structure is constructed of asbestos-containing transite siding and steel-reinforced concrete floors and columns. It has a flat, composite, built-up, tar and gravel-coated roof. Open truck alleys for rail and truck access are located on the east and west sides of the building.

The process equipment and its associated valves and piping are located on the second floor. This building contains eight units (80 cells and 640 stages) of ‘000’ equipment, which is the largest gaseous diffusion equipment at PORTS. The converters in the X-333 Building are approximately 13 ft diameter and 24 ft long, and weigh approximately 66,000 lb.

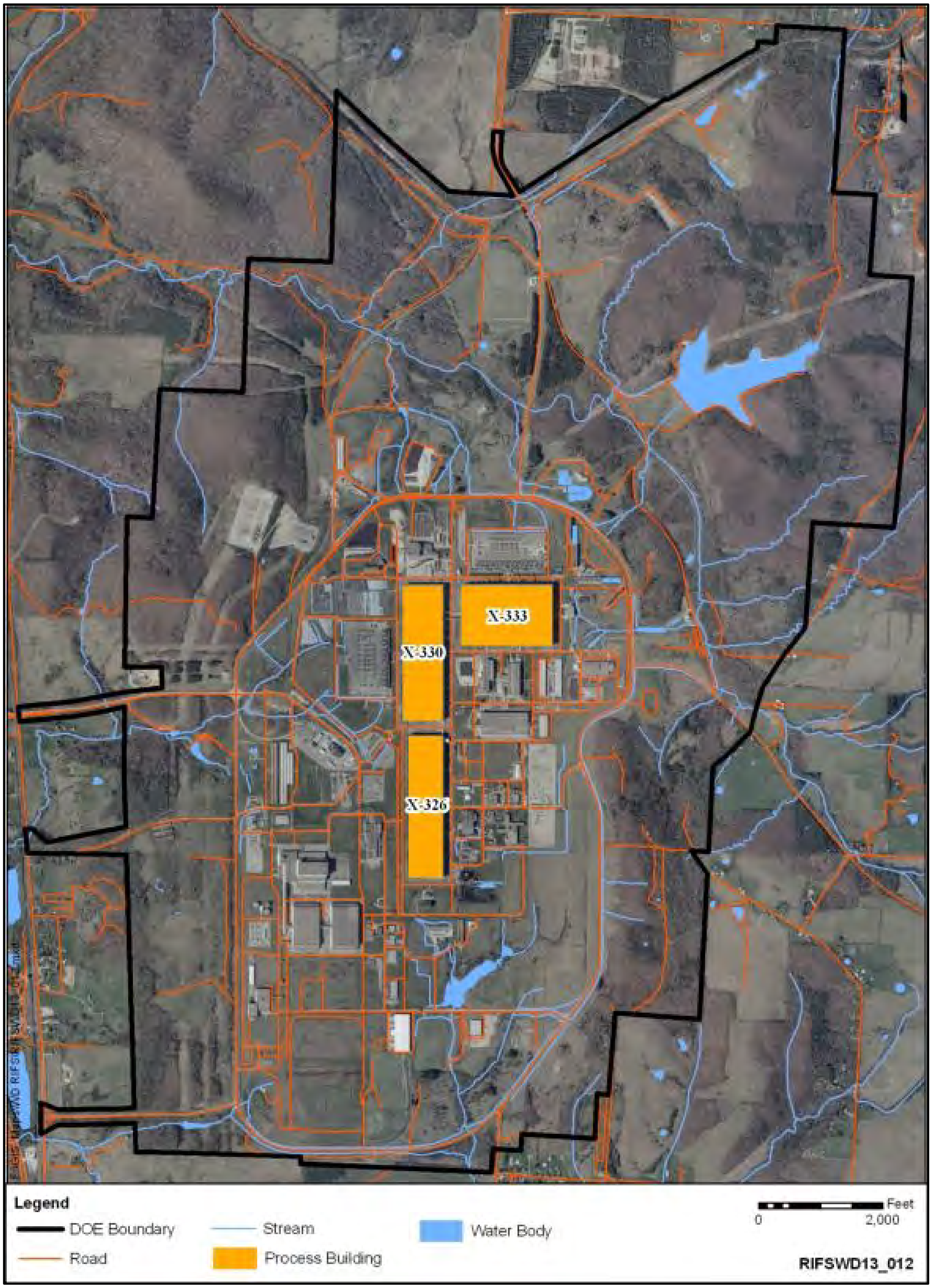


Figure 1.2. PORTS Facility

X-330 Building

The X-330 Building was used for the intermediate phase of uranium enrichment and tails withdrawal. This building is 2,176 ft long, 640 ft wide, and 66 ft high, and it has a combined floor space of 55 acres. The building construction is similar to that of the X-333 Building, with a two-story steel frame; asbestos-containing transite siding; steel-reinforced concrete floors and columns; and a flat, composite, built-up, tar and gravel-coated roof. The X-330 Building has one truck alley on its west side.

Similar to the X-333 Building, the process equipment and its associated valves and piping are located on the second floor. The X-330 Building is similar in design to the X-333 Building, but it contains two sizes of process equipment, ‘00’ (or X-31) and ‘0’ (or X-29), both smaller in size than the equipment in the X-333 Building. The X-330 Building contains six units of ‘0’ size equipment (60 cells and 600 stages) and five units of ‘00’ size equipment (50 cells and 500 stages).

X-326 Building

The X-326 Building was used for the high uranium enrichment phase and enriched product withdrawal. About two-thirds of the building was used to produce commercial grade nuclear material. This building is 2,280 ft long, 552 ft wide, and 62 ft high, and it has a combined floor space of 58 acres. The two-story steel-frame structure is constructed of asbestos-containing transite siding and steel-reinforced concrete floors and columns. In addition, this building has a flat, composite, built-up, tar and gravel-coated roof. The process equipment and its associated valves and piping are located on the second floor.

The X-326 Building contains two sizes of equipment, which are the smallest pieces of gaseous diffusion equipment at PORTS. The two sizes of process equipment are referred to as the X-27 size, the larger of the two sizes, and X-25 size, the smaller of the two sizes. The converters weigh 3,500 lb and 4,600 lb, respectively. There are three units of X-27-size equipment (60 cells and 720 stages) and 6.5 units of X-25-size equipment (130 cells and 1,560 stages). In addition, there are 10 six-stage cells, called “purge cells,” of X-25-size equipment specially designed to remove light gases from the UF_6 stream.

1.2.2 Site History

The sections below summarize the PORTS nearly 60-year history for two categorical areas. Section 1.2.2.1 focuses on the production mission history dating back to 1954 when PORTS began operations, and Section 1.2.2.2 focuses on the environmental restoration and regulatory compliance history dating back to 1989, when the Ohio Consent Decree was issued. This decree requires investigation and remediation of solid and hazardous waste units at PORTS in accordance with RCRA.

1.2.2.1 PORTS production and waste management history

PORTS began operations in 1954 and was one of three uranium enrichment facilities originally constructed in the United States; the other two were constructed in Oak Ridge, Tennessee, and Paducah, Kentucky. PORTS used the gaseous diffusion process to provide HEU to the U.S. Navy and LEU for electrical power generation. From 1991 until production ceased in 2001, PORTS produced only LEU for commercial power plants. In 1993, DOE leased the commercial uranium enrichment operations to USEC while retaining responsibility for certain environmental restoration and waste management activities, uranium programs, and long-term stewardship of non-leased facilities at PORTS.

In August 2000, USEC made a business decision to terminate its enrichment operations at PORTS and ceased those activities in May 2001. At that time, DOE contracted with USEC to establish a cold-standby program to maintain enrichment restart capability at the facility as a strategic hedge against disruption in the nation’s supply of enriched uranium. The cold-standby program was terminated by DOE at the end of fiscal year (FY) 2005, and the facilities have been maintained in cold-shutdown status while D&D was being planned.

Many operations and maintenance activities at PORTS involved hazardous conditions and the potential for exposure of personnel and the environment to radioactive and chemical hazards as hazardous substances. Enrichment process facilities with the potential for such exposures included the gaseous diffusion cascade and other process buildings; a process feed manufacturing plant; an oxide conversion plant; decontamination, cleaning, and uranium recovery operations; a smelter; and incinerators. Leaks and off-gassing from process equipment or components being repaired or replaced exposed workers and the environment to airborne uranium, transuranic constituents, fission products, fluorine, and hydrogen fluoride (HF) gas (DOE 2000a). Others worked with various hazardous substances such as asbestos, beryllium, lead, trichloroethene (TCE) and other solvents, polychlorinated biphenyls (PCBs), acids, chromium, nickel, lithium, and mercury. Radioactive materials and other hazardous substances were spilled or released to the environment from production-related facilities and attendant work activities.

Activities to manage wastes and liquid process effluents evolved over the operating lifetime of PORTS. Throughout the plant's history, efforts were made to minimize the loss of valuable enriched uranium in PORTS waste streams. However, in the early days of operation, on-PORTS sanitary landfills likely received some contaminated material because waste segregation practices were not fully implemented. As new requirements were enacted, additional waste streams, such as hazardous wastes, were restricted from disposal in on-PORTS landfills. Oils contaminated with PCBs and uranium were disposed of in oil biodegradation plots, burned in open containers, or incinerated (DOE 2000a).

The environmental monitoring program at PORTS was initiated in the 1970s in response to many of the new federal environmental regulations. In the 1970s, several new wastewater treatment systems were constructed to meet new permit requirements and to significantly reduce the levels of radionuclide emissions to surface water. The PORTS National Pollutant Discharge Elimination System (NPDES) permit, issued by the State of Ohio in the 1970s, required testing and reporting of specific chemical and physical properties and set limits on chemical discharges. Despite the discharge restrictions, legacy environmental contamination exists in ponds, local ditches, and streams (DOE 2000a).

In 1975, technetium-99 contamination was discovered in liquid effluents from X-705 (DOE 2000a). The technetium-99 was mainly discharged to Little Beaver Creek via the NPDES outfall associated with the X-701B Holding Pond. Some technetium-99 was released to the Scioto River. Technetium was also detected in some airborne discharges. The releases were documented in the Annual Site Environmental Reports. This discovery triggered significant, long-term efforts at PORTS to isolate sources of technetium contamination, develop or improve control methods, and establish appropriate monitoring protocols.

1.2.2.2 PORTS environmental restoration and regulatory compliance history

Dating back to 1989, eight major environmental regulatory documents have been established for PORTS, along with associated amendments. These are summarized in Table 1.2. The table identifies the document, its year of enactment, and its major intended purpose.

Table 1.2. PORTS Regulatory Documents

Regulatory Document	Date	Purpose
Ohio EPA Consent Decree	1989	Requires investigation and remediation of solid and hazardous waste units in accordance with RCRA, between Ohio EPA and DOE.
Toxic Substances Control Act Compliance Agreement (EPA and DOE)	1992	Brings DOE into compliance with TSCA regulations; and establishes D&D milestones for TSCA waste, as modified in 1997.
Ohio Hazardous Waste Facility Installation and Operation Permit (and Renewal)	1995-present	Allows RCRA-permitted container storage for hazardous waste with DOE as the Owner and Co-Operator and current Co-Operator; references the RCRA Corrective Action Orders: Ohio Consent, Administrative Consent Order, and Ohio Director’s Final Findings and Orders for Integration; and amended in 2011 to add/remove Co-operator.
Ohio Director’s Final Findings and Orders for Site Treatment Plan	1995	Allows for the storage of mixed hazardous waste beyond the 1-year regulatory limit; requires an Annual Site Treatment Plan Report; and the 1993 amendment was superseded.
Administrative Consent Order	1997	Requires investigation and remediation of solid and hazardous waste units in accordance with RCRA and CERCLA, between EPA and DOE.
Ohio Director’s Final Findings and Orders for Integration	1999	Integrates five RCRA closures into the RCRA Corrective Action Program. Provided for integration of groundwater monitoring and surveillance; maintenance of RCRA and solid waste units; amended in 2011 to update regulatory citations and include the D&D contractor.
Ohio Director’s Final Findings and Orders [for Depleted Uranium Hexafluoride]	2008	Requires DOE and assigned parties to generate and comply with the Depleted Uranium Hexafluoride Management Plan; amended in 2011 to add/remove assigned parties; and the 2004 and 2005 amendments were superseded.
Ohio Director’s Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action [for the Portsmouth Gaseous Diffusion Plant (Decontamination and Decommissioning Project)]	2010	Provides the framework for DOE to address the D&D of the GDP and support facilities using the CERCLA process; amended in 2011 with revisions to Attachments G, H, and I, corrected inadvertent omissions, reflected current strategy of documentation; and amended in 2012 with a revision to Attachment H.

CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (as amended)
D&D = decontamination and decommissioning
DOE = U.S. Department of Energy
EPA = U.S. Environmental Protection Agency
GDP = gaseous diffusion plant
Ohio EPA = Ohio Environmental Protection Agency
RCRA = Resource Conservation and Recovery Act, as amended
TSCA = Toxic Substances Control Act of 1976

The existing Ohio EPA Consent Decree, signed in August 1989 by Ohio EPA and DOE, requires DOE to complete investigations to determine the nature and extent of any environmental contamination that exists at PORTS, complete cleanup alternative studies, and implement corrective actions as needed.

Coincident with the Ohio EPA Consent Decree, DOE established the Environmental Restoration Program in 1989 to identify, control, and remediate environmental contamination at PORTS. The Environmental Restoration Program addresses inactive sites through remedial action, and it deals with contaminated soil and groundwater associated with active facilities. Because PORTS is a fairly large area, it was divided into four quadrants to facilitate the environmental contamination investigation and cleanup process. The Environmental Restoration Program was established and is currently operated to fulfill the cleanup requirements of the Ohio EPA Consent Decree and the Administrative Consent Order (known as the "Three Party Order") signed in June 1997.

DOE has completed the description of current environmental conditions, RCRA facility investigations (RFIs), and a cleanup alternatives study/corrective measures study for each quadrant. These investigations and reports detail the characteristics of PORTS that are pertinent to the waste disposition evaluation and characterized the nature and extent of contamination at PORTS. The primary sources of information include the RFIs for the four quadrants (DOE 1996a, 1996b, 1996c, 1996d) and the corresponding corrective measures studies (DOE 1998a, 1998b, 2000b, 2001a).

As a result of these studies, the focus has been to control contaminant migration and to address corrective action or closure of waste units that resided outside the main operating plant area.

1.2.2.3 Site-wide Waste Disposition Evaluation Project DFF&O history

A Pre-investigation Evaluation Report (PER) was prepared under the DFF&O and submitted to the Ohio EPA in October 2010 (DOE 2010a). The purpose of the PER was to identify the technical approach to be used in the waste disposition RI/FS, document the RI/FS scoping tasks, record the results from performing these tasks, and establish a framework for development of the waste disposition RI/FS Work Plan (DOE 2012a).

The waste disposition RI/FS Work Plan discussed the data gaps identified during the scoping, described the types of data needed to fill them, and proposed methods for collecting the data. These new data and already existing data were the necessary basis for developing waste disposal alternatives during the RI/FS. In addition, the work plan presented preliminary WAC for use in facility siting evaluations and determining the approach to calculating final WAC, if the on-Site disposal alternative were selected. WAC establish concentration and activity limits that ensure protection of human health and the environment. To further support the development of alternatives, the work plan provided a summary of the screening process used to identify potential locations for an on-Site waste disposal cell.

Filling these data gaps required the collection and analysis of numerous contaminant, geochemical, and geotechnical samples as well as waste characterization samples. Sampling and analysis plans (SAPs) were prepared to set forth the sampling approaches and protocols to be followed during RI/FS field activities and characterization of the process gas systems in support of alternatives associated with the Site-wide Waste Disposition Evaluation Project (DOE 2012a, 2011a). The RI/FS field activities SAP addressed data gaps related to siting a potential OSDC, and it also laid plans for collecting the hydrogeologic information necessary for developing modeled WAC. The equipment characterization SAP identified intrusive samples, nonintrusive samples, and measurements necessary to characterize the PORTS process gas systems and components. The analytical data from these samples and the measurements support estimating assumptions for waste materials and help to determine the quantities of waste to be disposed, and also support the development and evaluation of the alternatives.

1.3 REPORT ORGANIZATION

This RI/FS report consists of an executive summary, 10 individual sections constituting the main report, and 12 supporting appendices (Appendices A through L). A brief overview of each of the 10 sections contained in the main report is provided below. The overview includes a discussion of the content of the section, identifies the supporting appendices, and provides a summary of conclusions when appropriate. Readers should note that while the DFF&O contains outlines of required elements for individual RI and

FS reports, DOE has merged the two outlines into a combined RI/FS report. This report follows the combined outline and includes all of the required elements.

Figure 1.3 presents a summary flow diagram showing the CERCLA contents of the RI/FS report by section. Section 10 is not included as it was outside the CERCLA process. This figure will be used throughout the report to remind the reader of where he/she is in the document and what issues are addressed by a given section.

Section 1 – Introduction
Section 1 presents an overview of PORTS and its remediation history, discusses Facility-wide regulatory issues, defines the scope of the Site-wide waste disposition evaluation, and identifies the later decision documents that will be supported by the RI/FS.

Section 2 – Study Area Investigation
Section 2 provides a compilation of the field investigations performed to support the waste disposition evaluation. It summarizes relevant historical investigations, recent field investigations conducted during the RI/FS, and the results from these investigations. This section identifies the specific studies that were conducted to refine decision parameters and support technical evaluation of the alternatives under consideration in the FS.

In support of Section 2, Appendix A presents contamination characterization sample results, Appendix B presents boring and well installation logs, and Appendix C identifies the results from geotechnical and geochemical samples.

Section 3 – Physical Characteristics of the Study Area
Section 3 describes the existing environmental setting of PORTS and surrounding areas to support the FS. This information includes surface features, meteorology, surface water hydrology, geology, soils, hydrogeology, demography and land use, cultural resources, transportation, and ecology. The section is intended to support the identification of environmental pathways and receptors, which are used in development of the RI/FS conceptual site model (CSM). The CSM is a tool used in the human health and ecological risk evaluation and in the identification and development of protective and compliant remedial action alternatives.

To support Section 3, Appendix D identifies the characteristics of the final candidate locations for a potential OSDC under an on-Site disposal alternative.

Section 4 – Basis for Projected Waste Streams and Volumes and Potential Uncertainties
Section 4 presents updated estimates of D&D (RC-1) and environmental remediation waste volumes (RC-2, EC-1) that are anticipated to be generated at PORTS, and an assessment of the expected characteristics of the waste. This section also provides a discussion of the potential uncertainties associated with the waste volumes and characteristics.

The intent of this section is to support a waste disposition evaluation for future wastes generated under the DFF&O cleanup D&D work activities (RC-1) and to ensure any OSDC design and WAC takes into account these waste types. Additionally, DOE is evaluating non-D&D wastes (RC-2, EC-1) for potential placement in a potential OSDC, again to ensure the potential OSDC design and WAC can accommodate such waste streams if they are approved for placement in a potential OSDC. A discussion of potential fill sources (RC-2, RC-3) for any on-Site disposal options is also provided. This section concludes that sufficient information is available to adequately define waste volumes and characteristics for alternative

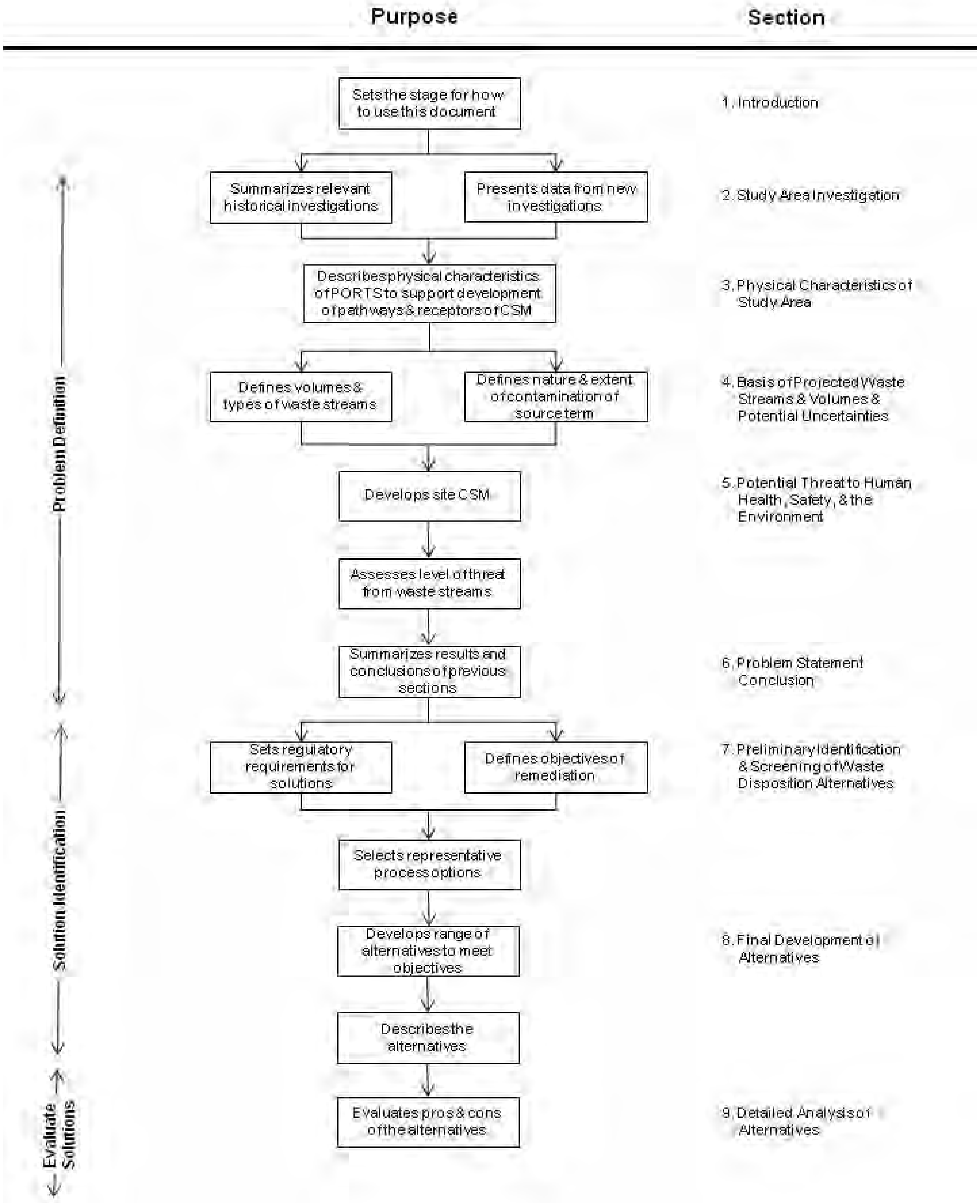


Figure 1.3. Flow Diagram of the PORTS Waste Disposition RI/FS Report by Section

development and cost-estimating purposes, and to define the nature and extent of contamination for developing source-term estimates. In support of Section 4, Appendix A presents recently collected data on contamination levels in the process equipment. Appendix E contains detailed waste volume estimates.

Section 5 – Potential Threat to Human Health, Safety, and the Environment
Section 5 is intended to summarize the potential risks associated with the PORTS buildings and process equipment under a no-action alternative. A streamlined, qualitative risk evaluation is presented.

For a no-action decision, the streamlined evaluation concludes that the contaminant concentration levels present in the D&D waste streams can result in hypothetical long-term human health threats of sufficient magnitude to justify the need for a remedial action. This conclusion and the results from the risk assessment serve as one of the cornerstones for setting the remedial action objectives (RAOs) presented in Section 7.

Section 6 – Summary of Problem Statement
Section 6 summarizes the primary investigation results and conclusions from Sections 2 through 5 of the RI/FS report. It is intended to serve as a foundation for the FS process presented in Sections 7 through 9. Readers who want to pass over the details in Sections 2 through 5 and their supporting appendices can use Section 6 to prepare for the FS portion of the report.

Section 7 – Preliminary Identification and Screening of Waste Disposition Alternatives
Section 7 presents the chemical- and location-specific ARARs, RAOs, and general response actions (GRAs) for the development of waste disposition alternatives. This section identifies and screens potential technology types so representative process options can be identified for developing alternatives. During the identification process, each relevant technology and process option is evaluated in terms of implementability, effectiveness, and cost. One on-Site engineered disposal process option and three off-Site disposal options are selected in this section for development into alternatives.

Three appendices support the identification of alternatives in Section 7. Appendix F presents the ARARs and pertinent TBC guidance related to waste disposition. Appendix G is an engineering study of process options to mitigate void-related subsidence in the disposal of process building equipment and piping. Appendix H is a detailed evaluation of potential sources of fill for operating a potential OSDC.

Section 8 – Final Development of Alternatives
Section 8 explains the assembly of representative process options into final remedial action alternatives, each aimed at achieving the RAOs and complying with ARARs. This section provides a sufficiently detailed description of each alternative to support the evaluation of alternatives in Section 9.

Appendix I supports Section 8 by presenting the development of draft modeled WAC for on-Site disposal, as required by the DFF&O. Appendix J presents a conceptual design for a potential OSDC at a representative location to support the development of an on-Site alternative. Justification for the representative location can be found in Appendix D.

Section 9 – Detailed Analysis of Alternatives
Section 9 presents an individual analysis of each final alternative developed in Section 8, along with a comparative analysis of the alternatives using the nine CERCLA criteria recognized in the DFF&O. Descriptions of the individual analyses are presented, including a NEPA evaluation of potential impacts. The intent of this section is to distinguish the advantages, disadvantages, and tradeoffs between the alternatives.

Appendix K provides a compilation of supporting technical evaluations conducted to assist in the detailed analysis of the alternatives, including an on-PORTS and off-PORTS transportation risk analysis, an evaluation of greenhouse gas impacts resulting from transportation of waste from PORTS, and an examination of passive leachate treatment system failure for a hypothetical OSDC. Appendix L presents the development of the cost estimates and associated cost estimate backup for each of the remedial action alternatives.

Section 9 illustrates that the major differentiating elements between on-Site and off-Site disposal are issues surrounding long-haul transportation and cost. Both options are protective and meet all applicable regulations or provide a basis for a waiver. Included in this section is an evaluation of the impacts and implications on an on-Site disposal alternative of co-disposal of wastes generated under the Ohio Consent Decree (RC-2, EC-1) with the D&D waste (RC-1).

Section 10-Ancillary Benefits of Alternative 2

Section 10 is the final section and it describes ancillary benefits that may be achieved through the use of an on-Site disposal option. This section is provided for the decision makers to understand the overall benefits of on-Site disposal from a programmatic standpoint that are not part of the DFF&O decision.

DFF&O Compliance Matrices to Assist in Review of the RI/FS

The DFF&O contains requirements and attached outlines for developing RI and FS reports. It also contains a generic statement of work (SOW) for conducting and documenting RIs and FSs. To assist readers with mapping the contents of this RI/FS report to the RI and FS report outlines and SOW requirements, a set of compliance matrices is included. These can be found after Section 11 (the references) in the main report.

Each of the three compliance matrices serves as a crosswalk of requirements and how those requirements were addressed in the individual sections and appendices of the RI/FS report. The first compliance matrix focuses on RI report requirements (Attachment A, Appendix E, Outline E-1 of the DFF&O). The second matrix focuses on FS report requirements (Attachment A, Appendix G, Outline G-1 of the DFF&O), and the third matrix focuses on the RI and FS SOW itself (Attachment A of the DFF&O).

Readers can detach the provided matrices and use them to track compliance with all major DFF&O requirements and reporting obligations.

2. STUDY AREA INVESTIGATION

Problem definition begins by assimilating the historical and current data that have been collected. These data are then used in subsequent stages of problem definition to build a CSM that defines the source of contamination, the fate and migration potential of the contamination, and the exposure to potential receptors. The intent of Section 2 is to present the relevant historical and current data that are used in later sections. Section 2 provides an overview of previous environmental restoration investigations and waste disposition planning activities (Section 2.1), and it introduces the recent investigations conducted to support development of a CSM and to develop alternatives (Section 2.2). The primary objectives of these recent investigations were to: (1) collect physical samples from select process gas equipment (PGE) to characterize waste constituents that may be present in the D&D waste to support all alternatives and (2) collect hydrogeological, geochemical, and geotechnical data identified during data quality objective workshops to support development of WAC and selection of a location for a potential OSDC. To identify the media to be sampled during the sampling efforts and specify the methods for collecting and analyzing the samples, two separate SAPs were prepared. A summary of the sampling conducted and a summary of the results from the various sampling programs are presented in this section.

This section is then completed with an explanation of deviations from the initial SAPs (Section 2.3) and an assessment of how the data meet the quality assurance (QA)/quality control (QC) requirements identified in the SAPs (Section 2.4).

2.1 PREVIOUS INVESTIGATIONS

Numerous environmental investigations have been conducted in and around PORTS by DOE. These investigations were focused primarily on releases and impacts to the environment that occurred exterior to the process buildings. While remediation of the environmental contamination is not a focus of this RI/FS, previous studies discussed in the following sections provide useful information about past operations originating in the process buildings at PORTS and provide details on the environmental setting, which are used to develop a CSM for the current waste disposition RI/FS. Results from these studies can be used to assess future contamination migration potential if no action is taken and to identify chemicals of potential concern (COPCs).

2.1.1 Environmental Restoration

The DOE Environmental Restoration Program was established in 1989 to identify, control, and remediate environmental contamination at PORTS. Because PORTS is a large plant, it was divided into quadrants to facilitate the environmental contamination investigation and cleanup process. The Environmental Restoration Program was established to fulfill the cleanup requirements of the Ohio Consent Decree and Administrative Consent Order signed in June 1997.

DOE has completed the description of current environmental conditions, RFIs, and a cleanup alternatives study/corrective measures study for each quadrant, as summarized below. The four quadrant RFIs, implemented between February 1991 and July 1994, collected approximately 1,250 soil samples and 500 groundwater samples from 77 SWMUs. These investigations and reports have detailed the characteristics of PORTS that are pertinent to the waste disposition evaluation, characterized the nature and extent of contamination at PORTS, and provided a robust dataset that covers the primary industrial area of PORTS. The primary sources of information include the RFIs for the four quadrants (DOE 1996a, 1996b, 1996c, 1996d) and the corresponding corrective measures studies (DOE 1998a, 1998b, 2000b, 2001a).

The RFIs, in addition to defining and characterizing sources of contamination and delineating the nature and extent of contamination at many waste management units, concluded that groundwater contamination had the potential to migrate off PORTS, but the plume movement was slow. With the exception of Quadrant I, where the Gallia is continuous to off-PORTS areas, the RFIs concluded that other areas of groundwater contamination would likely discharge to surface water prior to migrating off PORTS. The RFIs also concluded that primary contributors to risk included several metals (arsenic, beryllium, chromium, cadmium, nickel, and vanadium), technetium-99, uranium isotopes, PCBs, polycyclic aromatic hydrocarbons (PAHs), and chlorinated solvents (e.g., TCE).

The *Quadrant I Cleanup Alternatives Study/Corrective Measures Study Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2000b) was approved by Ohio EPA in 2000. In 2001, Ohio EPA issued the decision document for Quadrant I, which provided the required remedial actions for the X-749/X-120 groundwater plume, Quadrant I Groundwater Investigative Area (the 5-Unit Groundwater Investigative Area), and X-231A/X-231B Oil Biodegradation Plots, to address TCE contamination. Remedial actions required for the X-749B Peter Kiewit Landfill were provided in separate decision documents issued by Ohio EPA in 1996 and EPA in 1997 to address organic compounds and radionuclides emanating from the landfill. In 2004, TCE was detected in groundwater from an off-PORTS monitoring well south of the DOE property. TCE levels were less than the drinking water standard of 5 µg/L. Subsequent actions were implemented, including the addition of extraction wells in the X-749 South Barrier Wall area, to mitigate further migration of the groundwater plume. Monitoring data indicate these wells are functioning as intended to reduce contaminant migration (DOE 2012b), and current data indicate that the off-PORTS TCE contamination has been reduced to non-detect levels.

The *Quadrant II Cleanup Alternatives Study/Corrective Measures Study Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2001a) was approved by Ohio EPA on March 26, 2001. After approval of the document, however, Ohio EPA requested an amendment to the approved study to address additional remedial alternatives for the X-701B area. Amendments were submitted in 2001 and 2002. In January 2003, Ohio EPA informed DOE that a separate Preferred Plan and decision document would be prepared for the X-701B area. Ohio EPA issued the X-701B Preferred Plan in September 2003 and the X-701B Decision Document in December 2003 to address TCE in groundwater.

Phase I field activities for the X-701B groundwater remediation began in September 2005 to determine operating parameters for the oxidant injection system, including the injection methodology, rate, pressure, and spacing; reagent concentration; and reagent volume. Based on the results of the Phase I field activities, DOE developed a work plan for completion of the groundwater remediation at X-701B. This work plan was approved by Ohio EPA in September 2006. The first phase of oxidant injections was completed during October 2006, with Phase II injections completed in April 2007 and August 2007. In 2008, additional Phase II injections were completed in April, June/July, and October. Following the October oxidant injections, DOE-PORTS requested an independent review of the X-701B project by DOE Headquarters to evaluate remediation results to date and provide recommendations for a path forward. The review determined the injections had been moderately successful in the upper and middle soil horizons, but they had not been effective in addressing the TCE contamination in the lower Gallia sand and the upper Sunbury shale. As a result of the review, DOE completed an Interim Remedial Measure in 2009 and 2010 that achieved a significant reduction in TCE in the deeper horizons. The Interim Remedial Measure included excavating the soil horizons, blending them with oxidants, and then replacing them back into the excavation in a manner that reconstructed the original geologic stratigraphy.

The *Quadrant III Cleanup Alternatives Study/Corrective Measures Study Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1998a) was approved by Ohio EPA in 1998. The decision document for Quadrant III required phytoremediation of the TCE groundwater plume near the X-740 Waste Oil Handling Facility. A *Supplemental Evaluation to the 2003 Five-Year Evaluation Report for the X-740 Phytoremediation System at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2007a), submitted to Ohio EPA in January 2007, found that the phytoremediation system had not performed as expected in removing TCE from groundwater in this area. In response to this evaluation and Ohio EPA comments, DOE submitted a work plan for additional remedial activities in the X-740 area. Three rounds of oxidant injections were completed in the summer of 2008 to remove TCE from the groundwater. The oxidant briefly reduced TCE concentrations but concentrations returned to typical levels by the end of 2008 (DOE 2011b). In 2010, enhanced anaerobic bioremediation was approved and implemented as a pilot study to address the plume at the X-740 area.

The *Quadrant IV Cleanup Alternatives Study/Corrective Measures Study Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1998b) was approved by Ohio EPA in 1998. DOE received the decision document for Quadrant IV in 2000. No new remedial actions were required in Quadrant IV. (Remedial actions had already taken place at the X-344D Hydrogen Fluoride Neutralization Pit, X-735 Landfills, X-611A Former Lime Sludge Lagoons, and X-734 Landfills.) The *First Five-Year Review for the X-734 Landfill Area at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* was submitted to Ohio EPA in 2008 (DOE 2008). This report found that construction of the caps on the landfills had achieved RAOs by isolating contaminants in soil and sediment from potential receptors. The caps are preventing contaminants in soil and sediment from migrating to groundwater and surface water. Ohio EPA approved the report in December 2008.

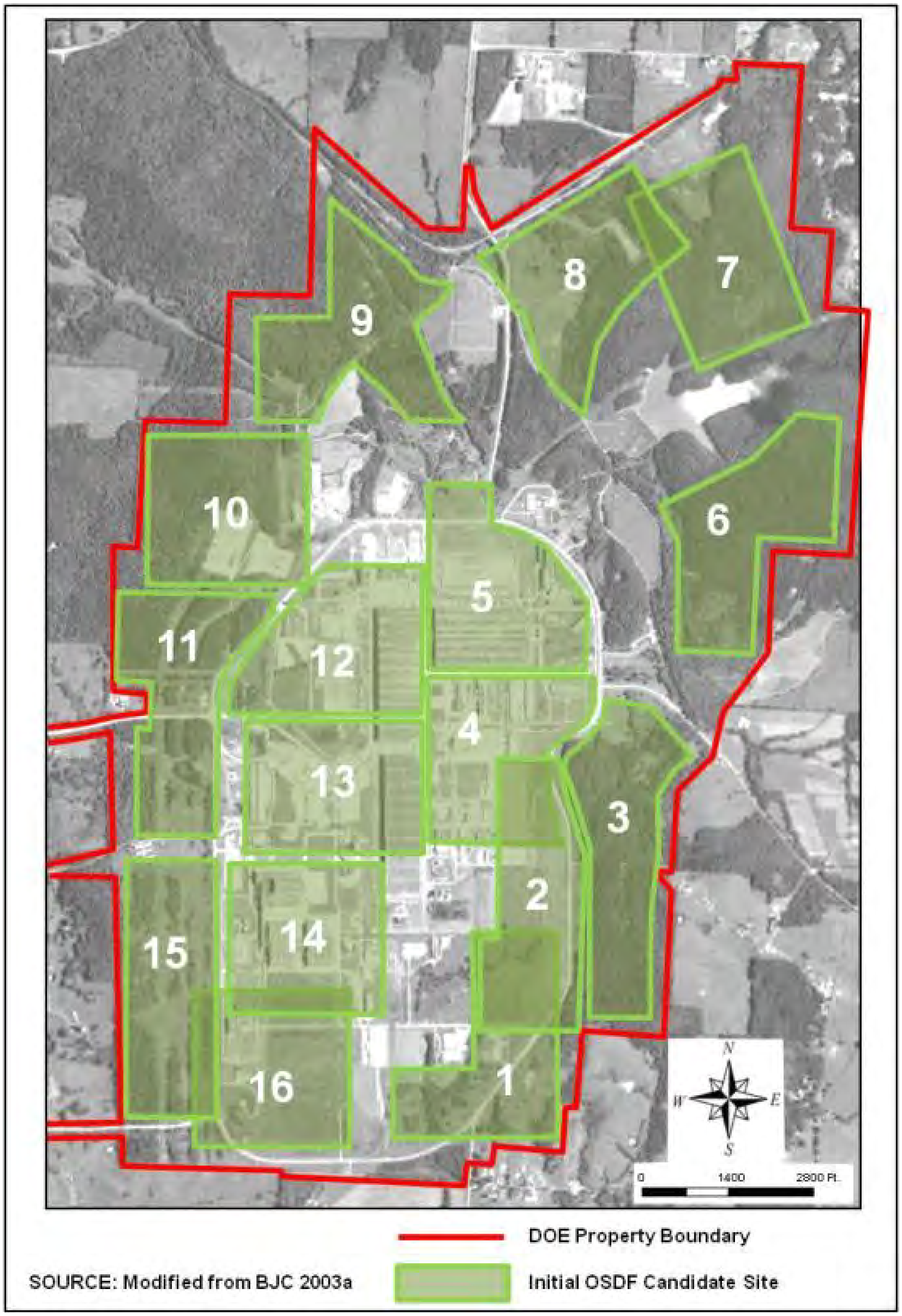
2.1.2 Waste Disposition Planning

From 2002 through 2009, DOE prepared several documents about a potential waste disposal facility at PORTS, during which time off-PORTS shipments of waste continued. These reports covered subjects that included the following:

- Preliminary assessment (November 2002) (Bechtel Jacobs Company LLC [BJC] 2002)
- Identification and screening of candidate locations (April 2003) (BJC 2003a)
- Waste volume/characteristics inventory (April 2003) (BJC 2003b)
- Conceptual design of a potential waste disposal facility at PORTS (August 2006) (DOE 2006).

The identification and screening report (BJC 2003a) considered a potential waste disposal facility at PORTS that would consist of an above-grade, RCRA-compliant earthen disposal cell with a capacity of 4 million cy and a waste footprint of 42 acres. The report estimated an additional 108 acres would be needed for ancillary facilities to support initial operations and facilities needed for staging, temporary storage, transport support equipment decontamination, storm water management, security, weighing, and administration. The total footprint for the entire disposal facility would be approximately 150 acres.

PORTS-specific screening criteria were developed to identify and evaluate a wide range of candidate locations for the facility. The screening criteria were based on ARARs for siting a mixed hazardous and radioactive waste disposal facility, as well as other site-specific criteria (geologic, hydrologic, and seismic conditions; land use plans; topographic features; etc.). Sixteen candidate locations were initially selected throughout the DOE property at PORTS (Figure 2.1). During this preliminary siting effort, DOE requested at least one of the candidate locations be in an area that has been impacted by former waste management activities and at least one candidate location be in an area that has not been impacted.



SOURCE: Modified from BJC 2003a

Figure 2.1. Initial Candidate Locations for a Potential Waste Disposal Facility at PORTS

The initial candidate locations met preliminary siting requirements and could reasonably be considered acceptable areas for placement of a potential disposal facility at PORTS. To be considered as an initial candidate location, the location had to be entirely within DOE-owned property, contain at least 150 contiguous acres, and not be technically or administratively impracticable or cost prohibitive. The potential locations went through two screening stages against the siting criteria, which resulted in three sites being recommended for further evaluation in an RI/FS.

The *Portsmouth Gaseous Diffusion Plant Decontamination and Decommissioning Project On-site Waste Disposal Facility Conceptual Design - Final Submittal* (DOE 2006) provided a conceptual design and life cycle cost estimate for construction of a potential disposal facility at PORTS. The document provided conceptual-level descriptions of disposal cell design, operational requirements, and capping/post-operations requirements.

The potential disposal facility was proposed at PORTS for disposal of waste from D&D of the Portsmouth GDP. The design report included the following general benefits of such a facility:

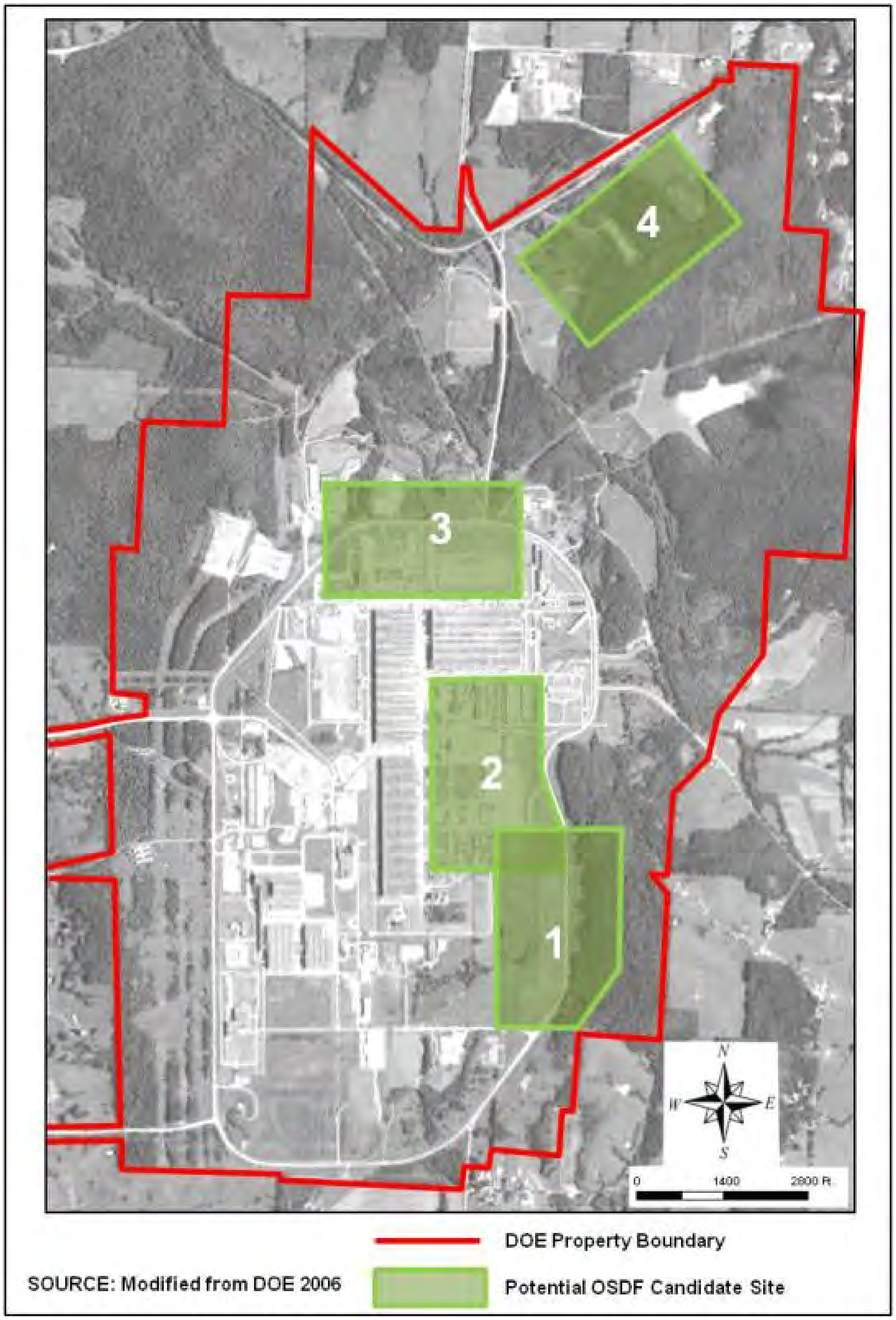
- Acceleration and cost reduction of the D&D activities
- Reduced risks and potential injuries from transport of wastes to an off-PORTS facility
- Greater level of certainty that long-term disposal capacity would be available at PORTS to support D&D and remediation activities
- Provision of jobs and opportunities within the local economy.

The conceptual design was based on the waste types and volumes estimated in the waste management plan (Theta Pro2Serve Management Company, LLC [TPMC] 2006a) (Section 9.7 of the 2006 Conceptual Design Report). Wastes excluded from the potential disposal facility at PORTS included liquid waste, transuranic (TRU) waste, RCRA land-banned waste, USEC-generated waste, municipal sanitary waste, and waste generated off PORTS. With an assumed area of 150 acres needed for a potential disposal facility at PORTS, the 2006 Conceptual Design Report recommended four locations that the project team considered to be candidate locations requiring further assessment (Figure 2.2).

2.1.3 Existing Study Area Data

Development and evaluation of an on-Site disposal alternative pursuant to the DFF&O requires data on the geochemical properties of the soil for groundwater modeling and WAC development, as well as hydrogeological characteristics of the potential location for a disposal facility. Geotechnical data are required to determine soil properties such as subsidence, compaction, permeability, etc. for facility design. Hydrogeological data are required to evaluate compliance of the location of such a facility with ARARs such as the State of Ohio waste disposal siting requirements.

Considerable existing geologic and hydrogeologic data are available for PORTS, including data from more than 1,600 soil borings. This data can be found in facility investigation and corrective measures reports for the four quadrants, as well as in annual groundwater reports. Data regarding depth to groundwater are sufficient over most of the Facility. However, as previously stated, minimal existing data are available for some potential disposal facility locations. Therefore, additional investigation activities have occurred at potential locations to supplement existing information.



SOURCE: Modified from DOE 2006

Figure 2.2. Four Potential Locations for a Disposal Facility Considered in a 2006 Conceptual Design Report at PORTS

Existing geochemical data include total organic carbon (TOC) and cation exchange capacity data collected during previous investigations and PORTS-specific soil adsorption coefficients (K_d values) derived for a vadose zone soil-leaching study performed in 1994. The TOC dataset, which has a lognormal distribution, ranges from 0.00008 to 0.0082 kg/kg with a geometric mean of 0.0009 kg/kg or 0.09 percent. The cation exchange capacity dataset has a normal distribution ranging from 4.8 milliequivalents (meq) per 100 g to 25.0 meq/100 g with a mean of 13.9 meq/100 g (DOE 2012a).

The K_d values for contaminants of interest are both chemical- and site-specific. The K_d value of an organic contaminant, such as TCE, is calculated using the TOC values from the soil. The K_d values are used for fate and transport modeling and have an indirect influence on the transport of contaminants. That is, the greater the K_d value, the more adsorption to soil, which results in reduced contaminant transport through the groundwater pathway. The K_d values for selected metals at PORTS were measured experimentally to support preliminary remediation goal (PRG) development in 1994 (DOE 1995a).

Site-specific K_d values were measured for antimony, arsenic (V), barium, cadmium, chromium (III and VI), lead, manganese, and mercury using a 24-hour, batch-type procedure (American Society for Testing and Materials [ASTM] D4646-87) on Minford silty, clayey soil. The values determined from the previous study are shown in Table 2.1.

Table 2.1. Soil Adsorption Coefficients Previously Measured at PORTS

Contaminant	Soil Adsorption Coefficient (mL/g)
Antimony	422
Arsenic (V)	208
Barium	545
Cadmium	48.5
Chromium (III)	810
Chromium (VI)	7
Lead	28,300
Manganese	16.5
Mercury	41

Source: DOE 1995a

DOE = U.S. Department of Energy

Geotechnical information is sparse for the locations being evaluated for a potential OSDC. Most existing geotechnical data are related to foundation studies for the GDP facilities and centrifuge project facilities. Therefore, geotechnical information specific to each of the current four study areas was collected to support the current RI/FS.

The Minford consists primarily of over-consolidated lean clays and silts. Based on several thousand split-spoon samples, fat clays constitute approximately 8 percent of the Minford, lean clays constitute about 59 percent, and silts constitute approximately 33 percent. Plastic limits of the clays are relatively constant with depth and average approximately 20 percent. Liquid limits typically decrease with depth. In situ moisture contents are generally within 5 percent of the plastic limit, which is typical for over-consolidated clays. As expected with over-consolidated soils, the Minford soils are quite strong (Law Engineering 1978), as evidenced by standard penetration resistance values.

Historical analytical data for contaminants present in soils within the potential OSDC study areas being evaluated in this RI/FS have been reviewed and compared to Minford soil background concentrations for PORTS and applicable risk-based PRG values for the purpose of determining if residual contamination from plant operations is present in these locations. Even where data may exceed the background value, it may still fall within the background range. In the 1996 background study, the established background values, or the upper tolerance limit for the background dataset, represent the maximum concentration of naturally occurring constituents that would be expected in the environment. More specifically, the established background values contain 95 percent of all possible sample measurements in the background dataset (DOE 1996e). Risk-based PRG values were used for screening to aid in identifying if an area warranted further evaluation. The RI/FS Work Plan (DOE 2012a) provided a summary of the contaminant data at each current study area, and an additional discussion of data collected for this RI/FS is presented in the following sections of this RI/FS report.

2.1.4 Historical PORTS D&D Data

Several plant support buildings and structures have been demolished under previous removal actions. The buildings with waste characterization data available are: X-100, X-100B, X-101, X-102, X-103, X-106, X-109C, X-334, X-342C, X-344, X-600, X-600B, X-600C, X-605, X-624-1, X-633, X-744S, X-760, and X-770. These buildings and structures ranged in complexity from simple warehouses and sheds having no contamination to complex facilities that were heavily contaminated with radionuclides, chemicals, and PCBs. Samples were collected from these buildings and structures to support waste characterization prior to disposition. Some individual buildings and structures had the potential for radiological, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), heavy metals, corrosives, and biological hazards contaminants to be present. Knowledge of materials or chemicals used in the buildings was the basis for identifying additional COPCs and developing the characterization plans. Based on the proximity of the buildings to areas of contamination or to historic releases, it was assumed that PORTS-related contamination potentially existed at every building. As these buildings span the range of complexity, they are representative of the majority of the waste streams that are anticipated to be generated from the D&D of PORTS.

The results from the waste characterization sampling effort are summarized in Table 2.2. As noted in the table footnotes, various buildings were sampled and analyzed for metals, commonly used organics, radionuclides, and samples were also analyzed using the Toxicity Characteristic Leaching Procedure (TCLP). These results represent the minimum and maximum values for selected constituents. The building or structure in which the minimum or maximum occurred is also identified. Only detected values are presented. Note that not all sample results have been validated. For example, buildings and facilities sampled prior to the DFF&O were sampled for internal purposes and did not have the same validation as more recent sampling plans developed under the DFF&O.

Table 2.2. Characterization Results from Previous Buildings and Structures

Inorganics/Organics	Minimum (mg/kg)	Building	Maximum (mg/kg)	Building
Arsenic	0.27	X-633	719	X-600
Barium	1.63	X-633	1,700	X-100
Cadmium	0.0402	X-633	89.8	X-106
Chromium	0.21	X-760	1,470	X-600B
Lead	0.386	X-633	2,590	X-600
Mercury	0.0089	X-760	1.29	X-600

Table 2.2. Characterization Results from Previous Buildings and Structures (Continued)

Inorganics/Organics	Minimum (mg/kg)	Building	Maximum (mg/kg)	Building	
Selenium	0.236	X-103	272	X-600	
Silver	0.16	X-103	13.9	X-600	
Benzene	0.032	X-100	0.032	X-100	
Chlorobenzene	0.003	X-342C	0.18	X-102	
Chloroform	0.003	X-342C	0.665	X-600	
1,1-Dichloroethylene	0.193	X-101	16.4	X-101	
Tetrachloroethylene	0.065	X-600B	0.318	X-600B	
Trichloroethylene	0.00047	X-103	0.087	X-600B	
2,4,6-Trichlorophenol	2.47	X-600	2.47	X-600	
PCB-1016	0.0084	X-103	1.95	X-103	
PCB-1242	0.00515	X-102	2.67	X-101	
PCB-1248	0.00152	X-101	0.74	X-100B	
PCB-1254	0.00201	X-600	221,000	X-100	
PCB-1260	0.00443	X-106	67,400	X-100	
PCB-1268	0.00553	X-106	18,900	X-106	
PCB total	0.005	X-103	279,000	X-100	
TCLP	**Minimum (mg/L)**	**Building**	**Maximum (mg/L)**	**Building**	**TCLP Limit (mg/L)**
Arsenic	0.005	X-770	4.19	X-100	5.0
Barium	0.0063	X-770	4.00	X-106	100
Cadmium	0.0011	X-770	0.711	X-103	1.0
Chromium	0.0041	X-106	**25**	X-100	5.0
Lead	0.004	X-770	**4,890**	X-106	5.0
Mercury	0.00089	X-100	0.0056	X-770	0.2
Selenium	0.0076	X-770	**1.44**	X-600	1.0
Silver	0.0105	X-600	0.503	X-600	5.0
1,1-Dichloroethylene	0.442	X-101	**12.3**	X-101	0.7
Radionuclides	**Minimum (pCi/g)**	**Building**	**Maximum (pCi/g)**	**Building**	
Technetium-99	0.132	X-334	109	X-600	
Thorium-228	0.157	X-760	1.86	X-760	
Thorium-230	0.2660	X-600	4.30	X-600	
Uranium-232	0.0122	X-760	0.0197	X-760	
Uranium-233/234	0.132	X-100	324	X-344	
Uranium-234	2.68	X-106	98.5	X-600	
Uranium-235	0.00546	X-600	16	X-344	

Table 2.2. Characterization Results from Previous Buildings and Structures (Continued)

Radionuclides	Minimum (pCi/g)	Building	Maximum (pCi/g)	Building
Uranium-235/236	0.0198	X-334	1.06	X-106
Uranium-236	0.00746	X-770	0.523	X-600
Uranium-238	0.0173	X-600	325	X-344
Plutonium-239/240	0.0141	X-760	0.0283	X-760
Plutonium-242	0.0184	X-342C	0.0184	X-342C
Americium-241	0.029	X-760	0.029	X-760
Uranium-235 (weight %)	0.157	X-770	2.7	X-103

Bolded TCLP maximums represent exceedances of the TCLP limit.

Buildings with "mg/kg" results: X-100, X-100B, X-101, X-102, X-103, X-106, X-109C, X-334, X-342C, X-344, X-600, X-600B, X-600C, X-605, X-624-1, X-633, X-744S, X-760, X-770.

Buildings with TCLP (mg/L) results: X-100, X-100B, X-101, X-102, X-103, X-106, X-109C, X-334, X-342C, X-344, X-600, X-600B, X-600C, X-605, X-624-1, X-633, X-744S, X-770.

Buildings with "pCi/g" results: X-100, X-100B, X-101, X-102, X-103, X-106, X-109C, X-334, X-342C, X-344, X-600, X-600B, X-600C, X-624-1, X-633, X-744S, X-760, X-770.

PCB = polychlorinated biphenyl
TCLP = Toxicity Characteristic Leaching Procedure

Most of the maximum radionuclide values are low with slightly elevated uranium activities in X-344. The X-100 Administration Building is associated with maximum values of arsenic and chromium in TCLP extracts (with chromium exceeding the TCLP limit) and PCBs. PCBs in X-100 are mostly associated with ventilation duct gaskets and light ballasts. Several of the maximum values of other constituents (such as arsenic, lead, mercury, selenium, silver, thorium-230, and uranium-234) were also associated with the X-600 Steam Plant. Selenium in a TCLP extract from X-600 exceeded the TCLP limit.

2.2 SITE-WIDE WASTE DISPOSITION INVESTIGATIONS

There are information and data collection activities that occur at each primary stage of a remedial project. The three primary stages of a project are the decision-making stage where the RI/FS, Proposed Plan, and ROD are developed; the design stage; and the implementation stage where the remedy is installed or implemented. The implementation stage includes any necessary efforts to safely dispose of the waste. The data needs in a phased remedial project, as required by the DFF&O, can be organized in these three stages:

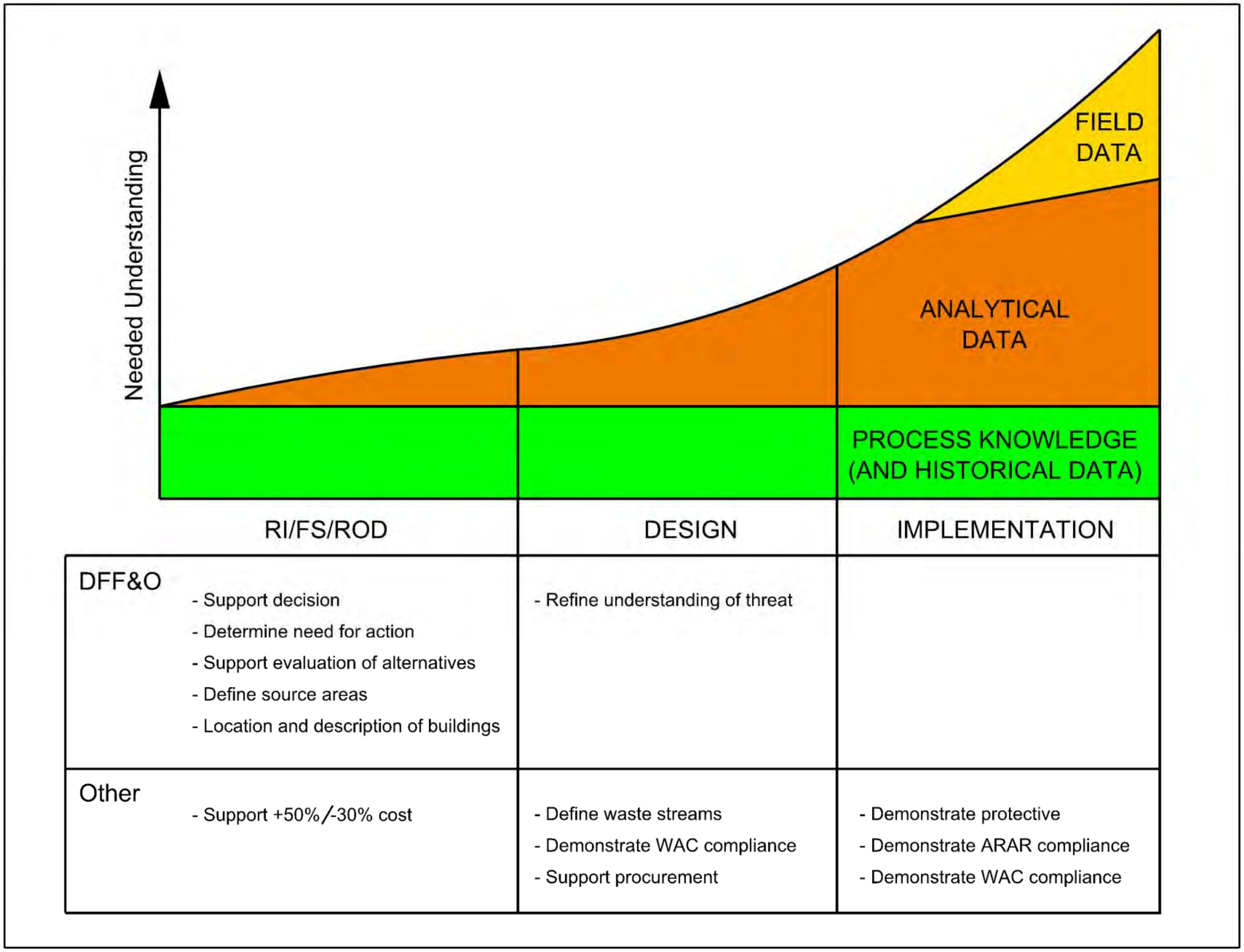
- Decision-making Stage: data necessary to support the development, comparison, and selection of remedial alternatives.
- Design Stage: data necessary to complete the final design of the selected remedial alternative according to the approved ARAR requirements and RAOs.
- Implementation/Waste Disposal Stage: data necessary to demonstrate ARAR compliance, determine WAC attainment, ensure worker safety, and document physical completion of the remediation.

There are three primary types of data or information available: (1) that available from process knowledge (such as from design drawings, past studies and reports, staff experience); (2) that from samples that are collected from environmental media or materials of construction and analyzed in a laboratory; and (3) that from field instrumentation (such as radiological surveys). The various stages of a project have a different degree of reliance on the types of information, as shown in Figure 2.3. Process knowledge, along with historical analytical data, is very useful during the decision-making stage of projects, but it often needs to be supplemented with additional data to answer questions specific to evaluating alternatives. For the waste disposition RI/FS, data quality objectives were developed and SAPs were written to fill siting information needs and WAC development information needs. Additionally, more information and data will be needed as the project progresses beyond the decision. There are pre-design efforts planned to better understand location conditions and to anticipate construction material behavior, including when the construction material is in contact with the waste that will be placed in a potential OSDC.

Collection of analytical data can be time consuming and expensive. Therefore, during each phase of the project, the need for additional analytical data is carefully considered. The DFF&O has specific requirements for data collection as well as specific plans identified to document the data collection activity. Figure 2.4 illustrates the various stages of the project and the information needs identified in the DFF&O.

Decision-Making Stage. During the decision-making stage of the project, the existing data and scope of the decision to be made are evaluated during development of the RI/FS Work Plan. During this process for the waste disposition RI/FS Work Plan, additional data for siting a potential OSDC and for calculating a modeled WAC were identified as being needed. The results from this data collection activity are presented in this section. A similar work plan was written for the process building RI/FS. The DFF&O requires consideration of additional data to evaluate alternatives and to identify waste streams and volumes. In that case, it was concluded that no new analytical data were needed to understand the scope of the D&D problem (presence of hundreds of potentially contaminated buildings) or to evaluate a demolition alternative. Instead, existing data and other process knowledge were sufficient to make a decision regarding whether to demolish the process buildings. But as discussed below, additional data are needed during design and implementation of the building D&D projects to demonstrate compliance with ARARs and WAC and to ensure safe working conditions.

Design Stage. During the design stage of a project, there is reliance on existing and additional analytical data. The DFF&O requires many types of work plans, including the RD/RA Work Plan, Pre-design Studies Plans, Regulatory Compliance Plans, Health and Safety Plans, and (if needed) Treatability Study Work Plans, all submitted for Ohio EPA review and approval/concurrence, as applicable. All of these plans would be generated during the design and implementation of a potential OSDC as well during the design and implementation of building D&D. As shown in Figure 2.4, the sampling documented in these plans supports various information needs required in the DFF&O. In addition, a WAC Attainment Plan would be developed to demonstrate how any waste generated would meet the WAC of the appropriate disposal facilities. Supporting these plans may be a number of additional SAPs, also submitted for Ohio EPA review and approval/concurrence as applicable.



	RI/FS/ROD	DESIGN	IMPLEMENTATION
DFF&O	- Support decision - Determine need for action - Support evaluation of alternatives - Define source areas - Location and description of buildings	- Refine understanding of threat	
Other	- Support +50%/-30% cost	- Define waste streams - Demonstrate WAC compliance - Support procurement	- Demonstrate protective - Demonstrate ARAR compliance - Demonstrate WAC compliance

Figure 2.3. Data Needs and Types

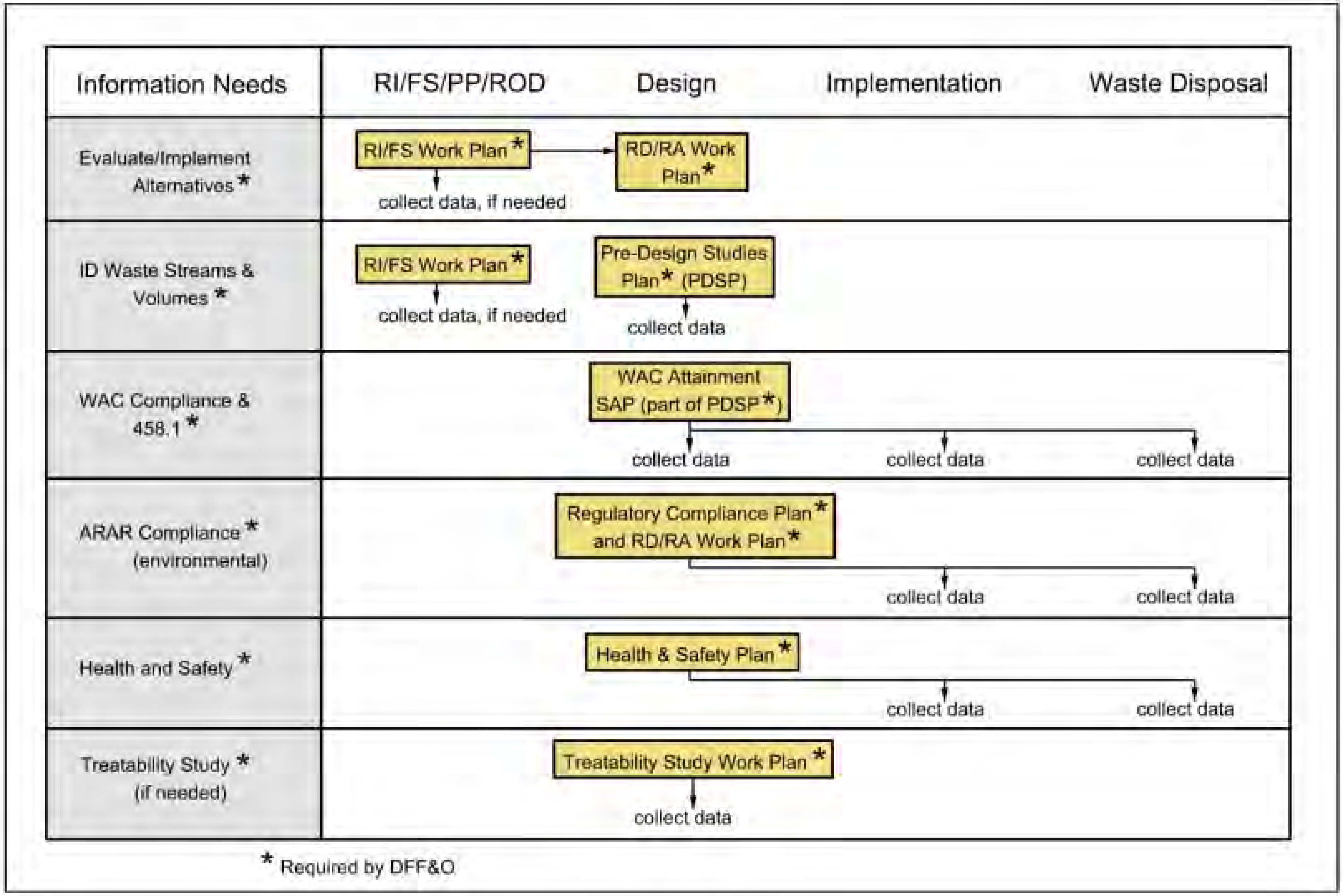


Figure 2.4. DFF&O Analytical Data Collection Requirements

Implementation of the sampling required by these SAPs and plans begins during the design and continues into the implementation stages of the project. An appropriate number of samples would be taken from each building or group of like buildings/structures or infrastructure for the D&D project. Each major D&D medium would be sampled in a manner consistent with the impact of its volume, the level of contamination expected, and the uncertainty of the contaminant level relative to applicable WAC and/or safety basis. The sampled media could include building steel, roofing, walls, floors, residual soils, slabs, subsurface utilities, ventilation ducting, heat exchangers, and nonprocess piping or equipment suspected of radiological or hazardous contamination. If needed, treatability studies may be needed to assess the effectiveness of a treatment technology on some waste streams to demonstrate compliance with land disposal restrictions (LDRs) or Corrective Action Management Unit (CAMU) treatment standards. The actual numbers and locations of samples required during the design stage of the process building D&D project would be determined on the basis of the applicable WAC for waste disposal, treatment requirements, and safety basis. Regulatory review and approval or concurrence, as applicable, of these SAPs would be required prior to implementation.

Implementation/Waste Disposition Stage. While implementing the D&D project, nondestructive assay (NDA) measurements would be performed on equipment or piping suspected of requiring uranium deposit removal and equipment being shipped for on- or off-Site disposal. In situ NDA might also be performed on the X-330 and X-333 converters to support material recovery, as necessary. Both sampled media results and NDA results would be used to segregate waste for recycling or off-Site disposal and would be used to demonstrate compliance with the WAC and ARARs, as appropriate.

The environmental sampling during D&D or during construction of a potential OSDC would be primarily of surface water and air to track any sediment and dust releases or potential releases of contamination and potential impacts on the environment, including on sensitive resources and on human health (on-PORTS workers and the public). Some of the data would be analytical from laboratories, and some would be from field monitoring efforts. This information would either allow a demonstration that environmental ARARs requirements are being met or would provide information to identify appropriate responses if a release of contamination occurs. Health and safety sampling may include radiological monitoring, industrial hygiene monitoring, or other sampling, including clearance samples from asbestos remediation areas, smear samples for radiological control, and metal coupon samples from equipment (as necessary) for cadmium and beryllium control programs.

Project-Specific Data Collection Strategy. Figures 2.5 and 2.6 illustrate the work plans/SAPs and sampling activities planned for each project. This Site-wide Waste Disposition Evaluation Project would determine and provide waste disposal/recycling options with associated WAC for all the wastes to be generated by the Process Buildings and Complex Facilities D&D Evaluation Project in a safe and ARARs-compliant manner.

In Figure 2.5, the general phased sampling strategy is presented for the Process Buildings and Complex Facilities D&D Evaluation Project. Most of the data needs such as WAC attainment and treatment requirements during the design and the implementation/waste disposition stages of the D&D would be determined by decisions made in the Site-wide Waste Disposition Evaluation Project. The plans and SAPs identified in Figure 2.5 would be developed for each of the three major process buildings. Data collection in the remaining process and support buildings may be conducted in groups with tailored plans and SAPs for each group. Data would be collected to support the design and implementation of safe and ARARs-compliant D&D and associated waste disposal of a major process building or a group of other smaller buildings. The data needed to demonstrate WAC compliance are the responsibility of the project generating the waste, and the approach for collecting this information is presented in Figure 2.5.

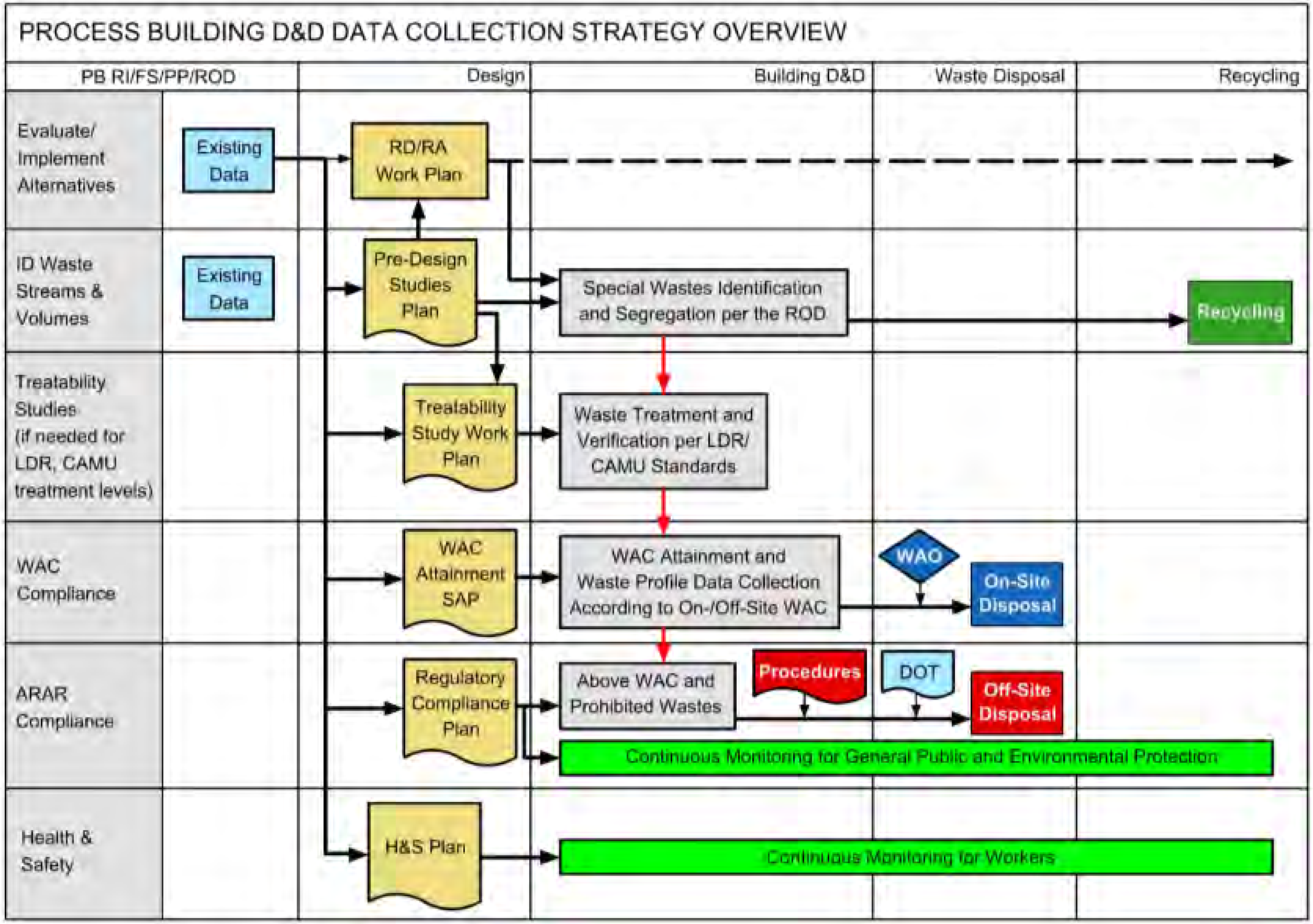
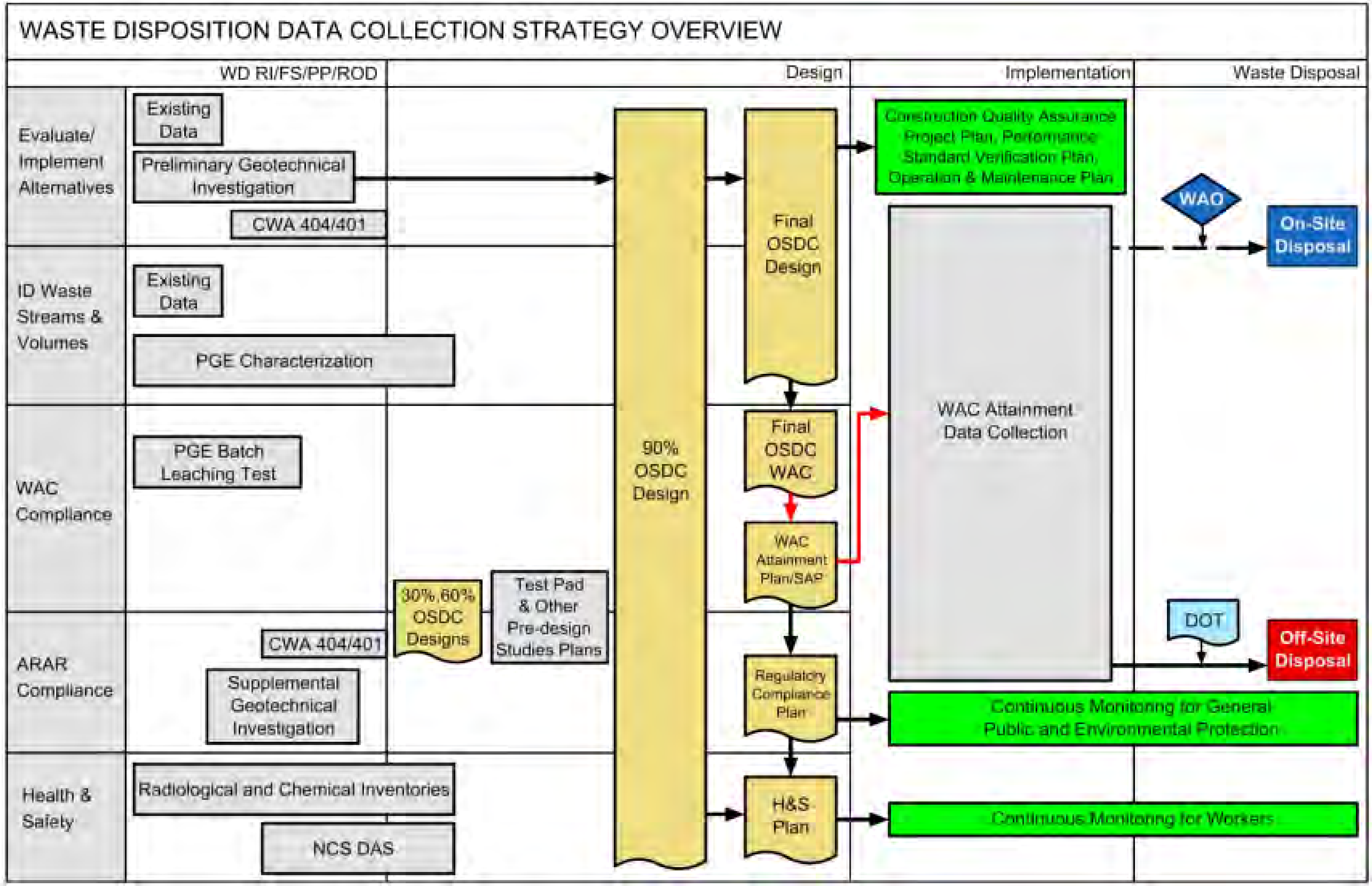


Figure 2.5. Process Building D&D Data Collection Strategy Overview



Note: Data collection will also occur during and after closure of a potential OSDC.

Figure 2.6. Waste Disposition Data Collection Strategy Overview

Figure 2.6 presents the phased sampling strategy for the Site-wide Waste Disposition Evaluation Project. Much more analytical data are collected early in the project, during the decision-making stage as well as in the early stages of design. There were several geotechnical investigations to support WAC development, siting, and design, and there are many pre-design studies to evaluate the waste and construction material physical characteristics. There are also many more operation and maintenance monitoring requirements, along with verification sampling for QC during construction. But, as with the D&D project, there is routine environmental monitoring using analytical and field data to demonstrate compliance with ARARs and during construction and operation of the potential OSDC, as well as routine health and safety monitoring and sampling.

Future Plans and SAPs for Data Collection. The following submissions would be finalized following the waste disposition ROD for Ohio EPA review and approval/concurrence:

- OSDC Operational Plans
- WAC Attainment Plan.

These plans would provide guidelines for necessary data collection efforts during both the design and implementation/waste disposition stages to demonstrate ARARs compliance and WAC attainment according to the RODs. Additional project-specific plans and SAPs are also planned for development to collect project-level data according to the submissions listed above to ensure compliance with a potential OSDC WAC. The following is a list of these plans and SAPs that would be developed to support the process building and waste disposition projects and submitted for Ohio EPA review and approval/ concurrence, as applicable:

- Pre-Design Studies Plans

- WAC Attainment SAPs

- Integrated Remediation Design Packages

- Health & Safety Plans

- Regulatory Compliance Plans as required by the DFF&O to identify the basis and approach for compliance with ARARs/TBCs.

Consistent with this overall data collection strategy, the information collected for the waste disposition RI/FS is discussed below.

2.2.1 Waste Stream Characterization

The objectives for the characterization activities in the process buildings were to collect process equipment samples and provide characterization data to verify process knowledge assumptions, and support the refinement of waste volume projections and definition of waste types for the RI/FS. The characterization activities for the process buildings were outlined in the approved *Phase 1 Sampling and Analysis Plan for the Process Equipment Characterization in Support of the Sitewide Waste Disposition Evaluation Project at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2011c), which is referred to as the Process Equipment Characterization SAP. Samples were collected from primary process equipment (converters and compressors) and auxiliary equipment associated with other process gas systems (such as surge drums, instrument lines, etc.) in the three process buildings: X-333, X-330, and X-326. Following this data collection effort for the RI/FS, data collection under this plan continues in support of the follow-on remedial design/remedial action to support the determination of WAC compliance.

Prior to implementation of the Process Equipment Characterization SAP, an initial characterization effort consisted of collecting both a shell and composite barrier sample from five converters located at the following locations in X-326: 27-2-2, 27-3-2, 27-3-4, 25-1-2, and 25-2-2. Therefore, 10 samples were collected (five shell samples and five barrier samples). Two duplicate samples were collected, one from the shell of the converter at the 27-3-2 location and one from the barrier of the same converter. Each sample was analyzed for TCLP metals (arsenic, barium, cadmium, lead, selenium, and silver), mercury, copper, zinc, total beryllium, PCBs, SVOCs, VOCs, and radionuclides.

Mercury, silver, total uranium-233 (as a separate isotopic concentration rather than undifferentiated uranium-233/234), total beryllium, PCBs, SVOCs, and VOCs were not detected in any of the samples. The following bullets summarize the TCLP metal results from the initial characterization effort:

- Arsenic was detected in five of the 10 sample TCLP extracts at a range from 0.0179 to 0.313 mg/L; no concentration exceeded the 5.0 mg/L TCLP regulatory limit for arsenic. All of the detected concentrations were in the five barrier samples.

- Barium was detected in all 10 sample TCLP extracts at low concentrations (ranging from 0.0088 mg/L to 0.0340 mg/L) that did not exceed the TCLP regulatory limit of 100 mg/L for barium.

- Cadmium was detected in three of the sample TCLP extracts at concentrations (ranging from 0.0018 to 0.008 mg/L) that did not exceed the 1.0 mg/L TCLP regulatory limit for cadmium.

- Chromium was detected in eight of the 10 sample TCLP extracts at concentrations (ranging from 0.00776 to 0.8290 mg/L) that did not exceed the 5.0 mg/L TCLP regulatory limit for chromium.

- Lead was detected in five of the 10 sample TCLP extracts at concentrations (ranging from 0.0122 to 0.0918 mg/L) that did not exceed the 5.0 mg/L TCLP regulatory limit for lead.

- Selenium was detected in two of the 10 samples ranging from 0.0339 to 0.0494 mg/L, which did not exceed the TCLP regulatory limit for selenium.

- Zinc was detected in seven of the 10 sample TCLP extracts at concentrations ranging from 0.008 to 0.167 mg/L. There is no TCLP regulatory limit for comparison to these results.

Technetium-99 results from this initial characterization effort are provided in Table 2.3. These results confirm that the technetium-99 activity concentrations in the converter tubes are higher (generally two to three orders of magnitude higher) than those on the converter shells. While the converter tubes have higher activity concentrations, the average levels in process equipment will be less as they will be averaged over the total weight of the process equipment component. These samples conservatively estimate the average technetium-99 activities expected to be encountered in the converters.

Table 2.3. Technetium-99 Converter Initial Sample Results for PORTS

Converter Component ID	Shell Sample (pCi/g)	Tube Sample (pCi/g)
270302	186	2.72×10^5
270202	172	7.20×10^4
270304	77	1.59×10^5
250102	407	3.03×10^5
250202	198	3.05×10^4

ID = identification

The Process Equipment Characterization SAP included the collection of intrusive and nonintrusive samples and measurements. Intrusive characterization consisted of collecting physical samples by breaching the process gas system. Nonintrusive characterization consisted of collecting characterization data by using NDA techniques or surface swipes.

The sampling program design used both random and judgmental sampling techniques. In all cases, intrusive samples were collected at predetermined locations in the process equipment and analyzed for uranium isotopes and other constituents. Following collection of the samples, the individual pieces of equipment will be removed from the process line and moved to a low background area for nonintrusive NDA analyses.

The intrusive samples were of barrier material and shell coupons from converters, deposit material from the seal/seal cavity areas within the compressors, and coupons from process auxiliary equipment. Sample locations associated with the random sampling program were preselected using a random number selection process, allowing for an equal likelihood of selection. In contrast, the judgmental sampling applies the detailed process knowledge to pinpoint how the concentration of uranium isotope ratios and technetium-99 would change in a measurable manner based on system design and material makeup.

Results from the Process Equipment Characterization SAP sampling effort are similar to those from the initial characterization discussed above. The following bullets summarize the TCLP metals results for samples collected from converters in the X-326 Building per the Process Equipment Characterization SAP:

- Arsenic was detected in two of the four sample TCLP extracts with a range from 0.0041 to 2.36 mg/L; no concentration exceeded the 5.0 mg/L TCLP regulatory limit for arsenic.

- Barium was detected in all four sample TCLP extracts at low concentrations (ranging from 0.0124 to 0.115 mg/L) that did not exceed the TCLP regulatory limit of 100 mg/L for barium.

- Cadmium was detected in two of four sample TCLP extracts at concentrations (ranging from 0.0055 to 0.0058 mg/L) that did not exceed the 1.0 mg/L TCLP regulatory limit for cadmium.

- Chromium was detected in all four sample TCLP extracts at concentrations (ranging from 0.128 to 2.25 mg/L) that did not exceed the 5.0 mg/L TCLP regulatory limit for chromium.

- Lead was detected in all four sample TCLP extracts at concentrations (ranging from 0.0113 to 0.111 mg/L) that did not exceed the 5.0 mg/L TCLP regulatory limit for lead.

- Mercury was not detected in any TCLP sample extracts.

- Selenium was not detected in any TCLP sample extracts.

- Zinc was detected in all four sample TCLP extracts ranging from 0.00132 to 0.0066 mg/L.

Appendix A contains the laboratory data reported for these TCLP samples.

The current radiological results from the Process Equipment Characterization SAP sampling effort are provided in Table 2.4. These results represent the minimum and maximum values for selected radionuclides, based on the type of sample (either swipe sample or solid sample from the component [converter or compressor]) from the three process buildings.

Table 2.4. Process Equipment Sampling Results for the X-333, X-330, and X-326 Buildings at PORTS

	Converter Component Samples (pCi/g)		**Compressor Component Samples (pCi/g)**		**Compressor Swipe Samples (maximum) (pCi/sample)**
	Min	**Max**	**Min**	**Max**	
			X-333		
Americium-241	ND	ND	ND	ND	ND
Neptunium-237	0.207	0.207	ND	ND	ND
Plutonium-238	ND	ND	ND	ND	ND
Plutonium-239/240	ND	ND	ND	ND	ND
Technetium-99	1,700	1,700	ND	ND	43.1
Thorium-228	ND	ND	ND	ND	ND
Thorium-230	0.861	0.861	ND	ND	2.41
Uranium-233/234	22.7	22.7	2.06	4.74	14,920
Uranium-235	ND	ND	0.128	0.128	63.1
Uranium-236	ND	ND	ND	ND	3.21
Uranium-238	30.7	30.7	1.7	4.75	16,310
			X-330		
Americium-241	ND	ND	ND	ND	ND
Neptunium-237	1.58	2.18	ND	ND	5.17
Plutonium-238	ND	ND	ND	ND	ND
Plutonium-239/240	0.424	0.509	ND	ND	ND
Technetium-99	26.9	45,100	2.51	2.51	10,700
Thorium-228	ND	ND	ND	ND	ND
Thorium-230	1.71	3.35	0.0105	0.0105	24.3
Uranium-233/234	0.36	162.4	2.25	5.87	56,360
Uranium-235	NA	NA	0.138	0.138	3,006
Uranium-236	0.220	0.220	ND	ND	82.44
Uranium-238	0.747	368	0.558	12.8	116,900

Table 2.4. Process Equipment Sampling Results for the X-333, X-330, and X-326 Buildings at PORTS (Continued)

	Converter Component Samples (pCi/g)		Compressor Component Samples (pCi/g)		Compressor Swipe Samples (maximum) (pCi/sample)
	Min	**Max**	**Min**	**Max**	
			X-326		
Americium-241	0.083	1.07	ND	ND	ND
Neptunium-237	0.306	4.56	ND	ND	8.02
Plutonium-238	0.61	5.86	ND	ND	ND
Plutonium-239/240	0.045	6.04	ND	ND	ND
Technetium-99	22.9	303,000	15.0	1,330	7,260,000
Thorium-228	0.48	0.571	0.0188	0.14	165
Thorium-230	0.071	66.28	0.091	4.12	4,074
Uranium-233/234	0.207	33,170	17.96	1,180	1,107,000
Uranium-235	0.053	1,007	0.745	36.5	38,870
Uranium-236	0.07	516.5	0.061	3.77	2,974
Uranium-238	0.052	623.3	0.105	12.62	3,210

Max = maximum detected value
Min = minimum detected value
NA = not applicable
ND = not detected above detection limit

These data indicate that for component samples, activity concentrations in converters are higher than those in the compressors. The data also indicate that technetium-99, uranium-233/234, and uranium-235 activities are typically greater in the higher end of the enrichment process (i.e., X-326 Building process equipment). The above table does not include results from deposits which had technetium-99, uranium-235, and uranium-238 maximum values of 2,020,000 pCi/g, 13,300 pCi/g, and 1,953 pCi/g, respectively (both technetium-99 and uranium-235 maximums occurred in X-326 while the uranium-238 maximum occurred in X-330). Appendix A contains the laboratory data reported for these process equipment samples.

Other analytes often detected in solid samples from the converters and compressors include chromium and lead. In all three process buildings, chromium ranged from 13.4 to 12,000 mg/kg in compressors and 9.1 to 707 mg/kg in converters. Lead results ranged from 1.9 to 444 mg/kg in compressors and 0.426 to 243 mg/kg in converters. These data indicate that chromium is higher in compressors than in converters, while lead is nearly the same for both pieces of equipment. The chromium and lead results were similar among the three process buildings. Appendix A contains the laboratory data reported for these samples.

2.2.2 Potential On-Site Disposal Study Area Characterization

Under this RI/FS, the Site-wide Waste Disposition Evaluation Project is evaluating four potential locations (Study Areas A, B, C, and D) (Figure 2.7) for a potential OSDC. Full development of a potential OSDC entails selecting a location and conceptualizing a design, which requires data on hydrogeologic and geochemical properties of soil and rock for subsurface flow and transport modeling and modeled WAC development. Geotechnical data are also needed to determine soil properties such as subsidence, compaction, and permeability.

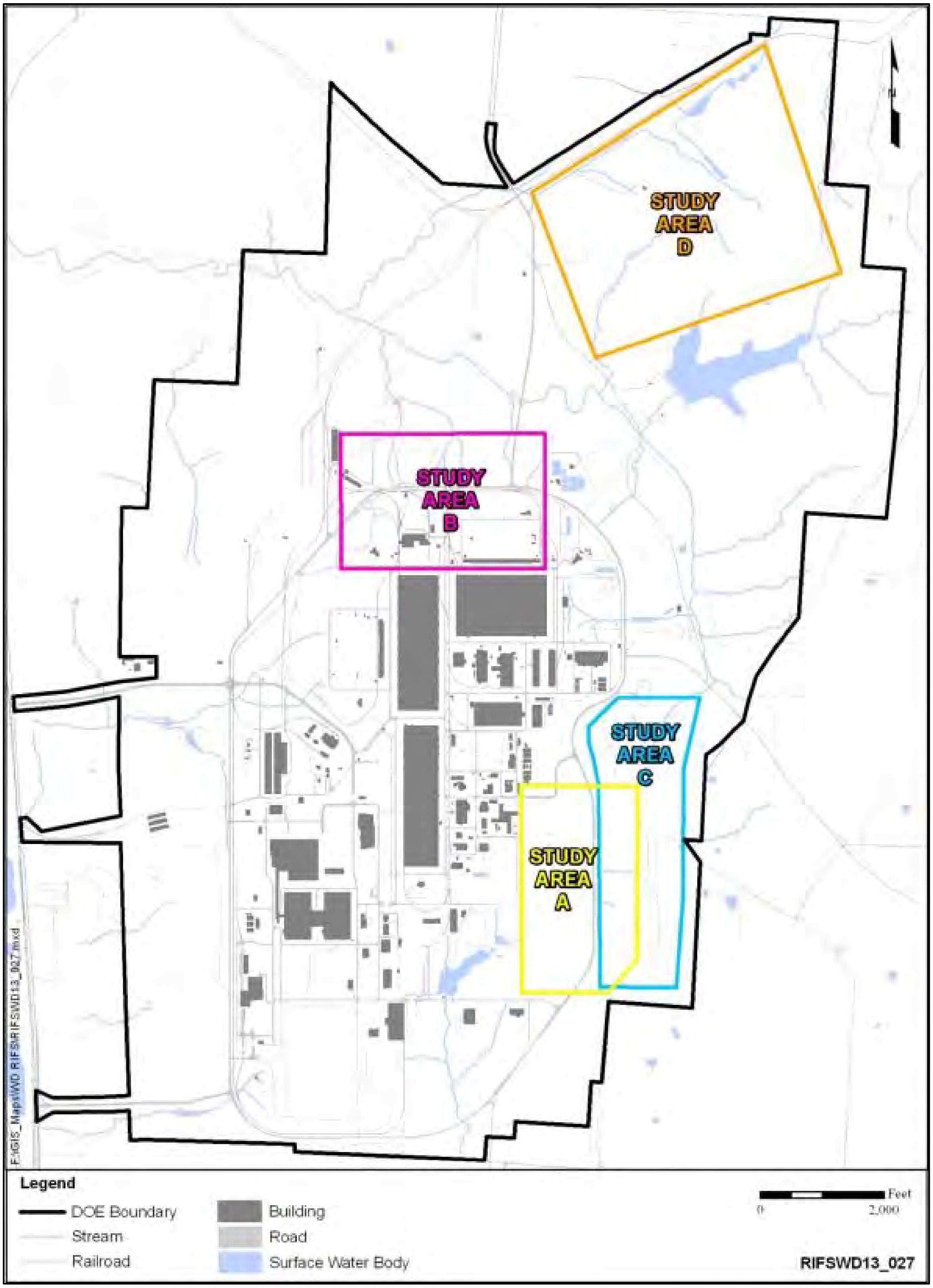


Figure 2.7. Locations of Four RI/FS Study Areas at PORTS

For these data collection efforts, several intrusive field methods were used to obtain the required geotechnical, geochemical, and analytical data, as outlined in *Geotechnical Sampling and Analysis Plan for the Sitewide Waste Disposition Evaluation Project at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2011a), referred to as the Geotechnical SAP, and the *Supplemental Geotechnical Sampling and Analysis Plan for the Sitewide Waste Disposition Evaluation Project at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2012c). These methods include, but are not limited to, cone penetration testing (CPT), drilling in both unconsolidated and bedrock formations to collect soil samples for geotechnical and geochemical testing, and installation of monitoring wells and piezometers.

The Geotechnical SAP was written to ensure that the field investigation and sampling were performed in a technically acceptable manner. The specific types of data collected included the following:

- Hydrogeologic data (depth to groundwater, vertical permeability), where already available data were insufficient for evaluating locations for a potential OSDC (primarily Study Areas A, C, and D)

- Geochemical data (contaminant adsorption coefficients, fraction of organic carbon in soil) to support modeling for development of modeled WAC (all study areas)

- Geotechnical and analytical data from the four RI/FS study areas being evaluated in the FS

- Changes made in the field to add investigation of nearby surface water streams and installation of test pits (Study Area D only).

An evaluation of the characteristics of the soils, geology, and groundwater pertinent for the proper siting, construction, operation, and monitoring of a potential OSDC was conducted. Important site-specific characteristics required by *Ohio Administrative Code (OAC)* 3745-27-06(C)(3) include the following:

Soil and bedrock characteristics
- Soil or rock type
- Color
- Moisture content
- Layering or interbedding
- Weathering
- Fracturing or jointing
- Mineral content
- Thickness
- Horizontal extent
- Depth and elevation.

Groundwater characteristics
- Uppermost aquifer system and significant zone of saturation
- Flow direction and rate
- Hydraulic conductivity
- Interconnection within upper aquifer system and significant zone of saturation
- Groundwater level elevation
- Temporal fluctuations
- Recharge and discharge

- Groundwater yield
- Groundwater chemistry.

In order to establish compliance with ARARs such as the Ohio solid waste disposal facility siting requirements for adequate investigation (*OAC* 3745-27-06[C][3]), hydrogeologic and geotechnical field investigation activities have been completed. Much information on the geology and groundwater characteristics of PORTS is available from previous investigations at PORTS. The recent efforts, combined with the historical investigation data, provide information that is used to identify and characterize the geology and hydrogeology sufficiently to allow Ohio EPA to determine the suitability of the site for solid waste disposal along with compliance with ARARs. Table 2.5 provides a crosswalk of the requirements for a hydrogeologic investigation report pursuant to *OAC* 3745-27-06(C)(3) and appropriate sections of this RI/FS report.

Table 2.5. Crosswalk between Requirements of *OAC* 3745-27-06(C)(3) and this RI/FS Report

Requirement (*OAC* 3745-27-06)	Content	RI/FS Report Section that Corresponds to the Requirement
	Suitability of the Site for Solid Waste Disposal	
(C)(3)(a)(i)	Identification and characterization of the hydrogeology of the uppermost aquifer system and all stratigraphic units that exist above the uppermost aquifer system	Section 2.2.2.1; Appendix D
(C)(3)(a)(ii)	Characterization of the geology and hydrogeology	Section 2.2.2.1; Appendix D
	Description of the Regional Geology and Hydrogeology	
(C)(3)(b)(i)	Identification and average yield of the regional aquifer system	Section 2.2.2.1; Appendix D
(C)(3)(b)(ii)	Direction of groundwater flow in the regional aquifer system	Section 3.6; Appendix D
(C)(3)(b)(iii)	Identification of recharge and discharge areas of the regional aquifer system	Section 3.6
(C)(3)(b)(iv)	Regional stratigraphic or structural features, such as the bedrock surface, bedrock dip, or joint systems	Section 3.4
(C)(3)(b)(v)	Regional geomorphology, including the location of surface water bodies, flood plains, etc.	Section 3.1; Section 3.3
	Description and Analysis of the Site Geology and Hydrogeology	
(C)(3)(d)(i)(a)(i)	Textural classification using the USCS	Appendix B; Appendix C (Table C.1)
(C)(3)(d)(i)(a)(ii)	Rock type(s)	Section 2.2.2.1; Appendix B; Appendix D
(C)(3)(d)(i)(a)(iii)	Color; moisture content; stratigraphic features such as layering, interbedding, or weathering; fracturing, jointing, and other types of secondary porosity	Section 2.2.2.1; Appendix B
(C)(3)(d)(i)(a)(iv)	Hydraulic conductivity	Section 2.2.2.1; Section 2.2.2.2; Appendix C
(C)(3)(d)(i)(b)	Thickness of stratigraphic units	Section 2.2.2.1; Appendix D
(C)(3)(d)(i)(c)	Lateral extent of stratigraphic units	Section 2.2.2.1; Appendix D
(C)(3)(d)(i)(d)	Depth and elevation of stratigraphic units	Section 2.2.2.1; Appendix D

Table 2.5. Crosswalk between Requirements of *OAC* 3745-27-06(C)(3) and this RI/FS Report (Continued)

Requirement (*OAC* 3745-27-06)	Content	RI/FS Report Section that Corresponds to the Requirement
Description and Analysis of the Site Geology and Hydrogeology (continued)		
(C)(3)(d)(i)(e)	Variations in texture, saturation, stratigraphy, structure, or mineralogy exhibited by each stratigraphic unit that could influence the groundwater flow or quality in the uppermost aquifer system or any overlying zones of saturation	Section 2.2.2.1; Appendix B; Appendix D
(C)(3)(d)(ii)	Description of the geomorphology	Section 3.1; Appendix D
(C)(3)(d)(iii)	Description of structural geology features	Section 3.4
(C)(3)(d)(iv)	Depth and extent of the uppermost aquifer system and all significant zones of saturation above the uppermost aquifer system	Section 2.2.2.1; Appendix D
(C)(3)(d)(iv)(a)	Temporal fluctuations in groundwater levels	Section 2.2.2.1; Appendix A (Table A.5)
(C)(3)(d)(iv)(b)	Interpretation of the groundwater flow system	Section 2.2.2.1; Appendix D
(C)(3)(d)(iv)(c)	Recharge and discharge areas within the boundaries of the proposed sanitary landfill facility	Section 2.2.2.1; Appendix D
(C)(3)(d)(iv)(d)	Yield of any significant zones of saturation and of the uppermost aquifer system	Section 2.2.2.1; Appendix C
Description and Quantification of the Groundwater Quality		
(C)(3)(e)	Groundwater quality of the uppermost aquifer system and all significant zones of saturation above the uppermost aquifer system	Section 2.2.2.1; Appendix A (Table A.3, Table A.7, Table A.8)
Subsurface Investigation Information		
(C)(3)(f)(ii)	Information collected for each stratigraphic unit (presented on logs)	Appendix B
(C)(3)(g)	Description of how the subsurface investigation was conducted	Section 2

OAC = Ohio Administrative Code
RI/FS = Remedial Investigation/Feasibility Study
USCS = Unified Soil Classification System

Specifically, the main targets of the recent field efforts are primarily related to data gaps at Study Area D as follows:

1. Top of competent bedrock determination

   This information is required per *OAC* 3745-27-06(C)(3)(d)(i)(d) to provide depth and elevation of the consolidated stratigraphic units. Installation of borings and piezometers is complete, and well logs have been evaluated. The depth to competent bedrock (Cuyahoga Formation) is discussed in this section and in Appendix D.

2. Sandstone layers at approximate elevation 720 ft above mean sea level (AMSL)

   This information is required per *OAC* 3745-27-06(C)(3)(d)(i)(a) – (e) to provide a description of these consolidated stratigraphic units encountered in the upper Cuyahoga Formation. Installation of borings and piezometers within and near the proposed footprint of a potential OSDC at Study Area D is complete, and well logs have been evaluated. The characteristics of these multiple, thin (less than 1.5 ft thick) sandstone layers are discussed in this section and in Appendix D.

3. Sandstone layer at approximate elevation 680 ft AMSL

   Establishing characteristics such as elevation, recharge, moisture content, fracturing, etc. of this sandstone layer within the upper Cuyahoga Formation is required per *OAC* 3745-27-06(C)(d)(i)(a) – (e) to provide a description and analysis of this unit. Installation of borings, piezometers, and test pits within the proposed footprint of a potential OSDC at Study Area D is complete, and well logs have been evaluated. The characteristics of this continuous, 2-ft-thick sandstone layer are discussed in this section and in Appendix D.

4. Saturated zone (occurring near piezometers WD-PZ09C and WD-PZ12C) in the southern portion of Study Area D

   This information is required per *OAC* 3745-27-06(C)(3)(d)(iv)(a) – (d) to provide a description of this significant zone of saturation, including groundwater yield. Packer tests have been completed at WD-PZ09C and WD-PZ12C to isolate the permeable saturated zones and determine groundwater yield. Additionally, the borings were advanced an additional 5 ft and monitored for depth to groundwater. A description of this saturated zone is provided in this section and in Appendix D.

5. Saturated zone (occurring near piezometer WD-PZ14C) in the northern portion of Study Area D

   This information is required per *OAC* 3745-27-06(C)(3)(d)(iv)(a) – (d) to provide a description of this significant zone of saturation, including groundwater yield. Additional borings have been drilled (WD-SB-53 and WD-SB-57) and left open as piezometers (WD-PZ17C and WD-PZ16C) for monitoring depth to groundwater. A description of this saturated zone is presented in this section and in Appendix D.

Remaining data from all borings, piezometers, monitoring wells, and test pits that were to address the above targeted information gaps are presented in this waste disposition RI/FS report. Information presented herein provides sufficient characterization of the geology and hydrogeology in order to comply with *OAC* 3745-27-06(C)(3)(a) – (g) as noted in Table 2.4.

Investigation activities used standard industry practices consistent with Ohio EPA procedures and protocols in the *Technical Guidance Manual for Hydrogeologic Investigations and Ground Water Monitoring (TGM)* (Ohio EPA 2011).

2.2.2.1 Hydrogeologic investigation

The overall hydrogeologic conditions and groundwater flow at PORTS are reasonably well understood. However, for some of the RI/FS study areas located on the periphery of the DOE property, particularly Study Areas C and D, additional information to verify depth to groundwater and collection of samples for permeability testing were needed.

Prior to installation of piezometers or monitoring wells, soil borings were advanced to collect samples for lithologic logging and/or laboratory analyses. Drilling methods included the use of hollow-stem auger, mud-rotary, and air-rotary methods. Subsurface soil/rock samples were collected from borings in accordance with the Geotechnical SAP. Split-spoon and Shelby tube samples were collected at regular intervals throughout the depth of the unconsolidated material. Once bedrock was reached, rock coring was used continuously until the bottom depth of the boring was reached. The rock core was visually examined for evidence of fracturing and weathering (to distinguish between natural fractures and mechanical breaks from drilling/coring).

Depth to groundwater needed to be determined at Study Areas A, C, and D (depth-to-groundwater data are sufficient at Study Area B, which has 15 monitoring wells within its boundary). Twenty-seven piezometers and seven monitoring wells were installed in the three study areas (Figure 2.8 and Table 2.6). Appendix B contains the boring and monitoring well logs.

Using a hollow-stem auger rig, three piezometers were installed within the unconsolidated Minford/Gallia members in Study Area A. These piezometers were screened at the contact of the Minford or Gallia members with the underlying bedrock.

Seven monitoring wells were installed for long-term monitoring in the Berea sandstone. Two of these monitoring wells were installed along the eastern DOE property boundary near Study Area C, and five were installed in Study Area D.

Groundwater level measurements were collected as part of the RI to provide hydraulic data to support the physical setting of the location and for developing models for calculating modeled WAC for a potential OSDC. Beginning in June 2011, water levels were periodically measured in the RI/FS wells and selected pre-existing wells. These data are primarily used to determine the direction of groundwater flow and depth of the water table surface in the various hydrogeologic units. All groundwater elevation data for the monitoring wells and piezometers installed to support this RI/FS are reported in Appendix A. Hydrographs for the monitoring wells and piezometers installed for this project also are provided in Appendix A.

Hydrogeologic Investigation Specific to Study Areas A and C

Four soil borings at Study Area C were completed as piezometers within the Cuyahoga Formation and Sunbury shale to determine if the shale formations were saturated and, if so, to collect information on depth to groundwater within the shale. The Cuyahoga/Sunbury piezometers within Study Area C were completed with a 5-ft screen ranging from an approximate elevation of 620 to 630 ft AMSL. In addition to these piezometers, which were drilled with mud-rotary methods, temporary piezometers (drilled dry with air-rotary methods) were placed adjacent to Cuyahoga/Sunbury piezometers WD-PZ04C, WD-PZ06C, and WD-PZ07C at Study Area C. This was done to verify that no water-bearing fractures had been encountered in the shale (which may have not been noticed using mud-rotary methods).

The Cuyahoga/Sunbury piezometers (as well as the temporary air-rotary-drilled borings) at Study Area C sometimes have too little water to allow a water level measurement. Only piezometers WD-PZ04C and WD-PZ05C show significant water level fluctuations with 22.3 ft and 6.2 ft, respectively. The large fluctuations in water levels in WD-PZ04C suggest this piezometer may be in hydraulic connection with a fracture/joint that is also in connection with the regolith zone. Piezometers WD-PZ06C and WD-PZ07C, on the other hand, exhibit water level fluctuations of only 1.1 ft and 0.5 ft respectively. The three air-rotary borings adjacent to WD-PZ04C, WD-PZ06C, and WD-PZ07C never had sufficient water to allow a depth-to-water measurement.

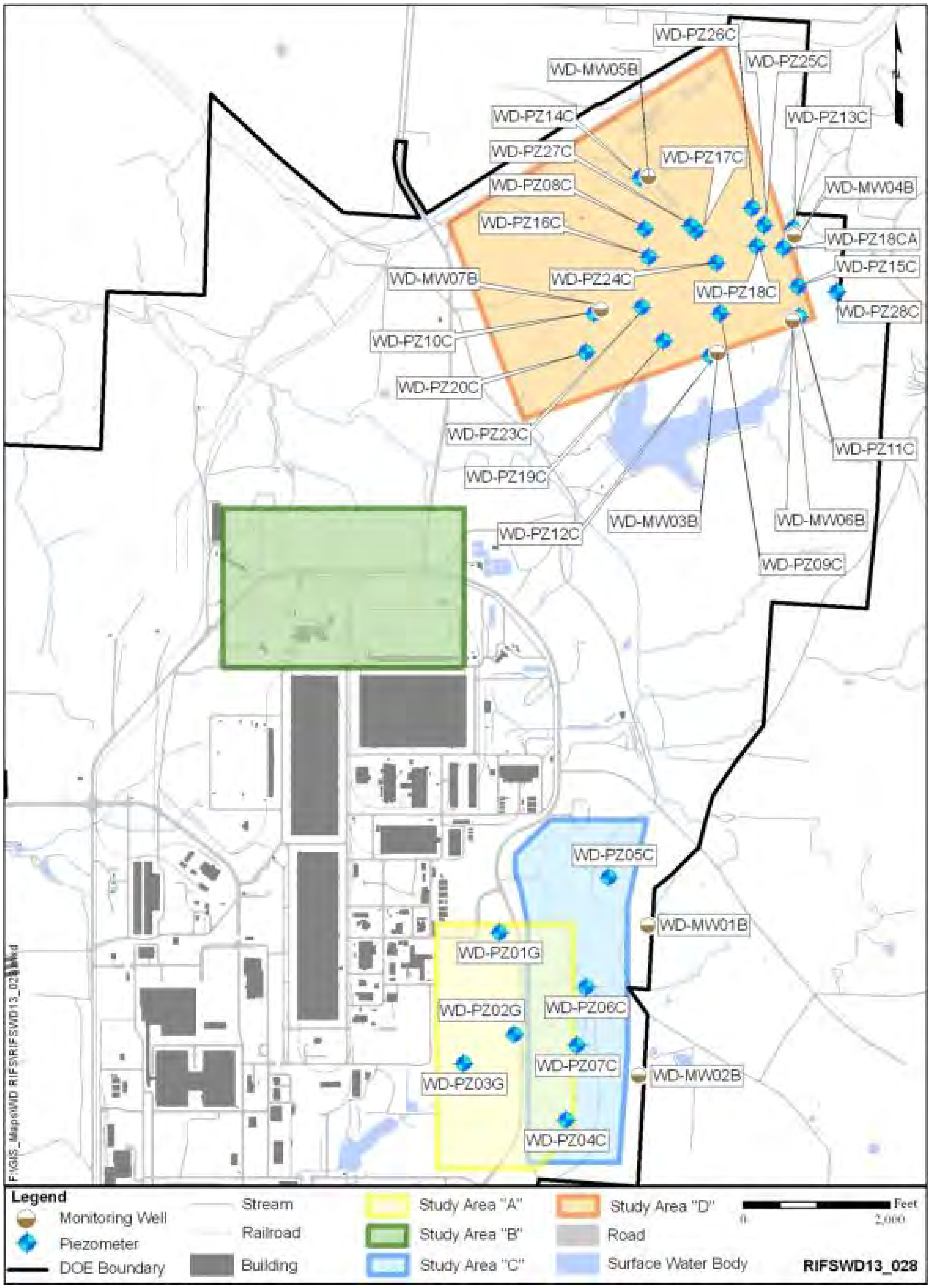


Figure 2.8. Piezometer and Monitoring Well Locations at PORTS

Table 2.6. Piezometer/Monitoring Well Locations and Monitoring Zones at PORTS

Study Area	Piezometer/Monitoring Well ID	Corresponding Soil Boring ID	Zone Monitored	Depth (ft)
A	WD-PZ01G	WD-SB-01	Gallia	50
A	WD-PZ02G	WD-SB-05	Gallia	54
A	WD-PZ03G	WD-SB-02	Gallia	26
A/C	WD-PZ04C	WD-SB-10	Cuyahoga/Sunbury	130
C	WD-PZ05C	WD-SB-13	Cuyahoga/Sunbury	67
C	WD-PZ06C	WD-SB-14	Cuyahoga/Sunbury	126
C	WD-PZ07C	WD-SB-15	Cuyahoga/Sunbury	130
D	WD-PZ08C	WD-SB-34	Cuyahoga	58
D	WD-PZ09C	WD-SB-36	Cuyahoga	88
D	WD-PZ10C	WD-SB-35	Cuyahoga	48
D	WD-PZ11C	WD-SB-33	Cuyahoga	74.2
D	WD-PZ12C	WD-MW03B	Cuyahoga	85.3
D	WD-PZ13C	WD-MW04B	Cuyahoga	38
D	WD-PZ14C	WD-MW05B	Cuyahoga	48
D	WD-PZ15C	WD-SB-67	Cuyahoga	74.1
D	WD-PZ16C	WD-SB-57	Cuyahoga	41
D	WD-PZ17C	WD-SB-53	Cuyahoga	61
D	WD-PZ18C	WD-SB-37	Cuyahoga	95
D	WD-PZ18CA	WD-SB-37	Cuyahoga	42
D	WD-PZ19C	WD-SB-44	Cuyahoga	35.3
D	WD-PZ20C	WD-SB-65	Cuyahoga	79.4
D	WD-PZ23C	WD-SB-42	Cuyahoga	83.9
D	WD-PZ24C	WD-SB-46	Cuyahoga	85
D	WD-PZ25C	WD-SB-47	Cuyahoga	63
D	WD-PZ26C	WD-SB-48	Cuyahoga	87.5
D	WD-PZ27C	WD-SB-53	Cuyahoga	66.1
D	WD-PZ28C	WD-SB-72	Cuyahoga	111
C	WD-MW01B	WD-MW01B	Berea	132
C	WD-MW02B	WD-MW02B	Berea	166
D	WD-MW03B	WD-MW03B	Berea	144
D	WD-MW04B	WD-MW04B	Berea	98
D	WD-MW05B	WD-MW05B	Berea	80
D	WD-MW06B	WD-SB-33	Berea	140
D	WD-MW07B	WD-SB-35	Berea	NA

ID = identification
NA = not applicable

Using a hollow-stem auger rig, three piezometers were installed within the unconsolidated Minford/Gallia members in Study Area A, which overlaps with the western portion of Study Area C. These piezometers were screened at the contact of the Minford or Gallia members with the underlying bedrock. Water level fluctuations in the three Gallia piezometers are shown in Figure 2.9. The Gallia represents the uppermost aquifer system over most of Study Area A.

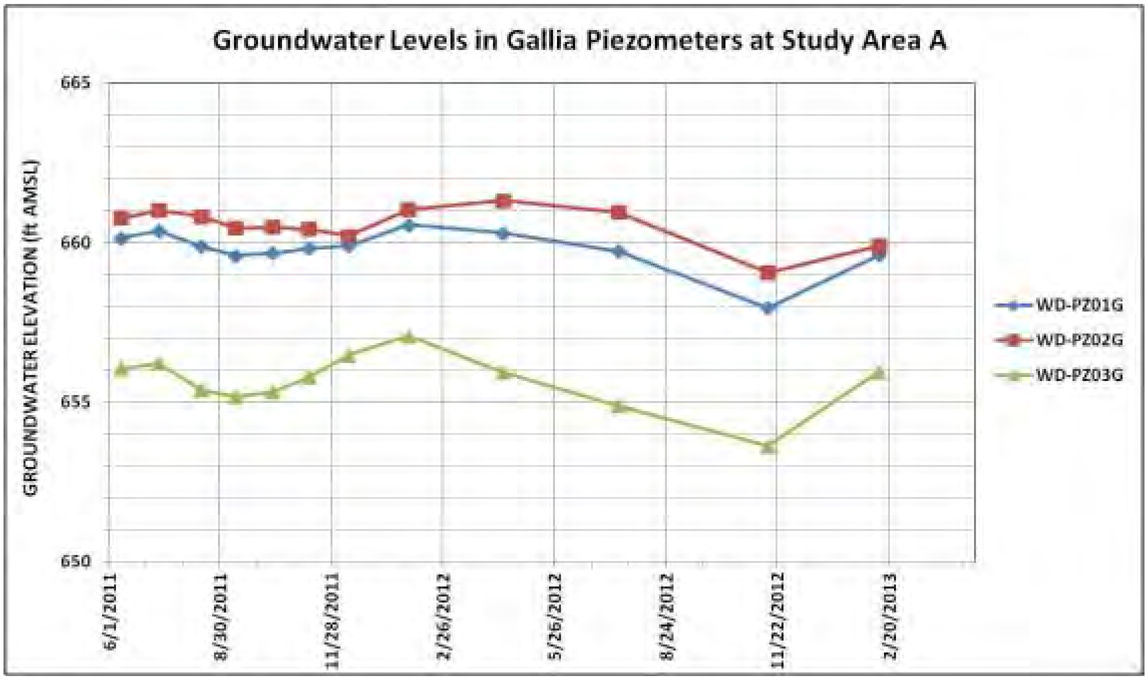


Figure 2.9. Hydrograph for the Gallia at Study Area A

The Berea sandstone, the uppermost aquifer system beneath Study Area C, is a regional confined aquifer with a potentiometric surface approximately 20 to 25 ft above the top of the aquifer. Figure 2.10 shows a comparison of groundwater levels measured in the Cuyahoga to those measured in the Berea sandstone at Study Area C. The Berea exhibits very little seasonal fluctuation. The potentiometric level of the Berea sandstone is also typically higher than the measured water levels in the Cuyahoga piezometers at Study Area C, indicating an upward hydraulic gradient. However, on two occasions, the water level in at least one Cuyahoga piezometer was higher than the potentiometric surface of the Berea, suggesting temporary downward gradients.

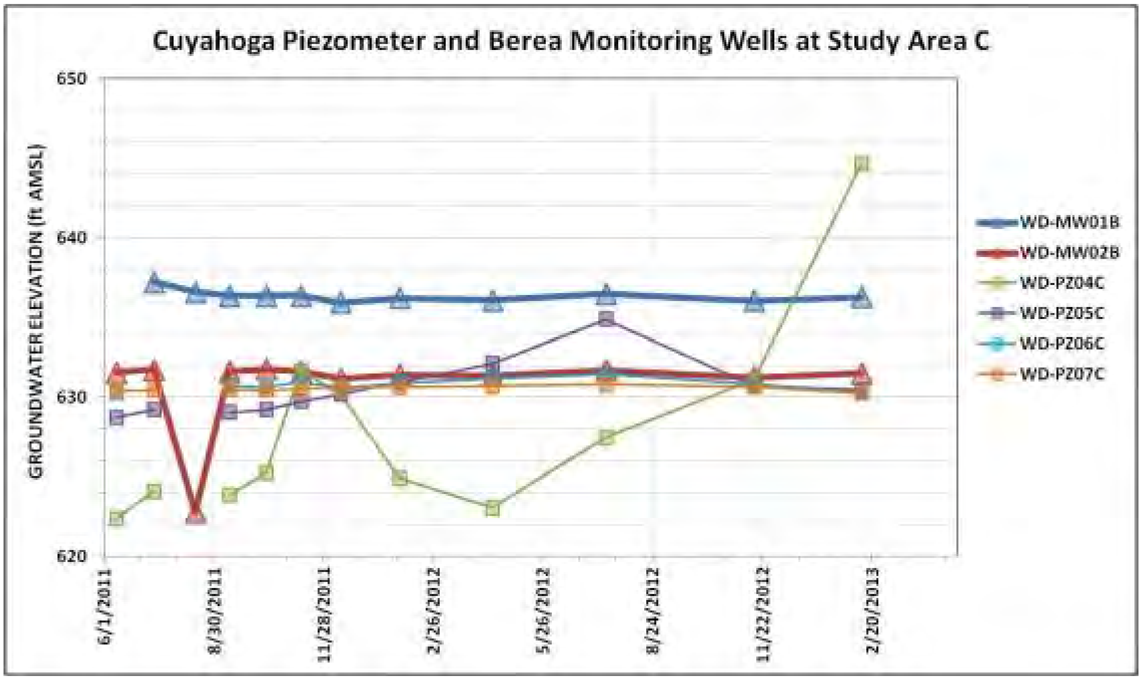


Figure 2.10. Hydrograph comparing Cuyahoga and Berea Water Elevations at Study Area C

Hydrogeologic Investigation Specific to Study Area B
The hydrogeology of Study Area B, which has 15 monitoring wells located within the study area boundary, is well understood. The X-344 and X-533 complexes, which cover most of Study Area B, were investigated during the Quadrant IV RFI conducted in 1992-1993 (Phase I) and 1994 (Phase II) (DOE 1996d). Several shallow and deep soil borings were installed at each complex for the collection of soil samples. In addition, several shallow borings were installed following D&D of the X-533 complex. In Study Area B, groundwater is monitored at the X-344C Former Hydrogen Fluoride Storage Building and the X-533 Former Switchyard Complex routinely as part of the Integrated Groundwater Monitoring Program. No additional hydrogeologic investigation was conducted as part of this waste disposition project.

Hydrogeologic Investigation Specific to Study Area D
Twenty piezometers were completed within the Cuyahoga Formation at Study Area D to determine if the shale and interbedded sandstone units were saturated and, if so, to collect information on depth to groundwater within the Cuyahoga. The Cuyahoga piezometers installed at Study Area D were initially completed with an open borehole completion because drilling at Study Area C determined the Cuyahoga to be competent enough to support an open borehole construction. Most of the piezometers were later converted to standard cased piezometers with 10-ft screens.

The saturated zones occur either : (1) where a 2-ft-thick sandstone layer and a 0.5-ft-thick sandstone layer (at an approximate elevation of 680 ft AMSL) is saturated; (2) where several thin, interbedded sandstones occur near an elevation of 720 ft AMSL; or (3) where fractures/joints contain groundwater.

Using air rotary drilling methods (dry drilling), several bedrock piezometers were initially installed at Study Area D. At Study Area D, a 2-ft-thick sandstone layer was recognized in several borings at an elevation of approximately 680 ft AMSL within the Cuyahoga Formation. This layer can be combined with another 0.4-ft-thick sandstone layer which occurs approximately 2 ft beneath the thicker layer. These two sandstone layers and the intervening 2-ft shale interval are referred to as the "680-ft sandstone zone." This sandstone zone is continuous across Study Area D except where it has been removed by erosion to the west and north. The 680-ft sandstone in the Cuyahoga Formation occurs approximately 55 to 60 ft above the Berea sandstone which represents the uppermost aquifer system in this area. Figure 2.11 shows the structure of the 680-ft sandstone zone and indicates it follows the regional dip to the east-southeast.

Figures 2.12 through 2.18 show the water level response following drilling at seven of the bedrock piezometers. The upper sandstone layer in the 680-ft sandstone zone is shown on these figures. These figures depict the water levels while the piezometers were open hole borings plus the water levels after being screened across the 680-ft sandstone zone. Also depicted on these figures is the approximate depth of weathering, based on a coloration change in the rock core. WD-PZ08C and WD-PZ10C, which were drilled approximately to the depth of the 2-ft-thick sandstone layer, were initially dry, or had insufficient water for measurement. WD-PZ08C was dry until it was drilled to a depth approximately 10 ft below the 680-ft sandstone. This saturation may be from bedding plane partings associated with the lower 0.5-ft-thick sandstone layer in the 680-ft sandstone zone.

The water level in WD-PZ12C was approximately 720 ft AMSL until the boring was extended through the 680-ft sandstone. After being extended, the groundwater level stabilized at approximately 684 ft AMSL. The initial water level, at an approximate elevation of 720 ft AMSL, appears to be related to thin, mostly discontinuous sandstone layers in the upper Cuyahoga Formation. This upper zone of interbedded sandstones is referred to as the "720-ft sandstone lens zone." The thickness of the individual significant sandstone lenses in this zone range from 0.3 ft to 1.5 ft with an average of 0.5 ft. Several borings intersected multiple sandstone layers in this zone. The individual sandstone layers that comprise the 720-ft sandstone facies are difficult to correlate from boring to boring and do not appear to be continuous across Study Area D. Saturated conditions within the 720-ft sandstone facies appear to be limited or localized. Appendix D provides additional discussion on the hydrogeology of Study Area D.

At piezometer WD-PZ14C, on the northern side of the hill in Study Area D, the water level is at an elevation of approximately 670 ft AMSL. This elevation is below the occurrence of the 680-ft sandstone zone described above. This area appears to be a localized saturated zone within the Cuyahoga shale that is not continuous to the south in areas of higher topography as observed in WD-PZ16C and WD-PZ17C. A review of historical aerial photographs shows that WD-PZ14C is located within the area of a backfilled pond that was associated with the activities in a former borrow area. This piezometer has an open-borehole design with the surface casing set in the top of competent bedrock.

Hydraulic testing was performed in several of the Cuyahoga piezometers in Study Area D to determine yield of the piezometers and hydraulic conductivity of the 680-ft sandstone layer, and to investigate the connectivity of the saturated zones in the Cuyahoga Formation with the deeper Berea sandstone.

The degree of hydraulic interconnectedness between the Berea and Cuyahoga Formations was investigated by pumping the Berea Formation and monitoring the response, or absence of response, in the Cuyahoga Formation. Tests were conducted in each of the four Berea wells (WD-MW03B, WD-MW04B, WD-MW05B, and WD-MW06B) while water levels were monitored in the Cuyahoga piezometer paired with the Berea well.

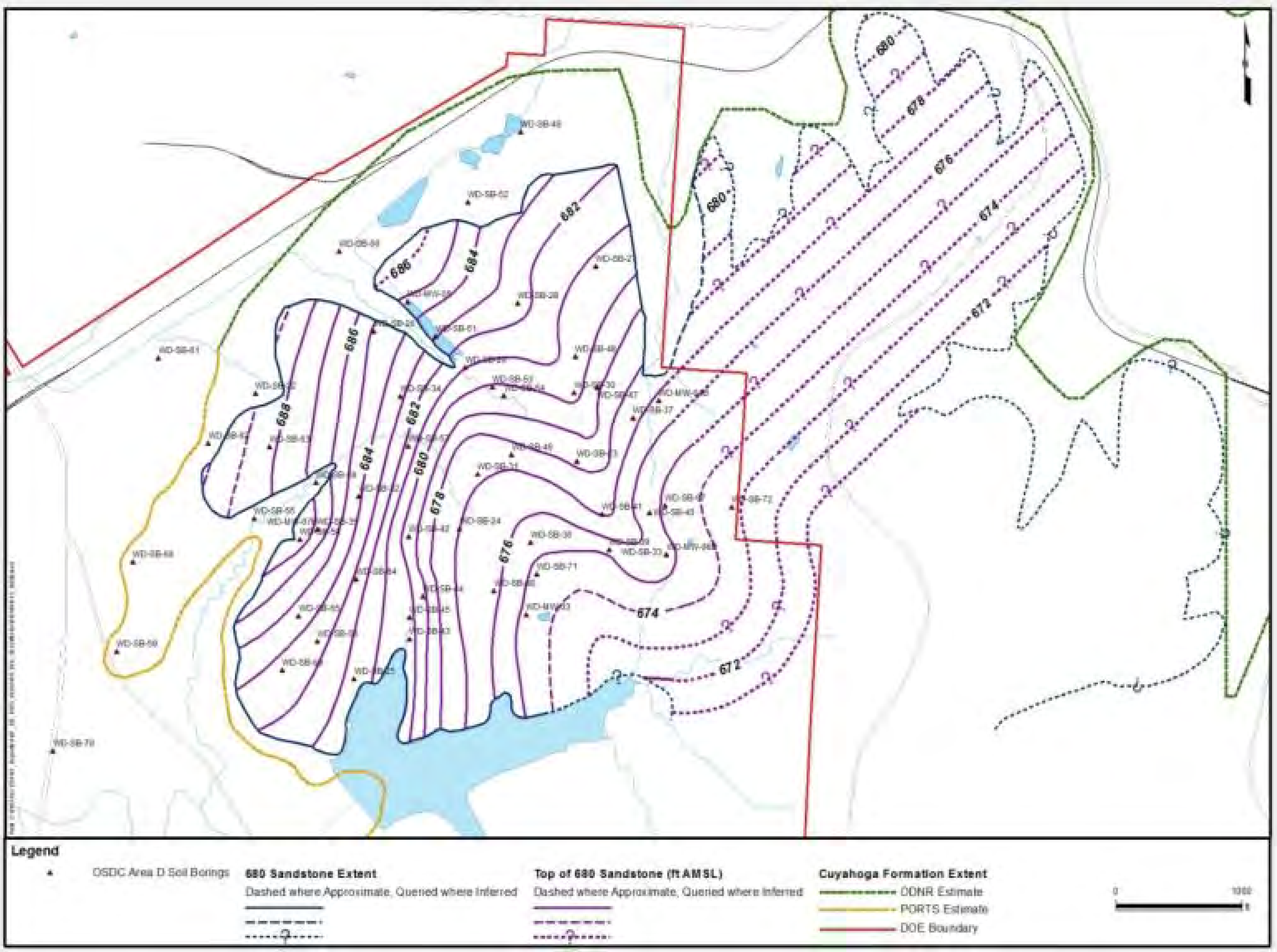


Figure 2.11. Elevation of the Top of the 680-ft Sandstone at Study Area D

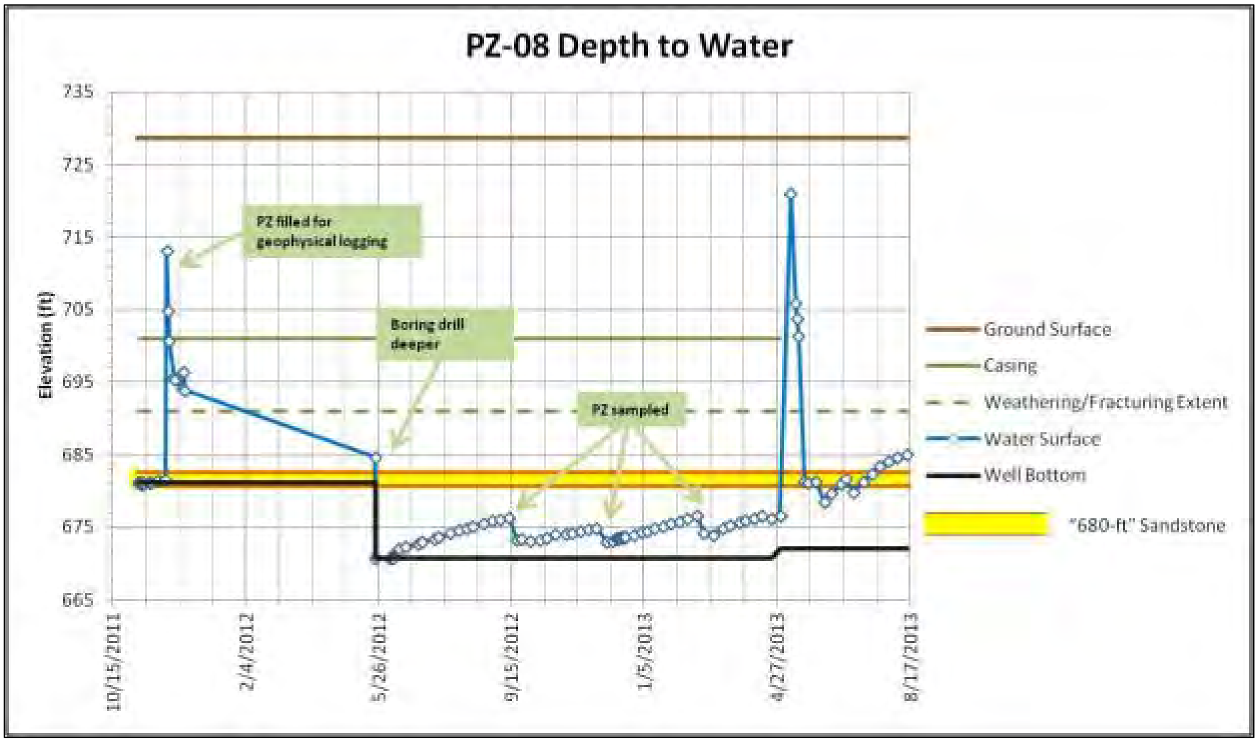


Figure 2.12. Water Level following Installation of WD-PZ08C at PORTS

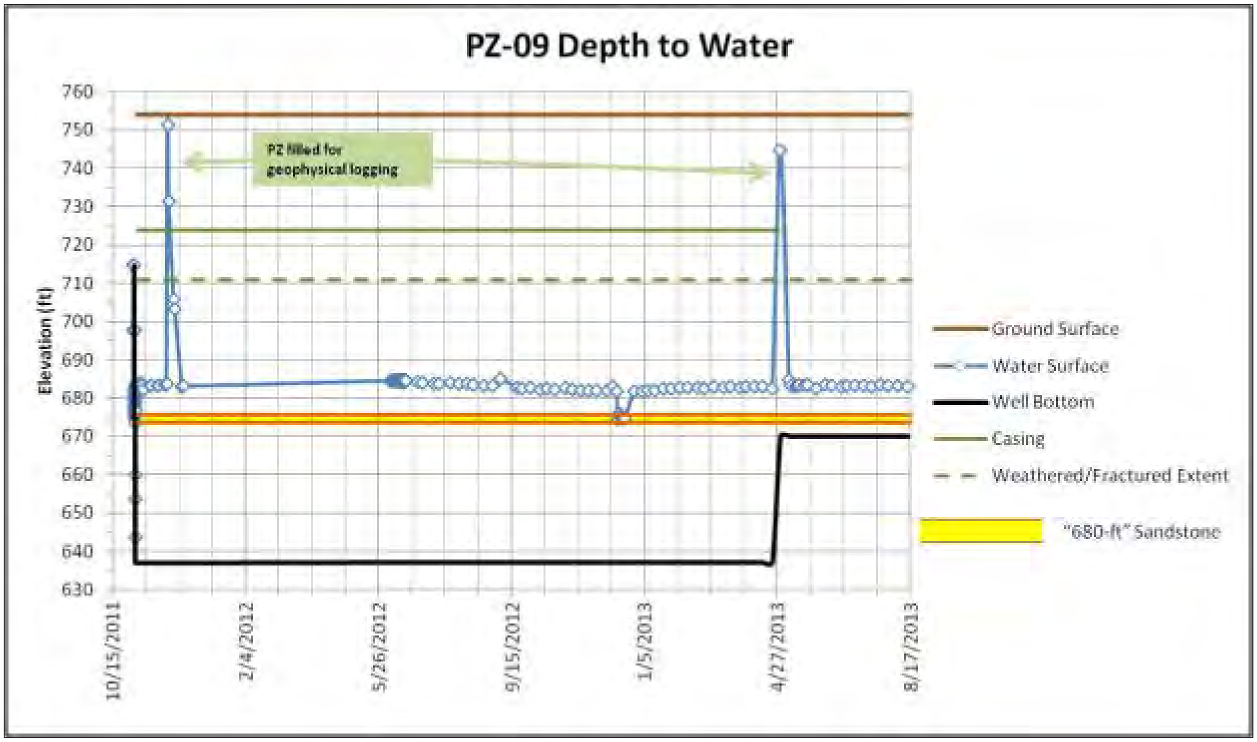


Figure 2.13. Water Level following Installation of WD-PZ09C at PORTS

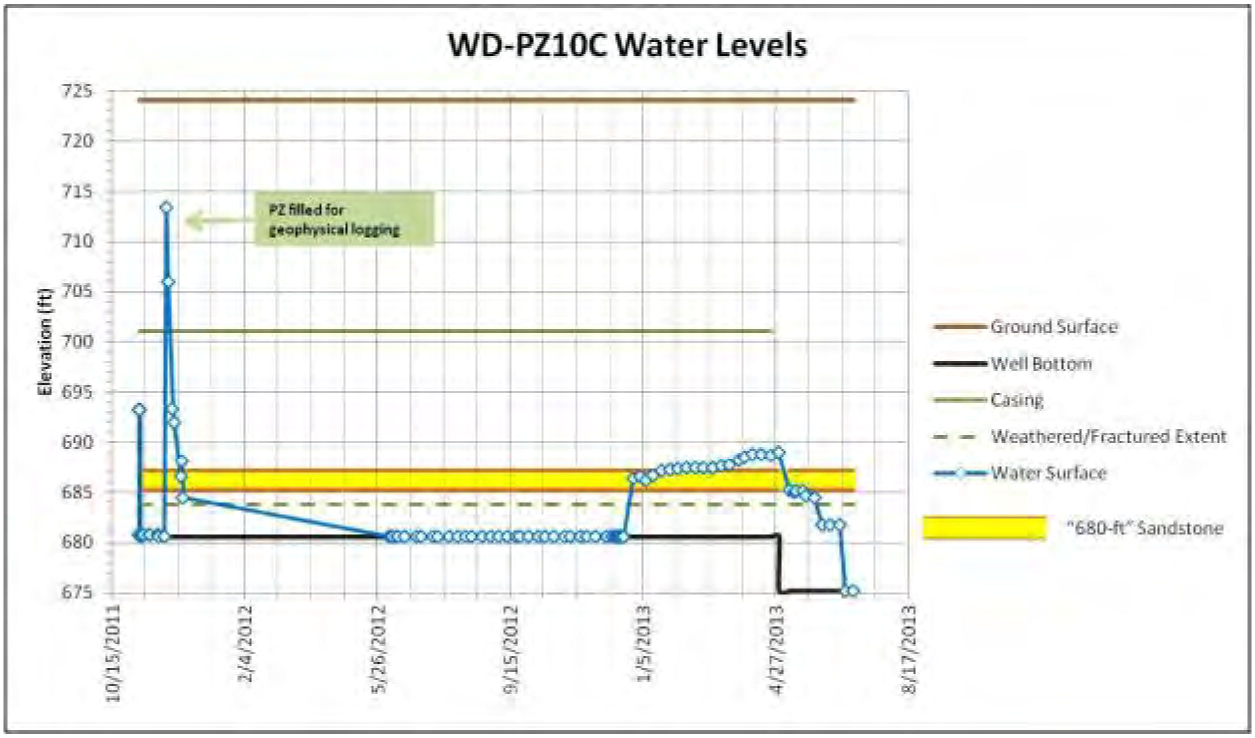


Figure 2.14. Water Level following Installation of WD-PZ10C at PORTS

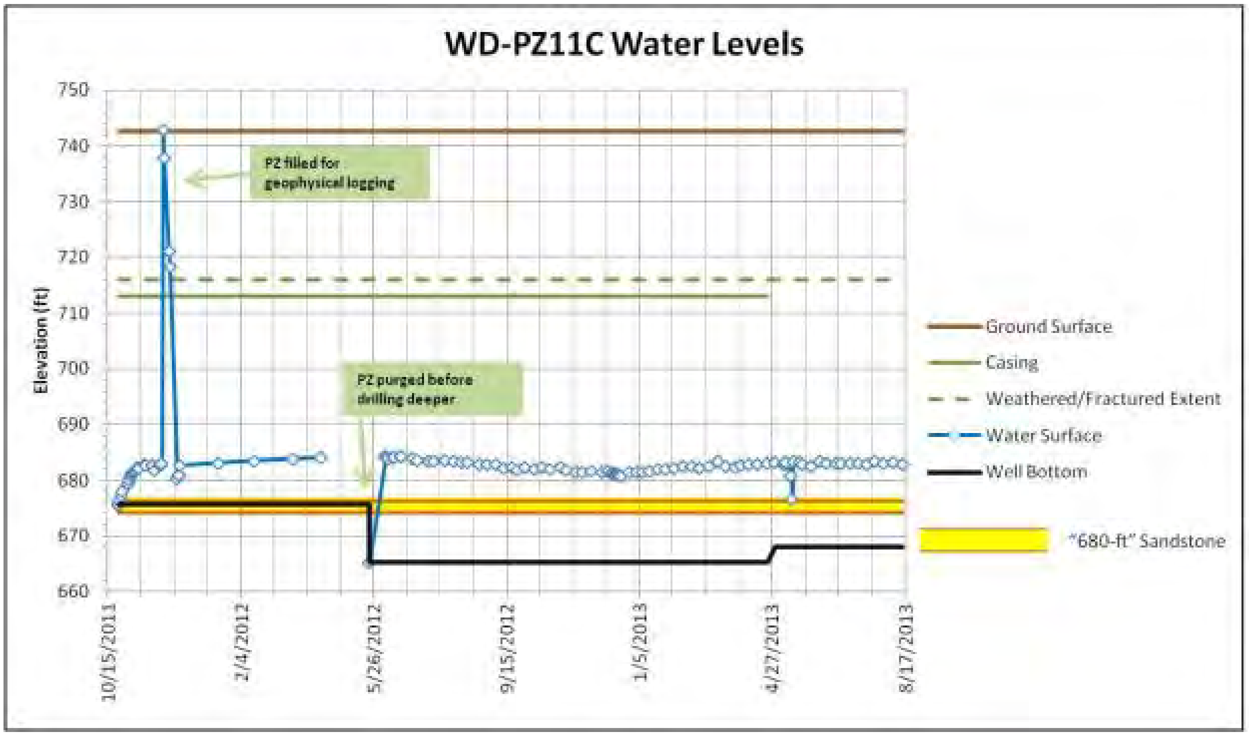


Figure 2.15. Water Level following Installation of WD-PZ11C at PORTS

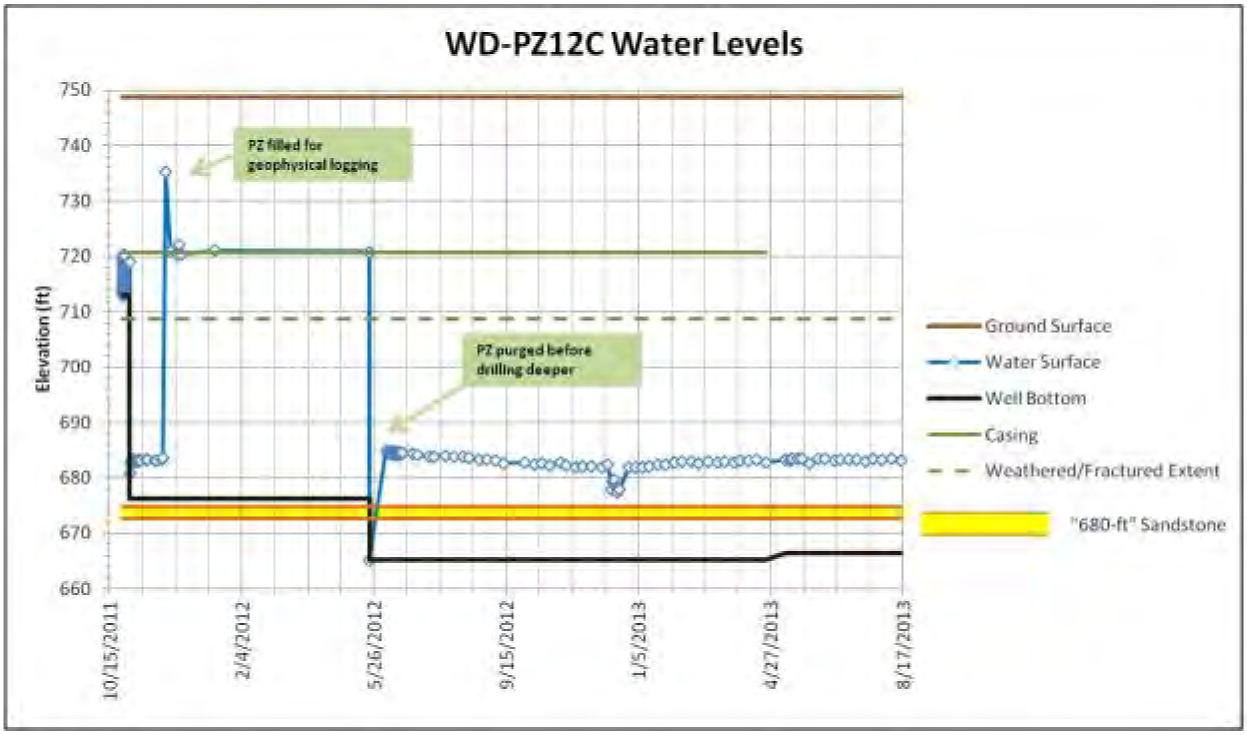


Figure 2.16. Water Level following Installation of WD-PZ12C at PORTS

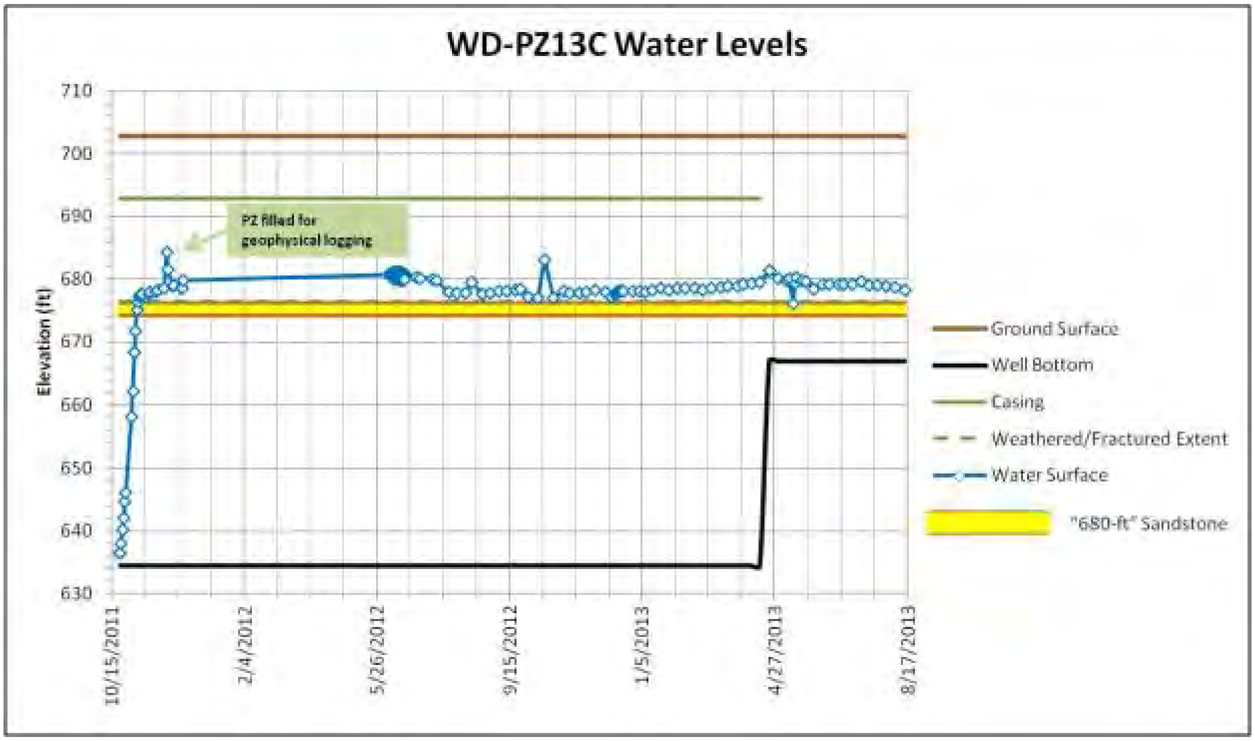


Figure 2.17. Water Level following Installation of WD-PZ13C at PORTS

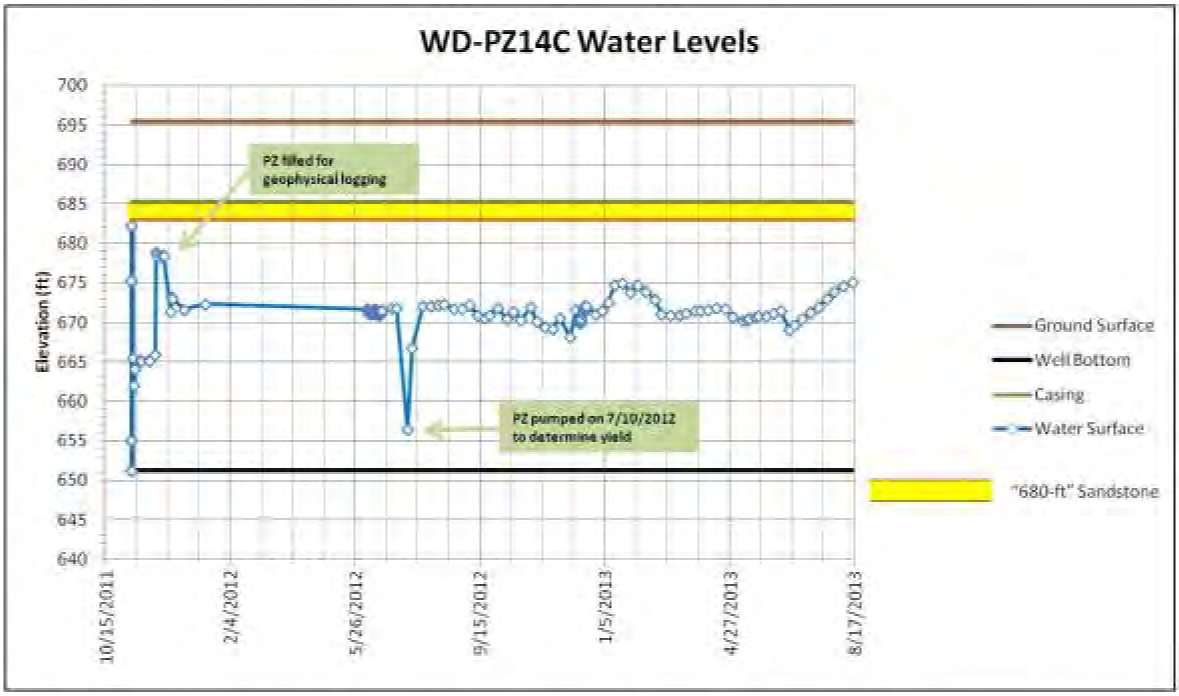


Figure 2.18. Water Level following Installation of WD-PZ14C at PORTS

Each test was started by pumping the Berea well at 0.1 gpm. If the Berea well yield was sufficient (i.e., > 0.1 gpm), the test progressed by selecting additional pumping rates of increasing magnitude. If the Berea well yield was insufficient (i.e., <0.1 gpm), the Berea well was pumped dry and water level recovery was recorded. Recovery data were recorded as feet of recovery per time. The values were then converted into volume per time to characterize the yield of the well.

To determine the hydraulic properties for the Cuyahoga Formation, testing consisted of yield tests and long-term constant rate tests. Where present, water levels were monitored in nearby Cuyahoga piezometers and/or bedrock borings (open boreholes) to provide additional data for the hydraulic property evaluation.

Yield tests were initiated at the following six piezometers by placing a pump approximately 2 ft above the borehole bottom and pumping the entire borehole (without the use of packers):

- Pumped WD-PZ11C and monitored WD MW06B
- Pumped WD-PZ13C and monitored WW MW04B
- Pumped WD-PZ14C and monitored WD MW05B
- Pumped WD-PZ15C and monitored SB67
- Pumped WD-PZ16C and monitored SB57
- Pumped WD-PZ17C and monitored SB53, SB54.

Each open borehole piezometer test started with an initial pumping rate of 0.1 gpm and was intended to progress by selecting three additional pumping rates of increasing magnitude. Pumping rates progressed only if the Cuyahoga piezometer could sustain a 0.1 gpm discharge rate with stable drawdown over 1 hour. The flow rate at each subsequent pumping rate was selected based on the drawdown measured during the previous pumping step. The goal was to determine if the piezometer should receive subsequent testing of isolated zones. The nearby Berea well was monitored during testing of WD-PZ11C, WD-PZ13C, and WD-PZ14C to detect any evidence of hydraulic communication between the Cuyahoga and Berea Formations. In the case of WD-PZ15C, WD-PZ16C, and WD-PZ17C, the nearby Cuyahoga borings SB67, SB57, and SB53/SB54 were monitored in the expectation of detecting a hydraulic response that would provide an additional method for estimating a value for hydraulic conductivity for the Cuyahoga Formation.

Testing of isolated zones within the Cuyahoga piezometers was initiated at open boreholes that could sustain a 0.1 gpm discharge rate with stable drawdown over 1 hour. A pneumatic packer assembly was configured so the target zone could be isolated. The selected pumping zones were:

- WD-PZ09C: 679 to 671 ft AMSL (2-ft sandstone layer)
- WD-PZ09C: 671 to 636 ft AMSL (possible saturated zone below 2-ft sandstone layer)
- WD-PZ12C: 749 to 709 ft AMSL (saturated zone above 2-ft sandstone layer)
- WD-PZ12C: 710 to 679 ft AMSL (possible saturated zone above 2-ft sandstone layer)
- WD-PZ12C: 712 to 681 ft AMSL (possible saturated zone above 2-ft sandstone layer)
- WD-PZ12C: 678 to 663 ft AMSL (2-ft sandstone layer).

Each test started with an initial pumping rate of 0.1 gpm and was intended to progress by selecting three additional rates of increasing magnitude. Pumping rates progressed only if the isolated zone could sustain a 0.1 gpm discharge rate with stable drawdown over 1 hour. Each subsequent pumping rate was selected based on the drawdown measured during the previous pumping step. The goal was to have the third pumping rate match the maximum pumping rate sustainable during a long-term, constant rate test. If a steady-state flow rate of 0.1 gpm could not be maintained, the zone was pumped dry and the recovery of the well was recorded. These data were recorded as feet of recovery per time. The values were converted into volume per time to characterize the yield of the well.

A long-term constant rate test was planned for each isolated zone that could sustain a 0.1 gpm discharge rate with stable drawdown. The goal was to collect data allowing an estimate of the hydraulic transmissivity and storativity within the Cuyahoga Formation. The selected pumping zones were the 680-ft sandstone layer in WD-PZ09C and WD-PZ12C. Each test was terminated after 48 hours. A technical memorandum of the hydraulic testing is provided in Appendix C.

Only two piezometers yielded greater than 0.1 gpm. WD-PZ09C and WD-PZ12C yielded 0.6 gpm and 1.2 gpm, respectively, while yields at WD-PZ11C, WD-PZ13C, WD-PZ14C, WD-PZ15C, WD-PZ16C, and WD-PZ17C were four orders of magnitude less (ranging from 0.0007 gpm to 0.05 gpm). WD-PZ09C and WD-PZ12C also exhibited high barometric efficiency (approximately 90 percent), which suggests the tested zone is confined to a high degree (barometric efficiency is related to the magnitude of water level response due to changes in barometric pressure). The hydraulic conductivity of the 680-ft sandstone layer, determined from preliminary evaluation of constant rate testing in WD-PZ09C and WD-PZ12C, was estimated to be in the range of 40 to 50 ft/day. This conductivity is higher than would be expected, based on literature values for fractured sandstone. The limited response to pumping observed in other nearby piezometers would also suggest a lower hydraulic conductivity. Hydraulic conductivity in piezometers WD-PZ15C, WD-PZ16C, and WD-PZ17C was estimated to be much lower, ranging from 0.001 to 0.004 ft/day, but this may have been related to formation damage (skin effect) during drilling and poor piezometer development due to little water being produced from the formation. These piezometers also exhibited lower barometric efficiencies. In addition, testing indicated no hydraulic communication between the Cuyahoga Formation and the Berea sandstone.

Eight bedrock cores were also collected (five from the Cuyahoga Formation, two from the Sunbury, and one from the Berea) at Study Area D for permeability (saturated vertical hydraulic conductivity) testing. Two of the Cuyahoga cores were from the 680-ft sandstone. Results are provided in Section 2.2.2.2.

At Study Area D, the water levels measured in the Cuyahoga piezometers are approximately 50 to 60 ft above the potentiometric level of the Berea at locations WD-MW04B and WD-MW06B and 80 ft higher at WD-MW03B. At WD-MW05B, the Cuyahoga water level in the adjacent piezometer (WD-PZ14C) is approximately 30 ft above the Berea potentiometric level.

Figures 2.19 and 2.20 show possible groundwater flow directions for the 680-ft sandstone unit. (Figure 2.19 shows current conditions, and Figure 2.20 shows potential future conditions after the water level in X-611B is lowered.) A typical potentiometric map is not provided because the water level and yield data suggest there may be limited hydraulic connection across the entire area. For the future condition shown in Figure 2.20, it is assumed the water level in X-611B is 660 ft AMSL or lower. Throughout the study period, the depth to the potentiometric surface as measured in the piezometers and monitoring wells was relatively consistent. The southern area near WD-PZ09C and WD-PZ12C appears to be influenced by interconnected fractures providing recharge and bedding plane partings and fractures within the 680-ft sandstone that allow greater transmissivity. During the wetter times of the year, recharge occurs where the 680-ft sandstone is closer to the surface and stress-relief fractures provide a pathway for water in the regolith to recharge the upper bedrock. This is most evident near WD-PZ16C which often has the highest water levels in the 680-ft sandstone. WD-PZ16C lies in a valley with the sandstone subcropping beneath the regolith just below ground surface. The hydraulic gradient in the center of the area is very small and WD-PZ23C is slow to stabilize. Groundwater moves towards areas of lower hydraulic head along valleys where the sandstone outcrops and also towards the east-southeast (in a structurally down-dip direction).

There is a localized area of saturation associated with the 720-ft sandstone lenses in the vicinity of WD-SB-40 and WD-PZ15C. The sandstone lenses receive recharge where they outcrop, or subcrop beneath the regolith (within the stream valley that WD-PZ15C is located within), or where fractures occur. The groundwater then moves laterally along the sandstone lens (or along bedding plane partings) and may re-emerge along the hillside in an ephemeral seep. None of the other open-hole piezometers had a groundwater elevation that coincided with the 720-ft sandstone zone.

Borehole geophysical tools were used in selected soil borings at Study Area D to investigate the possible existence of fractures in the bedrock. An acoustic televiewer log was used because of its capability to provide an image similar to that of a video camera, and to provide azimuth and dip information for fractures and bedding structures. An optical televiewer was also used on several borings. The acoustic televiewer log is an oriented, high-resolution image of the borehole. This image is created using high-frequency acoustic sound waves. The data from this tool, used in conjunction with other geophysical tools described below, provided the location and orientation information for features such as fractures and lithologic contacts. Because the acoustic televiewer tool must be run in a water-filled boring to be effective, water was introduced into the boreholes prior to logging.

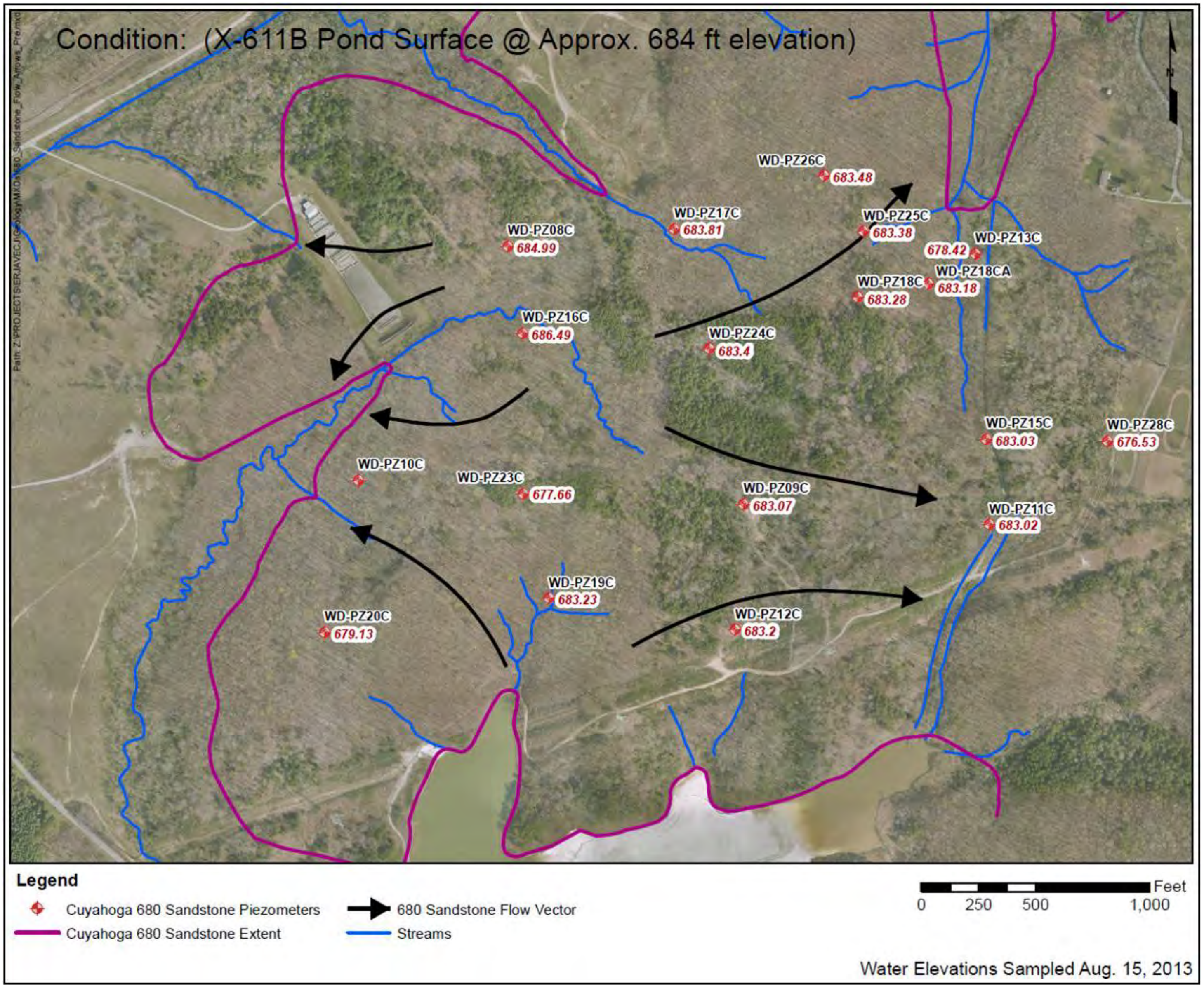


Figure 2.19. Groundwater Flow in the 680-ft Sandstone Under Current Conditions

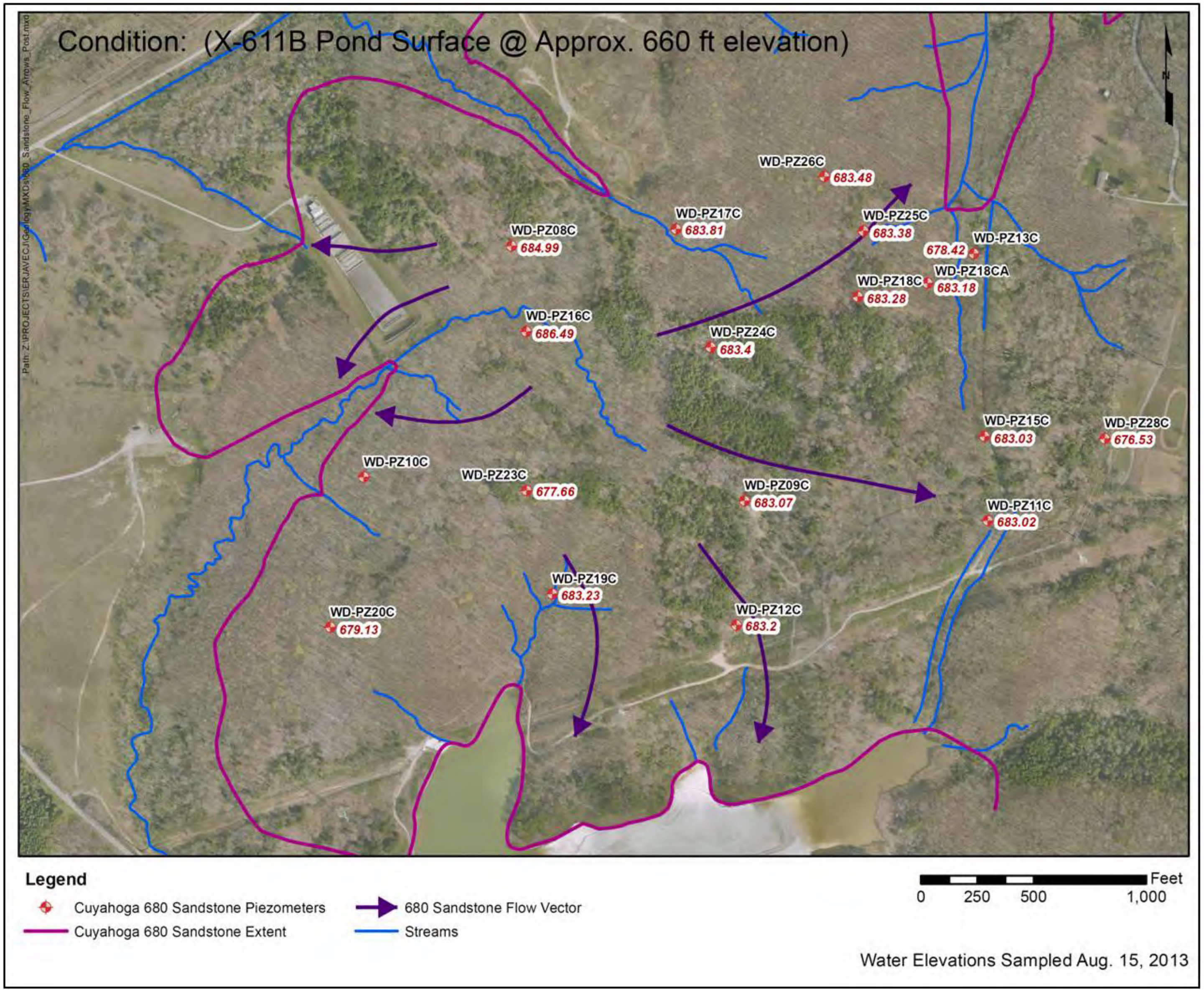


Figure 2.20. Groundwater Flow in the 680-ft Sandstone Under Future Conditions

A suite of geophysical logs was collected in each piezometer in Study Area D, including caliper, natural gamma, single-point resistance, normal and lateral resistivity, and the digital acoustic televiewer. Variations in the resistance, resistivity, and natural gamma logs, in conjunction with the caliper and acoustic televiewer log responses, allow the identification of lithologic changes and geologic features in the bedrock. Bedding plane fractures were noted at the top of the 680-ft sandstone in WD-PZ08C and WD-PZ13C, and a vertical fracture in the 680-ft sandstone was observed in WD-PZ09C and WD-PZ12C. The fractures in the 680-ft sandstone did not appear to extend into the shale above or below the sandstone. Other fractures, mostly bedding plane partings, were noted within the weathered bedrock zone (particularly in WD-SB-40). When WD-SB-40 was filled with water for the acoustic televiewer logging, the bedding plane fractures in the weathered zone (upper 26 ft) appeared to allow the water to drain relatively quickly. As discussed above, WD-SB-40 appears to be located in an area where the 720-ft sandstone lens zone is locally saturated. The geophysical logging reports are provided as attachments in Appendix B.

Groundwater Chemistry

The objective of groundwater sampling for this project was to characterize the general groundwater chemistry and determine the presence of any contaminants at the four study areas. Approximately 15 existing monitoring wells are currently sampled around Study Area B, and they provide sufficient characterization for that area. Results from those wells are reported in an annual groundwater report. The discussion that follows pertains to the newly installed piezometers and monitoring wells at Study Areas A, C, and D. These piezometers and monitoring wells are sampled quarterly. Following the waste disposition ROD, the piezometers and monitoring wells will be placed into the PORTS integrated groundwater monitoring program and evaluated for long-term monitoring or be plugged and abandoned as determined necessary.

Prior to sampling, the piezometers and monitoring wells are purged to remove any water that is not representative of the groundwater. Purging of the wells is accomplished using bladder pumps, impeller pumps, or bailers, depending on the yield of the well. The purge water is containerized and treated in an existing groundwater treatment facility.

Samples for VOC analysis are collected in such a way that no headspace exists in the sample containers, which minimizes the possible loss of organic compounds through volatilization. Groundwater samples that are to be analyzed for dissolved metals or total mobile metals are filtered to remove any residual particulate material that could alter the preserved metals content in the sample. Unfiltered samples are also collected to provide the total metals results for the groundwater.

Because many chemical constituents and physicochemical parameters evaluated in the sampling and analysis program are not chemically stable, sample preservation is required. The most prevalent sample preservation methods used at PORTS are pH control and the maintenance of sample temperature at 4°C plus or minus 2°C. The pH of samples is reduced to less than 2 by the addition of acid to the sample containers or increased to a pH greater than 12 by adding a base. (Filtered samples are filtered in the field prior to acidification.) Samples are preserved as required by the analytical laboratory and the analytical method specified in the Geotechnical SAP. QA/QC samples, including trip blanks, equipment rinsates, field blanks, and field duplicates, are collected during groundwater sampling activities.

Table 2.7 provides the major ion geochemistry of the groundwater in the piezometers and monitoring wells installed in Study Areas A, C, and D. Figure 2.21 shows the major ions plotted on a trilinear diagram. The three Gallia sand piezometers plot in a close grouping, with sulfate being the dominant anion (comprising 70 to 80 percent of the anions). There is no dominant cation in the groundwater in these Gallia piezometers but calcium and magnesium combined make up more than 80 percent of the cations. Five of the seven Berea monitoring wells have different hydrochemical signatures. All the Berea monitoring wells, with the exception of WD-MW05B and WD-MW07B, have a sodium chloride-type water that may indicate influence from natural brines similar to those associated with hydrocarbon reservoirs. WD-MW05B indicates no dominant cations or anions. WD-MW05B is located near the area where the Berea is recharged and the groundwater in that area may reflect a mixture of Gallia and Berea groundwater. WD-MW07B shows a signature intermediate between WD-MW05B and the remaining Berea monitoring wells. Figure 2.22 provides Stiff diagrams of the Berea monitoring wells in Study Area D and reflects the lower concentrations of sodium and chloride in WD-MW05B and WD-MW07B.

Table 2.7. Major Ion Geochemistry of Groundwater in Study Areas A, C, and D at PORTS

Piezometer/ Monitoring Well ID	Study Area	Zone Monitored	Cations (meq/L)			Anions (meq/L)		
			Na+K	Ca	Mg	CO_3+HCO_3	Cl	SO_4
WD-MW-01B	C	Berea	18.8	0.9	1.4	6.7	13.8	0.2
WD-MW-02B	C	Berea	19.8	1.6	1.2	7.0	14.3	0.1
WD-MW-03B	D	Berea	18.4	1.0	0.6	6.3	12.7	0.3
WD-MW-04B	D	Berea	19.4	1.3	0.7	6.6	15.1	0.3
WD-MW-05B	D	Berea	6.4	3.2	2.7	5.2	4.0	2.4
WD-MW-06B	D	Berea	21.4	1.0	0.7	6.7	15.0	0.4
WD-MW-07B	D	Berea	18.7	3.0	2.5	7.5	3.4	9.4
WD-PZ01G	A	Gallia	0.7	8.5	5.7	3.7	0.2	10.8
WD-PZ02G	A	Gallia	2.0	10.3	9.2	4.6	0.6	15.7
WD-PZ03G	A	Gallia	1.9	4.6	4.8	2.1	0.2	9.3
WD-PZ04C	A/C	Cuyahoga	10.2	1.4	0.8	8.7	1.0	1.9
WD-PZ08C	D	Cuyahoga	8.6	8.4	42.4	12.5	1.5	43.3
WD-PZ09C	D	Cuyahoga	13.3	7.0	10.6	8.4	0.7	20.5
WD-PZ11C	D	Cuyahoga	21.3	9.1	12.1	9.5	0.8	31.5
WD-PZ12C	D	Cuyahoga	8.1	9.4	43.1	17.5	0.8	38.7
WD-PZ13C	D	Cuyahoga	16.7	13.9	54.4	14.0	1.3	69.7
WD-PZ14C	D	Cuyahoga	13.3	19.9	66.7	4.6	2.2	96.9
WD-PZ15C	D	Cuyahoga	22.1	22.2	82.3	13.6	2.3	117.3
WD-PZ16C	D	Cuyahoga	5.0	4.9	22.4	8.2	0.8	20.4
WD-PZ17C	D	Cuyahoga	10.8	13.0	37.6	9.1	1.5	48.6
WD-PZ18C	D	Cuyahoga	32.9	19.6	91.9	26.8	1.6	121.4
WD-PZ18CA	D	Cuyahoga	19.7	23.2	77.3	17.2	1.7	96.8
WD-PZ19C	D	Cuyahoga	11.6	13.3	63.1	18.6	1.3	61.8

Note: Values represent the average of samples collected from July 2011 through February 2013.

ID = identification

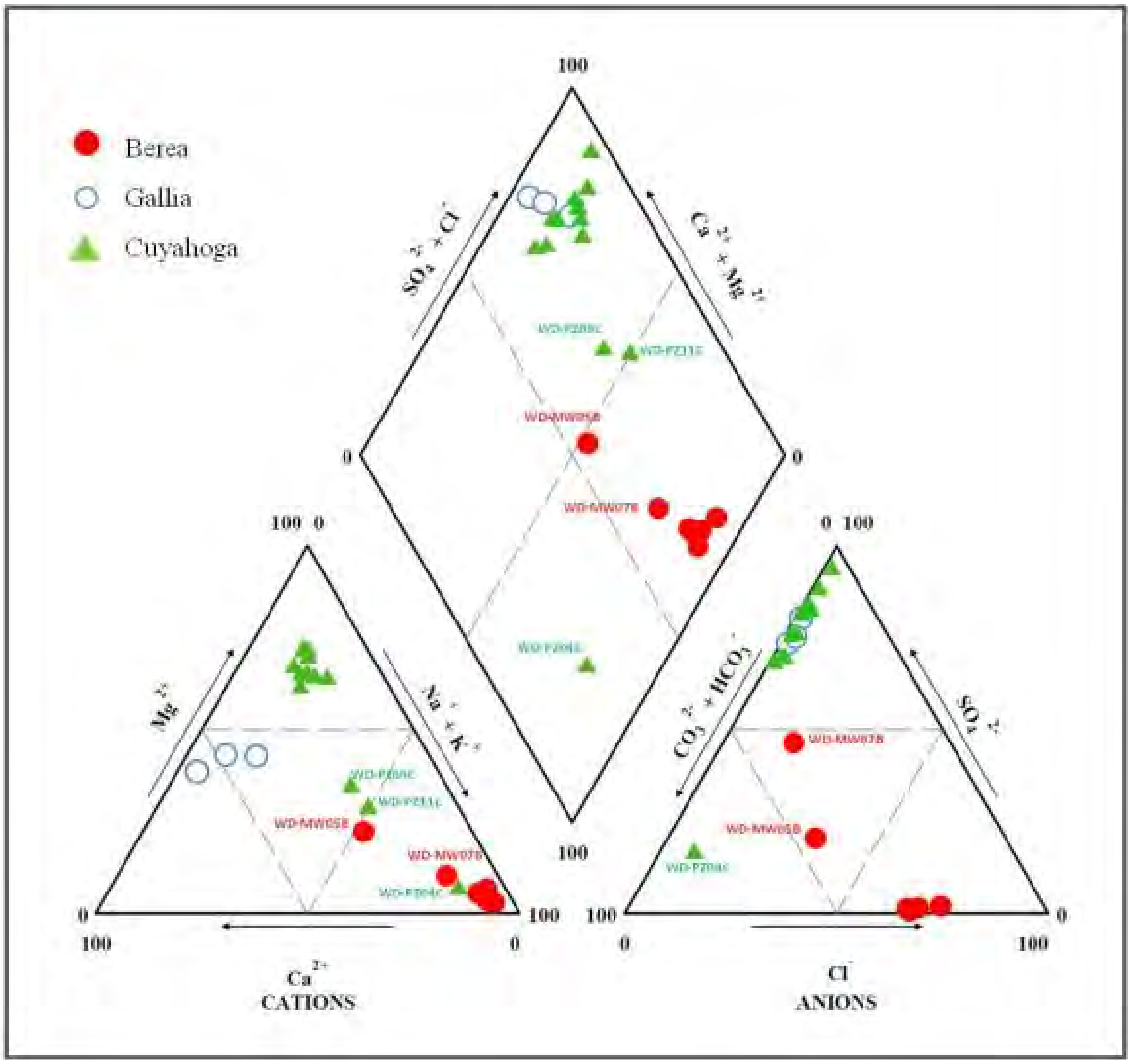


Figure 2.21. Major Ion Composition of Groundwater in Study Areas A, C, and D at PORTS

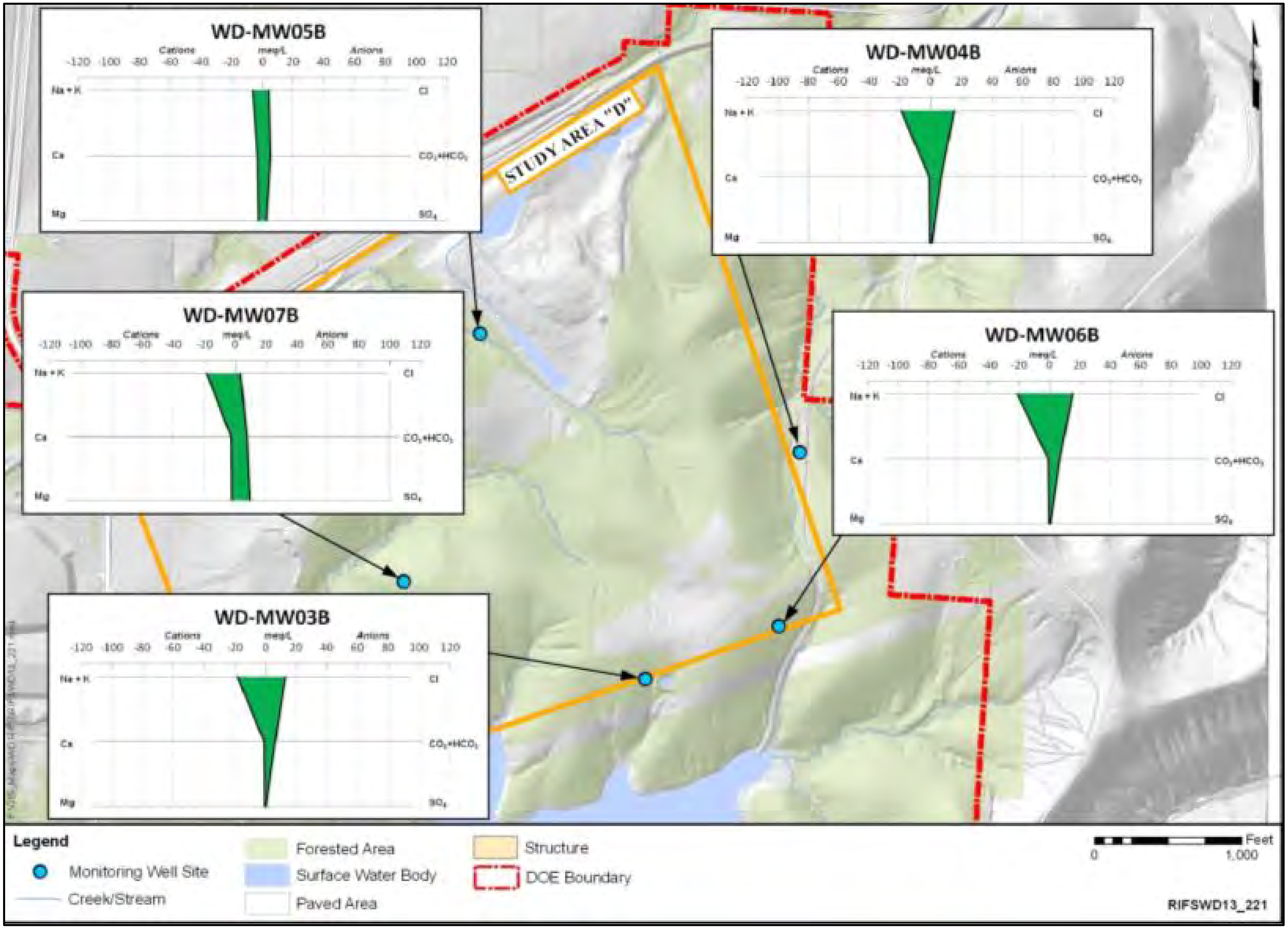


Figure 2.22. Stiff Diagrams for Berea Monitoring Wells in Study Area D

Twelve of the Cuyahoga piezometers, all located at Study Area D, have sulfate as the dominant anion. WD-PZ04C, located at Study Area C, has bicarbonate as the dominant anion. The cation composition in the Cuyahoga groundwater was variable with no consistently dominant cations (magnesium was more prevalent in ten of the Cuyahoga piezometers at Study Area D). Two Cuyahoga piezometers at Study Area D, WD-PZ09C and WD-PZ11C, display a different cation signature with magnesium comprising less than 35 percent of the cations. Magnesium in the remaining Cuyahoga piezometers at Study Area D is typically greater than 65 percent. Figures 2.23 and 2.24 show Stiff diagrams for the Cuyahoga piezometers at Study Area D. The different "pattern" for the Stiff diagrams in WD-PZ09C and WD-PZ11C, resulting from lower magnesium and sulfate, is evident on the trilinear diagram (Figure 2.21).

Total dissolved solids in the Cuyahoga piezometers at Study Area D ranged from approximately 1,530 to 10,800 mg/L with an average of 4,625 mg/L. The total dissolved solids, calculated by summing the individual major ions (calcium, magnesium, potassium, sodium, bicarbonate, carbonate, chloride, and sulfate) are provided in Appendix A, Table A.7. Sulfate is the dominant constituent in the Cuyahoga groundwater, comprising from 45 to 70 percent of the total dissolved solids. The total dissolved solids in the Cuyahoga Formation at Study Area C (WD-PZ04C) averaged 680 mg/L. Total dissolved solids in the Berea monitoring wells, excluding WD-MW05B and WD-MW07B, ranged from 1,100 mg/L to 1,700 mg/L with chloride comprising approximately 35 percent of the total dissolved solids. The drinking water standard (secondary maximum contaminant level [MCL]) for total dissolved solids and sulfate is 500 mg/L and 250 mg/L, respectively.

Groundwater results from the Gallia piezometers and Berea monitoring wells were compared to risk-based PRGs provided in the annual groundwater report (DOE 2011b). Only cobalt and copper in WD-PZ01G and WD-PZ02G exceeded the Gallia groundwater PRGs. Cobalt, which has a Gallia PRG of 0.013 mg/L, was detected at concentrations of 0.013 mg/L and 0.014 mg/L in WD-PZ01G and WD-PZ02G, respectively. Copper, with a Gallia PRG of 0.021 mg/L, was detected at concentrations of 0.023 mg/L and 0.026 mg/L in WD-PZ01G and WD-PZ02G, respectively. There were no detections of common PORTS contaminants such as TCE or technetium-99, with the exception of an estimated technetium-99 result of 1.82 pCi/L in WD-PZ02G.

Low concentrations of VOCs commonly associated with natural gas and petroleum (benzene, ethylbenzene, xylenes and/or toluene) were detected in all Berea monitoring wells at concentrations below risk-based PRGs. These compounds are routinely detected in Berea monitoring wells at PORTS as the Berea sandstone is a known oil- and gas-producing formation in Ohio with gas-production wells as close as eastern Pike County (DOE 1996e).

Conceptual Model for Groundwater Flow at PORTS

The groundwater flow system of the Minford and Gallia, as well as the Berea flow system, are well understood and documented in previous PORTS reports. The following discussion is specific to the upland areas around PORTS that are underlain by the Cuyahoga Formation.

The groundwater system in the upland areas around PORTS has two primary components: the shallow, weathered regolith and the deeper, unweathered bedrock. Groundwater occupies pore spaces in the shallow, weathered regolith. Because the bedrock has little primary porosity or permeability, groundwater occupies secondary porosity comprised of fractures/joints and bedding planes. The regolith, while thin, represents a temporary storage reservoir and is a source of recharge to the bedrock via fractures. In most areas, a transition zone between the regolith and bedrock, consisting of weathered bedrock, is present.

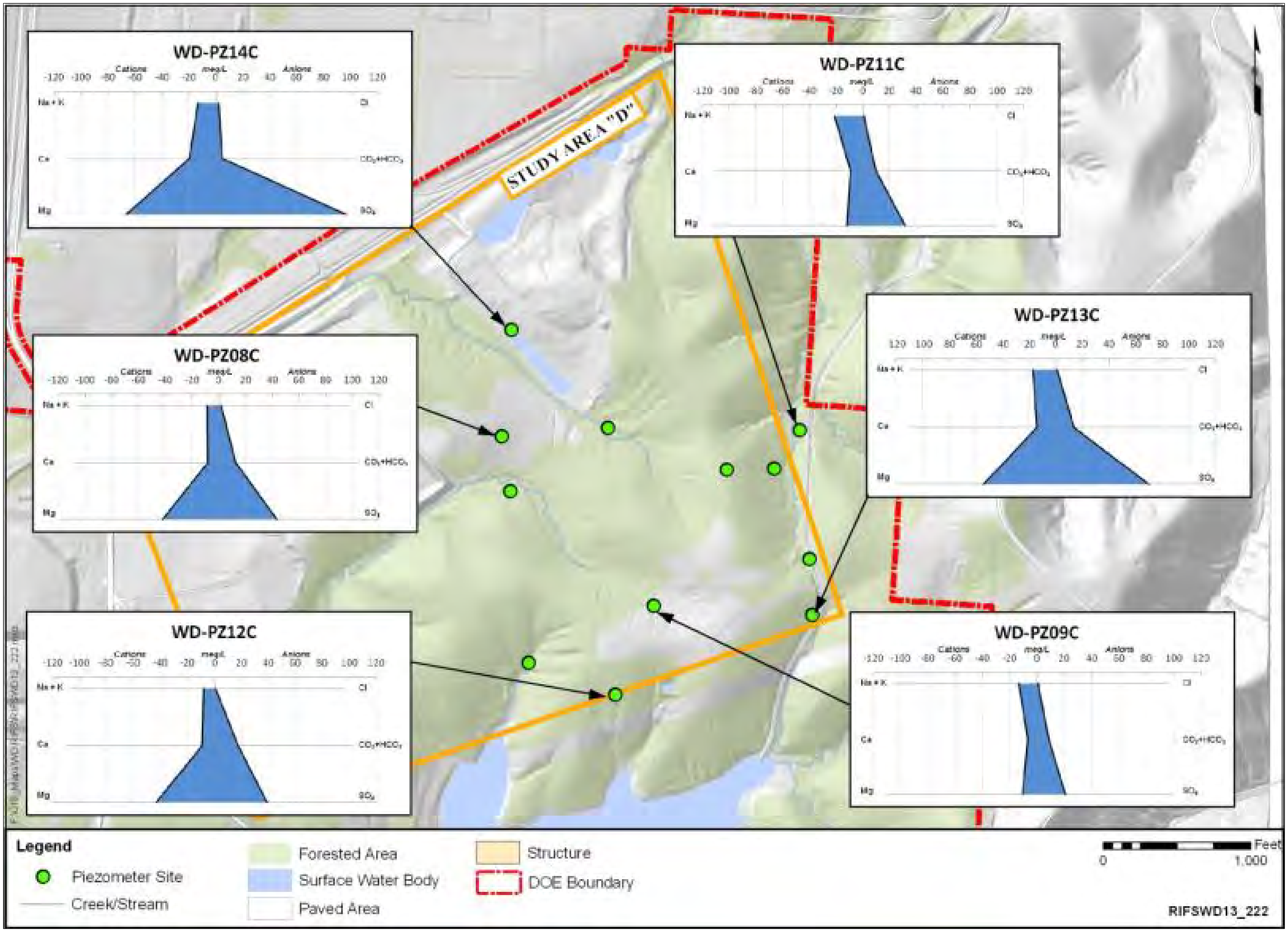


Figure 2.23. Stiff Diagrams for Piezometers WD-PZ08C, WD-PZ09C, WD-PZ11C, WD-PZ12C, WD-PZ13C, and WD-PZ14C

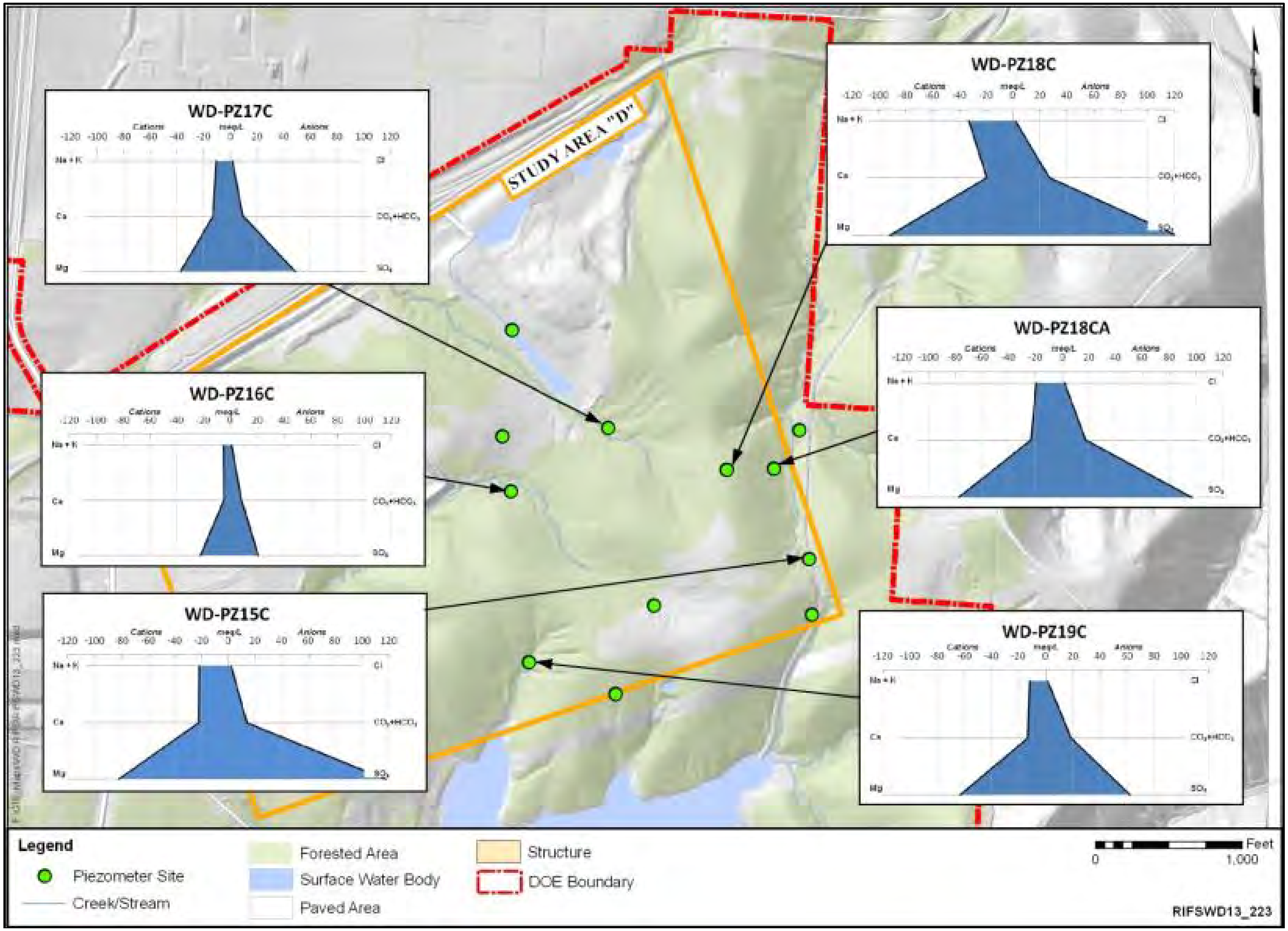


Figure 2.24. Stiff Diagrams for Piezometers WD-PZ15C, WD-PZ16C, WD-PZ17C, WD-PZ18C, WD-PZ18CA, and WD-PZ19C

The regolith is the shallow component of the upland groundwater system. The term “regolith,” as used in this report, includes all unconsolidated or poorly consolidated materials overlying bedrock in the upland areas from the top of competent bedrock upwards to the ground surface. Thus, the regolith includes soil, residuum, and colluvium. The regolith ranges from 2 ft to 20 ft thick and averages approximately 8 to 10 ft in borings at Study Areas C and D. The regolith generally is described as in-place weathered material lacking geologic structure. At PORTS, the regolith is typically light yellowish-brown to light gray clay and silt.

Partially weathered bedrock, likely fractured (due to stress-relief fracturing), characterizes the transition zone between the regolith and bedrock. Vertical fractures may be more common than observed in the cores or in borehole geophysical surveys. This zone is weathered, but not to the degree necessary to create substantial clay minerals. The weathering results in the bedrock within this zone having a color varying from yellowish-brown to light gray in contrast to the dark gray of the deeper, unweathered bedrock. The cores from the partially weathered bedrock of the transition zone retain most of the original geologic texture of the bedrock. The thickness of the weathered bedrock zone averages approximately 15 ft. The depth of weathering (regolith plus weathered bedrock) averages 20 to 25 ft.

A conceptual model of groundwater flow in the upland areas around PORTS assumes that water flows from high topographic areas to low topographic areas, particularly within the regolith. The movement of water in the regolith is characterized as interflow and/or throughflow (i.e., subsurface stormflow). Interflow is the lateral movement of water in the soil zone, where a more permeable geologic unit, such as the regolith, overlays a less permeable geologic unit. Interflow usually occurs following precipitation events. The infiltrated water moves laterally and then discharges on hillsides as ephemeral seeps (throughflow returning as wet weather conveyances) or directly into streams. (Throughflow is a subcomponent of interflow that returns to the surface, as overland flow, prior to entering a stream). While the influence of the water in the regolith on the local groundwater system was not directly determined, this conceptual model of interflow is supported by observation and understanding from other similar systems (note that if a disposal cell is constructed, this zone would be removed for installation of the bottom liner directly on top of competent bedrock). At Study Area C, the shallow water table in the regolith/weathered bedrock was approximately 14 ft below surface based on a historical dug well in that area. On hillsides and other areas where regolith is thin, it likely becomes unsaturated in late summer and early fall. Figure 2.25 presents a generic conceptual model for groundwater flow in the upland areas around PORTS (areas underlain by the Cuyahoga Formation).

In areas where fractures occur, or the bedrock (or weathered bedrock) is sandy and more permeable, some of the groundwater moves downward from the regolith to provide recharge to the deeper bedrock system (in test pits the more brittle sandstone layers were observed to have vertical fractures which did not extend into the overlying or underlying shale). Static surface water features, such as the X-611B Sludge Lagoon, may also provide recharge through contact with more permeable zones in the bedrock that outcrop below the water surface.

In the upland areas of PORTS, the Cuyahoga Formation contains several zones of thin sandstone layers. The upper sandstone zone is referred to as the 720-ft sandstone lens zone. The thickness of the individual sandstone lenses in the 720-ft sandstone lens zone average approximately 0.5 ft. While this “zone” is fairly continuous across Study Area D, the individual sandstone lenses that comprise this zone are difficult to correlate from boring to boring and do not appear to be continuous across Study Area D.

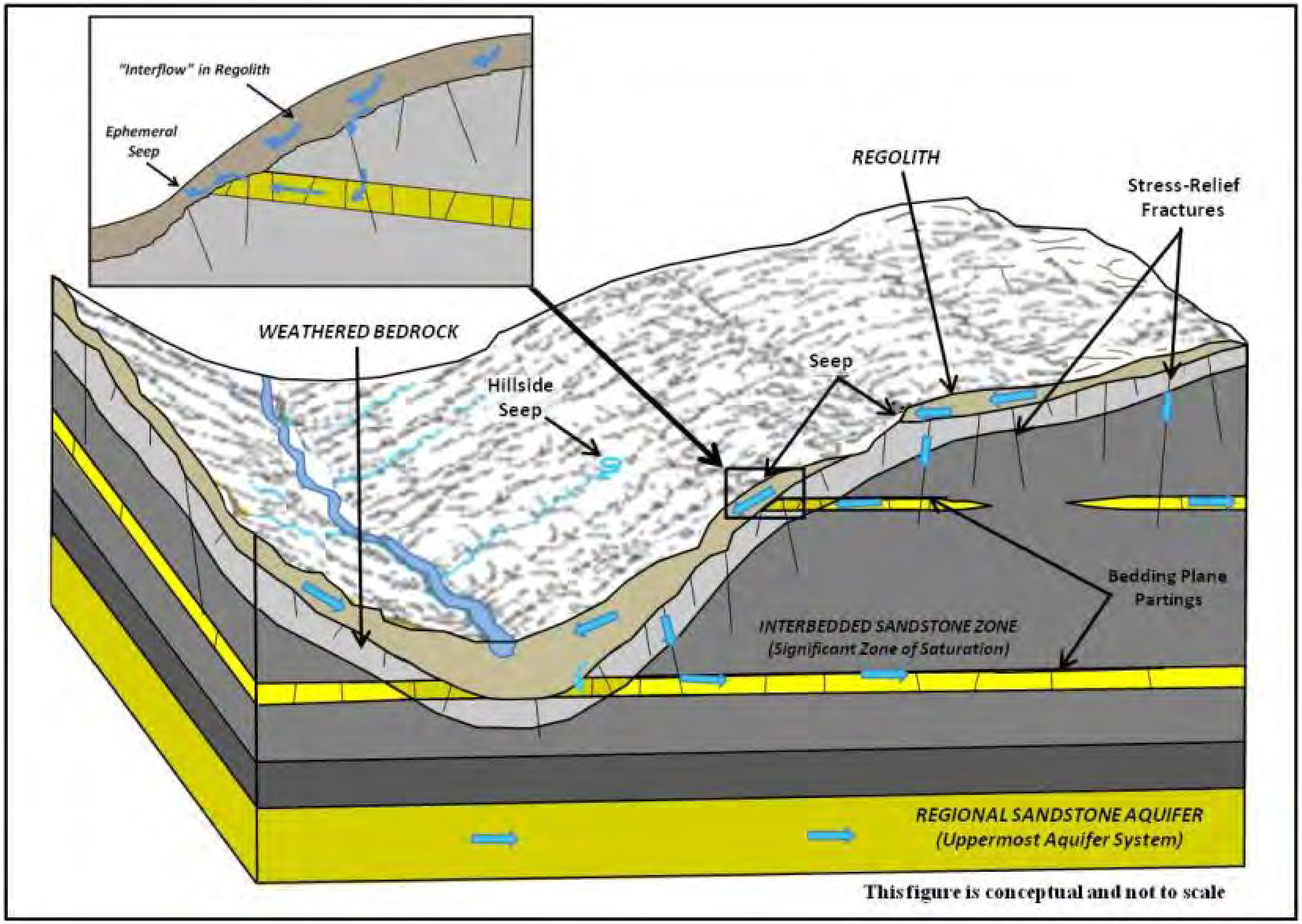


Figure 2.25. Generic Hillside Hydrogeologic Model for Upland Areas at PORTS

There is a localized area of saturation associated with the 720-ft sandstone lenses in the vicinity of WD-SB-40 and WD-PZ15C. The sandstone lenses receive recharge where they outcrop, or subcrop beneath the regolith (within the stream valley that WD-PZ15C is located within) or where they are close to the surface in the fractured and weathered bedrock. None of the other open-hole piezometers had a groundwater elevation that coincided with the 720-ft sandstone zone.

The next recognizable zone in depth is the 680-ft sandstone zone. This zone is comprised of an upper 2-ft-thick layer and a lower 0.4-ft-thick sandstone separated by approximately 2 ft of shale. Unlike the 720-ft sandstone zone, the individual sandstone layers in the 680-ft sandstone zone are continuous across Study Area D, except where removed by erosion to the west and north, and probably extend outside of the study area to the northeast and east, although the extent is limited by topography with the layer being eroded in the deeper valleys. These sandstones were also noted in several borings at Study Area C, but they were thinner and often described as siltstones as the unit tends to become more fine-grained from north to south.

The vertical hydraulic conductivity of the 680-ft sandstone zone at Study Area D was determined in laboratory testing to be 0.0005 ft/day to 0.004 ft/day. The horizontal hydraulic conductivity is estimated to be approximately 10 times that value. Joint and bedding plane partings may increase the permeability values by one or two orders of magnitude when compared to the intergranular permeability values alone. The only fractures noted during geophysical logging of seven piezometers at Study Area D were bedding plane fractures at the top of the 680-ft sandstone in WD-PZ08C and WD-PZ13C, a vertical fracture in the 680-ft sandstone in WD-PZ09C and WD-PZ12C, and bedding plane partings in the weathered bedrock. With the exception of the above mentioned fractures associated with the 680-ft sandstone, no fractures were observed in unweathered bedrock. The shale in the Cuyahoga Formation had vertical hydraulic conductivities much lower than the sandstone (range from 0.000001 to 0.0009 ft/day), based on laboratory testing.

Throughout the study period, the depth to the potentiometric surface as measured in the piezometers and monitoring wells was relatively consistent. At Study Area D, potentiometric levels are typically highest in WD-PZ16C. This piezometer is located in an area where the 680-ft sandstone subcrops beneath the regolith in a stream valley and receives recharge. Groundwater flow from this recharge area would tend to be radially outward but would be south-to-southeast beneath the proposed OSDC. Groundwater flow to the northwest from this recharge area may be limited as the dip of the sandstone is generally to the east-southeast.

The vertical gradient between the 680-ft sandstone zone and the Berea is estimated to be greater than 1ft/ft downward and in some areas is greater than 2 ft/ft due to the low permeability of the lower Cuyahoga Formation and the Sunbury shale. Hydraulic testing demonstrated a lack of communication between the Berea and the overlying saturated zones which suggests the fractures/joints do not extend to the Berea (stress-relief fracturing decreases with depth).

The groundwater chemistry of the Berea is significantly different from the overlying zone of saturation in the Cuyahoga. The Berea has a sodium chloride-type hydrochemical facies while the Cuyahoga has a magnesium sulfate-type hydrochemical facies. The high concentrations of sulfate in the Cuyahoga are probably related to the oxidation of sulfide minerals in the shale. The exception is WD-PZ09C and WD-PZ11C which demonstrate a sodium-magnesium sulfate-type water chemistry. The sodium concentration of these two piezometers, in milliequivalents per liter, accounts for 45 percent of the total cations whereas sodium only comprises 15 percent of total cations in the remaining Study Area D piezometers. This seems to reflect more cation exchange of magnesium for sodium on the surface of clay particles in the shale. The lowest total dissolved solids in the Cuyahoga occur in WD-PZ09C and WD-PZ16C. WD-PZ16C is located near a recharge area where the 680-ft sandstone subcrops beneath the regolith and WD-PZ09C appears to be located in a more permeable zone potentially connected to recharge areas.

Yield was tested in 12 Cuyahoga piezometers at Study Area D. Only two could sustain a yield greater than 0.1 gpm. The yield in the remaining piezometers ranged from 0.0007 gpm to 0.05 gpm. The average of all Cuyahoga piezometer yields was 0.16 gpm with a median yield of 0.002 gpm. The logarithmic mean, which may be more appropriate given the distribution, is less than 0.01 gpm. Yield testing in four Berea monitoring wells at Study Area D ranged from 0.008 gpm at WD-MW05B to 0.02 gpm at WD-MW06B with a logarithmic mean of 0.01 gpm.

The Berea sandstone, the regional aquifer, occurs at an average elevation of approximately 625 ft AMSL. The Berea is separated from the Cuyahoga Formation by approximately 20 ft of Sunbury shale. The upper 10 to 15 ft of the Berea, which has a total thickness of approximately 35 ft, consists of a massive sandstone bed. The hydraulic conductivity determined by single-well aquifer tests of the Berea sandstone ranges from 4.5×10^{-3} to 15.0 ft/day with a mean value of 0.16 ft/day. The higher hydraulic conductivity tends to occur in areas where the Sunbury shale is absent and the Berea has been weathered. The Berea typically has yields greater than 1 gpm and is often the target for installation of residential water supply wells in this area. Yield measurements are available for three Berea wells (two residential wells and one PORTS monitoring well) within a 1-mile radius around Study Area D. The average yield based on those three wells is 1.0 gpm. The Berea represents the uppermost aquifer system at Study Areas C and D (in the upland areas where the Minford/Gallia is absent).

The sandstone zones in the Cuyahoga Formation, the “720-ft sandstone lens zone” and the “680-ft sandstone” are considered significant zones of saturation (a “significant zone of saturation,” as defined at *OAC* 3745-27-01, means a zone of saturation that may act as a preferential pathway of migration away from the limits of solid waste placement). These sandstones can transmit groundwater more readily than the overlying or underlying shale but they are thin (2 ft thick or less) and have a low hydraulic conductivity and a low yield. Only two piezometers demonstrated a yield greater than 0.1 gpm and testing indicated little to no hydraulic connection to nearby piezometers and borings. The water quality of the Cuyahoga is undesirable with sulfate concentrations ranging from 660 mg/L to 6,600 mg/L (the secondary MCL for sulfate is set at 250 mg/L).

2.2.2.2 Subsurface soil investigation

For investigation of subsurface soil, several intrusive field methods were used to obtain the required geotechnical, geochemical, and analytical data, as outlined in the Geotechnical SAP. These methods included CPT and drilling in both unconsolidated and bedrock formations to collect soil samples for geotechnical, geochemical, and analytical testing. CPT, an in situ method used to determine geotechnical properties of soils, was used to identify the geologic stratigraphy, determine depth to bedrock, and verify the depth to groundwater in unconsolidated materials.

The numbers and types of samples collected from each boring are provided in Table 2.8. Because less data were initially available for Study Areas A, C, and D, most of the sampling was performed in those areas. The types (and numbers) of geotechnical and hydraulic conductivity tests performed within each study area are listed in Table 2.9. Appendix C contains the geochemical and geotechnical sample results.

Table 2.8. Summary of Subsurface Soil Sampling Activities in Study Areas at PORTS

Soil Boring	Surface Elevation (ft AMSL)	Study Area	Geotechnical Sample Interval (ft bgs)	Geochemical Sample Interval (ft bgs)	Analytical Sample Interval (ft bgs)	Total Depth (ft)
WD-SB-01	684.46	A	5-7; 7.5-8;15-17; 21.5-22; 25-27; 35-37	None	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	81
WD-SB-02	659.28	A	5-7; 7.5-8.5; 15-17	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	52.7
WD-SB-03	678.23	A	5-7; 15-17; 25-27	None	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	70.5
WD-SB-04	712.24	A/C	5-7	None	0-2; 2.5-4.5; 10-12	70
WD-SB-05	687.61	A	1-1.5; 3.5-4; 5-7; 8-8.4; 13.6-14; 15-17; 20-20.5; 25-27; 30-30.5; 32.5-34; 35-37; 45.5-46	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	86
WD-SB-06	710.01	A/C	0-2; 3-5	None	0-2; 2.5-4.5	70.2
WD-SB-07	693.26	A/C	1-1.5; 3-3.5; 5-5.5; 6.5-6.9	0-2; 2.5-4.5; 10-12 (plus core from Cuyahoga, Sunbury, and Berea)	0-2; 2.5-4.5; 10-12	95
WD-SB-08	726.13	A/C	0-2; 5-9	None	0-2; 2.5-4.5	127
WD-SB-09	762.00	A/C	2.5-4.5; 5-7; 7.5-8; 5-9; 12.5-13; 14-14.5; 15.5-16	0-2; 2.5-4.5; 10-12; 17.5-19.5	0-2; 2.5-4.5; 10-12; 17.5-19.5	100
WD-SB-10	750.81	A/C	5-5.5; 5.5-6; 8-12	None	0-2	130
WD-SB-11	763.74	C	5-7	None	0-2; 2.5-4.5; 10-12; 17.5-19.5	80
WD-SB-12	687.32	C	5-6.3; 7.5-9.5; 15-17; 25-27	None	0-2; 2.5-4.5; 10-12; 17.5-19.5	70.4
WD-SB-13	694.76	C	10-15	(see WD-PZ05C)	0-2	67
WD-SB-14	754.90	C	3-5	None	0-2	125.9
WD-SB-15	760.07	C	5-7	None	0-2	130
WD-SB-16	772.57	C	2.5-4.5; 5-7	None	0-2; 2.5-4.5; 10-12	100.3
WD-SB-17	734.91	C	5-7	None	0-2; 2.5-4.5; 10-12; 17.5-19.5	80
WD-SB-18	663.72	B	5-7; 15-16.6	None	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	70
WD-SB-19	660.61	B	5-6.7; 15-17.3	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-23.5	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-23.5	42
WD-SB-20	669.57	B	6-10; 25-27	None	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	70
WD-SB-21	671.13	B	None	1.5-3; 4-4.5; 11.5-13; 19-20.5	0-3; 4.0-4.5; 11.5-13; 19-20.5	70
WD-SB-22	687.60	D	5-7; 13.5-14.5; 15.5-16.3	None	0-2; 2.5-4.5; 10-12; 17.5-19.5	36.4
WD-SB-23	764.81	D	3-3.5; 5-5.5; 8.7-9.1; 10-12; 13-14	None	0-2; 2.5-4.5; 10-12	127
WD-SB-24	747.37	D	2.5-4.5; 5-5.5; 7.5-8.5	19-21; 118.5-120; 138-140	0-2; 2.5-4.5; 19.3-19.8; 118.6-119; 138.4-138.9	144.3
WD-SB-25	686.74	D	None	0-2; 2.5-4.5	0-2; 2.5-4.5	47
WD-SB-26	702.83	D	1-1.5; 3.1-3.5; 5-7; 7.9-8.9; 10-12; 12.9-13.3; 15-15.4; 15.8-16.2	None	0-2; 2.5-4.5; 10-12	57

Table 2.8. Summary of Subsurface Soil Sampling Activities in Study Areas at PORTS (Continued)

Soil Boring	Surface Elevation (ft AMSL)	Study Area	Geotechnical Sample Interval (ft bgs)	Geochemical Sample Interval (ft bgs)	Analytical Sample Interval (ft bgs)	Total Depth (ft)
WD-SB-27	738.25	D	3.5-4; 5-7; 8-8.5; 9-9.5; 11.5-12; 12.5-13	None	0-2; 2.5-4.5; 10-12	101.7
WD-SB-28	751.84	D	1-1.5; 5-7; 9-9.5; 11.1-11.5; 13-13.5; 14-14.5	None	0-2; 2.5-4.5; 10-12	110.9
WD-SB-29	699.13	D	0-2; 5-7; 8-8.5; 7.5-10; 12.5-13.5; 15-16; 17.5-17.9	0-2; 2.5-4.5; 10-12	0-2; 2.5-4.5; 10-12	66.2
WD-SB-30	751.84	D	5-7.5; 12.5-13; 15.5-16.5	26.5-28.5; 117.5-119.5; 137-139	0-2; 2.5-4.5; 10-12	148
WD-SB-31	744.51	D	0-2; 5-7; 8-9	0-2; 2.5-4.5	0-2; 2.5-4.5	140.3
WD-SB-32	721.85	D	1-1.5; 4-4.5; 12.5-13.5	None	0-2; 2.5-4.5; 10-12	77
WD-SB-33	742.62	D	0.6-1; 2.5-3; 5-6.1; 9-9.5; 10.5-11	23-24; 116.5-117.5; 138-139	0-2; 2.5-4.5; 10-12; 13-14; 22-24; 107-109; 116-118; 128-129; 138-139	140
WD-SB-34	728.05	D	3.2-3.7; 5-7; 8-8.8; 9.3-9.5	None	None	86.5
WD-SB-35	727.23	D	3.5-4.5; 5.5-6; 8-8.5	None	None	82
WD-SB-36	752.48	D	5-7; 7.5-8	None	None	120
WD-SB-37	713.45	D	3-5; 10-12	None	None	96.3
WD-SB-38	772.71	D	0.5-1; 1-1.5; 4-6; 14-16; 36-38	None	None	63
WD-SB-39	780.35	D	4-6; 14-15.5	None	None	113
WD-SB-40	747.54	D	4-6	None	None	78.3
WD-SB-41	779.88	D	2-4; 4-6; 10-12; 15-16.2	None	None	76.3
WD-SB-42	757.46	D	4-6	None	None	83.5
WD-SB-43	684.28	D	None	None	None	30.9
WD-SB-44	703.23	D	4-6	None	None	33.4
WD-SB-45	692.13	D	4-6; 8-10	None	None	71.8
WD-SB-46	752.57	D	4-6	None	None	85
WD-SB-47	733.03	D	2-4; 4-4.6	None	None	62.5
WD-SB-48	759.60	D	0.5-1; 1-1.5; 2-4; 14-16; 28-30	None	None	63
WD-SB-49	669.22	D	4-5; 12-14	None	0-2; 2-4; 6-8; 8-10; 10-12; 18-20	20
WD-SB-50	694.82	D	4-6	None	None	30
WD-SB-51	695.07	D	4-6	None	None	30.1
WD-SB-52	666.64	D	2.5-4; 4-6	None	0-2; 6-8; 8-10	10
WD-SB-53	706.31	D	4-6	None	None	66
WD-SB-54	710.77	D	4-6	None	None	40
WD-SB-55	675.58	D	0.5-1; 1-1.5; 4-6	None	None	30
WD-SB-56	730.53	D	0.5-1; 1-1.5; 5-6.9	None	None	46
WD-SB-57	710.57	D	4-6	None	None	68
WD-SB-58	685.77	D	4-6	None	None	30.1
WD-SB-59	673.43	D	4-6; 18-20	None	0-2; 6-8; 8-10; 12-14; 14-16; 18-20; 20-22; 22-23	31
WD-SB-60	635.65	D	2-4	None	None	10
WD-SB-61	657.47	D	None	None	0-2; 6-10	10

Table 2.8. Summary of Subsurface Soil Sampling Activities in Study Areas at PORTS (Continued)

Soil Boring	Surface Elevation (ft AMSL)	Study Area	Geotechnical Sample Interval (ft bgs)	Geochemical Sample Interval (ft bgs)	Analytical Sample Interval (ft bgs)	Total Depth (ft)
WD-SB-62	690.00	D	0.5-1; 1-1.5; 4-6; 6-8; 16-17.1	None	None	30
WD-SB-63	738.67	D	4-6; 21-23	None	0-2; 6-8; 8-10; 12-14; 14-16; 16-18; 26-27	73.4
WD-SB-64	750.49	D	1-1.5; 1.5-2; 4-8; 10-11	None	None	65
WD-SB-65	748.87	D	6-8	None	None	79
WD-SB-66	675.18	D	None	None	None	10
WD-SB-67	742.55	D	16-18	None	None	74.3
WD-SB-68	679.93	D	4-6	None	0-2; 6-8; 8-10	10
WD-SB-69	743.47	D	2-2.5; 2.5-3; 4-6; 6.5-7.5; 9-10.7; 28-30	None	None	33
WD-SB-70	642.05	D	4-6	None	None	30.3
WD-SB-71	771.45	D	4-6	None	None	81.6
WD-MW01B	730	C	None	None	0-2; 2.5-4.5; 10-12; 25.4-26.4; 35.1-36.1; 101.7-102.7; 110.8-111.5; 121.3-122.3; 131.1-131.7	132
WD-MW02B	759.5	C	None	None	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5; 26.3-31.3; 134.5-135.5; 144.5-145.5; 152.7-153.7; 162.5-163.5	166
WD-MW03B	748.74	D	3-3.5; 5-7; 5-9; 12.5-12.9; 13.3-13.6; 15.5-16	30.3-31.3; 122.3-123.3; 143.3-144.3	0-2; 2.5-4.5; 10-12; 21.3-22.3; 30.3-31.3; 113.5-14.5; 122.3-123.3; 133.5-134.5; 143.3-144.3	144.3
WD-MW04B	702.41	D	2.4-4.5; 5-7; 12.5-14.5; 20-20.8	36.5-37.5; 78-80; 97-99	0-2; 2.5-4.5; 10-12; 17.5-19.5	98.2
WD-MW05B	695.69	D	2.5-4.5; 9-9.5	21-22; 58-59; 79.5-80.5	0-2; 2.5-4.5; 11-11.5; 21-21.5; 49.5-50; 58-58.5; 69.7-70.2; 79.5-79.9	80.4
WD-MW07B	728.39	D	None	None	None	~103
WD-PZ03G	659.3	A	None	None	0-2; 2.5-4.5; 10-12; 17-19.5; 22.5-24.5	26
WD-PZ04C	750.9	A/C	None	None	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	130
WD-PZ05C	694.8	C	None	0-2; 2.5-4.5; 10-12; 17-19.5	0-2; 2.5-4.5; 10-12; 17-19.5	67
WD-PZ06C	754.9	C	None	None	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	126
WD-PZ07C	760.2	C	None	None	0-2; 2.5-4.5; 10-12; 17.5-19.5; 22.5-24.5	130
WD-PZ08C	728.62	D	None	None	0-2; 2.5-4.5; 10-12	48
WD-PZ09C	754.03	D	None	None	0-2; 2.5-4.5; 10-12	117
WD-PZ10C	727.70	D	None	None	0-2; 2.5-4.5	43
WD-PZ11C	742.64	D	None	None	None	80

Table 2.8. Summary of Subsurface Soil Sampling Activities in Study Areas at PORTS (Continued)

Soil Boring	Surface Elevation (ft AMSL)	Study Area	Geotechnical Sample Interval (ft bgs)	Geochemical Sample Interval (ft bgs)	Analytical Sample Interval (ft bgs)	Total Depth (ft)
WD-PZ12C	748.70	D	None	None	None	73.5
WD-PZ13C	702.81	D	None	None	None	71.0
WD-PZ14C	695.39	D	None	None	None	44.1
WD-PZ15C	741.91	D	None	None	None	72.0
WD-PZ16C	710.66	D	None	None	None	41.0
WD-PZ17C	706.48	D	None	None	None	61.0
WD-PZ18C	765.95	D	None	None	None	94.8
WD-PZ18CA	712.74	D	None	None	None	41.1
WD-PZ19C	704.25	D	None	None	None	35.0
WD-PZ20C	749.58	D	None	None	None	79.1

AMSL = above mean sea level
bgs = below ground surface

Table 2.9. Number of Geotechnical Tests in Study Areas at PORTS

Test Method	Test Description	Study Area A Only	Study Area B	Study Area C Only	Study Areas A and C Overlap	Study Area D	Totals
ASTM D 2487	Engineering classification	19 (12)	6 (8)	11 (14)	12 (11)	40 (28)	88 (73)
ASTM D 2216 or ASTM D 7263	Moisture content	10 (12)	6 (8)	11 (14)	14 (11)	35 (28)	76 (73)
ASTM D 422	Grain size (including hydrometer)	14 (12)	6 (8)	11 (14)	10 (11)	37 (28)	78 (73)
ASTM D 854	Specific gravity	12 (12)	6 (8)	11 (14)	9 (11)	35 (28)	73 (73)
ASTM D 4318	Atterberg limits	19 (12)	6 (8)	11 (14)	11 (11)	38 (28)	85 (73)
ASTM D 698 or ASTM D 4253	Standard proctor or relative density	1 (2)	1 (1)	1 (1)	3 (1)	3 (1)	9 (6)
ASTM D 4767	Consolidated undrained triaxial	3 (4)	3 (5)	5 (5)	3 (4)	2 (5)	16 (23)
ASTM D 2435	One-dimensional consolidation	6 (8)	3 (5)	3 (6)	3 (4)	3 (5)	18 (28)
ASTM D 5311	Cyclic triaxial testing	0 (0)	0 (1)	0 (0)	0 (0)	0 (2)	0 (3)
ASTM D 5084, ASTM D 2434, or ASTM D 6836	Hydraulic conductivity (undisturbed)	2 (3)	1 (3)	2 (3)	1 (2)	2 (3)	8 (14)
ASTM D 5084	Hydraulic conductivity (remolded)	1 (0)	0 (0)	1 (0)	2 (0)	2 (2)	6 (2)
ASTM D 4525	Hydraulic conductivity (rock core)	0 (0)	0 (0)	1 (2)	4 (0)	8 (4)	13 (6)
ASTM D 3080	Direct shear	0 (1)	0 (1)	0 (0)	0 (0)	0 (0)	0 (2)
ASTM D 1883	California bearing ratio (socked)	1 (1)	0 (0)	0 (0)	0 (0)	0 (0)	1 (1)
ASTM D 1883	California bearing ratio (unsocked)	1 (1)	0 (0)	0 (0)	0 (0)	0 (0)	1 (1)

The planned numbers of analyses are in parentheses.

ASTM = American Society for Testing and Materials

CPT was used to collect geotechnical and geological data within the unconsolidated strata. This testing primarily determines the bearing capacity and pore water pressure of the unconsolidated soil. The CPT work followed ASTM D 3441, *Standard Test Method for Mechanical Cone Penetration Tests for Soil*. CPT was used at 21 locations in both unconsolidated subsurface soils and weathered bedrock until refusal was reached, and it provided a continuous readout of tip and sleeve resistivity and pore pressure to bottom depth. At Study Areas C and D, the CPT results supplemented the soil boring data in providing the depth to bedrock. The average depth to competent bedrock (based on auger refusal) at Study Area D was approximately 13 ft. The average depth of weathering at Study Area D, based primarily on color change in the rock core, was 22 ft.

Samples for geochemical, geotechnical, and contaminant analyses were collected with split-spoon samplers and/or Shelby tubes during the course of drilling. Sampling conformed to ASTM D 1586, *Standard Test Method for Standard Penetration Test (STP) and Split-Barrel Sampling of Soils* and ASTM D 1587, *Standard Practice for Thin-Walled Tube Sampling for Soils for Geotechnical Purposes*. Once competent bedrock was encountered, sampling conformed to ASTM D 2113, *Standard Practice for Rock Core Drilling and Sampling of Rock for Site Investigations*.

The locations of soil borings are shown in Figures 2.26 through 2.28. Seventy-one soil borings were advanced to bedrock or into bedrock at the four study areas. The borehole depths for the soil borings, provided in Table 2.7, ranged from approximately 53 to 100 ft below ground surface (bgs) at Study Area A, 42 to 70 ft bgs at Study Area B, 67 to 100 ft bgs at Study Area C, and 10 to 148 ft bgs at Study Area D.

Soil boring samples consisted of Shelby tube and split-spoon samples from discrete depth intervals. Geotechnical analyses (such as Atterberg limits, water content, consolidation, and unconfined compression), geochemical analyses (such as K_d, TOC, and cation exchange), and contaminant analyses were conducted on selected soil samples. Soil samples representing each geologic stratum were used for batch testing to determine site-specific K_d values for uranium isotopes and technetium-99.

Samples for geochemical analyses (K_d, TOC) were collected from selected borings at the depths of the various geologic strata. The TOC in soil and rock, used in fate and transport modeling of organic contaminants, was measured in 58 samples. The median value of the detections was 0.00495 kg/kg, or 0.495 percent organic carbon. The dataset had several values greater than 0.047 kg/kg which were primarily from the Sunbury shale. The Sunbury shale is characterized as an organic rich unit. One sample from the Berea sandstone at WD-SB-24 had a reported value of 0.071 kg/kg. (The drilling log for this boring noted a strong hydrocarbon odor from the Berea.) The median value of TOC results without the Sunbury and Berea results, which appear to be a separate sample population, is 0.0044 kg/kg. Figure 2.29 provides a comparison of the TOC results from the four study areas. The TOC is higher at Study Areas C and D where samples were collected from the regolith and shale bedrock compared to Study Areas A and B where samples were collected from the Minford and Gallia of the Teays Formation.

Because site-specific K_d values have already been determined for several metals, these analyses focused on developing site-specific K_d values for the radionuclides uranium and technetium-99 only. A total of 40 soil/rock samples representing various geologic strata were collected from specified soil borings and used for K_d analyses.

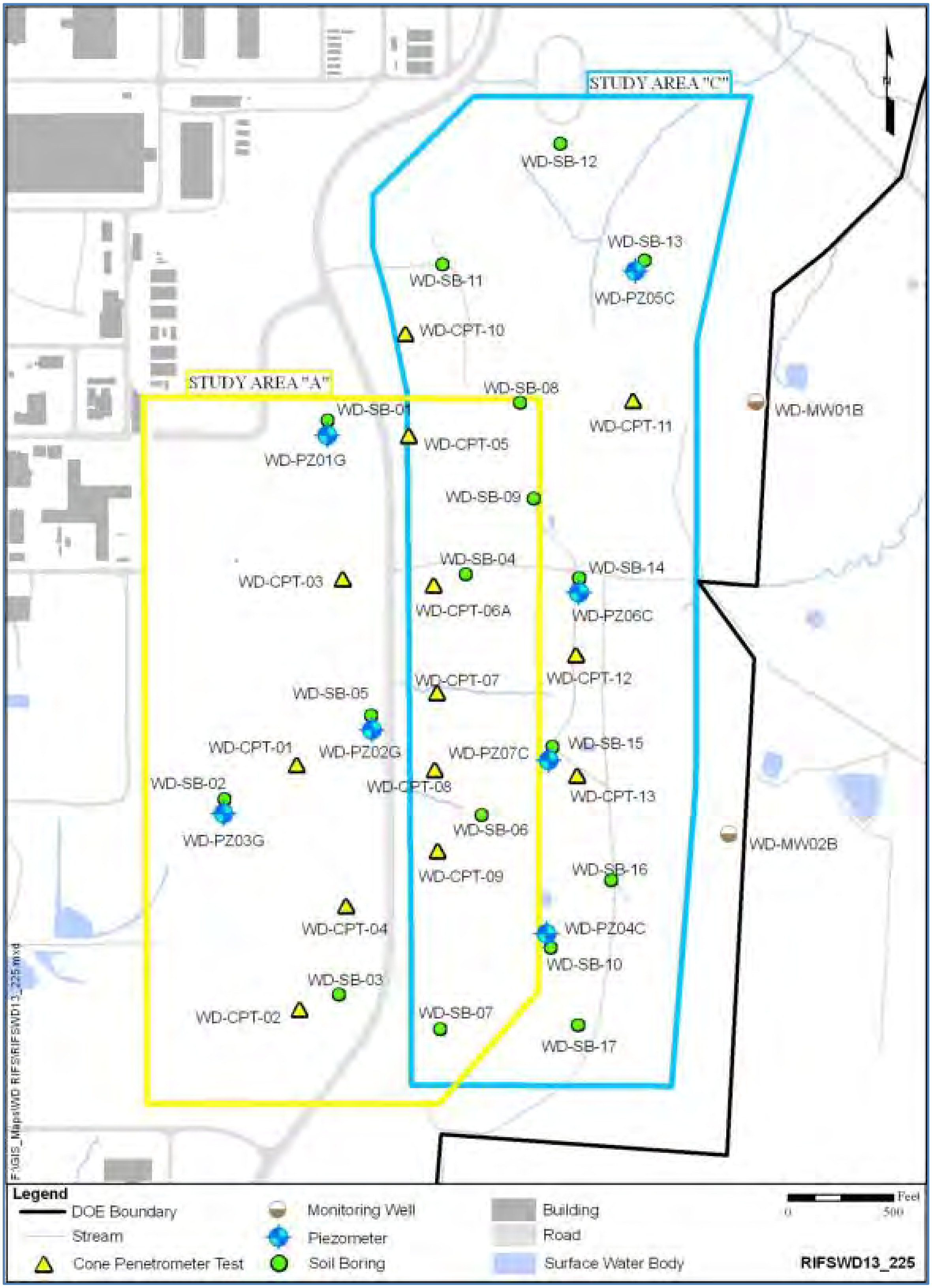


Figure 2.26. Boring Locations in Study Areas A and C at PORTS

Figure 2.27. Boring Locations in Study Area B at PORTS

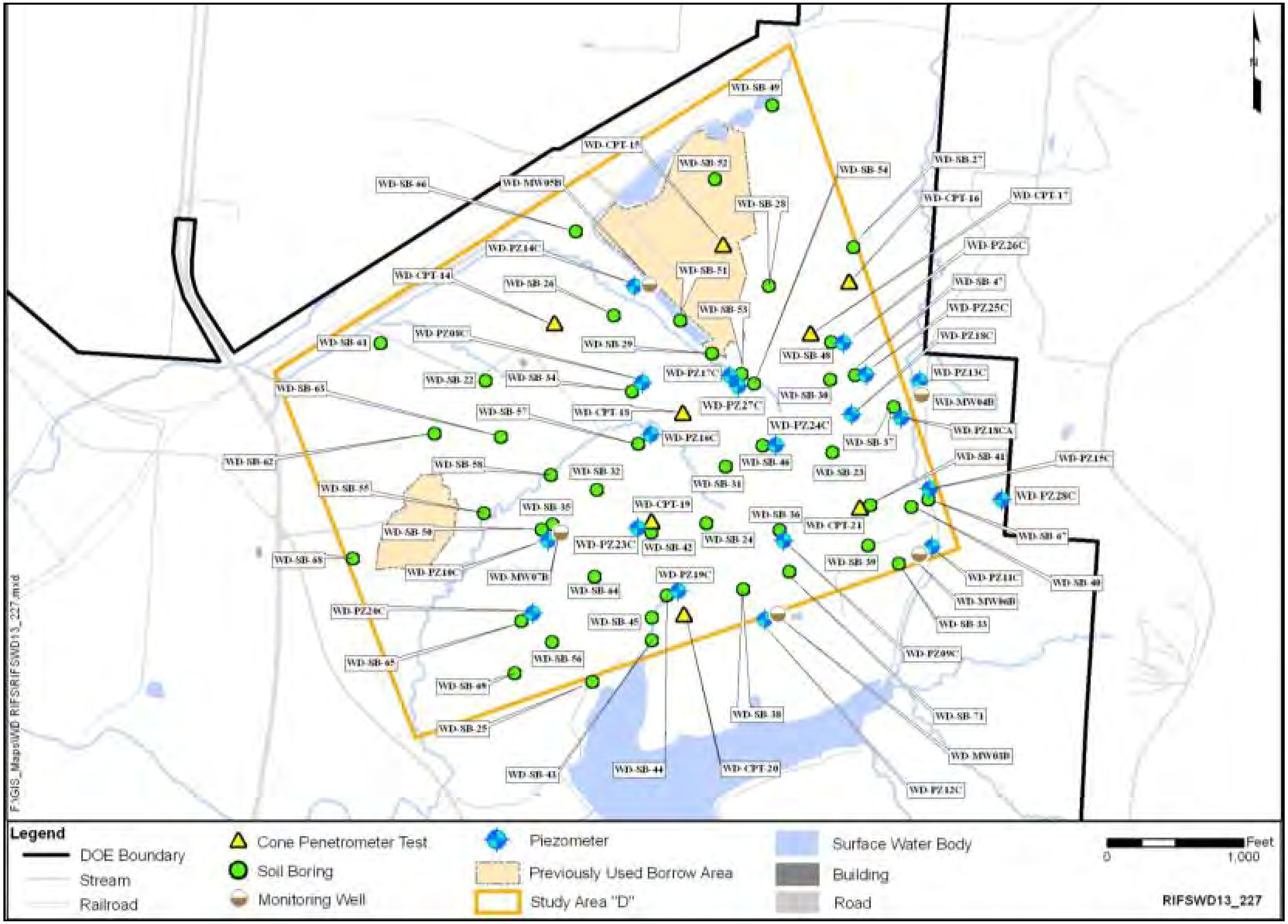


Figure 2.28. Boring Locations in Study Area D at PORTS

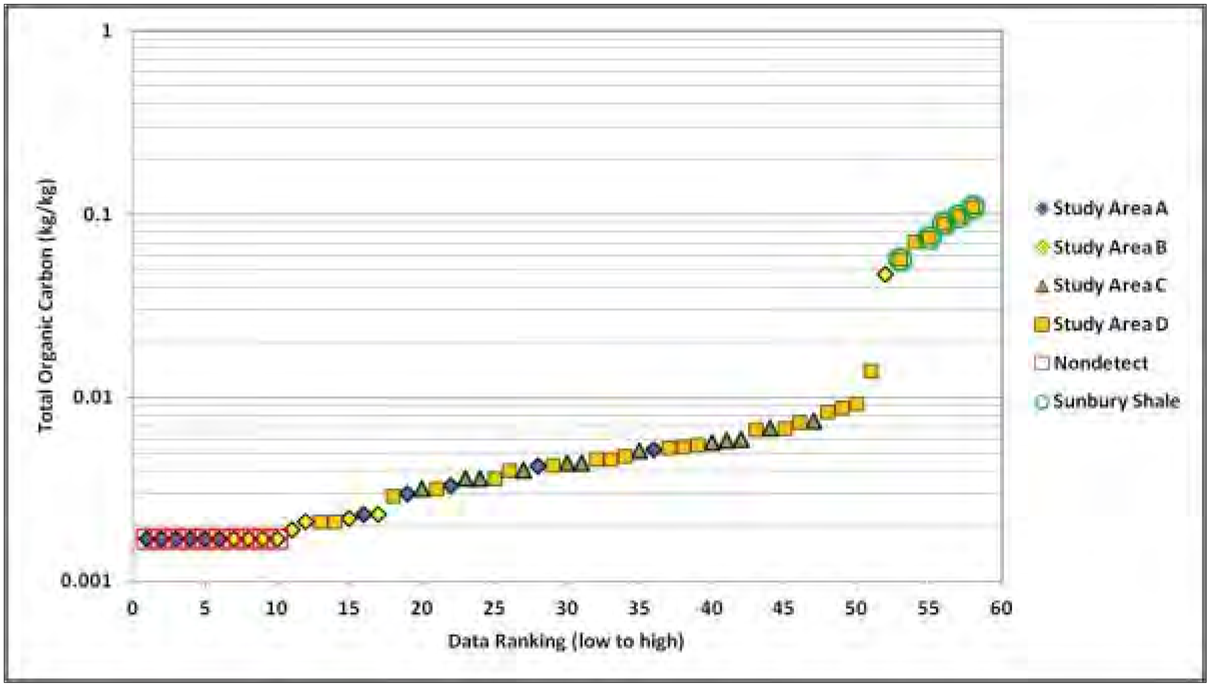


Figure 2.29. TOC Measurements for the RI/FS Study Areas at PORTS

The K_d analyses were performed to determine how species of uranium and technetium-99 in groundwater and soil partition between phases. This information is important in the analysis and evaluation of the retardation of uranium and technetium, and potential contaminant transport through the geologic strata. To obtain the most representative results, standard adsorption tests following ASTM C 1733 were performed on collected soil/rock samples, using both contaminated groundwater from the location and spiked water. The initial levels, or concentrations, of uranium and technetium-99 in the soil/rock samples and groundwater were determined by laboratory analyses. A summary of the results of the K_d analyses is listed in Table 2.10. The first batch of K_d results for uranium was highly uncertain because the uranium in the groundwater was at low activities. The results for the first batch of uranium K_d analyses were not considered to be representative and are not included in Table 2.10. The location groundwater was spiked with uranium for subsequent batch testing. Figure 2.30 shows the variation of K_d values with depth at WD-SB02 and WD-SB05. Distribution coefficients for waste were also determined with technetium ranging from 2.02 to 2.05 mL/g and uranium ranging from 246 to 634 mL/g. All K_d results and laboratory reports are provided in Appendix C.

Table 2.10. K_d Analytical Results for PORTS

Constituent	Geologic Unit	Min (mL/g)	Max (mL/g)	Median (mL/g)	Geometric Mean (mL/g)	Mean (mL/g)	Standard Error of the Mean (mL/g)	Number of Samples
Technetium-99	Minford	2.72	4.97	4.01	3.79	3.84	0.16	15
	Gallia	4.32	8.16	7.29	6.36	6.59	1.16	3
	Regolith	3.08	5.93	4.28	4.29	4.37	0.25	12
	Cuyahoga	3.17	8.86	4.33	4.60	4.87	0.83	6
	Cuyahoga (sandstone layer)	3.27	3.49	3.38	3.38	3.38	0.11	2
	Sunbury	130	303	217	198	217	86.5	2
	Berea	3.29	3.38	3.34	3.33	3.34	0.045	2
Uranium	Minford	3.67	118	10.4	14.2	26.1	11.1	10
	Gallia	12.3	118	15.3	28.1	48.5	34.7	3
	Regolith	4.20	687	17.9	22.6	77.6	55.6	12
	Cuyahoga	2.04	58.5	7.03	6.60	14.82	8.96	6
	Cuyahoga (sandstone layer)	64.4	71.7	68.1	68	68.1	3.65	2
	Sunbury	757	757	NA	NA	NA	NA	1
	Berea	1.13	1.94	1.54	1.48	1.54	0.41	2

Max = maximum detected value
Min = minimum detected value
NA = not applicable

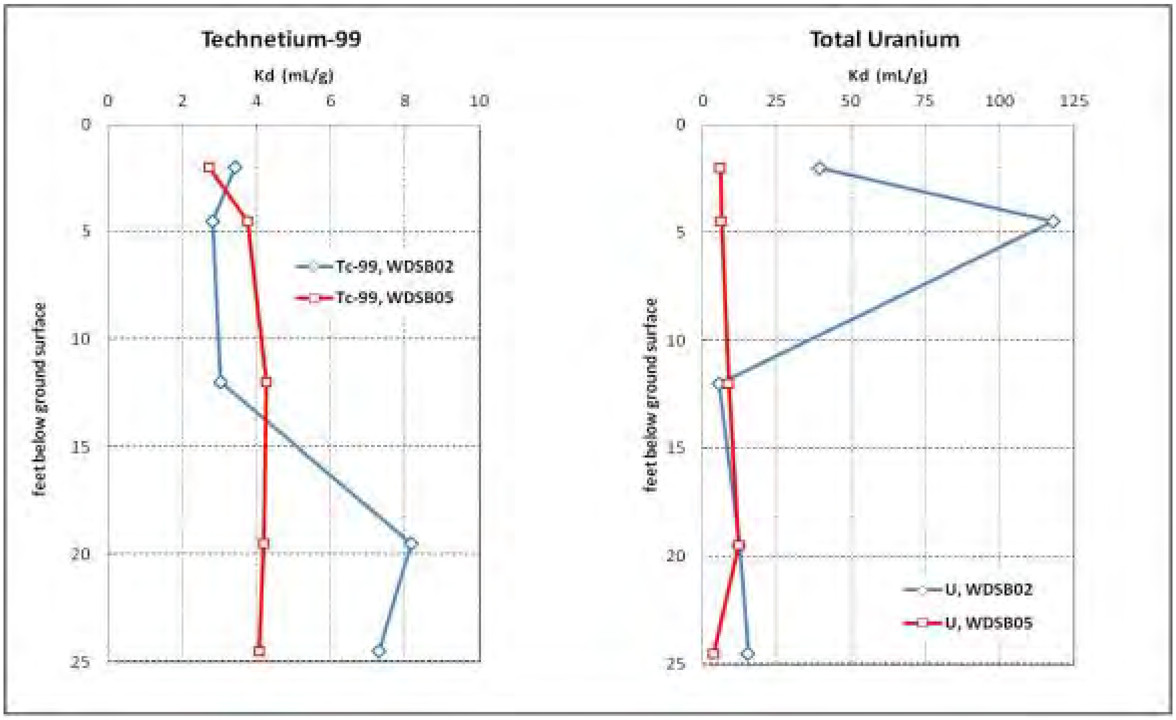


Figure 2.30. Variation of K_d for Technetium-99 and Total Uranium with Depth at PORTS

Soil/rock samples were collected for contaminant analysis as well as being evaluated for mineralogy. A report describing the mineralogy of four soil and six bedrock samples is provided in Appendix C. Soil/rock samples for VOC analysis were collected from near the base of the split-spoon sampler or core tubes soon after removal from the core barrel. Then the lithology of the sample was described and recorded. After the description of the lithology was completed, the soil was placed in a clean bowl and mixed to homogenize the sample, except in cases where the soil was stiff and could not be mixed. The resulting mixture was placed in the appropriate sample jars for analysis. In addition to contaminant characterization samples from the unconsolidated Minford, Gallia, or residual soil above the bedrock, samples were also collected from bedrock formations for chemical analysis. Samples for contaminant analysis were typically collected from the following depths, where not in conflict with a geotechnical or geochemical sample: 0 to 1 ft, 3 to 5 ft, 10 to 12 ft, 17.5 to 19.5 ft, and 22.5 to 24.5 ft.

Tables 2.11 through 2.14 provide a summary of the analytical results for soil at the four study areas. In addition to providing the minimum and maximum detected values for many of the analytes, they were also screened against Type 2 industrial screening levels found in the PORTS Risk Methods document (DOE 2011b). The Type 2 screening levels represent concentrations below which no significant human health threats are anticipated. The Type 2 industrial screening levels were calculated using standard EPA exposure equations and pathway models to account for the ingestion of and dermal contact with soil or dust, inhalation of particulates, and inhalation of volatiles (DOE 2013a).

Table 2.11. Analytical Results Summary for Soil in Study Area A at PORTS

Metals	**Total Samples**	**Min Value (mg/kg)**	**Max Value (mg/kg)**	**Ratio Detect/Total**	**Type 2 Industrial Screening Level[a] (mg/kg)**	**Exceeds Screening Level?**
Aluminum	37	5.90×10^{3}	1.90×10^{4}	37/37	1.90×10^{5}	No
Antimony	36	0.420	0.440	2/37	81.8	No
Arsenic	37	1.60	34.0	37/37	3.81	**Yes**
Barium	37	28.0	700	37/37	3.55×10^{4}	No
Beryllium	37	0.370	1.30	37/37	394	No
Cadmium	37	3.60×10^{-2}	0.240	19/37	197	No
Chromium	37	12.0	28.0	37/37	10.8	**Yes**
Cobalt	37	2.40	100	37/37	60.2	**Yes**
Copper	37	4.90	24.0	37/37	8.18×10^{3}	No
Iron	37	1.00×10^{4}	5.30×10^{4}	37/37	1.43×10^{5}	No
Lead	37	6.20	45.0	37/37	800	No
Manganese	37	37.0	2.70×10^{3}	37/37	1.39×10^{4}	No
Mercury	37	7.20×10^{-3}	6.90×10^{-2}	27/37	61.1	No
Nickel	37	6.20	38.0	37/37	3.77×10^{3}	No
Selenium	37	0.130	3.10	27/37	1.02×10^{3}	No
Thallium	37	0.130	0.770	37/37	20.4	No
Total Uranium[b]	37	0.380	1.70	37/37	611	No
Vanadium	37	22.0	49.0	37/37	1.24×10^{3}	No
Zinc	37	25.0	140	37/37	6.13×10^{4}	No

Table 2.11. Analytical Results Summary for Soil in Study Area A at PORTS (Continued)

Volatile/Semivolatile Organic Compounds	Total Samples	Min Value (mg/kg)	Max Value (mg/kg)	Ratio Detect/Total	Type 2 Industrial Screening Level[a] (mg/kg)	Exceeds Screening Level?
2-Butanone	47	2.30×10^{-3}	1.20×10^{-2}	2/47	2.84×10^{4}	No
Acetone	47	5.00×10^{-3}	8.80×10^{-2}	18/47	1.06×10^{5}	No
Benzene	47	5.30×10^{-4}	5.30×10^{-4}	1/47	7.04	No
Benzo(a)pyrene	37	4.90×10^{-2}	0.270	2/37	0.780	No
Bis(2-ethylhexyl) phthalate	37	5.20×10^{-2}	0.200	11/37	409	No
Carbon disulfide	47	3.50×10^{-3}	3.50×10^{-3}	1/47	470	No
Ethylbenzene	47	7.50×10^{-4}	7.50×10^{-4}	1/47	35.7	No
Methylene chloride	47	6.90×10^{-4}	0.680	5/47	71.7	No
PCB-1260	37	2.50×10^{-2}	4.00×10^{-2}	2/37	2.86	No
Polychlorinated biphenyl	37	2.50×10^{-2}	4.00×10^{-2}	2/37	2.86	No
Pyrene	37	1.20×10^{-2}	2.10×10^{-2}	5/37	818	No
Toluene	47	8.20×10^{-4}	3.80×10^{-3}	2/47	7.21×10^{3}	No
Total Xylene	47	4.70×10^{-3}	4.70×10^{-3}	1/47	348	No
Radionuclides	**Total Samples**	**Min Value (pCi/g)**	**Max Value (pCi/g)**	**Ratio Detect/Total**	**Type 2 Industrial Screening Level[a] (pCi/g)**	**Exceeds Screening Level?**
Plutonium-239/240	36	3.35×10^{-2}	4.50×10^{-2}	2/36	24.0	No
Uranium-233/234	58	0.569	1.37	58/58	56.5	No
Uranium-235	58	2.37×10^{-2}	7.82×10^{-2}	50/58	0.867	No
Uranium-238	58	0.546	1.38	58/58	3.66	No

[a] Type 2 industrial screening levels are from Table 2 in the PORTS human health Risk Methods document (DOE 2013a). Only constituents that were detected and have a Type 2 screening value provided in the Risk Methods document are listed in the table.

[b] The "Total Uranium" analyses cannot be directly compared to isotopic uranium results. "Total Uranium" was determined by Method 6020 with a sample preparation that only includes a partial dissolution (nitric acid only) to determine the environmentally available metals. The isotopic uranium samples were analyzed using alpha spectroscopy where the sample preparation included a more aggressive dissolution process. Because of the sample preparation process, the alpha spectroscopy analyses yield greater uranium values.

DOE = U.S. Department of Energy
Max = maximum detected value
Min = minimum detected value
PCB = polychlorinated biphenyl
PORTS = Portsmouth Gaseous Diffusion Plant

Table 2.12. Analytical Results Summary for Soil in Study Area B at PORTS

Metals	Total Samples	Min Value (mg/kg)	Max Value (mg/kg)	Ratio Detect/Total	Type 2 Industrial Screening Level[a] (mg/kg)	Exceeds Screening Level?
Aluminum	12	4.00×10^{3}	1.70×10^{4}	12/12	1.90×10^{5}	No
Antimony	12	2.80	2.80	1/12	81.8	No
Arsenic	12	2.60	45.0	12/12	3.81	**Yes**
Barium	12	26.0	110	12/12	3.55×10^{4}	No

Table 2.12. Analytical Results Summary for Soil in Study Area B at PORTS (Continued)

Metals	Total Samples	Min Value (mg/kg)	Max Value (mg/kg)	Ratio Detect/Total	Type 2 Industrial Screening Level[a] (mg/kg)	Exceeds Screening Level?
Beryllium	12	0.250	0.900	12/12	394	No
Cadmium	12	3.70×10^{-2}	9.90	12/12	197	No
Chromium	12	7.40	20.0	12/12	10.8	**Yes**
Cobalt	12	1.70	110	12/12	60.2	**Yes**
Copper	12	5.40	40.0	12/12	8.18×10^{3}	No
Iron	12	5.90×10^{3}	2.60×10^{4}	12/12	1.43×10^{5}	No
Lead	12	4.90	23.0	12/12	800	No
Manganese	12	15.0	1.20×10^{3}	12/12	1.39×10^{4}	No
Mercury	12	8.80×10^{-3}	9.40×10^{-2}	7/12	61.1	No
Nickel	12	6.30	110	12/12	3.77×10^{3}	No
Selenium	12	0.130	32.0	7/12	1.02×10^{3}	No
Silver	12	1.10	1.10	1/12	1.02×10^{3}	No
Thallium	12	0.120	15.0	10/12	20.4	No
Total Uranium[b]	12	0.500	24.0	12/12	611	No
Vanadium	12	7.60	230	10/12	1.24×10^{3}	No
Zinc	12	21.0	260	12/12	6.13×10^{4}	No

Volatile/Semivolatile Organic Compounds	Total Samples	Min Value (mg/kg)	Max Value (mg/kg)	Ratio Detect/Total	Type 2 Industrial Screening Level[a] (mg/kg)	Exceeds Screening Level?
2-Butanone	16	4.40×10^{-3}	1.00×10^{-2}	3/16	2.84×10^{4}	No
2-Methylnaphthalene	12	1.90	1.90	1/12	818	No
Acenaphthene	12	5.20×10^{-2}	5.20×10^{-2}	1/12	818	No
Acetone	19	5.00×10^{-3}	5.30×10^{-2}	3/19	1.06×10^{5}	No
Benz(a)anthracene	12	3.00×10^{-2}	3.00×10^{-2}	1/12	0.780	No
Benzo(a)pyrene	12	3.10×10^{-2}	3.10×10^{-2}	1/12	0.780	No
Benzo(b)fluoranthene	12	6.10×10^{-2}	6.10×10^{-2}	1/12	0.780	No
Benzo(ghi)perylene	12	2.50×10^{-2}	3.80×10^{-2}	2/12	818	No
Bis(2-ethylhexyl) phthalate	12	9.80×10^{-2}	0.320	1/12	409	No
Chrysene	12	3.70×10^{-2}	3.70×10^{-2}	1/12	0.780	No
Dibenzofuran	12	4.30×10^{-2}	4.30×10^{-2}	1/12	204	No
Fluoranthene	12	7.10×10^{-2}	7.10×10^{-2}	1/12	818	No
Indeno(1,2,3-cd)pyrene	12	2.10×10^{-2}	2.10×10^{-2}	1/12	0.780	No
Methylene chloride	19	9.30×10^{-4}	2.40×10^{-3}	9/19	71.7	No
Naphthalene	12	1.00	1.00	1/12	818	No
Pyrene	12	1.50×10^{-2}	6.10×10^{-2}	1/12	818	No
Trichloroethene	19	6.00×10^{-4}	1.40×10^{-3}	6/19	18.2	No

Table 2.12. Analytical Results Summary for Soil in Study Area B at PORTS (Continued)

Radionuclides	Total Samples	Min Value (pCi/g)	Max Value (pCi/g)	Ratio Detect/Total	Type 2 Industrial Screening Level[a] (pCi/g)	Exceeds Screening Level?
Uranium-233/234	20	0.519	7.22	20/20	56.5	No
Uranium-235	20	2.84×10^{-2}	0.285	16/20	0.867	No
Uranium-238	20	0.596	7.16	20/20	3.66	**Yes**

[a] Type 2 industrial screening levels are from Table 2 in the PORTS human health Risk Methods document (DOE 2013a). Only constituents that were detected and have a Type 2 screening value provided in the Risk Methods document are listed in the table.

[b] The "Total Uranium" analyses cannot be directly compared to isotopic uranium results. "Total Uranium" was determined by Method 6020 with a sample preparation that only includes a partial dissolution (nitric acid only) to determine the environmentally available metals. The isotopic uranium samples were analyzed using alpha spectroscopy where the sample preparation included a more aggressive dissolution process. Because of the sample preparation process, the alpha spectroscopy analyses yield greater uranium values.

DOE = U.S. Department of Energy
Max = maximum detected value
Min = minimum detected value
PORTS = Portsmouth Gaseous Diffusion Plant

Table 2.13. Analytical Results Summary for Soil in Study Area C at PORTS

Metals	Total Samples	Min Value (mg/kg)	Max Value (mg/kg)	Ratio Detect/Total	Type 2 Industrial Screening Level[a] (mg/kg)	Exceeds Screening Level?
Aluminum	68	1.20×10^{3}	2.60×10^{4}	68/68	1.90×10^{5}	No
Antimony	67	0.280	17.0	15/67	81.8	No
Arsenic	68	5.60	130	68/68	3.81	**Yes**
Barium	68	6.10	700	68/68	3.55×10^{4}	No
Beryllium	56	0.360	2.70	56/56	394	No
Cadmium	56	3.60×10^{-2}	0.210	19/56	197	No
Chromium	68	3.50	26.0	68/68	10.8	**Yes**
Cobalt	68	2.70	100	68/68	60.2	No
Copper	56	4.90	27.0	56/56	8.18×10^{3}	No
Iron	68	7.60×10^{3}	6.70×10^{4}	68/68	1.43×10^{5}	No
Lead	68	4.00	100	68/68	800	No
Manganese	68	37.0	2.70×10^{3}	68/68	1.39×10^{4}	No
Mercury	56	7.30×10^{-3}	6.00×10^{-2}	42/56	61.1	No
Nickel	56	6.20	42.0	56/56	3.77×10^{3}	No
Selenium	55	0.130	3.10	44/55	1.02×10^{3}	No
Thallium	56	0.110	0.320	56/56	20.4	No
Total Uranium[b]	68	0.380	24.0	68/68	611	No
Vanadium	68	5.20	270	68/68	1.24×10^{3}	No
Zinc	68	8.30	750	68/68	6.13×10^{4}	No

Table 2.13. Analytical Results Summary for Soil in Study Area C at PORTS (Continued)

Volatile/Semivolatile Organic Compounds	Total Samples	Min Value (mg/kg)	Max Value (mg/kg)	Ratio Detect/Total	Type 2 Industrial Screening Level[a] (mg/kg)	Exceeds Screening Level?
2-Butanone	61	2.30×10^{-3}	2.90×10^{-2}	1/61	2.84×10^{4}	No
Acenaphthene	56	5.80×10^{-2}	5.80×10^{-2}	1/56	818	No
Acetone	61	5.00×10^{-3}	0.150	6/61	1.06×10^{5}	No
Anthracene	56	0.140	0.140	1/56	818	No
Benz(a)anthracene	56	0.270	0.270	1/56	0.780	No
Benzene	61	4.90×10^{-4}	5.30×10^{-4}	2/61	7.04	No
Benzo(a)pyrene	56	0.220	0.220	1/56	0.780	No
Benzo(b)fluoranthene	56	0.400	0.400	1/56	0.780	No
Benzo(ghi)perylene	56	1.90×10^{-2}	0.150	2/56	818	No
Bis(2-ethylhexyl) phthalate	56	5.20×10^{-2}	1.20	8/56	409	No
Bromodichloromethane	61	8.10×10^{-4}	8.10×10^{-4}	1/61	1.77	No
Chloroform	61	4.70×10^{-4}	2.10×10^{-3}	1/61	1.90	No
Chrysene	56	0.270	0.270	1/56	0.780	No
Dibenzofuran	56	4.50×10^{-2}	4.50×10^{-2}	1/56	204	No
Dichloroethene, cis-1,2-	61	5.60×10^{-4}	5.60×10^{-4}	1/61	4.09×10^{2}	No
Ethylbenzene	61	7.50×10^{-4}	7.50×10^{-4}	1/61	35.7	No
Fluoranthene	56	0.760	0.760	1/56	818	No
Fluorene	56	6.20×10^{-2}	6.20×10^{-2}	1/56	818	No
Indeno(1,2,3-cd)pyrene	56	0.120	0.120	1/56	0.780	No
Methylene chloride	61	6.70×10^{-4}	2.80×10^{-3}	10/61	71.7	No
Pyrene	56	1.20×10^{-2}	0.590	5/56	818	No
Toluene	61	7.50×10^{-4}	3.80×10^{-3}	4/61	7.21×10^{3}	No
Total Xylene	61	9.90×10^{-4}	4.70×10^{-3}	5/61	348	No

Radionuclides	Total Samples	Min Value (pCi/g)	Max Value (pCi/g)	Ratio Detect/Total	Type 2 Industrial Screening Level[a] (pCi/g)	Exceeds Screening Level?
Americium-241	56	3.53×10^{-2}	6.51×10^{-2}	1/56	11.1	No
Uranium-233/234	94	0.496	9.69	94/94	56.5	No
Uranium-235	94	2.13×10^{-2}	0.450	74/94	0.867	No
Uranium-238	94	0.512	9.78	94/94	3.66	**Yes**

[a] Type 2 industrial screening levels are from Table 2 in the PORTS human health Risk Methods document (DOE 2013a). Only constituents that were detected and have a Type 2 screening value provided in the Risk Methods document are listed in the table.
[b] The "Total Uranium" analyses cannot be directly compared to isotopic uranium results. "Total Uranium" was determined by Method 6020 with a sample preparation that only includes a partial dissolution (nitric acid only) to determine the environmentally available metals. The isotopic uranium samples were analyzed using alpha spectroscopy where the sample preparation included a more aggressive dissolution process. Because of the sample preparation process, the alpha spectroscopy analyses yield greater uranium values.

DOE = U.S. Department of Energy
Max = maximum detected value
Min = minimum detected value
PORTS = Portsmouth Gaseous Diffusion Plant

Table 2.14. Analytical Results Summary for Soil in Study Area D at PORTS

Metals	**Total Samples**	**Min Value (mg/kg)**	**Max Value (mg/kg)**	**Ratio Detect/Total**	**Type 2 Industrial Screening Level[a] (mg/kg)**	**Exceeds Screening Level?**
Aluminum	97	1.10×10^{3}	1.90×10^{4}	97/97	1.90×10^{5}	No
Antimony	97	0.330	12	28/97	81.8	No
Arsenic	97	2.50	88.0	97/97	3.81	**Yes**
Barium	97	5.70	380	97/97	3.55×10^{4}	No
Beryllium	97	8.90×10^{-2}	1.60	97/97	394	No
Cadmium	97	3.60×10^{-2}	20.0	70/97	197	No
Chromium	97	3.10	25.0	97/97	10.8	**Yes**
Cobalt	97	1.00	28.0	97/97	60.2	No
Copper	97	2.80	66.0	97/97	8.18×10^{3}	No
Iron	97	8.10×10^{3}	1.40×10^{5}	97/97	1.43×10^{5}	No
Lead	97	5.50	70.0	97/97	800	No
Manganese	97	13.0	3.10×10^{3}	97/97	1.39×10^{4}	No
Mercury	97	5.90×10^{-3}	0.140	80/97	61.1	No
Nickel	97	5.00	220	97/97	3.77×10^{3}	No
Selenium	97	0.110	31.0	86/97	1.02×10^{3}	No
Silver	97	1.80×10^{-2}	1.80	25/97	1.02×10^{3}	No
Thallium	97	1.70×10^{-2}	12.0	97/97	20.4	No
Total Uranium[b]	97	0.210	23.0	97/97	611	No
Vanadium	97	5.10	300	97/97	1.24×10^{3}	No
Zinc	97	7.10	910	97/97	6.13×10^{4}	No

Volatile/Semivolatile Organic Compounds	**Total Samples**	**Min Value (mg/kg)**	**Max Value (mg/kg)**	**Ratio Detect/Total**	**Type 2 Industrial Screening Level[a] (mg/kg)**	**Exceeds Screening Level?**
2-Butanone	80	1.70×10^{-3}	3.70×10^{-2}	5/80	2.84×10^{4}	No
Acetone	80	5.20×10^{-3}	3.90×10^{-2}	10/80	1.06×10^{5}	No
Benzene	80	4.70×10^{-4}	1.40×10^{-2}	2/80	7.04	No
Bis(2-ethylhexyl) phthalate	77	5.30×10^{-2}	0.45	11/77	409	No
Methylene chloride	80	1.70×10^{-4}	6.50×10^{-3}	17/80	71.7	No
Total Xylene	80	6.7×10^{-4}	0.11	3/80	348	No

Table 2.14. Analytical Results Summary for Soil in Study Area D at PORTS (Continued)

Radionuclides	Total Samples	Min Value (pCi/g)	Max Value (pCi/g)	Ratio Detect/Total	Type 2 Industrial Screening Level[a] (pCi/g)	Exceeds Screening Level?
Americium-241	96	4.34×10^{-2}	4.42×10^{-2}	2/96	11.1	No
Plutonium-239/240	96	3.43×10^{-2}	5.02×10^{-2}	4/96	24.0	No
Uranium-233/234	118	0.343	9.26	118/118	56.5	No
Uranium-235	95	2.43×10^{-2}	0.435	67/95	0.867	No
Uranium-238	118	0.373	9.29	118/118	3.66	**Yes**

[a] Type 2 industrial screening levels are from Table 2 in the PORTS human health Risk Methods document (DOE 2013a). Only constituents that were detected and have a Type 2 screening value provided in the Risk Methods document are listed in the table.
[b] The "Total Uranium" analyses cannot be directly compared to isotopic uranium results. "Total Uranium" was determined by Method 6020 with a sample preparation that only includes a partial dissolution (nitric acid only) to determine the environmentally available metals. The isotopic uranium samples were analyzed using alpha spectroscopy where the sample preparation included a more aggressive dissolution process. Because of the sample preparation process, the alpha spectroscopy analyses yield greater uranium values.

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Min = minimum detected value
PORTS = Portsmouth Gaseous Diffusion Plant

The only analytes exceeding the Type 2 screening levels were arsenic, chromium, cobalt, and uranium-238. Arsenic was analyzed for in 175 samples, and 169 of those had concentrations that exceeded the Type 2 screening level of 3.81 mg/kg. A previous background study for PORTS (DOE 1996e) indicated Minford soils having a background arsenic value of 31 mg/kg, which is greater than the Type 2 screening value for arsenic (3.81 mg/kg). A new study to determine soil background values for PORTS was initiated in 2012. The new study will evaluate soil background in other geologic units in addition to the Minford soils. Chromium exceeded the Type 2 screening level in 155 of 175 samples. The Type 2 screening level for chromium is based on chromium (VI), which is considered a more toxic form, although the analytical method did not differentiate between chromium (VI) and chromium (III). Cobalt exceeded the Type 2 screening level in 2 of 175 samples. Study Areas B, C, and D also exhibited Type 2 screening level exceedances for uranium-238 in 13 samples.

Analytical results for 111 samples from the Minford member, collected from 14 boring locations, were compared to previously determined Minford soil background values. Background values were exceeded in 68 of the samples. The constituents that exceeded background values included aluminum, arsenic, barium, calcium, cobalt, iron, lead, magnesium, manganese, mercury, nickel, sodium, gross alpha, and gross beta. Constituents not exceeding background include beryllium, cadmium, chromium, copper, selenium, silver, thallium, total uranium, vanadium, and zinc.

Several organic compounds were sporadically detected at all four study areas. These included six detections of TCE at Study Area B, two detections of PCBs at Study Area A, a single detection of cis-1,2-dichloroethene at Study Area C, and occasional detections of PAHs at Study Areas A, B, and C. Many of the detections were estimated with a "J" validation qualifier. Common laboratory contaminants (e.g., acetone, 2-butanone, methylene chloride, and phthalates) were detected in several samples from all four locations. Appendix A contains the analytical data from the samples collected at the four study areas. Figures 2.31 through 2.33 provide the locations and maximum concentrations of VOCs detected in soil at each study area.

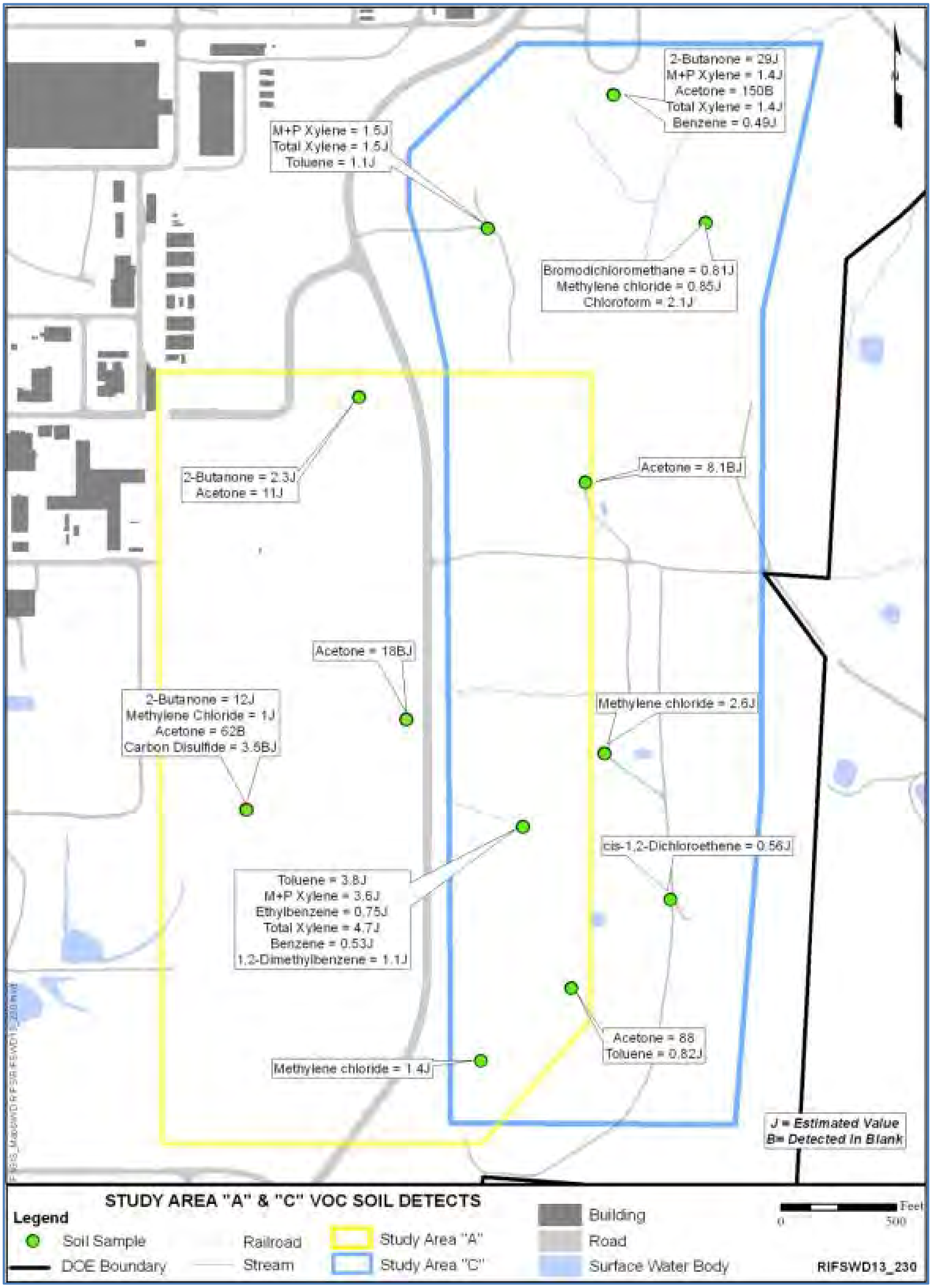


Figure 2.31. VOCs Detected in Soils at Study Area A and Study Area C

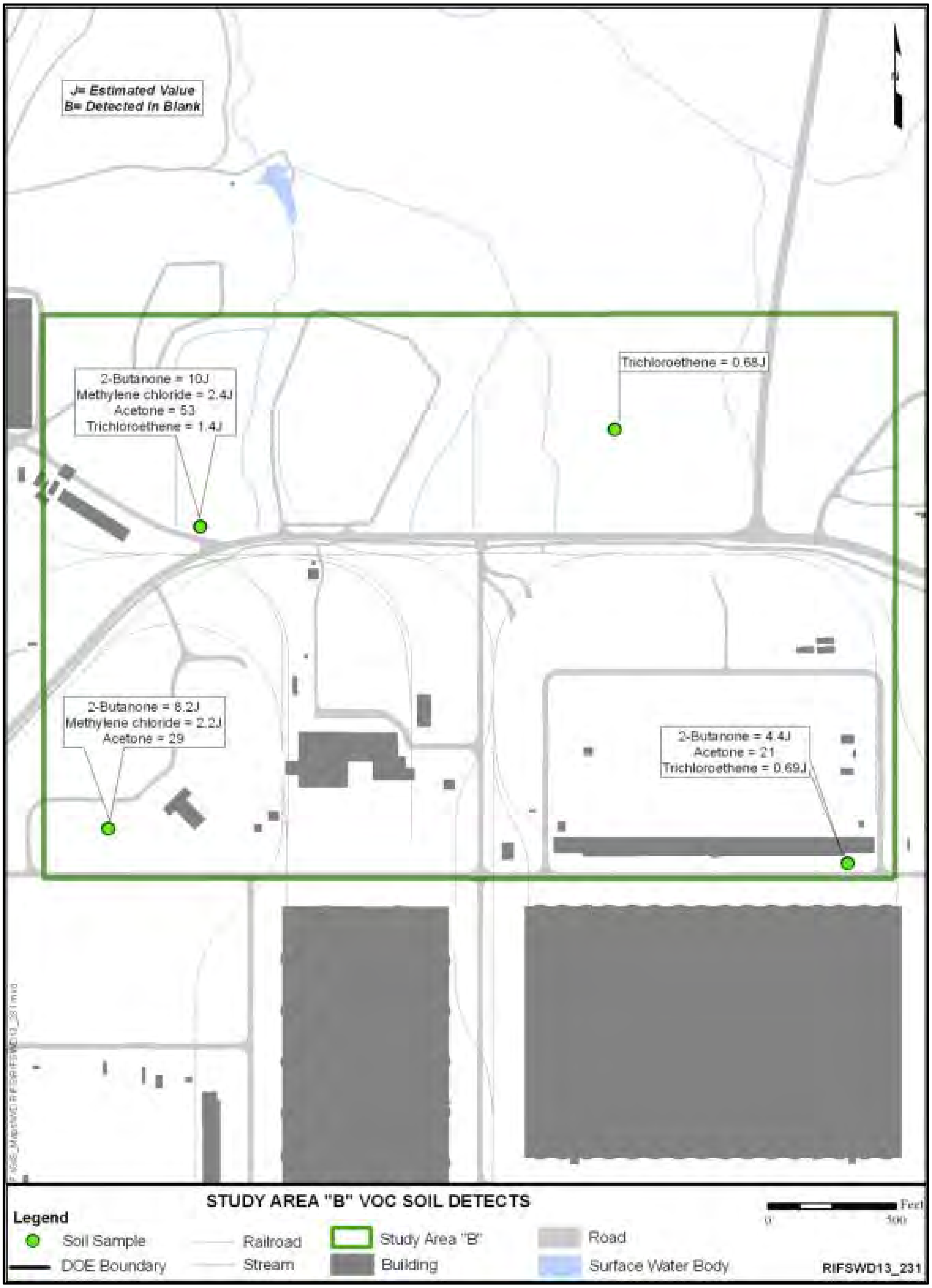


Figure 2.32. VOCs Detected in Soils at Study Area B

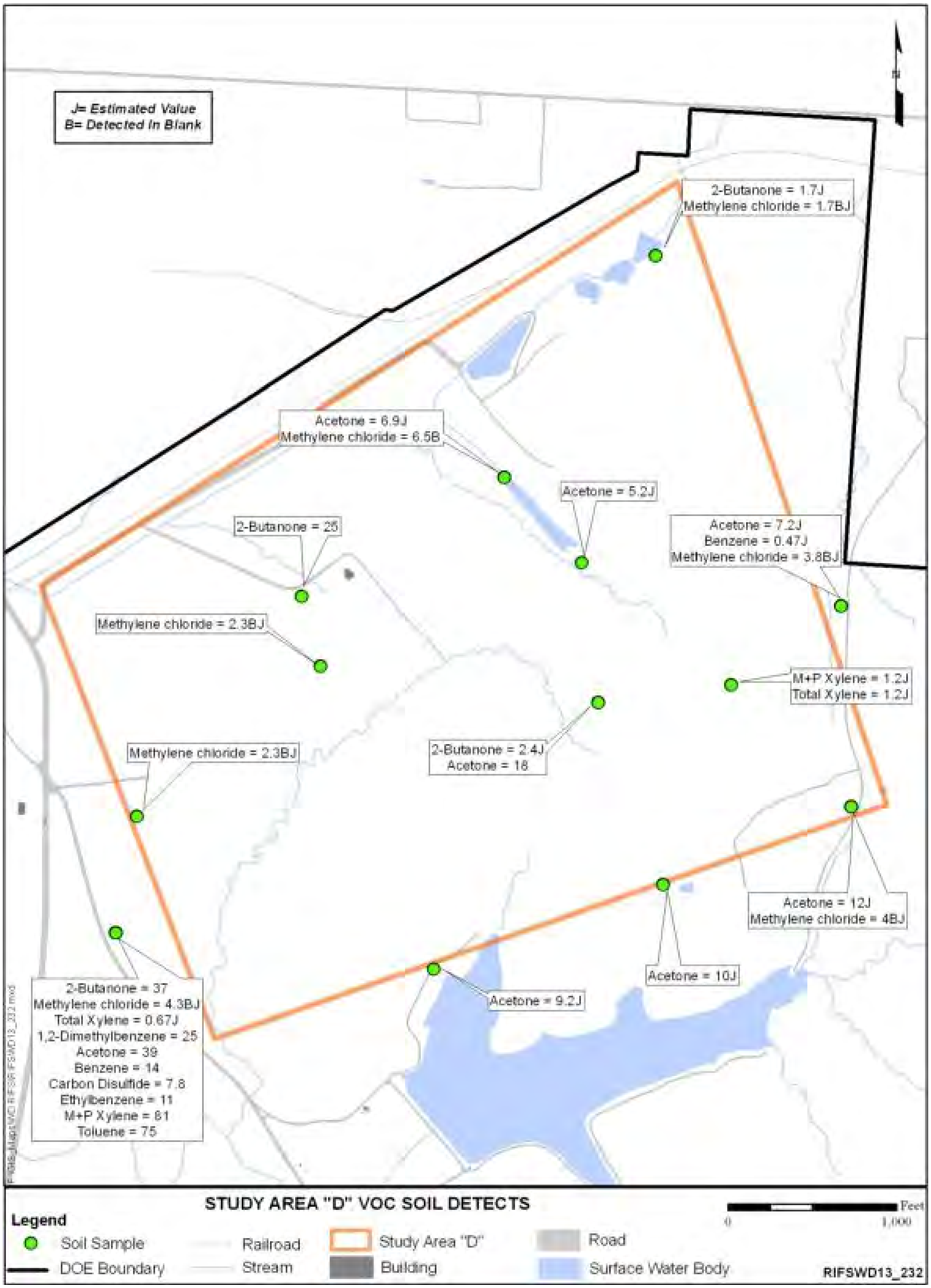


Figure 2.33. VOCs Detected in Soils at Study Area D

Geotechnical samples were collected to characterize the preliminary engineering properties (geotechnical properties) of the soil to allow an initial evaluation for the preliminary design of waste disposition alternatives. Most of the geotechnical samples were collected from the unconsolidated Minford/Gallia members of the Teays Formation and also the residual soils developed on bedrock.

Thirteen bedrock cores were also collected (primarily from the Cuyahoga Formation) for permeability and strength testing. Saturated vertical hydraulic conductivity was measured in all samples by using the flexible wall method. Tables 2.15 and 2.16 provide a summary of the vertical permeability results from the rock core samples.

Table 2.15. Vertical Saturated Hydraulic Conductivity Measurements for PORTS Rock Cores

Sample Station	Study Area	Depth (ft bgs)	Geologic Strata Sampled	Hydraulic Conductivity - Vertical (cm/s)	Hydraulic Conductivity - Vertical (ft/d)
WD-MW01B	C	128.0-129.0	Berea	4.40E-05	1.25E-01
WD-SB-07	A/C	50.0-51.0	Cuyahoga	2.50E-09	7.09E-06
WD-SB-07	A/C	62.7-63.7	Sunbury	4.30E-09	1.22E-05
WD-SB-09	A/C	58.5-59.5	Cuyahoga	1.20E-09	3.40E-06
WD-SB-09	A/C	96.5-97.5	Cuyahoga	1.60E-09	4.54E-06
WD-SB-29	D	19.0-20.0	Cuyahoga (680-ft sandstone)	1.40E-06	3.97E-03
WD-SB-29	D	23.0-24.0	Cuyahoga	8.10E-10	2.30E-06
WD-SB-29	D	62.7-64.0	Sunbury	4.00E-10	1.13E-06
WD-SB-31	D	54.0-55.0	Cuyahoga	3.20E-07	9.07E-04
WD-SB-31	D	67.0-68.0	Cuyahoga (680-ft sandstone)	1.80E-07	5.10E-04
WD-SB-31	D	87.0-88.0	Cuyahoga	3.70E-10	1.05E-06
WD-SB-31	D	110.0-111.0	Sunbury	8.60E-09	2.44E-05
WD-SB-31	D	131.0-132.0	Berea	3.20E-05	9.07E-02

bgs = below ground surface

Table 2.16. Summary of Vertical Saturated Hydraulic Conductivity and Porosity Measurements for PORTS Rock Cores

Geologic Unit	Minimum (ft/d)	Maximum (ft/d)	Mean (ft/d)	Mean Porosity (%)	Number of Samples
Cuyahoga (shale)	1.05E-06	9.07E-04	1.54E-04	14.1	6
Cuyahoga (sandstone layer)	5.10E-04	3.97E-03	2.24E-03	18.0	2
Sunbury	1.13E-06	2.44E-05	1.26E-05	12.8	3
Berea	9.07E-02	1.25E-01	1.08E-01	20.5	2

Geotechnically, the unconsolidated soils consist primarily of over-consolidated lean clays and silts. A summary of the Atterberg limits from samples collected during this RI/FS is provided in Figure 2.34. This plot indicates the geotechnical properties of the unconsolidated soils (Minford silt and clay plus regolith overlying bedrock) are similar across the study areas with most results classified as inorganic clays of medium plasticity. The results for the regolith at Study Area D appear to have less variability than those at Study Area A, but the data are limited. The plastic limits of the soils are relatively constant with depth and average about 23 percent.

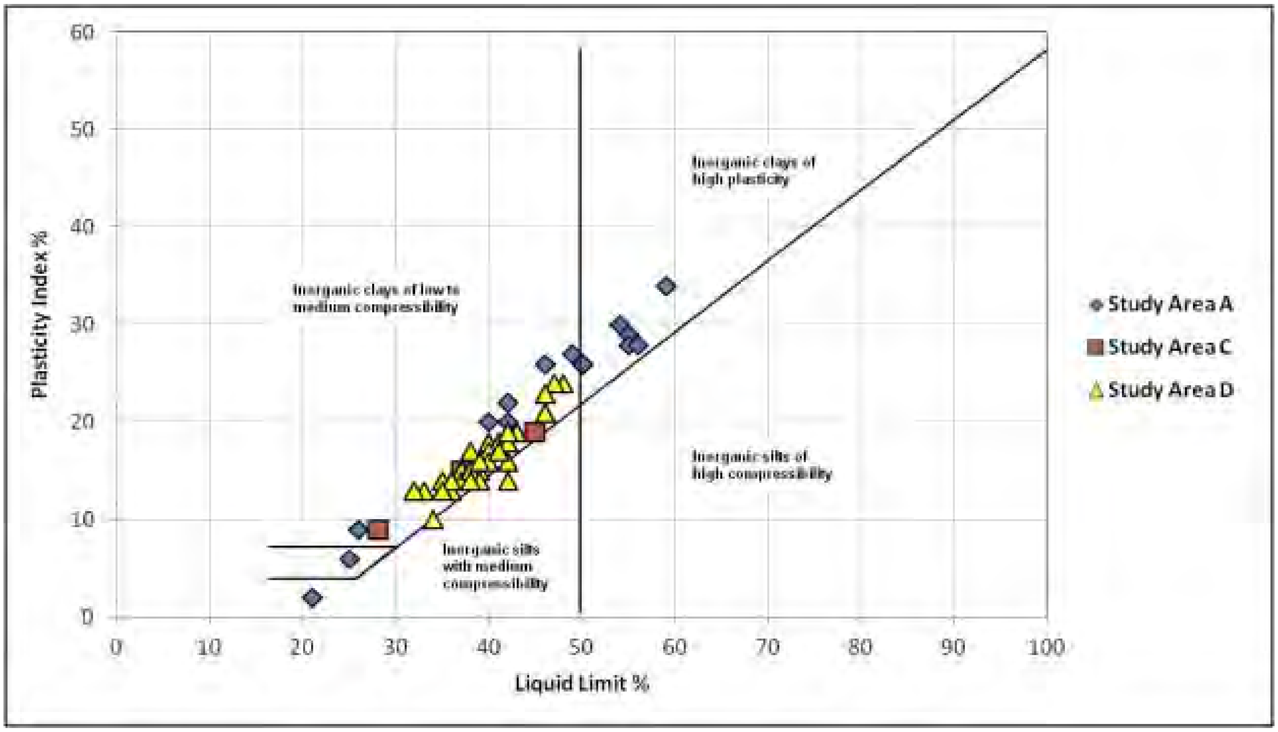


Figure 2.34. Atterberg Limits of Unconsolidated Soils Investigated in the RI/FS for PORTS

Moisture content is shown in Figure 2.35. The moisture content is typically higher in the soils at Study Area A (Minford) than in the soils at Study Areas C and D (regolith). There is a weak correlation of moisture content decreasing with depth (Figure 2.36), but the trend is not consistent in all borings.

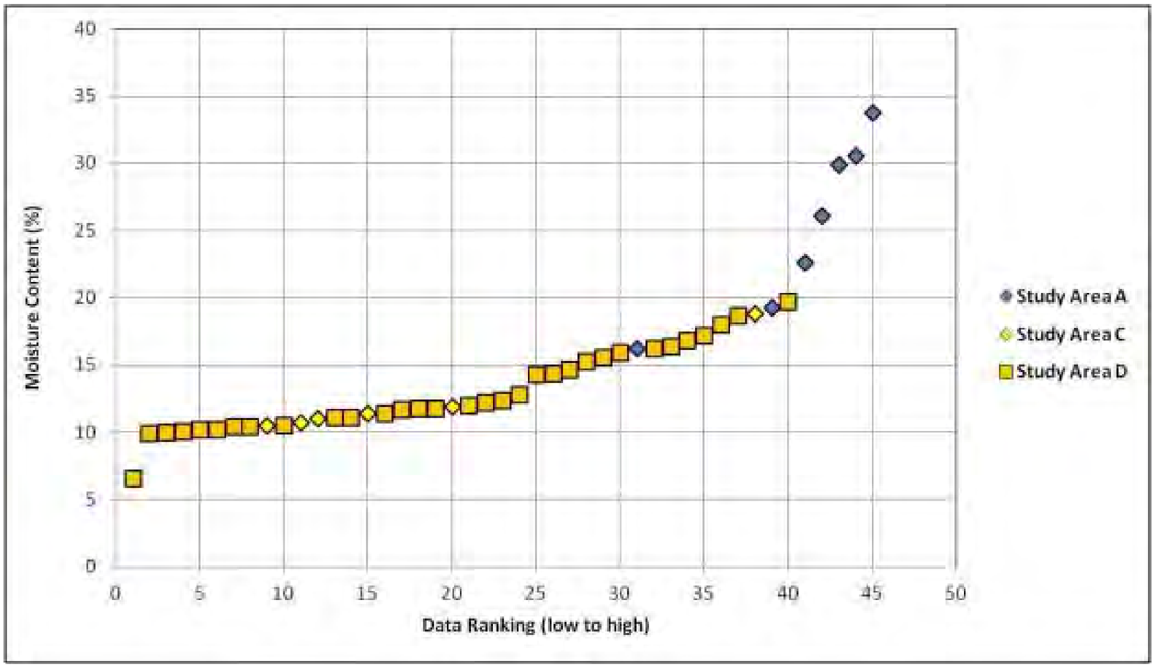


Figure 2.35. Moisture Content of Soils Investigated in the RI/FS for PORTS

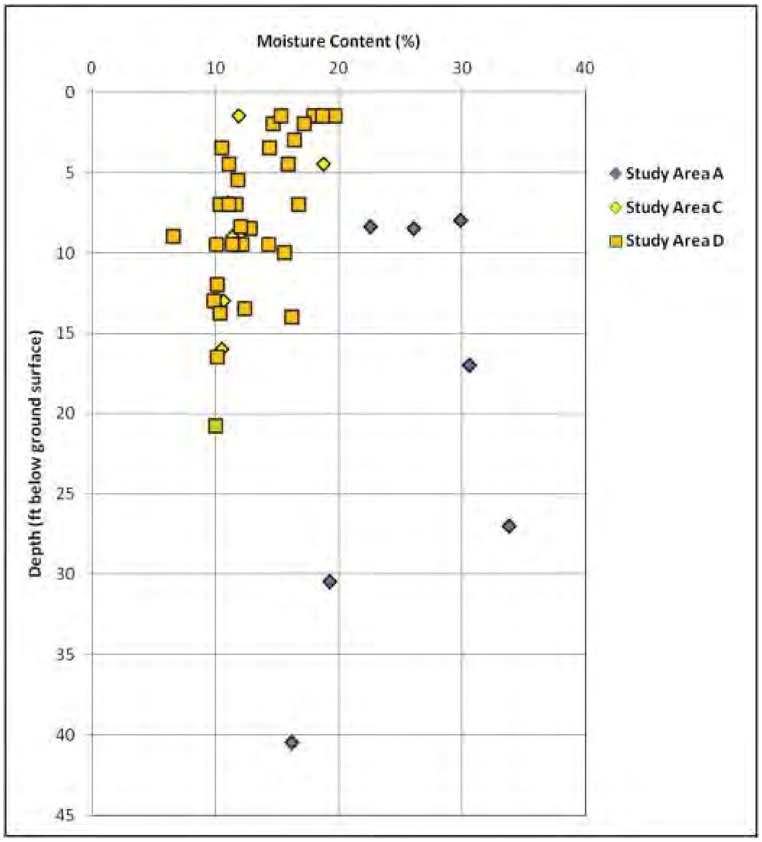


Figure 2.36. Moisture Content of Soils and Depth Below Ground Surface at PORTS

2.2.2.3 Surface water investigation

The approved Geotechnical SAP did not include any investigation of surface water. However, an Ohio EPA comment recommended a reconnaissance survey in Study Area D to determine if any seeps or springs are present and contributing to surface water in that area. A field change order was made to document the addition of a limited surface water investigation. An evaluation of two well-defined, intermittent/ephemeral tributaries was initiated in December 2011 to look for seeps and springs. Both of the intermittent streams are shown on U.S. Geological Survey 1:24,000 topographic maps. One of the streams runs southwest near the X-114A New Firing Range and discharges into Little Beaver Creek while the other runs north along the DOE property boundary and discharges into Big Beaver Creek.

Figure 2.37 shows the location of 56 seeps identified in Study Area D. Table 2.17 provides the seep locations and elevations. Eight seep locations were monitored over a 12-week period from mid-December 2011 through early March 2012 to evaluate seepage rates. Table 2.18 provides estimated flow rates for these eight seeps as well as their estimated elevations. Seeps OSDC-SP-4 and OSDC-SP-6, while recognized based on amount of soil moisture, did not have measurable flow rates. Seep OSDC-SP-8, located on the tributary valley east of Study Area D, had the greatest observed flow. These seeps appear ephemeral in nature and primarily occur as interflow and/or throughflow (i.e., subsurface stormflow) following precipitation events. Water that infiltrates into the regolith migrates laterally a relatively short distance and discharges on hillsides as ephemeral seeps (throughflow returning as wet weather conveyances) or directly into streams (interflow). The data indicates little seepage unless rainfall has occurred within a few days of measurement. Significant rainfall (> 0.5 in. over a 24-hour period) occurred prior to measurements on December 22, 2011; December 29, 2011; January 19, 2012; and March 1, 2012.

Based on the variability of the seep elevations, most of the seeps do not appear to be associated with any particular sandstone lenses or layers but are generally found at the interface above the weathered bedrock surface. In some instances, groundwater may discharge either from sandstone lenses or bedding plane partings in the weathered bedrock to create seeps along the hillside. Of the 56 seeps identified to date, fewer than 10 appear to be related to specific sandstone layers (either the 720-ft sandstone lenses or the 680-ft sandstone layer).

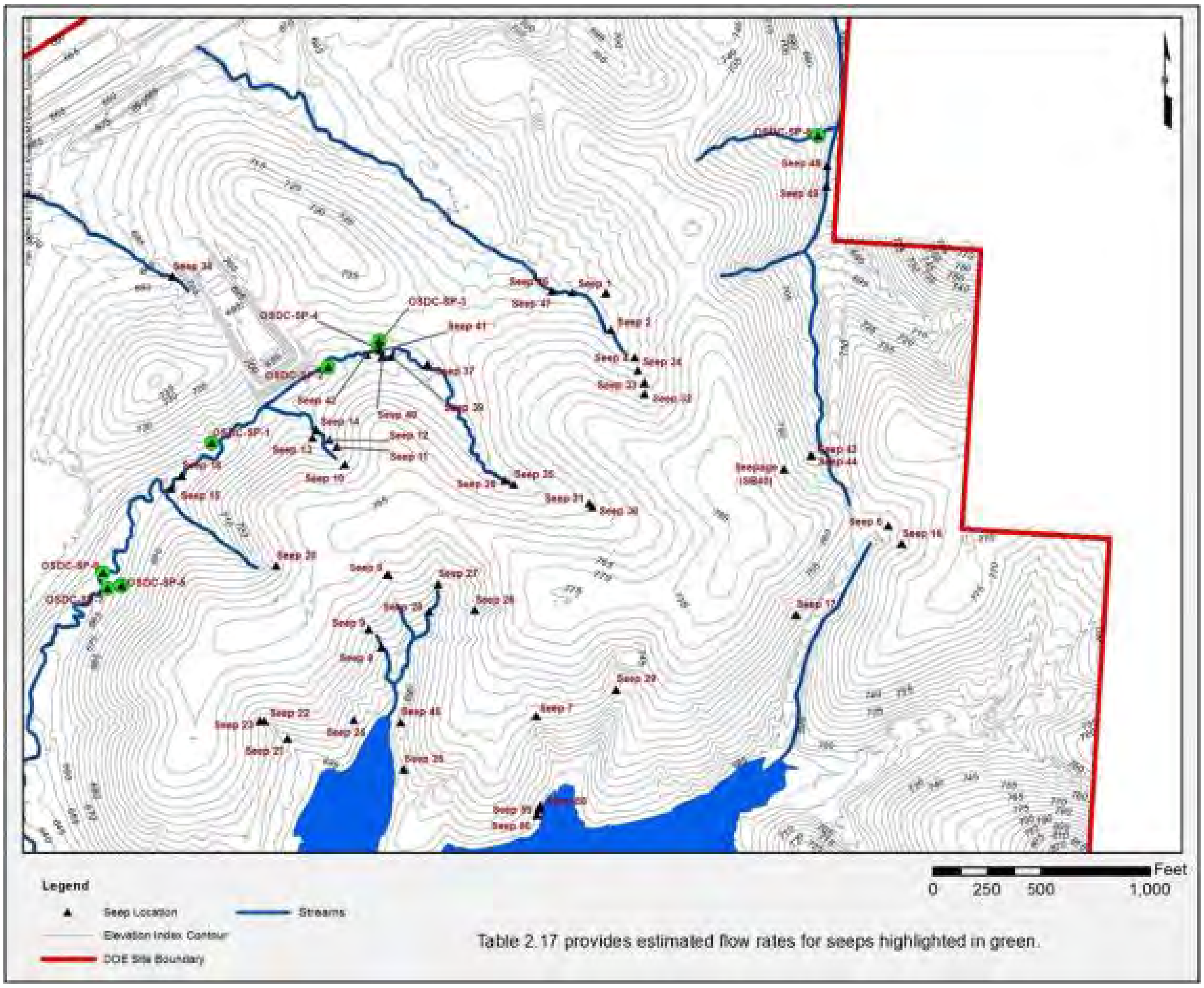


Table 2.17 provides estimated flow rates for seeps highlighted in green.

Figure 2.37. Seeps Identified at Study Area D

Table 2.17. Seep Locations and Elevations

Seep ID	State Plane-Easting	State Plane-Northing	Elevation (ft AMSL)
seep 1	1,831,765.0	377,786.3	719.6
seep 2	1,831,786.2	377,619.4	723.2
seep 3	1,831,896.4	377,491.7	733.1
seep 4	1,832,796.7	376,973.4	734.1
seep 5	1,833,067.2	376,713.9	745.1
seep 7	1,831,442.1	375,836.5	724.5
seep 8	1,830,726.9	376,153.0	703.1
seep 9	1,830,669.5	376,235.0	719.2
seep 10	1,830,560.2	376,995.3	729.5
seep 11	1,830,522.6	377,079.7	719.4
seep 12	1,830,487.0	377,111.5	713.1

Table 2.17. Seep Locations and Elevations (Continued)

Seep ID	State Plane-Easting	State Plane-Northing	Elevation (ft AMSL)
seep 13	1,830,411.7	377,119.5	708.6
seep 14	1,830,428.5	377,156.1	706.9
seep 15	1,829,762.6	376,886.3	673.1
seep 16	1,833,127.5	376,630.7	751.3
seep 17	1,832,640.9	376,302.9	732.4
seep 18	1,829,808.6	376,943.9	675.6
seep 19	1,830,757.9	376,488.8	738.2
seep 20	1,830,245.0	376,529.2	729.2
seep 21	1,830,299.7	375,733.5	695.6
seep 22	1,830,191.5	375,810.9	707.9
seep 23	1,830,171.9	375,811.3	711.1
seep 24	1,830,601.1	375,817.5	694.1
seep 25	1,830,832.6	375,590.7	691.7
seep 26	1,831,158.5	376,325.3	734.3
seep 27	1,830,988.1	376,444.5	722.9
seep 28	1,830,947.3	376,316.5	706.0
seep 29	1,831,810.4	375,958.1	726.8
seep 30	1,831,702.5	376,798.8	745.0
seep 31	1,831,685.4	376,818.3	742.5
seep 32	1,831,942.6	377,322.4	743.5
seep 33	1,831,942.5	377,372.8	740.2
seep 34	1,831,913.0	377,432.6	735.2
seep 35	1,831,338.1	376,902.8	730.6
seep 36	1,831,296.5	376,925.0	724.0
seep 37	1,830,942.6	377,458.3	709.3
seep 38	1,829,766.4	377,864.9	685.1
seep 39	1,830,776.4	377,495.3	703.6
seep 40	1,830,730.8	377,491.8	704.2
seep 41	1,830,724.6	377,525.4	702.2
seep 42	1,830,660.7	377,504.1	699.5
seep 43	1,832,585.6	376,973.5	757.4
seep 44	1,832,711.8	377,041.3	734.2
seep 45	1,830,816.0	375,807.6	687.6
seep 46	1,831,609.2	377,790.7	710.9
seep 47	1,831,513.7	377,797.6	707.4
seep 48	1,832,785.3	378,373.8	662.9
seep 49	1,832,782.4	378,281.1	665.8
OSDC-SP-1	1,829,947.4	377,095.5	685.0
OSDC-SP-2	1,830,482.1	377,446.2	695.9
OSDC-SP-3	1,830,720.6	377,567.3	706.3
OSDC-SP-4	1,830,712.3	377,537.0	701.9

Table 2.17. Seep Locations and Elevations (Continued)

Seep ID	State Plane-Easting	State Plane-Northing	Elevation (ft AMSL)
OSDC-SP-5	1,829,533.5	376,438.1	670.4
OSDC-SP-6	1,829,448.0	376,498.7	662.0
OSDC-SP-7	1,829,467.1	376,425.7	663.0
OSDC-SP-8	1,832,741.9	378,515.4	674.0

AMSL = above mean sea level
ID = identification

Table 2.18. Study Area D Groundwater Seeps with Estimated Flow Rate

Date	OSDC-SP-1 (gal/min)	OSDC-SP-2 (gal/min)	OSDC-SP-3 (gal/min)	OSDC-SP-4 (gal/min)	OSDC-SP-5 (gal/min)	OSDC-SP-6 (gal/min)	OSDC-SP-7 (gal/min)	OSDC-SP-8 (gal/min)
12/14/2011	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01
12/22/2011	0.08	0.20	0.01	0.00	0.04	0.00	0.03	1.11
12/29/2011	0.07	0.18	0.03	0.00	0.03	0.00	0.03	1.19
1/19/2012	0.06	0.12	0.00	0.00	0.05	0.00	0.01	0.82
1/31/2012	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.22
3/1/2012	0.00	0.26	0.00	0.00	0.05	0.00	0.02	1.74
3/6/2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
Average Flow Rate	**0.03**	**0.11**	**0.01**	**0.00**	**0.02**	**0.00**	**0.01**	**0.78**
Estimated Elevation (ft AMSL)	685	696	706	702	670	662	663	674

AMSL = above mean sea level

On April 9-10, 2012, a Level 1 Assessment of the physical habitat and geomorphic characteristics of several streams in Study Area D was performed by DOE. A total of eight Primary Headwater Habitat (PHWH) stream systems were initially identified during the Level 1 Assessment with a total of 22 individual streams present within Study Area D (Figure 2.38). The stream discussed above, south and southwest of the X-114A New Firing Range (Stream 1 in Figure 2.38), was classified as a probable Class III PHWH in a 1,672-ft reach downstream of the firing range. The rest of the stream within Study Area D, approximately 1,250 ft, was preliminarily identified in the study as a Class II interstitial PHWH stream system. Because of the potential presence of Class III PHWH streams in Study Area D, a Level 2 Assessment was performed to support a final determination of stream classification.

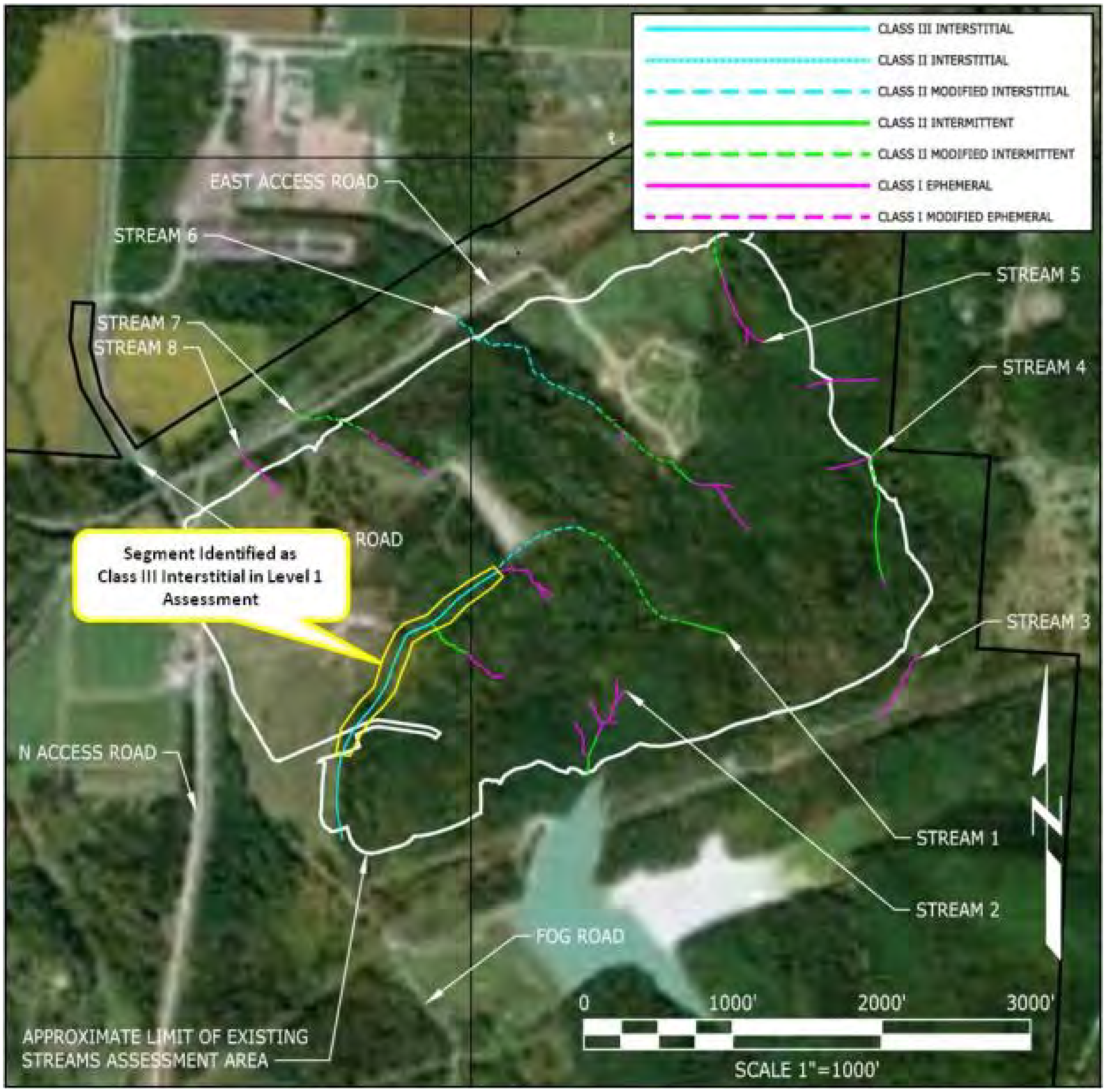


Figure 2.38. Stream Valleys Evaluated for Physical Habitat During a Level 1 Assessment at Study Area D

A more detailed assessment was performed in 2013. Stream assessments were conducted using methods described in Ohio EPA's *Field Evaluation Manual for Ohio's Primary Headwater Habitat Streams* (Version 3.0) (Ohio EPA 2012b) and *Methods for Assessing Habitat in Flowing Waters: Using the Qualitative Habitat Evaluation Index (QHEI)* (Ohio EPA 2006a). These assessments consisted of first conducting detailed physical assessments of each stream feature surveyed, including basic water quality measurements, global positioning system data, and photographs. The assessed reach of each stream was selected on the basis of a representative habitat location, excluding external influences such as culverts or tributaries. If streams showed significant changes in physical conditions throughout the length, an assessment was conducted in two locations.

Stream sites meeting specific habitat conditions (as defined in the Ohio EPA manuals) or observed to host larval salamanders were further assessed for biological communities by using a Level 2 or 3 Assessment. A Level 2 Assessment (Headwater Macroinvertebrate Field Evaluation Index [HMFEI]) was performed on the basis of location habitat characteristics that included a natural or recovered channel; stream flowing at the time of assessment; 10 percent or greater amount of cobble, bedrock, boulder or boulder slabs substrate; and a headwater habitat evaluation index score between 50 and 70. Level 3 Assessment included the salamander Visual Encounter Survey and Lowest Taxonomic Level Analysis for benthic invertebrates and was conducted at locations that exhibited Class III PHWH characteristics. This level of assessment positively differentiates between Class IIIA and IIIB communities.

Table 2.19 lists the 38 streams that were identified in Study Area D. One stream is a U.S. Geological Survey-named feature (Little Beaver Creek), and the remaining ones are unnamed tributaries to either Little Beaver Creek (23 streams) or Big Beaver Creek (14 streams). Ten streams were assessed using the HMFEI, including six that had a Level 3 Assessment. Little Beaver Creek has a Warmwater Habitat classification. Three reaches in Study Area D have a Class IIIA designation (UT 7, UT 9, and UT 36). All other streams were classified as lower to moderate quality Class I and Class II PHWHs. Figure 2.39 presents the locations and classifications of the various streams. It should be noted that there were no coldwater fish, salamanders, macroinvertebrate assemblages, or HMFEI scores that would indicate coldwater habitat. There were also no obvious field indicators of a predominantly groundwater influence. In conclusion, there are no streams in the study area that have been assigned a provisional Class IIIB PHWH classification. However, if Study Area D is selected for a potential OSDC, there are streams that lie within 200 ft of proposed waste boundaries.

A wetlands study was completed for Study Area D. The wetlands survey was conducted using methods described in the U.S. Army Corps of Engineers'(USACE's) *Corps of Engineers Wetland Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region* (Version 2.0). The approach is presented in DOE (2013b). Potential wetlands were identified in the field and then assessed using the Ohio Rapid Assessment Method for Wetlands, (Version 5.0). The locations and categories of the identified wetlands are presented in Figure 2.40. A list of the 24 wetlands is presented in Table 2.20.

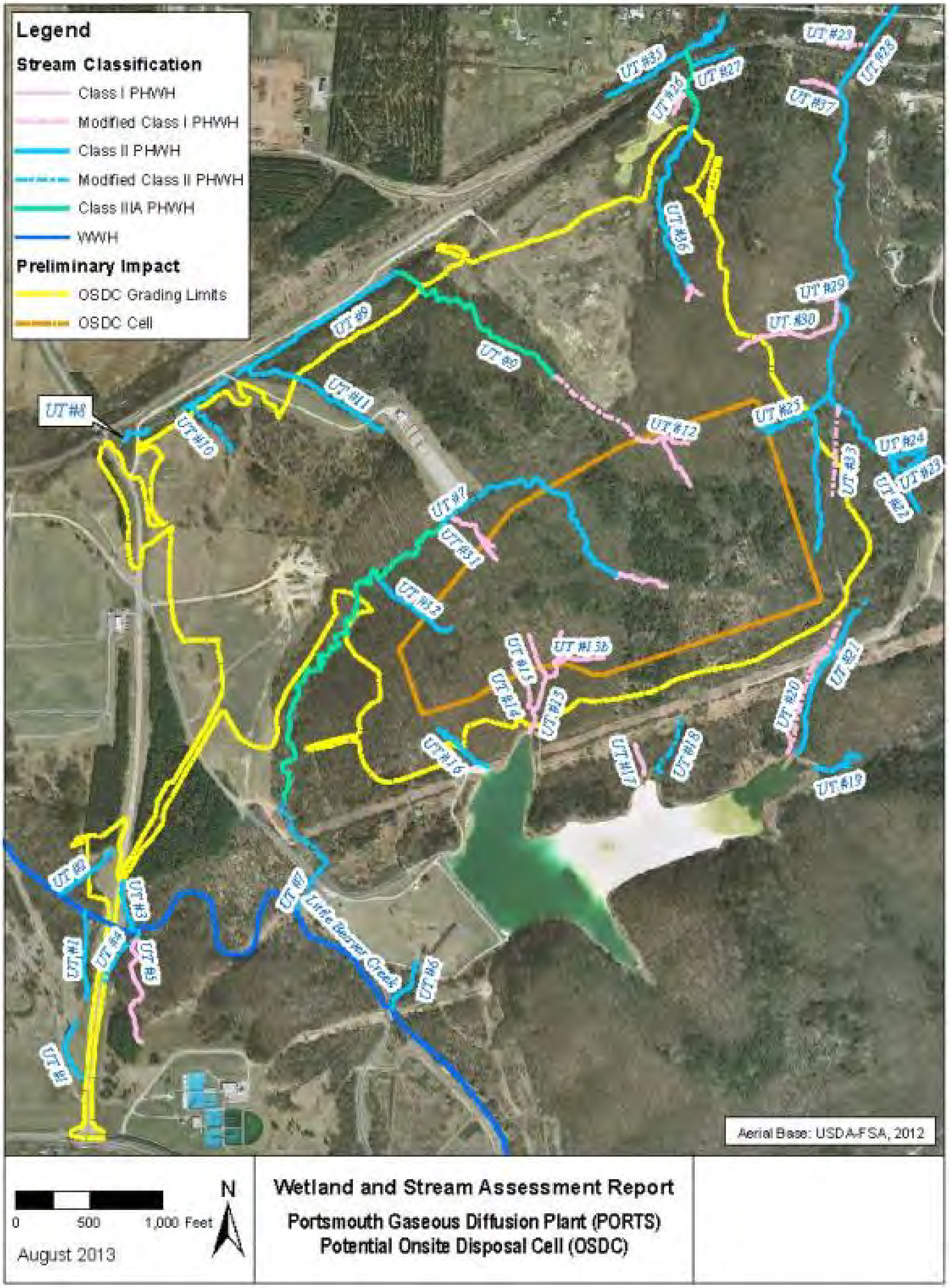
Table 2.19. Overview of Streams in Study Area D

Stream Name/ID	Receiving Waters	Total Length within Study Area (linear ft)	Stream Hydrology Type	USACE Flow Characteristics	Ohio EPA PHWH Class or Aquatic Life Use Designation (may be provisional based on qualitative data)
Unnamed Tributary #1 / S01	Little Beaver Creek	1,034	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #2 / S02	Little Beaver Creek	464	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #3 / S03	Little Beaver Creek	383	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #4 / S04	Little Beaver Creek	493	Intermittent	Relatively Permanent Water – Seasonal	Modified Class II PHWH
Unnamed Tributary #5 / S05	UT #4	804	Intermittent	Relatively Permanent Water – Seasonal	Class I PHWH
Unnamed Tributary #6 / S06	Little Beaver Creek	389	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #7 / S07A	Little Beaver Creek	1,003	Intermittent	Relatively Permanent Water – Seasonal	Modified Class II PHWH
Unnamed Tributary #7 / S07B	Little Beaver Creek	335	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #7 / S07C	Little Beaver Creek	1,119	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #7 / S07D	Little Beaver Creek	414	Intermittent	Relatively Permanent Water – Seasonal	Class I PHWH
Unnamed Tributary #7 / S07E	Little Beaver Creek	348	Intermittent	Relatively Permanent Water – Seasonal	Modified Class II PHWH
Unnamed Tributary #7 / S07F/G	Little Beaver Creek	3,040	Intermittent	Relatively Permanent Water – Seasonal	Class IIIA PHWH
Unnamed Tributary #8 / S08	UT #9	62	Intermittent	Relatively Permanent Water – Seasonal	Modified Class II PHWH
Unnamed Tributary #9 / S09A	UT to Little Beaver Creek	1,982	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #9 / S09B	UT to Little Beaver Creek	1,546	Intermittent	Relatively Permanent Water – Seasonal	Class IIIA PHWH
Unnamed Tributary #9 / S09C	UT to Little Beaver Creek	762	Intermittent	Relatively Permanent Water – Seasonal	Modified Class I PHWH
Unnamed Tributary #9 / S09D	UT to Little Beaver Creek	550	Intermittent	Relatively Permanent Water – Seasonal	Class I PHWH
Unnamed Tributary #10 / S10	UT #9	502	Intermittent	Relatively Permanent Water – Seasonal	Modified Class II PHWH
Unnamed Tributary #11 / S11	UT #9	1,116	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #12 / S12	UT #9	221	Ephemeral	Non-Relatively Permanent Water	Class I PHWH
Unnamed Tributary #13 / S13	Reservoir/UT #6	1,157	Ephemeral	Non-Relatively Permanent Water	Class I PHWH
Unnamed Tributary #14 / S14	UT #13	348	Ephemeral	Non-Relatively Permanent Water	Class I PHWH
Unnamed Tributary #15 / S15	UT #13	316	Ephemeral	Non-Relatively Permanent Water	Class I PHWH
Unnamed Tributary #16 / S16	Reservoir/UT #6	532	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #17 / S17	Reservoir/UT #6	221	Ephemeral	Non-Relatively Permanent Water	Class I PHWH
Unnamed Tributary #18 / S18	Reservoir/UT #6	434	Intermittent	Relatively Permanent Water – Seasonal	Modified Class II PHWH
Unnamed Tributary #19 / S19	Reservoir/UT #6	433	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #20 / S20	Reservoir/UT #6	1,057	Ephemeral	Non-Relatively Permanent Water	Modified Class I PHWH
Unnamed Tributary #21 / S21	Reservoir/UT #6	1,106	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH

Table 2.19. Overview of Streams in Study Area D (Continued)

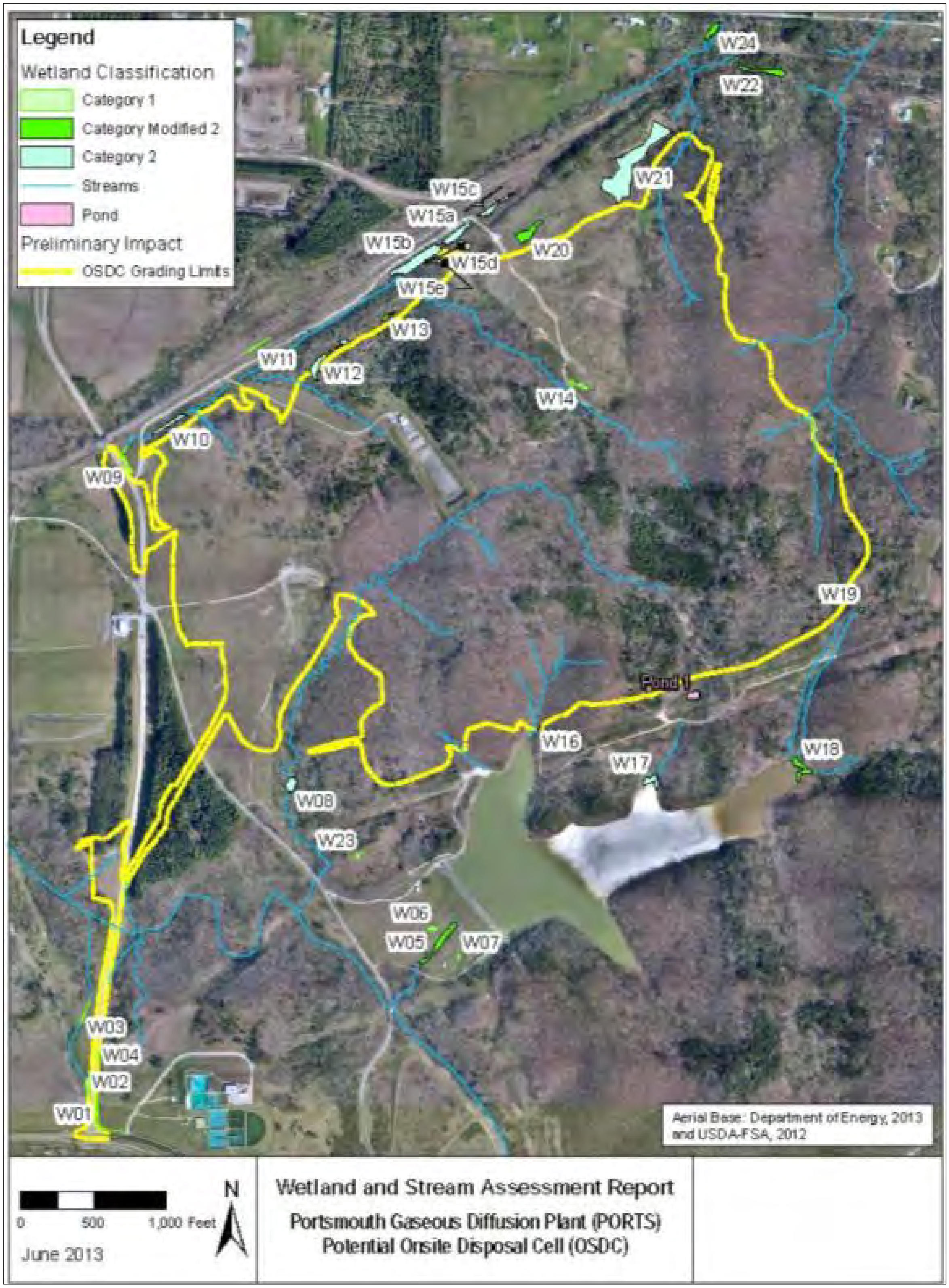
Stream Name/ID	Receiving Waters	Total Length within Study Area (linear ft)	Stream Hydrology Type	USACE Flow Characteristics	Ohio EPA PHWH Class or Aquatic Life Use Designation (may be provisional based on qualitative data)
Unnamed Tributary #22 / S22	UT #28	1,094	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #23 / S23	UT #22	331	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #24 / S24	UT #22	280	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #25 / S25	UT #28	458	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #26 / S26	UT #36	180	Ephemeral	Non-Relatively Permanent Water	Class I PHWH
Unnamed Tributary #27 / S27	UT #36	324	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #28 / S28	Big Beaver Creek	4,566	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #29 / S29	UT #28	138	Ephemeral	Non-Relatively Permanent Water	Class I PHWH
Unnamed Tributary #30 / S30	UT #28	879	Ephemeral	Non-Relatively Permanent Water	Class I PHWH
Unnamed Tributary #31 / S31	UT #7	609	Ephemeral	Non-Relatively Permanent Water	Class I PHWH
Unnamed Tributary #32 / S32	UT #7	651	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #33 / S33	UT #22	611	Ephemeral	Non-Relatively Permanent Water	Modified Class I PHWH
Unnamed Tributary #34 / S34	UT #28	295	Ephemeral	Non-Relatively Permanent Water	Modified Class I PHWH
Unnamed Tributary #35 / S35	Big Beaver Creek	1,136	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #36 / S36A	UT #35	517	Intermittent	Relatively Permanent Water – Seasonal	Class IIIA PHWH
Unnamed Tributary #36 / S36B	UT #35	1,503	Intermittent	Relatively Permanent Water – Seasonal	Class II PHWH
Unnamed Tributary #36 / S36A	UT #35	226	Intermittent	Relatively Permanent Water – Seasonal	Class I PHWH
Unnamed Tributary #37 / S37	UT #28	294	Ephemeral	Non-Relatively Permanent Water	Class I PHWH
Little Beaver Creek / S38	Scioto River	678	Perennial (supraficial)	Relatively Permanent Water –Perennial	WWH

ID = identification
Ohio EPA = Ohio Environmental Protection Agency
PHWH = primary headwater habitat
USACE = U.S. Army Corps of Engineers
UT = unnamed tributary
WWH = Warmwater Habitat



Source: DOE 2013b

Figure 2.39. Identified Stream Segments in the Potential OSDC Study Area



Source: DOE 2013b

Figure 2.40. Provisional Wetland Classifications and OSDC Grading/Construction Limits

Table 2.20. Wetlands Present in Study Area D

Wetland ID	Total Size (ac)	Provisional Category	Dominant Community	Estimated Hydroperiod
W01	0.048	1	Palustrine-Emergent Wetland Persistent	Seasonally Flooded
W02	0.046	1	Palustrine-Emergent Wetland Persistent	Seasonally Flooded
W03	0.022	1	Palustrine-Emergent Wetland Persistent	Seasonally Flooded
W04	0.009	1	Palustrine-Emergent Wetland Persistent	Saturated
W05	0.198	Modified 2	Palustrine-Emergent Wetland Persistent	Semipermanently Flooded
W06	0.032	1	Palustrine-Emergent Wetland Nonpersistent	Saturated
W07	0.001	1	Palustrine-Emergent Wetland Nonpersistent	Saturated
W08	0.117	2	Palustrine-Emergent Wetland Persistent	Semipermanently Flooded
W09	0.04	1	Palustrine-Emergent Wetland Persistent	Seasonally Flooded
W10	0.118	2	Palustrine-Emergent Scrub-Shrub Wetland Persistent	Semipermanently Flooded
W11	0.017	1	Palustrine-Emergent Wetland Nonpersistent	Saturated
W12	0.207	2	Palustrine-Forested/Emergent Wetland	Seasonally Flooded
W13	0.026	Modified 2	Palustrine-Forested/Emergent Wetland	Seasonally Flooded
W14	0.048	1	Palustrine-Emergent Wetland Persistent	Temporarily Flooded
W15 (a-e)	0.969	2	Palustrine-Emergent Scrub-Shrub Wetland Persistent	Semipermanently Flooded
W16	0.005	Modified 2	Palustrine-Emergent Wetland Persistent	Seasonally Flooded
W17	0.11	2	Palustrine-Emergent Wetland Persistent	Intermittently Exposed
W18	0.157	Modified 2	Palustrine-Emergent Wetland Persistent	Intermittently Exposed
W19	0.02	2	Palustrine-Emergent Wetland Persistent	Seasonally Flooded
W20	0.201	Modified 2	Palustrine-Emergent/Scrub-Shrub Wetland Persistent	Temporarily Flooded
W21	1.476	2	Palustrine-Emergent/Aquatic Bed Wetland Persistent	Intermittently Exposed
W22	0.215	Modified 2	Palustrine-Emergent/Scrub-Shrub Wetland Persistent	Seasonally Flooded
W23	0.022	1	Palustrine-Emergent Wetland Persistent	Saturated
W24	0.095	Modified 2	Palustrine-Emergent Wetland Persistent	Temporarily Flooded

ID = identification

Wetlands assigned to Category 1 support minimal wildlife habitat and minimal hydrological and recreational functions. They do not provide critical habitat for threatened or endangered species or contain rare, threatened, or endangered species. Such wetlands are categorized as “limited quality waters” under the Ohio EPA antidegradation rule, *OAC* 3745-1-05. Wetlands assigned to Category 2 support moderate wildlife habitat or hydrological or recreational functions and may include wetlands dominated by native species, but generally without the presence of, or habitat for, rare, threatened, or endangered species. No Category 3 wetlands, which have a higher quality, were found.

2.2.2.4 Test pits

One deviation from the Geotechnical SAP was the addition of two test pits in Study Area D. To facilitate observation of existing bedrock fracturing and depth of weathering in the Cuyahoga Formation, and to document the rippability of the bedrock, a test pit was excavated in Study Area D. To minimize the disturbance of bedrock features, a rock trencher was used at Test Pit 1 to cut two vertical trenches in the bedrock (Cuyahoga shale) prior to excavating the rock between the trenches. Two parallel, 50-ft-long trenches were initially cut into the exposed rock surface to a depth of 4 ft. The trenches were 15 ft apart and ran in an east-west direction. A bulldozer was initially used to rip the 2-ft-thick sandstone, which was at the surface in the trench area; however, the equipment could not penetrate deep enough to remove the sandstone. A large excavator was used to dig out the 2-ft-thick sandstone layer. The bulldozer was used to remove the shale in 6- to 12-in. increments, using only the blade. Excavation with the dozer blade continued to a depth of 4 ft where a 4-in.-thick sandstone layer was observed.

The trenches that were previously dug to 4 ft were then deepened an additional 4 ft for a total depth of 8 ft on the north and south sides of the test pit. The shale from between the trenches was then removed using the blade of the bulldozer in 6- to 12-in. increments. Excavation continued to a depth of 8 ft below the surface, coinciding with the depth of the two trenches.

Excavation then continued down to a total depth of 12 ft below the existing grade without any further trenching. The final excavation was performed only with the bulldozer. To reach a depth of 12 ft, the bulldozer operator used a ripper attachment to remove the shale as the bedrock was becoming more difficult to remove using only the blade.

For Test Pit 2, the excavation of the test pit was performed using an excavator only. The width of the test pit was approximately the width of the excavator bucket, and the final depth was approximately 20 ft. A video camera was lowered into Test Pit 2 to allow close-up observation of the soil and rock layers.

Observations from the test pits included the following:

- Fractures seen on the surface of the 2-ft-thick sandstone in the Cuyahoga Formation continued throughout the thickness of the sandstone layer but did not extend into the underlying shale. Fractures in the 2-ft-thick sandstone layer also contained clayey soil, approximately 0.5 in. thick. Test Pit 2 did not extend to the depth of the 2-ft-thick sandstone layer but encountered a shallower, approximately 4-in.-thick sandstone layer with similar fractures.

- In Test Pit 1, a 4-in.-thick sandstone layer was observed at a depth of approximately 4 ft (2 ft below the 2-ft-thick sandstone layer). It was fractured in a fairly regular pattern with each piece exhibiting an average diameter of approximately 12 in. This layer was easily broken with the ripper attachment.

- Observed fractures and/or joints were limited to the more brittle sandstone layers. No fractures or joints were observed in the shale.

- The degree of weathering of the shale, as expected, diminished with depth. The moisture content of the shale was observed to be higher near the surface and decreased with depth.

- The bulldozer could easily remove the shale to a depth of 8 ft with the blade only, but needed a ripper attachment to go deeper. At Test Pit 2, an excavator was used and was able to excavate to a depth near the maximum reach of the machine.

2.3 DEVIATIONS FROM THE SAMPLING PLAN

Deviations between actual field sampling activities and the activities proposed in the Geotechnical SAP have been formally tracked and authorized during the entire RI/FS sampling program for the Site-wide Waste Disposition Evaluation Project by using field change notices. Deviations include such things as additional samples, additional piezometers, and the addition of other media for investigation during the sampling program. General field changes include changes in the constituent list for a specific medium or changes in sampling protocols. All field change notices were reviewed and concurred with by Ohio EPA in order to maintain the integrity of data quality.

Some of the field change notices documented during field implementation of the SAP include the following:

- Having both total (unfiltered) and dissolved (filtered) metal samples collected and analyzed.

- Using an acoustic televiewer logging tool at Study Area D in selected soil borings to investigate the possible existence of fractures in the bedrock. The acoustic televiewer log provides an oriented, high-resolution image of the borehole using high-frequency acoustic sound waves as a source. Results from this tool provide location and orientation information for features such as fractures and lithologic contacts.

- Addition of a surface water walkdown of two intermittent tributaries in Study Area D to look for seeps and/or springs.

- Addition of two test pits near the OSDC Study Area D footprint to facilitate observation of existing bedrock fracturing and depth of weathering in the Cuyahoga Formation.

- Addition of three Cuyahoga piezometers (WD-PZ12C, WD-PZ13C, and WD-PZ14C) installed adjacent to three Berea monitoring wells to serve as well pairs in Study Area D.

- Hydraulic testing using existing monitoring wells/piezometers at Study Area D to determine site-specific hydrogeologic characteristics.

- Conversion of several open-hole piezometers in Study Area D into discretely screened piezometers to evaluate the 680-ft sandstone layer potentiometric surface.

2.4 QUALITY ASSURANCE/QUALITY CONTROL

QC was monitored throughout the RI process. QC included field sampling, laboratory analysis, and data management.

2.4.1 Field Quality Control

Field QC samples were collected to assess data quality. Table 2.21 lists the QC samples collected for each study area. The target collection frequency of QC samples for the entire project was 1 in 20 for equipment rinsates, field blanks, and field duplicates, as defined in Section 5.3.2.6 of the Geotechnical SAP. Overall, this target was met for the project. Trip blanks were collected at a frequency of one per sample cooler containing VOC samples.

Table 2.21. Summary of QA/QC Samples Collected during the RI at PORTS

Study Area	QC Sample Type	Frequency of Collection[a]
A	Equipment Rinsates	2/33
	Trip Blanks	6/33
	Field Blanks	4/33
	Field Duplicates	5/33
B	Equipment Rinsates	1/27
	Trip Blanks	4/27
	Field Blanks	1/27
	Field Duplicates	2/27
Overlap of Study Areas A and C	Equipment Rinsates	1/33
	Trip Blanks	6/33
	Field Blanks	2/33
	Field Duplicates	0/33
C	Equipment Rinsates	5/67
	Trip Blanks	9/67
	Field Blanks	4/67
	Field Duplicates	6/67
D	Equipment Rinsates	8/121
	Trip Blanks	20/121
	Field Blanks	9/121
	Field Duplicates	6/121
Summary	Equipment Rinsates	17/281
	Trip Blanks	45/281
	Field Blanks	20/281
	Field Duplicates	19/281

[a] Frequency of collection is the number of QA/QC samples collected per number of regular samples (per interval) collected.

QA = quality assurance
QC = quality control

2.4.2 Laboratory Quality Control

Contract laboratories performed all of the analyses on soil and groundwater samples for the waste disposition RI. The laboratories performing the analyses were DOE-approved laboratories audited for compliance with requirements. Approved EPA SW-846 methods were used for all samples, except for those parameters that required other methods. Filtered and unfiltered analyses were performed on metals and uranium isotopes. All other analyses were performed using unfiltered samples.

The following analytical data qualifiers were used for reporting fixed-base laboratory results:

<u>Inorganic Analysis</u>

B This qualifier is used when the value is less than the Contract Required Detection Limit or Required Reporting Limit specified, but greater than or equal to the Instrument Detection Limit/Method Detection Limit.

U The analyte was analyzed for but not detected.

J	This qualifier indicates an estimated value.
E	The reported value is estimated because of the presence of interference. An explanatory note must be included under comments.
M	Duplicate injection precision was not met.
N	Spiked sample recovery was not within control limits.

Organic Analysis

U	Indicates compound was analyzed for but not detected.
J	This qualifier indicates an estimated value. It is used under the following circumstances: (1) when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed and (2) when the mass spectral and retention time data indicate the presence of a compound that meets the pesticide/PCB identification criteria, and the result is less than the contract-required quantitation limit, but greater than zero.
B	This qualifier is used when the analyte is found in the associated blank as well as in the sample.
E	This qualifier identifies compounds whose concentrations exceed the calibration range of the gas chromatograph/mass spectrometer instrument for that specific analysis.
Y	This qualifier indicates matrix spike/matrix spike duplicate recovery and/or relative percent difference (RPD) failed to meet acceptance criteria.

Radionuclide Analysis

B	Method blank was not statistically different from sample at a 95 percent level of confidence.
U	Compound was analyzed for but not detected.
J	This qualifier indicates an estimated value.
X	Other specific qualifiers may be required to properly define the results.
D	Sample is statistically different from duplicate at a 95 percent level of confidence.
L	Expected and measured value for laboratory control sample is statistically different at a 95 percent level of confidence.
M	Expected and measured value for matrix spike is statistically different at a 95 percent level of confidence.

Precision, accuracy, and completeness objectives were presented in Tables B.2 and B.3 of the Geotechnical SAP (DOE 2011a).

Precision refers to the level of agreement among repeated measurements of the same characteristic, usually under a given set of conditions. To determine the precision of the laboratory analysis, a routine program of replicate analyses is performed. The absolute difference between the two calculated values is referred to as the RPD. Precision is determined for this RI by reviewing laboratory-applied qualifiers that pertain to laboratory duplicates (“M” and “*” for inorganic analyses, “Y” for organic analyses, and “D” for radionuclide analyses) over all analyses. The QA objectives for precision given in the Geotechnical SAP are performance-based with RPDs that ranged from 13 to 50 percent.

Accuracy refers to the nearness of a measurement to an accepted reference or true value. To determine the accuracy of an analytical method and/or the laboratory analysis, a periodic program of sample spiking is conducted. Accuracy for this RI is determined by reviewing laboratory-applied qualifiers that pertain to laboratory spikes over all analyses (“N” and “W” for inorganic analyses; “Y” for organic analyses; and “B,” “M,” and “L” for radionuclide analyses). The accuracy range objective specified in the work plan was 80 to 100 percent.

Representativeness is the degree to which discrete samples accurately and precisely reflect a characteristic of a population, variations at a sampling location, or an environmental condition. Representativeness is a qualitative parameter and will be achieved through careful, informed selection of sampling locations, drilling locations, drilling depths, and analytical parameters, and through the proper collection and handling of samples to avoid interference and minimize contamination and sample loss.

Completeness is a measure of the percentage of valid, viable data obtained from a measurement system compared with the amount expected under normal conditions. The goal of completeness is to generate a sufficient amount of valid data to satisfy project needs. For this project, the completeness objective for laboratory measurements is 90 percent. Completeness is also a measure of samples collected during the field effort with respect to those targeted for collection in the SAP. The Geotechnical SAP called for collecting 181 soil samples for chemical analyses and 24 soil samples for geochemical analyses. The actual soil samples collected were 281 analytical samples and 56 geochemical samples; therefore, all soil samples targeted for chemical analysis during this RI were collected. Groundwater sample objectives were also fulfilled.

Comparability is the extent to which comparisons among different measurements of the same quantity or quality will yield valid conclusions. Comparability is assessed in terms of field standard operating procedures, analytical methods, QC, and data reporting. In addition, data validation assesses the laboratory processes that affect data comparability.

2.4.3 Data Management

The PORTS Project Environmental Measurements System (PEMS) was used to manage field-generated data; import laboratory-generated data; add data qualifiers based on data verification, validation, and assessment; and transfer data to the PORTS Data Warehouse. PEMS included a tracking system to identify, track, and monitor each sample and associated data from point of collection through final data reporting. The system included field measurements and chain-of-custody information.

All data packages and electronic data deliverables received from the laboratory were tracked, reviewed, and maintained in a secure environment. The following information was tracked: sample delivery group numbers, date received, document control number, number of samples, sample analyses, receipt of electronic data deliverables, and comments.

The data verification processes for laboratory data were implemented for both hard-copy data and electronic data deliverables. The data packages were reviewed to confirm that all samples had been analyzed for the requested parameters. Discrepancies were reported to the laboratory and data validators. As part of a series of internal integrity checks within PEMS, a check was run to identify which of the requested samples and analyses were not received in an electronic data deliverable.

Data verification within PEMS included standardization of analytical methods, chemical names and units, and checks for holding time violations and detections above background values. The security of PEMS and the data used for the data management effort were considered to be essential to the success of the project. Access to PEMS was limited, on an as-needed basis, to the data management personnel. Read-write, graded access to PEMS was limited to the data management team. The data management staff assisted other project members with data needs from PEMS by running requested queries.

Data validation is a process performed for a dataset by a qualified individual independent from sampling, laboratory, project management, and other decision-making personnel for the project. Data validation is performed in accordance with EPA guidance. In the data validation process, laboratory adherence to analytical method requirements is evaluated.

As part of the data review process, findings were qualified (as necessary) to reflect data validation results. The following validation qualifiers were assigned by the data validators:

N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
U	Analyte or compound was considered not detected above the reported detection limit.
J	Analyte or compound was identified; the associated numerical value is approximated.
UJ	Analyte or compound not detected above the reported detection limit, and the reported detection limit is approximated because of quality deficiency.
R	Result is not usable for its intended purpose, so data are of “information only” quality and should be supplemented with additional data for decision making.
XV	Data were not validated; refer to the RSLTQUAL field, which may contain more information.
XZ	Data validation performed but no validation qualifier was applied; refer to the RSLTQUAL field which may contain more information.
=	Data were validated; however, no qualifier was added.

HIGHLIGHTS OF SECTION 2

- Considerable historical environmental media data have been collected at PORTS since the mid-1990s.
- On-PORTS soil and groundwater have been contaminated by historical releases and practices. Contaminants include radionuclides (primarily uranium and technetium), metals, and organics.
- Current data and groundwater remediation efforts indicate no off-PORTS contamination above regulatory standards.
- Recently collected data from the process equipment confirm technetium-99 and uranium deposits in the process equipment—greatest contamination is in X-326.
- Permeabilities, site-specific K_d values, and TOCs all contribute to low migration rates in the subsurface.
- A saturated sandstone layer was found below Study Area D at an average elevation 680 ft AMSL (10-40 ft bgs).
- There are numerous wetlands and streams throughout Study Area D. These surface water bodies have been classified according to State of Ohio guidance and protocol.

NEXT STEP: SECTION 3 PRESENTS THE OVERALL ENVIRONMENTAL SETTING OF PORTS

3. PHYSICAL CHARACTERISTICS OF THE STUDY AREA

Development of a CSM is an element of defining environmental problems. CSMs consist of understanding the nature and extent of contamination present, the fate of those contaminants in the environmental setting, and the potential location of receptors that use or may use the contaminated media. Development of a complete CSM and then defining the magnitude of the impact of the contaminants on receptors completes the problem definition.

Section 2 presented the data obtained from investigations, both historical and under this project, that are used in defining elements of the CSM. In Section 3, the information collected across PORTS is coalesced into an understanding of the physical features of PORTS that will have a bearing on the fate of contaminants, along with their transport mechanisms and the locations of potential current receptors and sensitive resources. The intent of Section 3 is to present a catalogue of PORTS conditions relative to surface features, meteorology, surface water hydrology, geology, hydrogeology, soils, demography and land use, and ecological resources. Each one of these subjects has a separate section of text. Section 3 provides the information that supports the conclusion that contaminants will not readily migrate off PORTS because of underlying hydrogeologic conditions and that the future potential uses of PORTS and surrounding areas are industrial and rural residential.

More specific information related to each of the candidate locations for a potential OSDC is presented in Appendix D.

The primary reference sources that provided supporting information for this section include the following:

- *Plant-wide Baseline Human Health Risk Assessment, Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1995b [draft])

- *Quadrant I RFI Final Report for the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1996a)

- *Quadrant II RFI Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1996b)

- *Quadrant III RFI Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1996c)

- *Quadrant IV RFI Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1996d)

- *Baseline Ecological Risk Assessment, Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1996f)

- *Quadrant III Cleanup Alternatives Study/Corrective Measures Study Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1998a)

- *Quadrant IV Cleanup Alternatives Study/Corrective Measures Study Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1998b)

- *Quadrant I Cleanup Alternatives Study/Corrective Measures Study Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2000b)

- *Quadrant II Cleanup Alternatives Study/Corrective Measures Study Final Report for Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2001a)

- *2010 Groundwater Monitoring Report for the Portsmouth Gaseous Diffusion Plant* (DOE 2011b).

3.1 SURFACE FEATURES

PORTS is located in Pike County in south central Ohio, east of the Scioto River, and within the Scioto River's drainage basin (Figure 3.1). It occupies an upland area of southern Ohio and has an average land surface elevation of 670 ft AMSL (with a range from approximately 555 to 850 ft AMSL). The plant sits in a 1-mile-wide ancestral river valley situated approximately 130 ft above the Scioto River floodplain, which lies to the west. In much of the industrialized area of PORTS, the original topography has been modified and graded for construction of buildings and other facility components. Much of the industrialized area is located on fill that was removed from higher elevations of the plant and placed in existing drainage valleys and depressions to make the plant more level.

The local topography at PORTS is dominated by ancient and recent streams. The predominant landform in the area is an undulating, broad, sediment-filled, ancestral river valley. This valley is oriented north-south and is bounded on the east and west by deeply dissected ridges and low-lying hills. The surface of the river valley is modified by recent streams (Figure 3.2). A small valley is formed by Little Beaver Creek, which flows in a northwesterly direction across the middle of the plant, just north and east of the main industrialized area. Other small valleys formed by streams have cut into the flat-lying, unconsolidated deposits on which PORTS is located. One of these valleys is that of a westward-flowing stream, West Drainage Ditch, which is near the west-central area of the plant. Two more streams are located in the southern portion of the industrialized area. In the southeast portion of the plant, the southerly flowing stream, Big Run Creek, is situated in a relatively broad, gently-sloping valley. The Southwest Drainage Ditch has formed a narrow, steep-walled valley. The topography of the four locations evaluated for a potential disposal cell is discussed in Appendix D.

3.2 METEOROLOGY

This section describes the climatology and meteorology in the area surrounding PORTS and also provides a discussion of air quality at the plant.

3.2.1 Regional Climatology

The climate of the PORTS area is humid-continental and is characterized by warm, humid summers and cold, humid winters. For the period of record (June 1893 to December 2010) in Waverly, Ohio (approximately 10 miles north of PORTS), the daily temperature averages are 73°F in the summer (June through August) and 33°F in the winter (December through February). The average annual temperature is 54°F. Record high and low temperatures are 107°F and -31°F, respectively (Western Regional Climate Center [WRCC] 2011).

Precipitation is distributed relatively evenly throughout the year and averages approximately 40 in. per year. The month with the highest average precipitation for the period of record (June 1893 to December 2010) is May, and June is the second. Groundwater recharge and flood potential are greatest during the spring. February is the driest month. Snowfall averages approximately 19 in. per year, and snowmelt is part of the total annual precipitation (WRCC 2011).

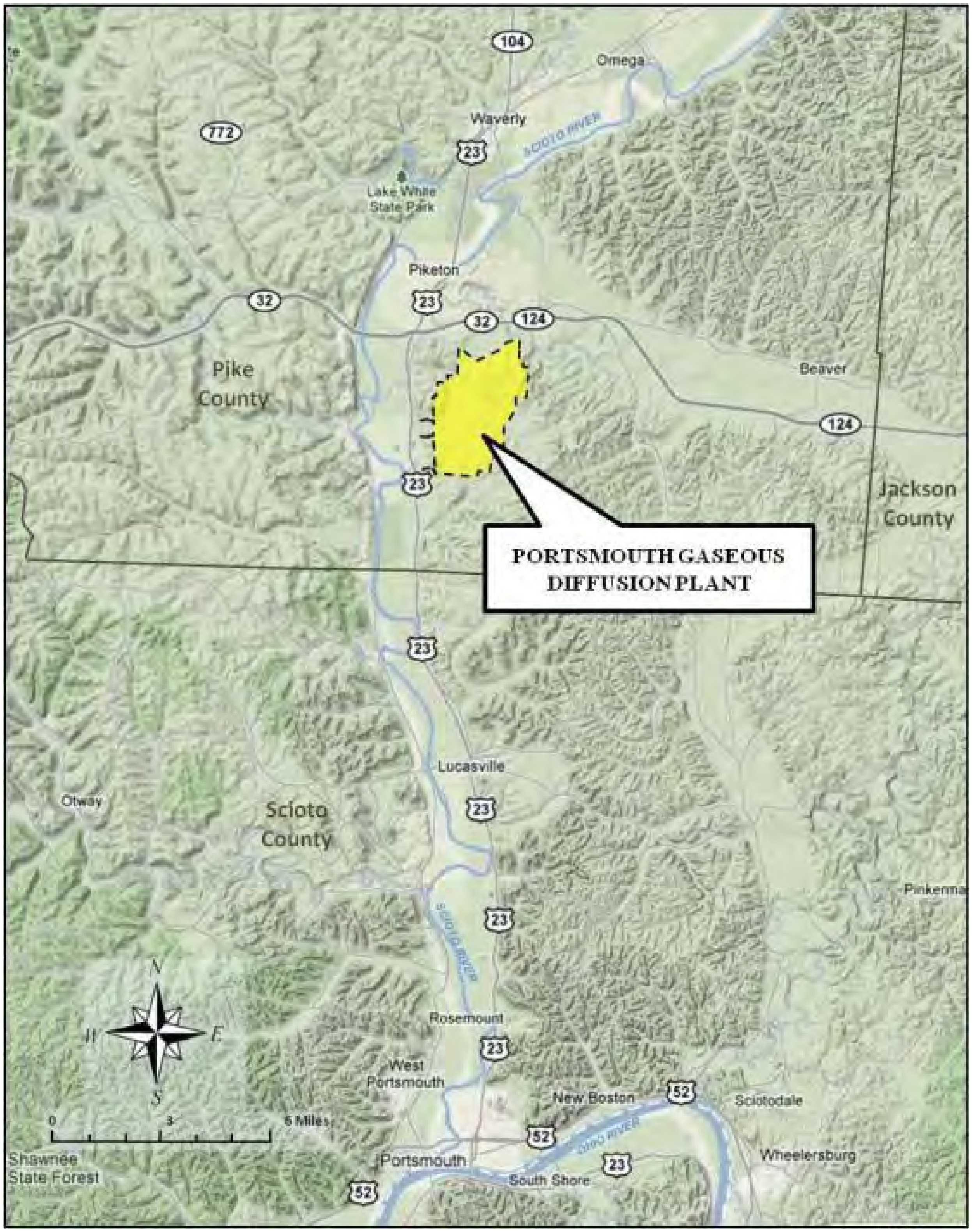


Figure 3.1. PORTS Location and Major Drainage

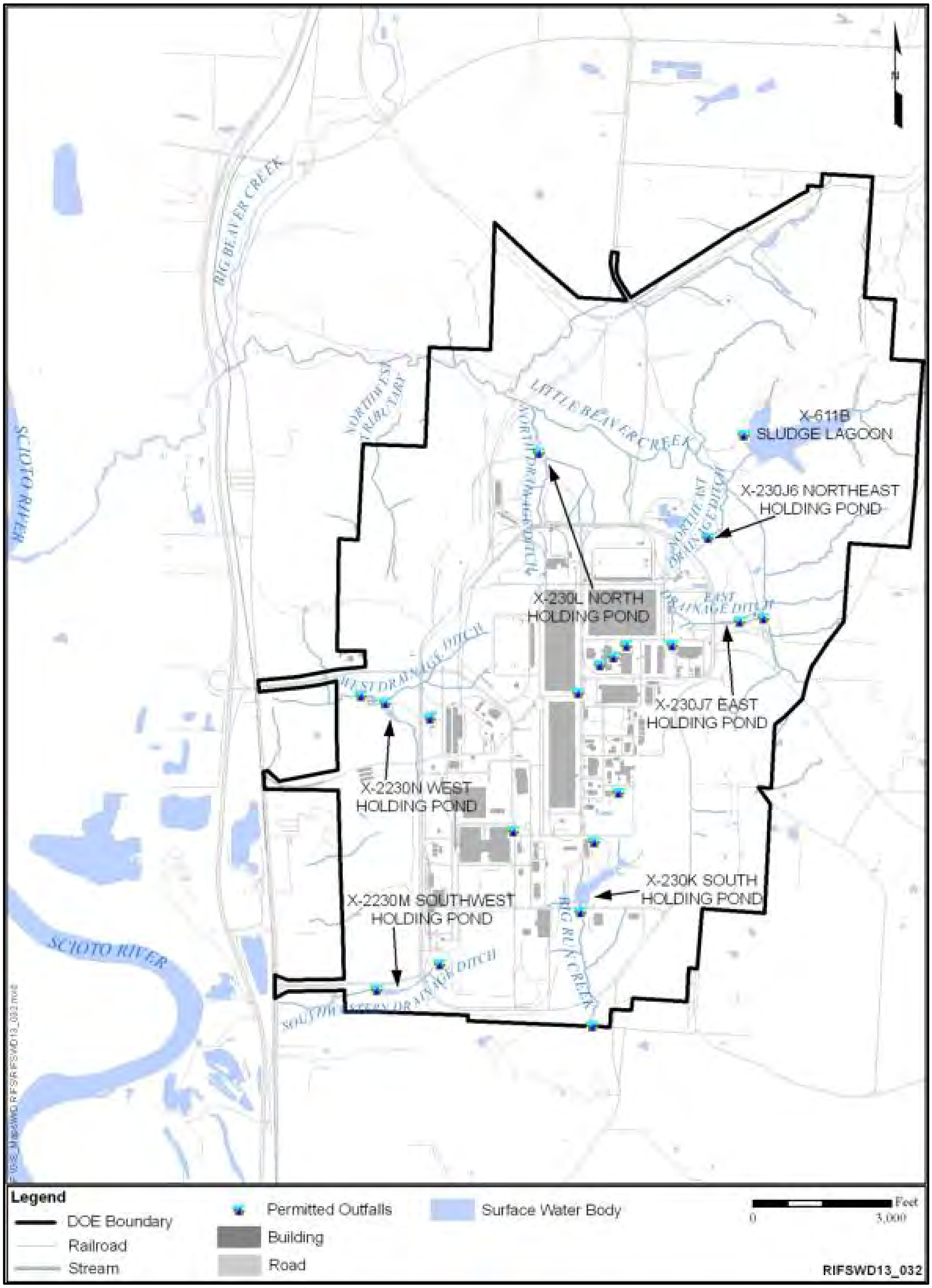


Figure 3.2. Surface Water Features at PORTS

Wind data have been collected at an on-PORTS meteorological tower. The data were collected at heights of 33, 98, and 197 ft above the ground surface. An evaluation of data collected from 1995 through 2001 indicated that winds at the 33-ft level appear to be influenced by local topographical and/or vegetative features, while the wind data from the 98-ft level are believed to be more representative (NRC 2006a). A wind rose of the 98-ft level from 1995 through 2001 is presented in Figure 3.3. About one third of the time, the wind blew from the south-southwest at an average speed of almost 6.5 mph. Directional wind speed was highest from the south at approximately 8 mph, while the lowest value was recorded in winds blowing from the east at 4 mph.

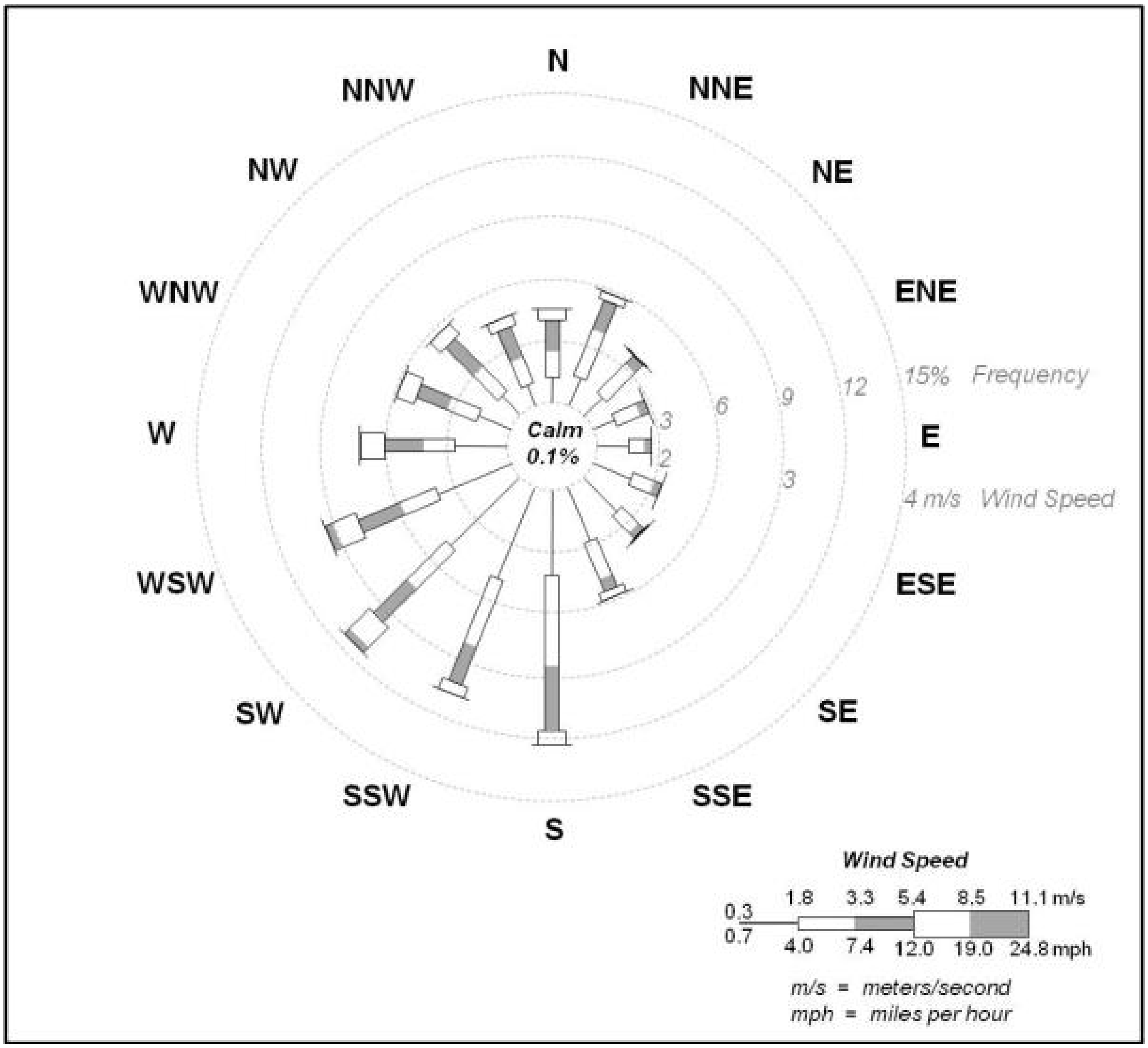


Figure 3.3. Wind Rose for PORTS

Tornadoes are rare in the area surrounding PORTS. For the period January 1950 through April 2011, 1,026 tornadoes were reported throughout Ohio, with an average of 15 tornadoes per year. While eight tornadoes were reported in Pike County during this period, all were F2 level or less (wind speeds less than 157 miles per hour) on the Fujita scale (National Climatic Data Center 2011).

3.2.2 Air Quality

The EPA has established maximum concentrations for pollutants in ambient air, referred to as the National Ambient Air Quality Standards (NAAQS). The Ohio State Ambient Air Quality Standards are identical to the NAAQS. Six criteria pollutants are used as indicators of air quality: ozone (O_3), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter with a mean diameter of 10 micrometers or less (PM_{10}), particulate matter with a mean diameter of 2.5 micrometers or less ($PM_{2.5}$), and lead. Areas in which ambient air concentrations meet the standards for each criteria pollutant are designated as attainment areas. Areas that do not meet the standards are designated as nonattainment areas. PORTS is located in the Wilmington-Chillicothe-Logan Intrastate Air Quality Control Region, which covers the south-central part of Ohio. Pike, Ross, and Jackson Counties are in attainment for all criteria air pollutants (40 *CFR* 81.336). Scioto County, south of PORTS, is a nonattainment area for $PM_{2.5}$ (EPA 2011a).

The DOE operations at PORTS generate conventional nonradiological air pollutants such as organic compounds and particulate matter. The air emission sources at PORTS include two landfill venting systems, one glove box, and four groundwater treatment facilities. Ohio EPA regulates these as minor sources. Other sources include the three boilers at the X-600 Steam Plant (which provide steam for PORTS), the X-6002 boilers, diesel engine compressors associated with the X-326 dry air systems, and gravel roads/parking lots associated with construction areas. Air emissions are estimated every 2 years for the Ohio EPA Biennial Emission Fee Statement. To calculate air emissions, PORTS assumes that each source emits the maximum allowable amount of each pollutant as provided in the permit or registration for each source. The following are 2009 emissions of nonradiological air pollutants from DOE operations at PORTS: 0.202 ton of lead, 48.9205 ton of particulate matter, 16.0003 ton of organic compounds, 2,051.16 ton of sulfur dioxide, and 225.666 ton of nitrogen oxides. More than 99 percent of these emissions were associated with the boilers, diesel engine compressors, and construction areas (DOE 2011d).

With regard to greenhouse gas emissions associated with PORTS, a significant source of CO_2 is employee transportation vehicles. The EPA estimates that each gallon of gasoline produces 19.4 lb of CO_2 emissions (EPA 2005). Assuming that each PORTS worker drives 30 miles roundtrip to and from work in a vehicle with a fuel economy rating of 20 miles per gallon of gasoline, each worker generates approximately 29 lb of CO_2 in their daily commute. Assuming a 5-day work week and 50 working weeks per year, the annual amount of CO_2 emissions by each worker is 7,300 lb (about 3.7 ton). Based on current plant employment (2,709, including DOE and tenants), approximately 9,888 ton of CO_2 is emitted annually from employee vehicles. In addition, in the 1950s, two coal-fired power generation plants (Kyger Creek in Ohio and Clifty Creek in Indiana) were originally dedicated to supplying electrical power to PORTS. Kyger Creek and Clifty Creek emitted a total of approximately 16 million ton of CO_2 in 2006 (SourceWatch 2011a; 2011b). In the same year, both plants generated a total of approximately 16.2 million megawatt-hours (MWh) of electricity (Ohio Valley Electric Corporation [OVEC] 2007). This equates to approximately 0.99 ton of CO_2 emitted per MWh. To support current annual electrical requirements at PORTS (approximately 250,000 MWh), approximately 247,500 ton of CO_2 are emitted. This amount, combined with the employee vehicle emissions, means the total CO_2 footprint of PORTS is approximately 257,400 ton per year.

DOE collects samples from 15 ambient air monitoring stations and analyzes them for radionuclides that could be present in ambient air as a result of PORTS activities. These radionuclides are isotopic uranium (uranium-233/234, uranium-235, uranium-236, and uranium-238), technetium-99, and selected transuranic radionuclides (americium-241, neptunium-237, plutonium-238, and plutonium-239/240). The ambient air monitoring stations measure radionuclides released from point sources, fugitive air emissions (emissions that are not associated with a specific release point such as a stack), and background levels of radiation (radiation that occurs naturally in the environment and is not associated with PORTS operations) (DOE 2011d).

Airborne discharges of radionuclides from the PORTS are regulated in accordance with 40 *CFR* 61, Subpart H, and the National Emission Standards for Hazardous Air Pollutants (NESHAPs). No transuranic radionuclides were detected in the samples collected from the ambient air stations in 2009. Technetium-99 was detected at Stations A23 (northeastern plant boundary) and A24 (north of the plant on Schuster Road). The maximum activity of technetium-99 in ambient air was 0.0031 pCi/m^3 at Station A24, which is well below the DOE-derived concentration guide of 2,000 pCi/m^3.

Uranium-233/234 and uranium-238 were detected in all of the 2009 samples, including those from background locations, which are established upward of plant operations. The highest average activity of uranium-233/234 (0.00083 pCi/m^3) was detected at Station A29 (on PORTS at OVEC). The highest average activity of uranium-238 (0.00073 pCi/m^3) was detected at Station A28 (southwest of PORTS on Camp Creek Road). These average activities are well below the DOE-derived concentration guides for uranium-233/234 (0.09 pCi/m^3) and uranium-238 (0.1 pCi/m^3).

3.3 SURFACE WATER HYDROLOGY

PORTS is drained by several small tributaries of the Scioto River (Figure 3.2). Sources of surface water drainage include storm water runoff, groundwater discharge, and effluent from plant processes. This section provides a description of the surface water and sediment characteristics for streams influenced by operations at PORTS.

The largest stream at PORTS is Little Beaver Creek, which runs approximately 4.5 miles from the east-central portion of the plant to the northwest DOE boundary. Little Beaver Creek receives drainage from the eastern and northern portions of PORTS before discharging into Big Beaver Creek. Little Beaver Creek is a small, high-gradient, unmodified stream that receives the majority of its flow from the X-230J7 East Holding Pond discharge through the East Drainage Ditch. Little Beaver Creek also receives effluent via the Northeast Drainage Ditch through the outfall from the X-230J6 Northeast Holding Pond and via the North Drainage Ditch through the outfall from the X-230L North Holding Pond.

Ohio EPA periodically assesses stream water quality at five locations along Little Beaver Creek. The lower 2.8 miles of the stream are fully attaining warm water habitat aquatic life biocriteria, with a portion of this (approximately 1.9 miles) characterized by exceptional biological quality. Substrates are predominantly slab boulders and bedrock at the upper reach to gravel and sand near the mouth of the stream. During parts of the year, intermittent flow conditions exist upstream from the X-230J7 discharge. During the summer/fall low-flow time of the year, the upstream section is composed of shallow, isolated pools with intermittent flow (Ohio EPA 2006b), which is a principal reason the upstream reach is not attaining warm water habitat aquatic life biocriteria. The Northwest Tributary stream corridor begins in the northwestern portion of the DOE property (Figure 3.2) and flows approximately 3,200 ft before leaving the PORTS property and prior to its confluence with Little Beaver Creek.

Water quality chemical characteristics are also evaluated during the Ohio EPA assessment. Most recently, the only exceedance of water quality criteria in Little Beaver Creek was for copper (Ohio EPA 2006b). The exceedance for copper appeared to be related to the very low hardness conditions recorded at the time of sampling. In general, all metals concentrations were very low with nearly half of the tested parameters less than the laboratory detection limits. VOCs and SVOCs were reported as not detected in the Ohio EPA assessment. However, DOE has detected TCE and *cis*-1,2-dichloroethene at low concentrations at DOE surface water sampling locations in Little Beaver

Creek on the plant (DOE 2011b). The pH levels in Little Beaver Creek, ranging from approximately 7.5 to 7.7 units, were within acceptable water quality limits. Dissolved oxygen measurements were indicative of good water quality with values varying from approximately 7.0 to 8.5 mg/L. Radiological results from sediments revealed elevated levels of technetium-99, total uranium, and isotopic uranium, but the levels were below ecological screening levels (Ohio EPA 2006b).

Big Run Creek is the smaller tributary of the Scioto River that drains the southern portion of PORTS. This stream receives outfall effluent from the X-230K South Holding Pond at its headwaters. Big Run Creek flows south-southwest from PORTS for approximately 4 miles until it intersects the Scioto River. The most upstream sampling location on Big Run Creek, located downstream of the outfall from the X-230K South Holding Pond, was in nonattainment of the warm water habitat aquatic life biocriteria (Ohio EPA 2006b). A sampling location at the PORTS boundary was in partial attainment, and full attainment was noted at another location approximately 0.3 miles downstream from the boundary. The substrates of Big Run Creek are predominantly gravel and cobble, and the stream channel remains unmodified. Because of the small stream size and high gradient, deep pools are absent (Ohio EPA 1993).

In Big Run Creek, surface water results for radiological parameters indicated that radiological doses, based on the activity concentrations measured, were within acceptable levels for protection of aquatic biological communities. Sediment sample results indicated low levels of metals and most organic chemicals. However, total PCBs were slightly elevated below the X-230K outfall. Radiological results from sediment samples were elevated, but they were below ecological screening benchmarks (Ohio EPA 2006b). The dissolved oxygen levels (ranging from approximately 6.5 to 7.5 mg/L) were slightly lower than those observed in Little Beaver Creek.

Because both Little Beaver Creek and Big Run Creek cut through unconsolidated material and intersect bedrock and the ancestral Portsmouth River Valley essentially forms a large “bowl” around PORTS, all groundwater leaving PORTS through unconsolidated deposits is eventually drained to the Scioto River by these two streams.

Two ditches drain the western and southwestern portions of PORTS. Flow in these ditches is low to intermittent. The West Drainage Ditch receives water from surface water runoff, storm sewers, and plant effluent. The Southwest Drainage Ditch receives water mainly from storm sewers and groundwater discharge. These two drainage ditches continue west and ultimately discharge into the Scioto River.

PORTS has 19 permitted outfalls (Figure 3.2) that discharge process water from the property (DOE 2010b). Eleven of these outfalls discharge directly to surface water while the others initially discharge to internal outfalls, such as the X-6619 Sewage Treatment Plant, before leaving the plant.

Floodplains consist of mostly level land that may be submerged by floodwaters along rivers and streams. The 1988 flood insurance rate map provided by the Federal Emergency Management Agency (FEMA) (FEMA 2009) indicates that the 100-year floodplain extends on both sides of Little Beaver Creek upstream from its confluence with Big Beaver Creek to the rail spur located near the X-230J9 North Environmental Sampling Station. The 100-year floodplain ranges on either side of Little Beaver Creek from 50 to 200 ft, roughly following the 575-ft topographic contour. Flooding is not a problem for the majority of the plant. The highest recorded flood level of the Scioto River in the vicinity of PORTS was 570 ft AMSL in January 1913, which is approximately 100 ft below the level of most PORTS facilities. No portion of the 100-year floodplain for Big Run Creek is located within the PORTS boundary.

The 1988 flood insurance rate map provided by FEMA indicates that no portion of PORTS, including the area of Little Beaver Creek, falls within the 500-year floodplain. This is likely a result of the deeply incised drainage and steep gradients along Little Beaver Creek, which would limit the area covered by the 500-year floodplain.

3.4 GEOLOGY

The geology of PORTS has been characterized over the years by the installation of more than 1,600 soil borings and wells across the plant. The information in this section was obtained primarily from the PORTS quadrant RFI final reports listed at the beginning of Section 3. The subsurface consists of approximately 30 to 40 ft of unconsolidated Quaternary clastic sediments (such as sand, silt, and clay) overlying Paleozoic bedrock that dips gently toward the east (Figure 3.4). In stratigraphic order, bedrock is overlain by fluvial Gallia sand and gravel (Gallia) and by the lacustrine Minford clay and silt (Minford) of the Teays Formation (Figure 3.5). The erosion and subsequent fill of the Portsmouth River Valley during the Pleistocene is a primary factor controlling the shallow geologic units beneath PORTS. A portion of the ancestral Portsmouth River Valley underlies the plant.

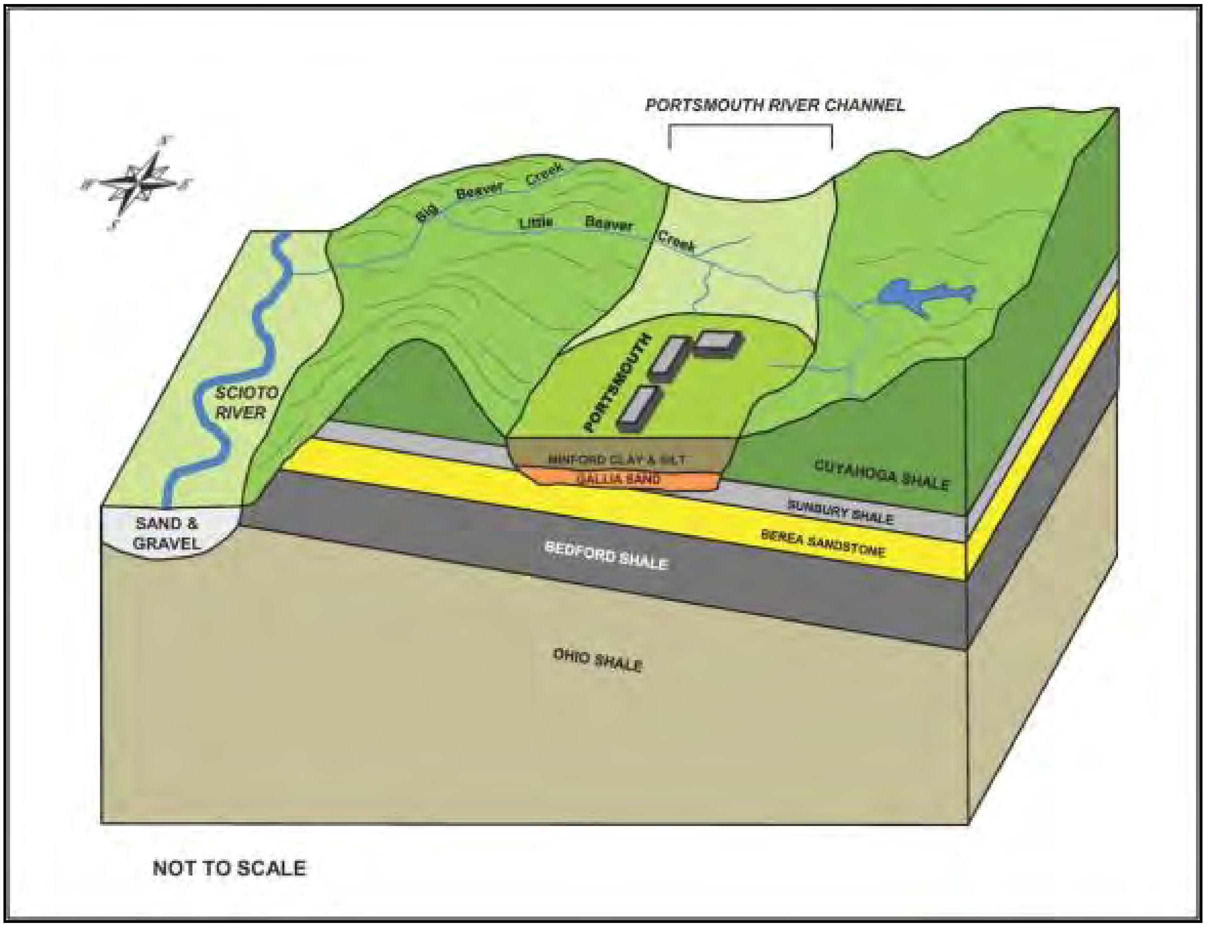
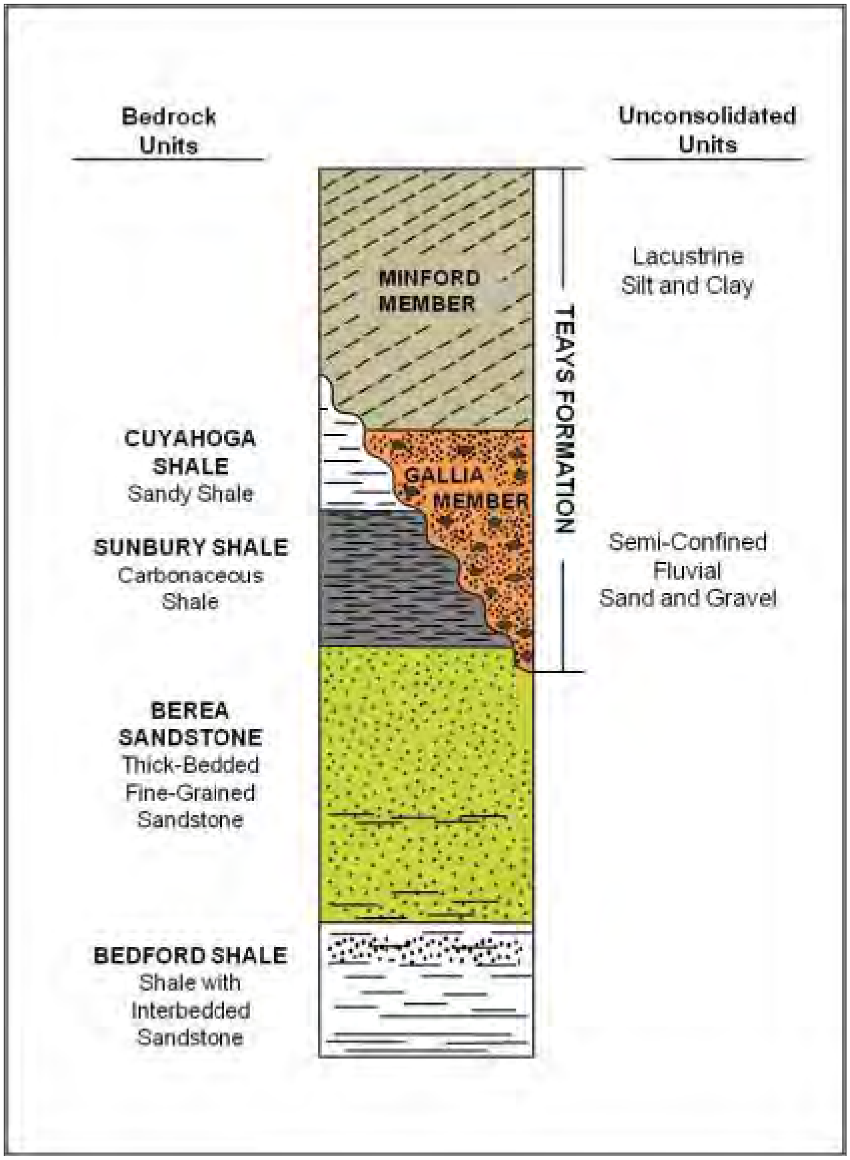


Figure 3.4. Schematic Block Diagram Showing Geological Relationships at PORTS



Source: DOE 2011b

Figure 3.5. Generalized Stratigraphy at PORTS

The bedrock beneath PORTS is comprised of sandstone and shale deposited in an inland sea during the late Devonian and Mississippian periods (approximately 340 million years ago) (Coogan 1996). The area was subsequently uplifted and gently folded. Erosion produced the deeply dissected, knobby terrain that characterizes southern Ohio. The near-surface bedrock formations (from oldest to youngest) are the Bedford shale, Berea sandstone, Sunbury shale, and Cuyahoga shale (Upper Devonian and Mississippian strata) that dip gently to the east-southeast at approximately 30 ft/mile. No known geologic faults are located in the immediate area. Two distinct joint sets (fractures) are present in outcrops of thin (2 to 8 in. thick) sandstone laminations in the Cuyahoga Formation and the lower Berea/upper Bedford Formations.

The Bedford shale is the lowest stratigraphic unit that has been encountered during environmental investigation activities at PORTS. The Bedford shale, continuous beneath PORTS, consists of thinly bedded shale with thin interbeds and laminations of hard, gray, fine-grained sandstone and siltstone. The typical depth to the top of this formation at PORTS is 70 to 100 ft bgs. It averages 100 ft in thickness and outcrops are present in deeply incised streams and valleys within the DOE reservation.

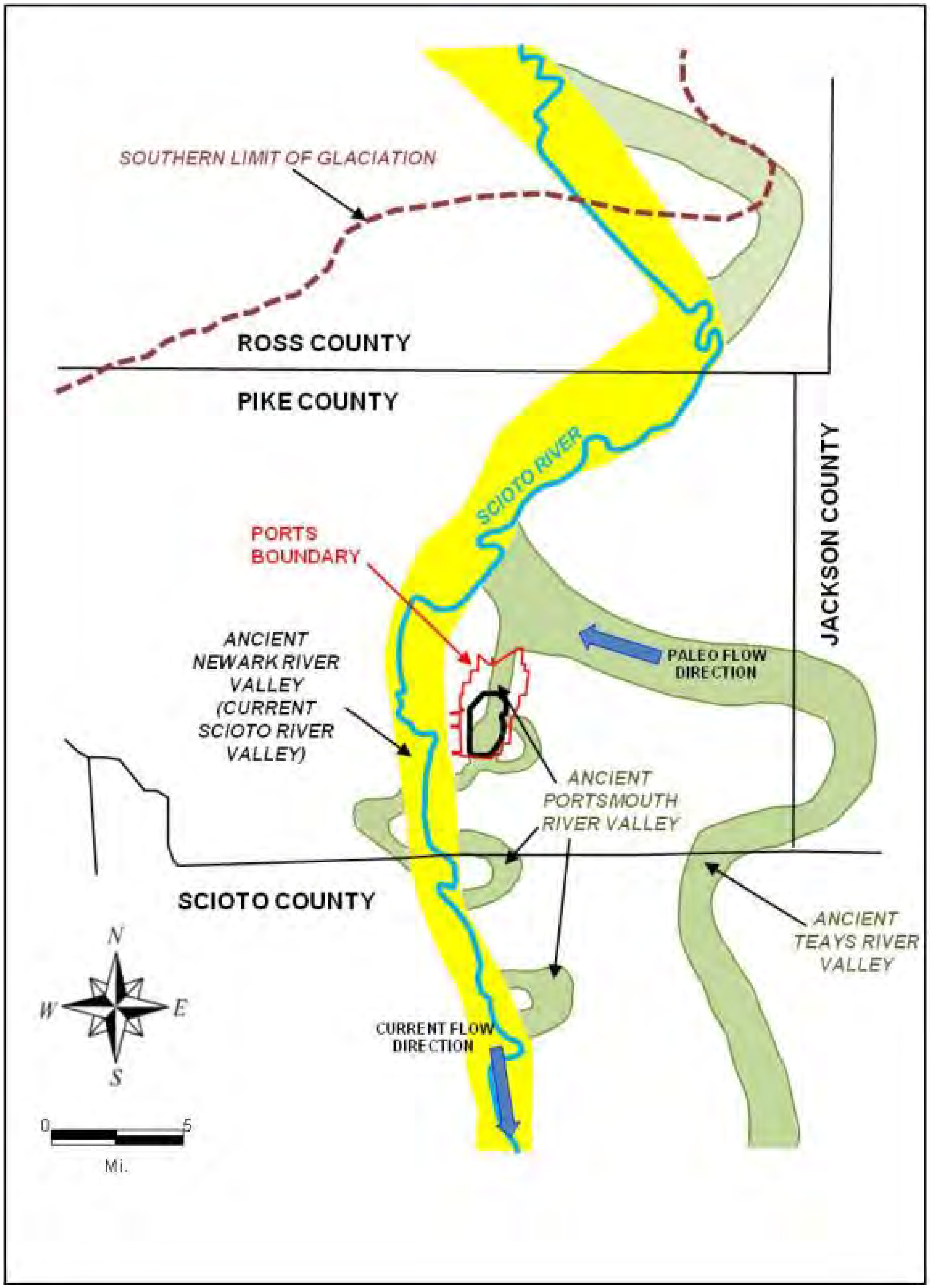
The Berea sandstone is composed of a light gray, hard, thickly bedded, fine-grained sandstone with thin shale laminations. The upper 10 to 15 ft of this formation consists of a massive sandstone bed with few joints or shale laminae. This formation is continuous beneath the industrial portion of PORTS, underlying the Sunbury shale on the eastern portion of PORTS and the unconsolidated Minford and Gallia members (Teays Formation) on the western portion of PORTS. The Berea sandstone averages 35 ft thick, and the lower 10 ft have numerous interlayered shale laminations similar to those in the underlying Bedford shale. This gradational contact does not allow for precise determination of the thickness of the Berea sandstone. Regionally, the formation contains naturally occurring hydrocarbons (petroleum) in quantities sufficient for commercial production.

The Sunbury shale is a competent, black, very carbonaceous shale that averages about 15 to 20 ft in thickness. It is typically the uppermost bedrock unit beneath PORTS, but thins westward as a result of erosion by the ancient Portsmouth River. The Sunbury shale is absent under the western half of the reservation. It is also absent in the drainage of Little Beaver Creek downstream from the X-611A Old Lime Sludge Lagoons and the southern portion of Big Run Creek, where it has been removed by erosion. The Sunbury shale underlies the unconsolidated Gallia of the Teays Formation beneath the industrialized eastern portion of PORTS and underlies the Cuyahoga shale outside of the Portsmouth River Valley.

The Cuyahoga shale, the youngest and uppermost bedrock formation in the geographic area, forms the hills surrounding PORTS. It is a moderately hard, thinly laminated shale that regionally reaches a thickness of approximately 160 ft and has numerous interbedded sandstone and siltstone laminations. The Cuyahoga Formation was deposited in an offshore, quiet water environment, perhaps on the distal margin of a delta. Most of the sandstone layers within the Cuyahoga are very thin (less than 3 in. thick), but occasionally a thicker layer (1 to 5 ft thick) is encountered in the region. The Cuyahoga shale is not found beneath the industrial portion of PORTS.

Prior to glaciation, the major drainage system in southern Ohio was the Teays River System. The river flowed northwest and passed about 3 miles north of PORTS. Glaciation occurring 25,000 to 2 million years ago changed the flow directions of streams, caused lakes to form, and filled in valleys with lake and river sediments.

The Portsmouth River, a north-flowing tributary of the Teays, flowed across the area that is now occupied by PORTS (Figure 3.6). The Portsmouth River eroded a valley into the bedrock. The Sunbury was eroded into a wedge that diminishes to the west and exposed the Berea bedrock on the western third of the facility. As the Portsmouth River meandered across the valley, silt, sand, and gravel were deposited. These unconsolidated fluvial deposits form the Gallia Member (Gallia) of the Teays Formation. The Gallia averages 3 to 4 ft in thickness across PORTS and is characterized as reddish-brown, clayey, medium-to-coarse sand and gravel (sand and gravel are typically poorly sorted). Channel migration and variation in depositional environments resulted in the variable thickness and hydraulic properties of the Gallia. The areas of thickest accumulation of Gallia sediments (exceeding 10 ft thick in some places) may represent the former channel location. They include areas under the southern end of the X-330 Process Building and near the X-701B Holding Pond. Gallia deposits beneath PORTS (found at a depth of approximately 25 ft bgs) are generally absent above an elevation of 650 ft AMSL. This



Source: DOE 1998a

Figure 3.6. Location of Ancestral River Systems in Relation to PORTS

happened because the valley walls of the ancient Portsmouth River formed a natural barrier for deposition of Gallia channel deposits.

Approximately 1 million years ago, an advancing glacier north of the plant blocked the northwestward flow of the Teays River. A glacial lake, Lake Tight, filled the valleys of the Teays River and its tributary, the Portsmouth River. The Minford member (Minford) of the Teays Formation, consisting of lacustrine silts and clays, accumulated in the lake. The Minford, which represents the uppermost stratigraphic unit beneath PORTS, consists of two units with a gradational contact. The upper unit is predominantly silty clay with some very fine-grained sand, and the lower silt unit is composed of clayey silt and very fine to fine-grained sand. Both units are continuous beneath the industrialized plant. The lower unit is indicative of shallow lake levels or over-bank deposits that grade into the upper unit of laminated silty clays, which were deposited as Lake Tight increased in size and depth. The Minford averages 20 to 40 ft in thickness with the upper unit averaging 16 ft in thickness. Eventually, Lake Tight overflowed its banks and initiated the high-volume and high-energy lower elevation drainage paths that bypassed the area of PORTS as they flowed south in the vicinity of the present-day Scioto River.

The unconsolidated Gallia and Minford members of the Teays Formation beneath PORTS are not continuous with the unconsolidated deposits in the Scioto River Valley to the west. A bedrock ridge forms a western valley wall that separates the two groups of unconsolidated deposits.

The PORTS Facility is located in the Appalachian Plateau structural province. This structural province is bounded to the west by the Cincinnati Arch structural province and to the east by the fold-and-thrust belt of the Appalachian Mountains.

Geologic studies conducted to determine the potential seismic hazard for PORTS have determined that only one fault is located within 25 miles of the plant. This fault lies approximately 18 miles to the west of the facility. No seismicity has been recorded on this fault, and no seismic events have occurred within 25 miles of PORTS during the historic period (past 100 years). Based on data from the Ohio Department of Natural Resources (ODNR), 17 earthquakes occurred within 50 miles of the plant between January 1900 and October 2011, and only a few of those were likely felt in the vicinity of PORTS (ODNR 2011a). The largest event occurred on May 17, 1901, with an epicenter approximately 20 miles from the plant and an estimated magnitude of 4.3. Since 1978, two Ohio earthquakes within 50 miles of the plant occurred with a magnitude greater than 3.0. Also since 1978, three Kentucky earthquakes within 50 miles of the plant occurred with a magnitude greater than 3.0 (Hansen 2007). It should be noted that all of the earthquakes in the area since 1978 were less than magnitude 3.6. On August 23, 2011, an earthquake with a magnitude of 5.8 occurred in east-central Virginia (approximately 285 miles from PORTS) and was felt throughout Ohio.

The Kentucky River Fault Zone and the Lexington Fault System (formerly the Bryant Station-Hickman Creek Fault) are located farther away from the plant, the latter fault being approximately 60 miles southwest. These faults bound the southern part of a north-northeast trending area of seismicity in central and eastern Ohio. Soil testing for the Gaseous Centrifuge Enrichment Plant indicated that the potential for earthquake-induced soil liquefaction at PORTS is relatively low (Law Engineering 1978). The potential for soil-structure interaction (ground motion magnification) is also slight.

3.5 SOIL

According to the soil survey of Pike County, 22 soil types occur within the PORTS property boundary. The predominant soil type at the plant is Omulga Silt Loam (U.S. Department of Agriculture [USDA] 1990). Most of the area within the active portion of PORTS is classified as Urbanland-Omulga complex with a 0 to 6 percent slope, which consists of urban land and a deep, nearly level, gently sloping, moderately well-drained Omulga soil in preglacial valleys. The urban land is covered by roads, parking lots, buildings, and railroads, making identification of the soil series difficult. The soil in these areas is so obscured or disturbed that assignment of specific soil series is not feasible. Other dominant soil types found in the upland areas surrounding the industrial complex include the Rarden, Coolville, Latham, and Wharton series.

The Omulga series is characterized as deep, nearly level, moderately drained soils formed in loess and alluvium in preglacial valleys (USDA 1990). The surface layer of Omulga Silt Loam is dark grayish-brown, friable, and approximately 10 in. thick. The subsoil is approximately 54 in. thick and is composed of three portions: (1) a yellow-brown, friable silt loam, (2) a fragipan (brittle, compacted subsurface soil) of yellow-brown, mottled, firm, and brittle silty clay loam, and (3) a yellow-brown, mottled, friable silt loam approximately 20 in. thick. Generally, the root zone is restricted to the zone above the fragipan and contains none of the urban land soils. Well developed soil horizons may not be present in all areas inside Perimeter Road because of cut and fill operations related to construction.

The remaining soil series (Rarden, Coolville, Latham, and Wharton) are similar because they are characterized as deep soils formed in shale and siltstone regolith on ridgetops and hillsides in upland areas (USDA 1990). These soils are chiefly inorganic silt and clay with some fat clay (clay of high plasticity). They have a pH ranging from 3.6 to 6.5 units whereas the Omulga soils have a slightly higher pH (4.5 to 7.3 units). The soils developed on shale regolith are characterized as having slow permeability and low available water capacity.

The soil at PORTS, whether derived from the Minford member or the Cuyahoga Formation, contains an appreciable amount of clay minerals. Clay minerals provide reaction sites for the sorption of inorganic contaminants, which then retards the migration of such contaminants in the subsurface.

3.6 HYDROGEOLOGY

The discussion of PORTS hydrogeology in this section is a summary developed from the quadrant RFI reports and annual groundwater monitoring reports mentioned at the beginning of Section 3. Data collected during the RI/FS fieldwork has been incorporated to enhance understanding of the hydrogeologic characteristics at PORTS. Further discussions of hydrogeology with regard to the candidate locations for a potential OSDC are found in Appendix D.

The groundwater flow system at PORTS includes the aquifers consisting of Berea sandstone and unconsolidated Gallia sand and gravel, along with the aquitards of Sunbury shale and unconsolidated Minford clay and silt. The basal portion of the Minford is generally grouped with the Gallia to form the uppermost and primary water-bearing unit at the facility.

Groundwater recharge and discharge areas at PORTS include both natural and man-made recharge and discharge areas. Natural recharge to the groundwater flow system comes mainly from precipitation, although land use and the presence of thick upper Minford clay deposits and the Sunbury shale effectively reduce recharge to underlying units. Discharge of groundwater to the surface occurs primarily along streams that transect the facility. Groundwater recharge and discharge areas also are influenced by man-made features, including the storm sewer system, sanitary sewer system, recirculating cooling water system, water lines, and building sumps. Groundwater flow at the plant is significantly affected by the X-700 and X-705 building basement dewatering, extraction wells in the vicinity of X-231B and X-701B, and the groundwater interceptor trenches at X-749 and X-701B. The X-700 and X-705 basement sumps remove approximately 28,000 gal of groundwater per day while the extraction wells remove a total of approximately 52,000 gal/day (DOE 2011e). The effects of man-made features on recharge and discharge would need to be accounted for during consideration of groundwater flow and transport following any D&D activities.

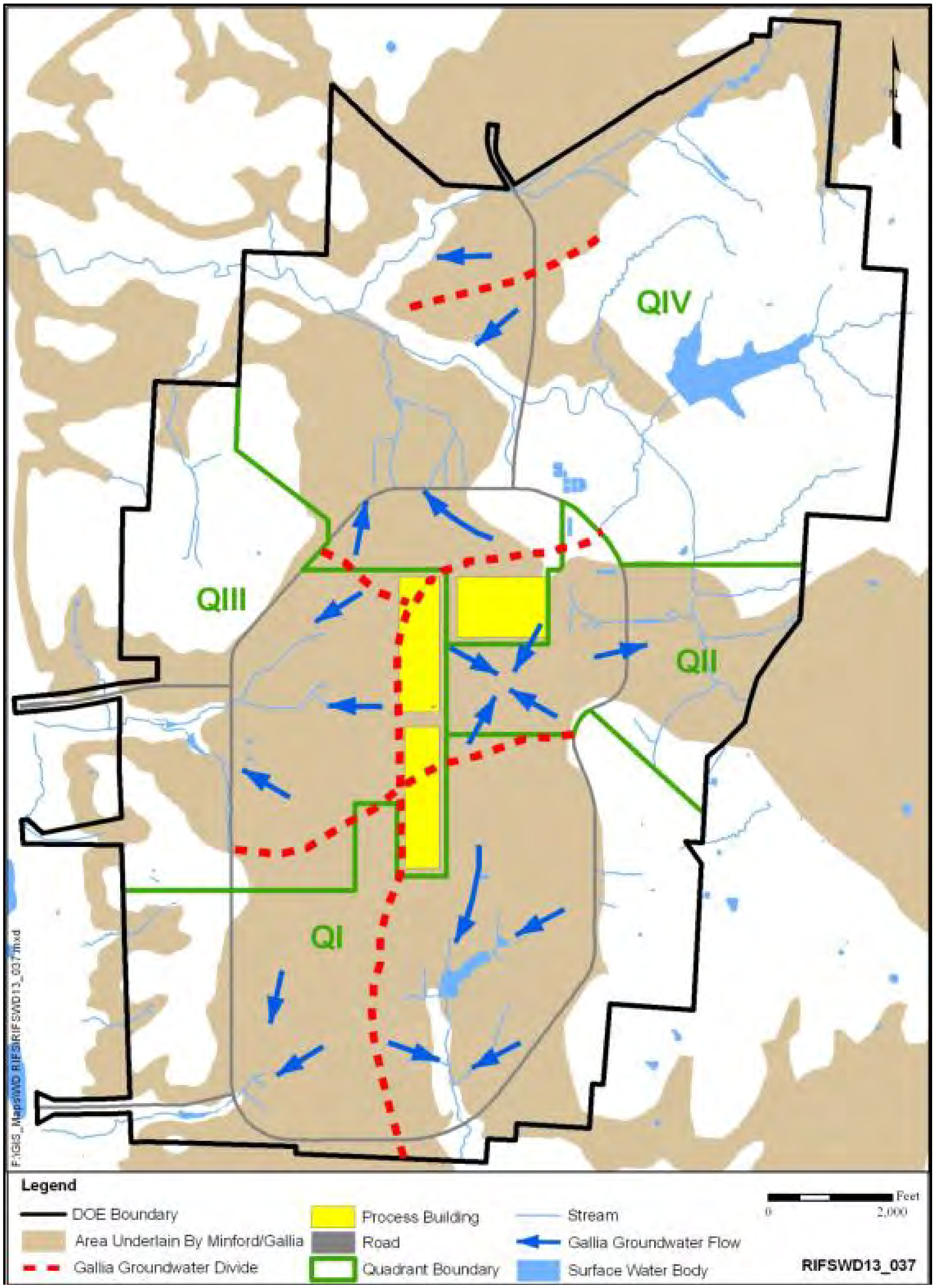
Groundwater flow at PORTS, at least within the Gallia, can generally be divided into four separate flow regions, or quadrants. Groundwater divides provide the basis for separation of PORTS into quadrants. The groundwater flow divides and general directions of groundwater flow for the Gallia and Berea aquifers are illustrated in Figures 3.7 and 3.8, respectively. The groundwater divides generally coincide with topographic highs along the center of the industrial complex (from south to north) and subtle topographic highs radiating outward and separating the predominant surface water features draining the facility. Locations of the flow divides may migrate because of small differences in response to seasonal changes in precipitation and groundwater recharge. In general, groundwater gradients are flatter in the upland areas in the center of the industrial complex and become steeper as groundwater approaches the streams or creeks. Vertical movement of groundwater between the Gallia and Berea is, in general, downward in upland areas of recharge and upward in areas of discharge near streams.

Groundwater flow in specific quadrants and the primary controls on groundwater flow are discussed in the following paragraphs.

The direction of groundwater flow in Quadrant I, the southern portion of the facility, is controlled by the presence of surface drainages (Big Run Creek and the Southwest Drainage Ditch), the storm sewer system, and bedrock topography. In general, groundwater in the Gallia flows from north to south, discharging into either Big Run Creek or the Southwest Drainage Ditch. In the south-central portion of the plant, groundwater in the Gallia flows primarily to the southeast toward the X-230 Holding Pond. The hydraulic gradient is very low because of the flat valley floor; the presence of thicker, more permeable Gallia deposits; and proximity to the east-west groundwater divide that runs through the facility. Storm drains have been observed to affect the local flow system at X-231B. The vertical hydraulic gradient from the Gallia to the Berea is steep, with an average difference of 8 to 10 ft near X-231B. The vertical hydraulic gradient between the Gallia and Berea decreases to the west as the Sunbury shale thins.

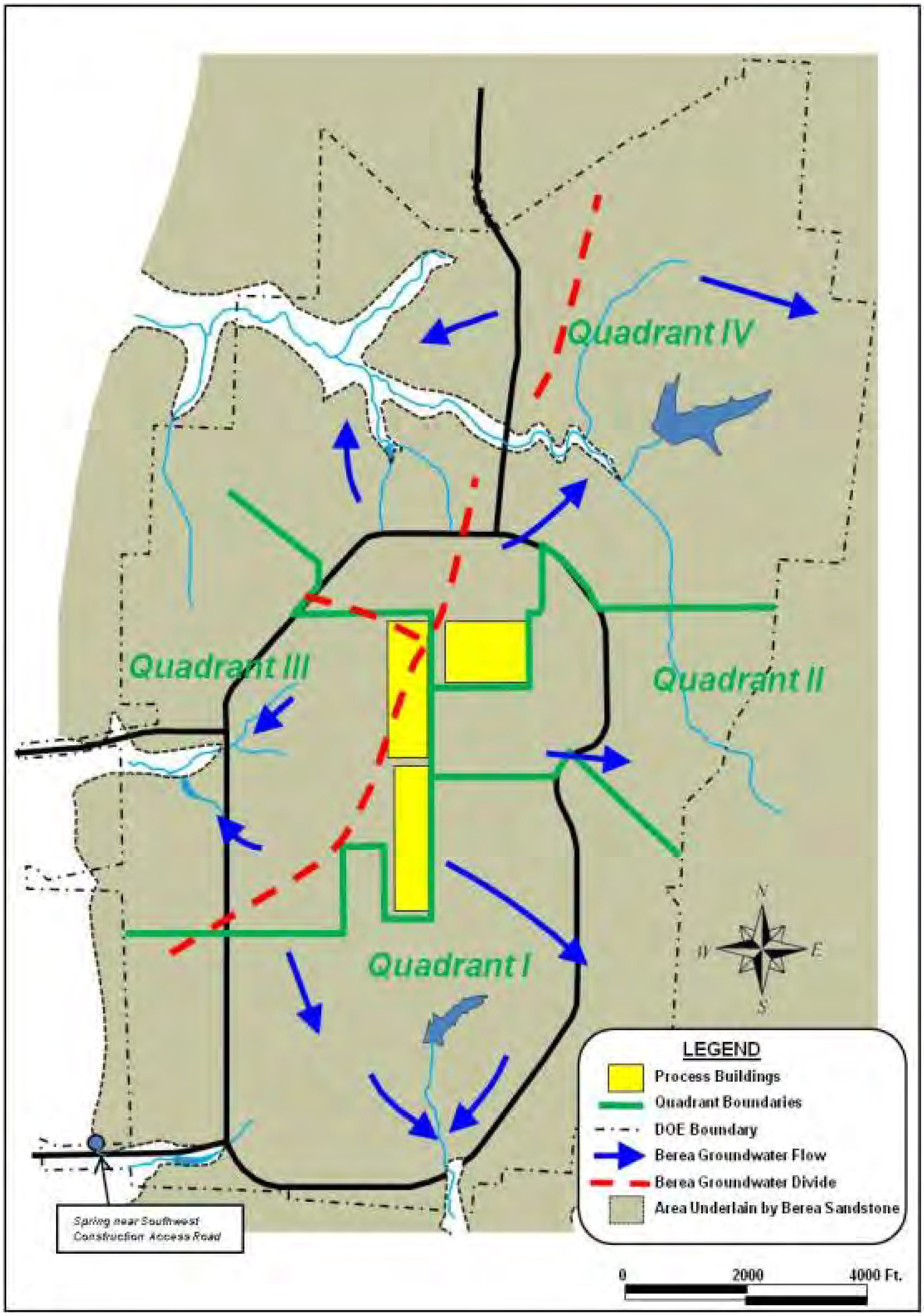
The flow system near X-749 exhibits a minor north-south-oriented divide in the Gallia. This divide runs near the western boundary of the landfill. Groundwater flows away from this divide to the east toward Big Run Creek and to the west toward the Southwest Drainage Ditch. Groundwater gradients are steep along Big Run Creek, which is attributed to the presence of sediment with low hydraulic conductivity and the rapid drop in elevation toward the creek. In this area, groundwater flow directions in the Berea are similar to the directions observed in the Gallia, but the north-south-oriented groundwater divide through Quadrant I is not present in the Berea.

Groundwater flow in Quadrant II, in the eastern flow region, is influenced by factors such as Little Beaver Creek, holding ponds and drainage ditches, building sumps, Minford clay thickness, and the presence and absence of the Sunbury shale. Little Beaver Creek is the local surface water discharge point for shallow groundwater flow in Quadrant II. Much of the groundwater in the Minford and Gallia along the eastern portion of PORTS migrates toward the creek. The storm sewer system in the area is typically completed in the Minford. The impact of this system as well as the sanitary sewer system on local groundwater flow in Quadrant II appears to be limited.



Source: Modified from DOE 2011b

Figure 3.7. Generalized Groundwater Divides and Flow Directions for the Gallia Member at PORTS



Source: Modified from DOE 2011b

Figure 3.8. Generalized Groundwater Divides and Flow Directions for the Berea Sandstone at PORTS

Groundwater flow directions in both the Minford and Gallia are affected by the X-230J7 Holding Pond and the East Drainage Ditch. Both the holding pond and drainage ditch were excavated to bedrock, causing seepage faces to develop where the water table intersects the land surface along the side walls in both the Minford and Gallia. As a result, groundwater converges toward these local discharge areas.

In Quadrant II, groundwater flow in the Berea is primarily east to northeast. In most areas, the hydraulic gradient also is downward from the Gallia to the Berea. Vertical hydraulic gradients between the Gallia and Berea are greatest where the Sunbury is a thick, competent shale. Flow through the Sunbury is assumed to be essentially vertical. Near the X-705/X-700 buildings, where the Sunbury is thin or absent, vertical gradients indicate possible upward flow from the Berea to the Gallia. However, sumps located in the basement of the X-705 building have a significant effect on groundwater flow because they create a cone of depression centered around the active sumps.

Buildings, paved areas, and thick upper Minford clay and Sunbury shale deposits effectively reduce recharge to underlying units throughout the PORTS industrial facility. West of X-701B, recharge to the Minford and Gallia is reduced because a large portion of the land is paved or covered by buildings.

Groundwater flow in Quadrant III, the western flow region, is primarily influenced by the X-2230N Holding Pond and the West Drainage Ditch, which is the local surface water receptor for groundwater in the quadrant. As a result, much of the area groundwater in the Minford and Gallia migrates to the west and eventually discharges to the upper tributaries of the ditch. The West Drainage Ditch is deeply incised into bedrock, especially west of Perimeter Road. Seepage faces develop where the water table intersects the land surface along the side walls of the ditches in both the Minford and Gallia. Storm drains in the area are constructed in the Minford and provide only a limited effect on local groundwater flow.

Although groundwater flow in the Berea is northwest to southeast, along the west portion of Quadrant III, the direction of flow in the Berea has been altered by the West Drainage Ditch and erosion of the Berea in the Scioto River Valley to the west. In this area, groundwater flow is primarily to the west. The thinning and absence of Sunbury shale along the western portion of the plant, including in much of Quadrant III, increase the communication between the Gallia and the Berea. In most areas, the flow is downward into the Berea.

Groundwater flow in Quadrant IV, in the northern portion of the facility, is strongly controlled by Little Beaver Creek, the North Drainage Ditch, and to a lesser extent, the Northeast Drainage Ditch. In the south and southeastern portions of Quadrant IV, groundwater flow in the Gallia is strongly controlled by an east-west groundwater divide that roughly coincides with the quadrant boundary. This divide is near a bedrock high in the Cuyahoga shale.

Groundwater flow directions for the Berea in Quadrant IV approximately parallel the flow directions in the Gallia, with flow primarily to the east and north toward Little Beaver Creek and to portions of the North Drainage Ditch. Because the Berea underlies the Sunbury shale, the groundwater flow in the Berea is unaffected by the bedrock high of the Cuyahoga shale near X-633. Vertical hydraulic gradients from the Gallia to the Berea are steepest near the bedrock high in the eastern portion of Quadrant IV (0.64 to 0.76 ft/ft) and in the northwestern portion of Quadrant IV near the X-734 landfill (0.41 to 0.90 ft/ft). In the far northwestern portion of Quadrant IV, where the Berea is overlain by the Sunbury and Cuyahoga Formations, the groundwater flow direction is eastward in the direction of stratigraphic dip. Upward gradients are sometimes observed where the Sunbury shale is absent, along the southern portion of Quadrant IV near the Quadrant III/IV boundary.

The plant-wide median depth to the Gallia potentiometric surface was approximately 15 ft in 2010 (the Gallia, which behaves as a semi-confined aquifer, is found at a depth of 25 to 30 ft across the industrial portion of the plant). The water table within the Minford generally lies 10 to 15 ft bgs. Many factors can affect water table depth at a particular location, including seasonal variations from increased or decreased precipitation, surface coverings such as buildings and parking lots, topography at the location, land use, thickness of the upper clay portion of the Minford member, presence of storm drains, and operation of groundwater remediation processes (phytoremediation, extraction wells, sumps, and French drains). Based on water levels reported in the 2010 groundwater monitoring report (DOE 2011b), the water table in the Minford is usually slightly higher than the potentiometric level of the Gallia aquifer.

Groundwater is a supply source for domestic, municipal, and industrial water uses in the vicinity of PORTS. Most municipal and industrial water supplies in Pike County are developed from unconsolidated sand and gravel along the Scioto River valley. No public groundwater supply wells are located near PORTS. The village of Piketon’s water supply wells are located in the Scioto River alluvium approximately 4 miles northwest of PORTS. The PORTS water supply comes from three well fields located near the Scioto River to the east of the plant, where they draw groundwater from the Scioto River alluvium. Groundwater directly beneath PORTS is not used as a domestic, municipal, or industrial water supply. There are no source water protection areas at PORTS. Beneath the facility, the groundwater yield is often too low, because of low aquifer transmissivity, to support municipal or industrial water supplies. Domestic water supplies are obtained from unconsolidated deposits in the preglacial buried valley aquifer, major tributaries of the Scioto River, or fractured bedrock encountered during drilling. Based on a previous study, domestic wells in the immediate vicinity of the PORTS property obtain groundwater from the Berea sandstone (BJC 2003a). However, an examination of drillers logs indicate several wells obtain groundwater from fractured shale or other shallower geologic units (unconsolidated sand and gravel).

Table 3.1 provides a summary of the private groundwater wells near PORTS. This summary is based on ODNR records (ODNR 2011b). The locations of these wells are shown in Figure 3.9. As shown on Figure 3.9, many of the residential wells on the west side of PORTS are located in the alluvium of the Scioto River.

Table 3.1. Summary of Private Groundwater Wells Located Near PORTS

ODNR Well Log Number	County	Township	Latitude	Longitude	Total Depth	Aquifer Type
20856	Pike	Seal	39.0343	-83.0299	68	Glacial till
38871	Pike	Scioto	38.9841	-83.0012	36	Shale
61331	Pike	Scioto	39.0023	-83.0279	30	Sand and gravel
70278	Pike	Scioto	39.0007	-83.0232	72	Sand and gravel
76028	Pike	Scioto	39.0070	-82.9834	71	Shale
76029	Pike	Scioto	39.0282	-83.0256	64	Sand and gravel
84798	Pike	Scioto	39.0288	-83.0224	80	Shale
88578	Pike	Scioto	39.0076	-82.9687	92	Gravel
88579	Pike	Seal	39.0513	-82.9626	65	Shale
102484	Pike	Scioto	38.9970	-82.9888	117	Sandstone
102498	Pike	Seal	39.0544	-83.0230	85	Sand and gravel
102499	Pike	Seal	39.0535	-83.0232	85	Sand and gravel
102751	Pike	Scioto	38.9811	-83.0211	69	Shale
102753	Pike	Scioto	38.9813	-83.0062	150	Shale

Table 3.1. Summary of Private Groundwater Wells Located Near PORTS (Continued)

ODNR Well Log Number	County	Township	Latitude	Longitude	Total Depth	Aquifer Type
102756	Pike	Scioto	39.0023	-83.0220	72	Sand and gravel
102756	Pike	Scioto	39.0023	-83.0220	72	Sand and gravel
103107	Pike	Scioto	38.9777	-82.9980	46	Grit
103110	Pike	Scioto	38.9772	-82.9871	65	Shale
103111	Pike	Scioto	38.9777	-82.9980	70	Shale
103112	Pike	Scioto	38.9748	-83.0114	40	Grit
103124	Pike	Scioto	38.9941	-82.9952	60	Grit
103131	Pike	Scioto	38.9754	-83.0114	60	Grit
109167	Pike	Scioto	39.0219	-83.0250	72	Sand and gravel
109168	Pike	Scioto	38.9935	-83.0204	56	Sand
109169	Pike	Scioto	38.9941	-83.0203	60	Shale
112501	Pike	Scioto	39.0263	-83.0253	72	Sand and gravel
112503	Pike	Seal	39.0438	-82.9822	55	Shale
112513	Pike	Scioto	39.0256	-83.0253	76	Shale
112526	Pike	Scioto	39.0008	-83.0198	74	Gravel
112541	Pike	Scioto	39.0212	-83.0252	73	Gravel and clay
112541	Pike	Scioto	39.0212	-83.0252	73	Gravel and clay
118080	Pike	Scioto	38.9914	-83.0247	58	Sand and gravel
122301	Pike	Seal	39.0455	-83.0245	78	Gravel and sand
122312	Pike	Scioto	38.9916	-82.9832	55	Shale
122337	Pike	Seal	39.0587	-82.9999	71	Silt
122341	Pike	Scioto	38.9927	-82.9952	59	Shale
122350	Pike	Scioto	38.9821	-83.0013	60	Sandstone
124056	Pike	Seal	39.0428	-83.0294	72	Sand and gravel
124057	Pike	Scioto	38.9869	-82.9957	35	Sandstone
124061	Pike	Scioto	38.9940	-82.9944	37	Sandstone
124078	Pike	Seal	39.0444	-82.9746	68	Sandstone
125063	Pike	Scioto	39.0091	-83.0236	52	Sand and gravel
129807	Pike	Scioto	38.9769	-82.9973	50	Shale
129827	Pike	Scioto	38.9826	-83.0039	36	Gravel
129842	Pike	Scioto	38.9888	-82.9952	50	Shale
129843	Pike	Scioto	38.9870	-82.9997	50	Shale
129846	Pike	Scioto	38.9814	-83.0228	54	Sand and gravel
153182	Pike	Scioto	39.0079	-82.9677	60	Shale
189279	Pike	Scioto	38.9921	-83.0196	40	Rock
224273	Pike	Scioto	38.9820	-83.0228	60	Sand and gravel
225861	Pike	Seal	39.0336	-83.0240	30	Mud & sand
240063	Pike	Scioto	38.9898	-83.0235	65	Sand and gravel
286840	Pike	Scioto	39.0092	-82.9677	78	Shale
362224	Pike	Scioto	38.9875	-82.9985	60	Freestone
362235	Pike	Scioto	38.9875	-82.9985	120	Oil
370985	Pike	Scioto	39.0037	-83.0301	62	Sand and gravel
448803	Pike	Scioto	39.0222	-83.0251	70	Shale
500851	Pike	Scioto	38.9792	-83.0218	61	Sand and gravel

Table 3.1. Summary of Private Groundwater Wells Located Near PORTS (Continued)

ODNR Well Log Number	County	Township	Latitude	Longitude	Total Depth	Aquifer Type
600902	Pike	Scioto	39.0004	-83.0243	78	Sand
810407	Pike	Scioto	39.0050	-83.0298	62	Shale
845220	Pike	Seal	39.0260	-82.9729	170	Shale
845261	Pike	Scioto	39.0067	-83.0230	110	Not reported
900150	Pike	Scioto	39.0061	-83.0320	61	Sand and gravel
2030940	Pike	Seal	39.0343	-83.0299	58	Sand and gravel
2031507	Pike	Seal	39.0569	-83.0241	91	Sand and gravel
9965065	Pike	Seal	39.0434	-83.0224	999	Shale
9965066	Pike	Seal	39.0323	-83.0238	43	Shale
9965067	Pike	Seal	39.0327	-83.0238	80	Shale
9965068	Pike	Seal	39.0459	-83.0266	61	Sand and gravel
9965080	Pike	Scioto	38.9769	-83.0216	53	Shale
9965081	Pike	Scioto	39.0068	-83.0219	77	Sand and gravel

Source: ODNR 2011b

Note: “Grit” appears to be equivalent to Berea sandstone (often reported beneath a black shale); while drillers’ logs show Well 112503 in shale, regional stratigraphic relationships suggest it is open to the Berea.

ODNR = Ohio Department of Natural Resources

Four creeks, or drainage channels, drain the facility. Little Beaver Creek drains the eastern and northern portion, Big Run Creek and the Southwest Drainage Ditch drain the southeastern and southwestern portions, and the West Drainage Ditch drains the western portion. The four creeks and drainage ditches dissect the unconsolidated Minford and Gallia members, bedrock-forming Sunbury shale (where present), and Berea sandstone, resulting in the discharge of groundwater to them. Groundwater flow beneath PORTS is generally toward one of these discharge locations, and groundwater divides form between the discharge locations along areas of highest groundwater elevation.

The hydraulic properties of the hydrogeologic units have been defined during previous investigations at the facility. Groundwater flow at the plant has been well defined by single-well aquifer tests of the Berea sandstone and Gallia sand and gravel. The average hydraulic conductivity for the Minford clay is 2.3×10^{-4} ft/day, and the average hydraulic conductivity for the Minford silt is 4.3×10^{-3} ft/day. These values are based on numerous laboratory tests. The vertical hydraulic conductivities of Minford clay and Minford silt are approximately an order of magnitude lower than their horizontal hydraulic conductivities. The hydraulic conductivity determined by single-well aquifer tests of the Gallia ranges from 0.11 to 150 ft/day with a mean value of 3.4 ft/day (DOE 1996a). In 2008, an aquifer performance test was conducted near the X-740 Waste Oil Handling Facility to estimate the hydraulic characteristics of the Gallia and Berea Formations and determine the interconnectedness between these two units (DOE 2009a). That test determined the hydraulic conductivity for the Gallia to be 1.71 ft/day, which is comparable to the results from previous testing. The test also demonstrated the two aquifer units in that area are relatively interconnected.

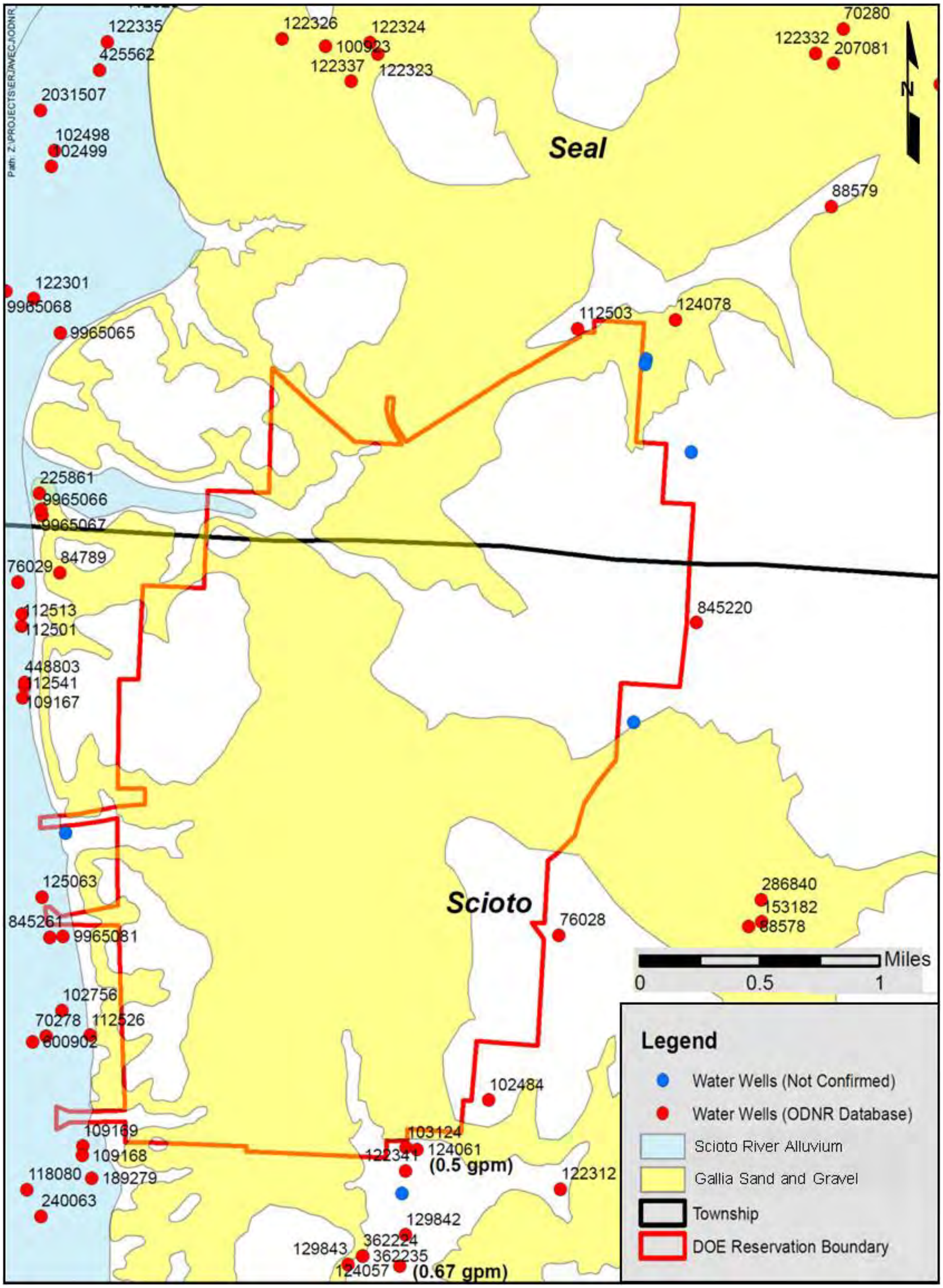


Figure 3.9. Off-PORTS Private Domestic Water Wells at PORTS

The estimated hydraulic conductivity of the Sunbury shale, based on numerical groundwater modeling, ranges from 1.6×10^{-4} to 9.6×10^{-4} ft/day (DOE 2011b). The vertical hydraulic conductivity of the Sunbury shale is assumed to be an order of magnitude lower than its horizontal hydraulic conductivity (measured values of vertical hydraulic conductivity average approximately 1.3×10^{-5} ft/day). The hydraulic conductivity determined by single-well aquifer tests of the Berea sandstone ranges from 4.5×10^{-3} to 15.0 ft/day with a mean value of 0.16 ft/day. The higher hydraulic conductivity tends to occur in areas where the Sunbury shale is absent. In the 2008 aquifer test near X-740, the Berea Formation exhibited a hydraulic conductivity of 0.56 ft/day (DOE 2009a).

The groundwater monitoring report for calendar year 2010 (DOE 2011b) determined groundwater flow velocities in the Gallia and Berea aquifers. The semiannual hydraulic gradients and linear velocities for these water-bearing units in various monitoring areas at PORTS are summarized in Table 3.2.

Table 3.2. Groundwater Linear Velocity Ranges Calculated for PORTS Monitoring Areas Using Calendar Year 2010 Data

Monitoring Area	Gallia Velocity Ranges[a] (ft/d)	Berea Velocity Ranges[a] (ft/d)
X-749/X-120/PKL	0.08-0.6	0.1-0.3
Quadrant I/X-749A	0.2-1.2	0.1
Quadrant II	0.3-0.4	None[b]
X-701B	0.1	0.2[c]
X-633/X-533	0.03-0.06	None[b]
X-616	1.5-2.4	0.8-1.4
X-740	0.2	0.2-0.3
X-611A	None[b]	0.4
X-735	1.7-6.9	0.03
X-734	0.1	0.02

[a] Some of the monitoring areas are divided into more than one zone. The ranges reflect the calculated extremes for the zones over the two monitoring periods (first or third quarters 2010).

[b] Velocity is not provided for the Berea aquifer at Quadrant II and X-633/X-533 because insufficient data are available for the Berea in these areas. Velocity is not provided for the Gallia aquifer at X-611A because the Gallia is expected to be absent in this area, and Gallia wells are installed only on the western and southern edges of the area.

[c] Not determined in calendar year 2010; value reported is from calendar year 2008 data.

PKL = Peter Kiewit Landfill

Several areas of groundwater contamination have been identified at PORTS. The main contaminants are VOCs (TCE) and radionuclides (uranium, technetium-99). Defined groundwater contaminant plumes consisting primarily of TCE are found at five of the groundwater monitoring areas (Figure 3.10). These areas include the X-749 Contaminated Materials Disposal Facility/X-120 Old Training Facility/Peter Kiewit Landfill, Quadrant I Groundwater Investigative Area, Quadrant II Groundwater Investigative Area, X-701B Holding Pond, and X-740 Waste Oil Handling Facility. The TCE plume originating in the X-749/X-120/Peter Kiewit Landfill area had migrated off PORTS, at contamination levels less than the drinking water standard, until additional remedial actions were implemented to halt further off-PORTS migration. Due to underlying geology, other PORTS contaminant plumes will discharge to surface water rather than migrate off PORTS as a groundwater contaminant.

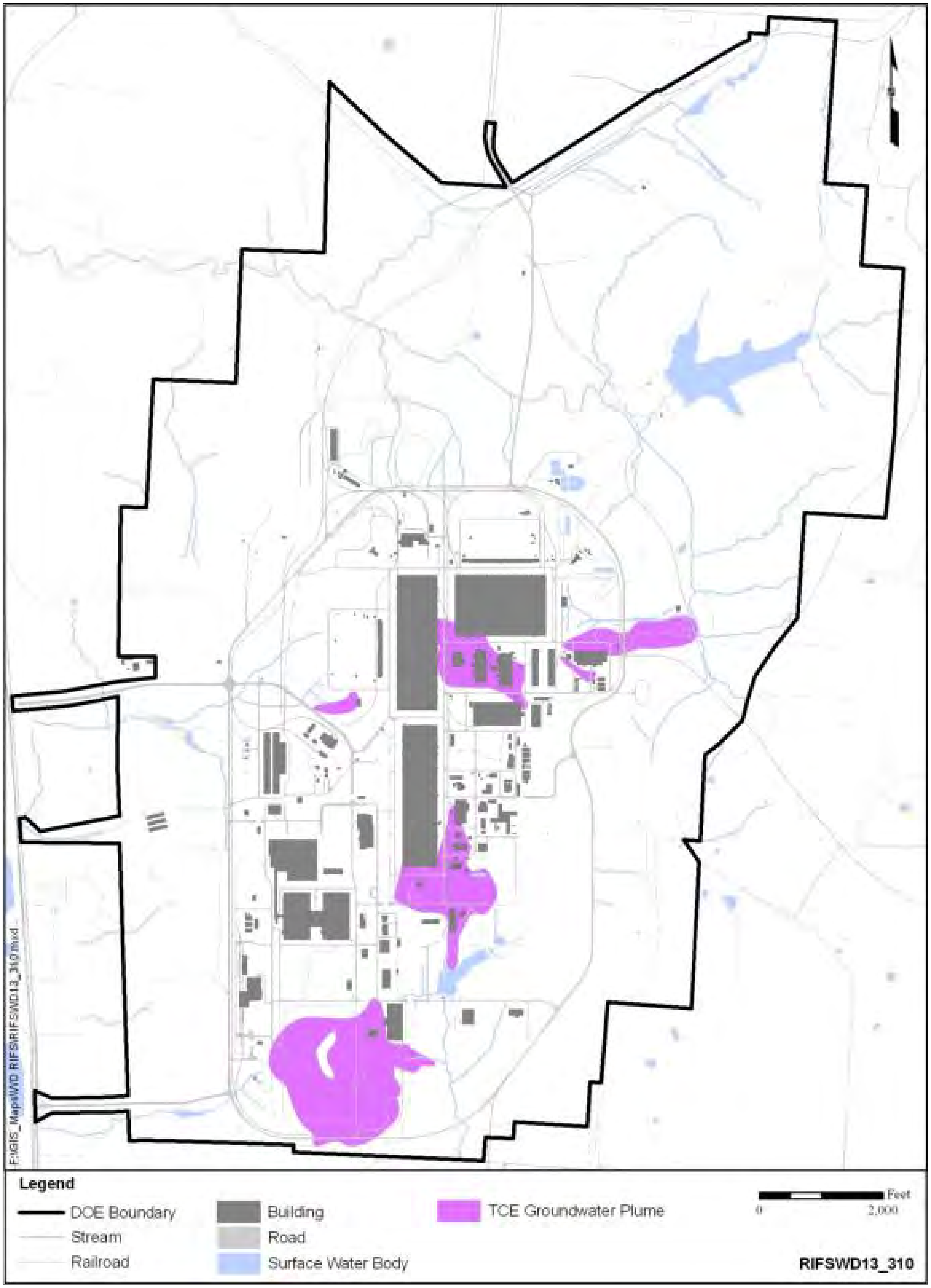


Figure 3.10. Groundwater Contamination (TCE) in the Gallia Member at PORTS

3.7 DEMOGRAPHY AND LAND USE

PORTS is situated on a 3,777-acre parcel of DOE-owned land in Scioto Township, Pike County, Ohio. It is located 2 miles east of the Scioto River and within the Scioto River drainage basin. PORTS is in a small valley running parallel to and approximately 130 ft above the floodplain of the Scioto River.

3.7.1 Population and Socioeconomics

The economic region of influence (ROI) for PORTS includes four counties in southern Ohio: Ross County, Scioto County, Jackson County, and Pike County (Figure 3.11). The largest city within 50 miles of PORTS is Chillicothe, Ohio, with a population of 21,901 persons, based on year 2010 census results (Ohio Department of Development [ODOD] 2011a). The city of Chillicothe in Ross County, Ohio, is located approximately 27 miles north of PORTS.

Pike County, one of the least populated counties in Ohio, has 28,709 residents with a population density of 65 people per square mile. The Pike County population is projected to increase by approximately 8.3 percent by 2020 (ODOD 2011b). Scattered rural development is typical; however, the county contains a number of small villages such as Piketon and Beaver, which lie within a few miles of the plant. The county's largest community, Waverly, is approximately 10 miles north of the plant and has a population of 4,408 residents. The nearest residential center in this area is Piketon, which is about 5 miles north of PORTS on U.S. Highway 23. Piketon has a population of 2,181 (ODOD 2011a). Several residences are located adjacent to the southern half of the eastern PORTS boundary and along Wakefield Mound Road (old U.S. 23), directly west of the plant. Residences are also present outside the DOE boundary to the northeast of PORTS.

The total labor force in Pike County was approximately 10,900 in 2008. Total average employment in the same year was 9,737. Based on these numbers, the major employment sectors were manufacturing (31.1 percent); government (18.3 percent); trade, transportation, and utilities (13.3 percent); education and health services (11.6 percent); professional and business services (7.1 percent); leisure and hospitality (6.8 percent); and construction (6.7 percent) (ODOD 2011b).

By 2009, the labor force in Pike County had increased to approximately 11,200. Of this total, approximately 9,500 people were employed and 1,700 were unemployed. In 2008, the unemployment rate had been 10.1 percent in Pike County, but it increased to 15.1 percent in 2009, which was a 33 percent increase in the unemployment rate in just 1 year (ODOD 2011b).

The average 2008 per capita personal income in Pike County was $26,163, compared to the state average of $35,889 and the national calendar year 2008 average of $40,166 (ODOD 2011c).

3.7.2 Land Use

Land use in the general vicinity of PORTS includes urban land, residential areas, private and commercial farms, light industries, and transportation corridors (highways and railroads) (NRC 2006a). In Pike County the land use is approximately 66 percent forest, 23 percent cropland, and 8 percent pasture. The remaining 3 percent is classified as urban land, open water, and bare/mines areas (ODOD 2011b). The latter classification refers to largely unvegetated areas of nonurban land, some of which may be associated with mining. Two public recreational areas are located in the vicinity of PORTS. One is Brush Creek State Forest, located 5 miles to the southwest of the plant. The other is Lake White State Park, located 6 miles north of the plant (NRC 2006a).

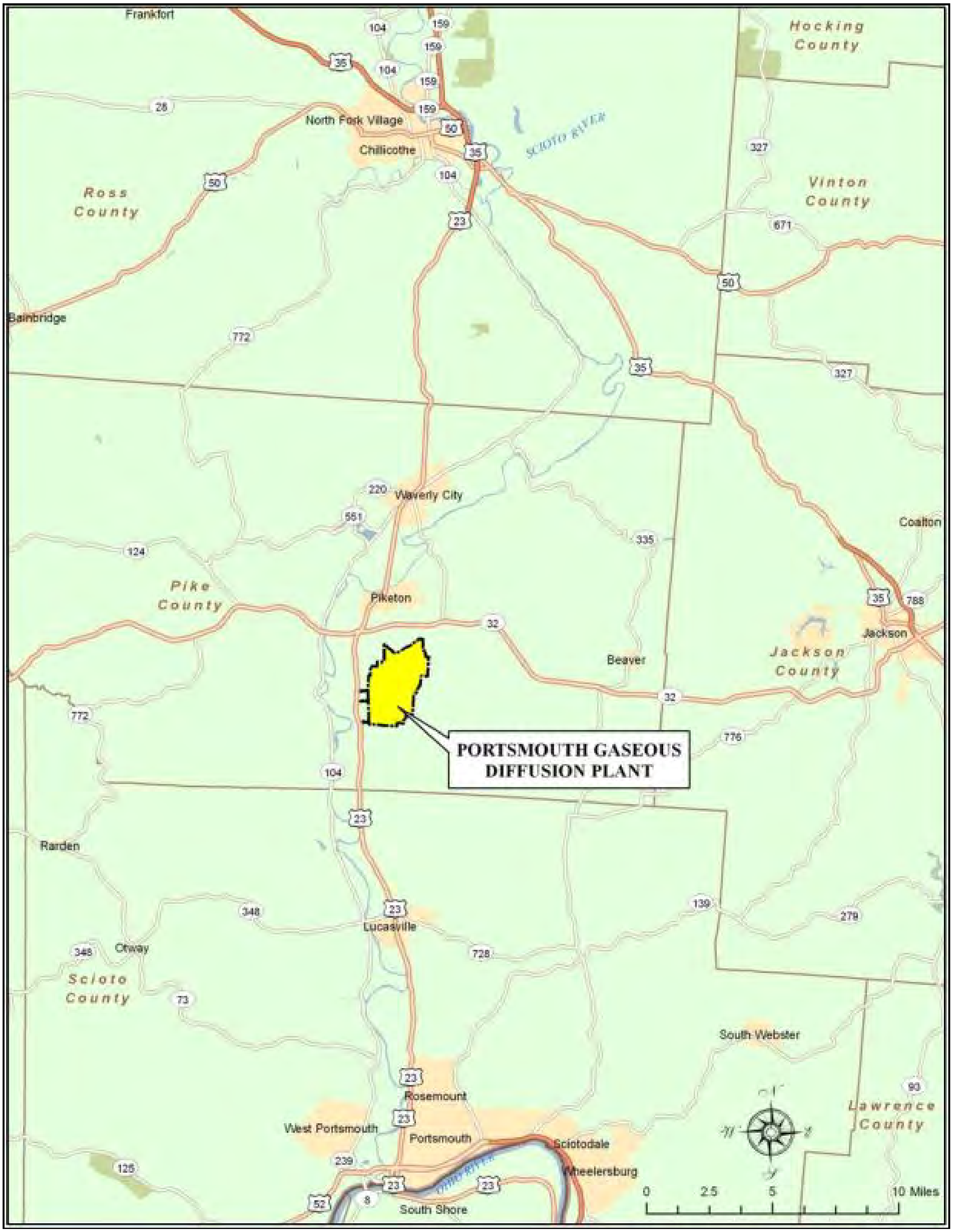


Figure 3.11. Locations of the Four ROI Counties Relative to PORTS

In the immediate area surrounding PORTS, land is used primarily for farms, pastures, forests, and rural residences. The dominant land use is farming with approximately 25,430 acres of farmland. Farmland that qualifies for protection under the Farmland Protection and Policy Act of 1981 is located primarily along the Scioto River floodplain. Marginal quality farmland is located adjacent to PORTS and on the plant. The soil survey of Pike County indicates that soils adjacent to PORTS and on the plant are of low fertility and do not qualify as prime farmland. The land surrounding PORTS has 24,400 acres of forest cover (NRC 2006a).

At PORTS, Perimeter Road surrounds a 1,300-acre centrally developed industrial use area, which includes a 750-acre controlled access area. The portion of the plant outside of Perimeter Road has approximately 2,500 acres of land that include several areas of contiguous parcels ranging in size from 1 to over 1,000 acres. Land uses in this area include a water treatment plant, holding ponds, sanitary and inert landfills, cylinder storage yards, parking areas, open fields, and forested buffer areas (NRC 2006a).

More than 400 facilities are present at PORTS. They include the three large process buildings, support buildings and structures, utilities, plant systems, holding ponds, and infrastructure. Approximately 75 percent of these facilities are included in the PORTS D&D Project. Two new facilities have been constructed over the last several years at PORTS: (1) the USEC American Centrifuge Plant built and owned by USEC pursuant to their NRC license, which will produce enriched uranium for commercial nuclear reactor fuel, and (2) the Depleted Uranium Hexafluoride (DUF_6) Conversion Facility, which was constructed by DOE to convert DUF_6 into constituents for disposal and commercial resale. In addition, a new dry air facility and a steam generation plant have recently been constructed.

Most operations at PORTS are supported by a steam plant, electrical switchyards, cooling towers, cleaning and decontamination facilities, water and wastewater treatment plants, maintenance and laboratory facilities, and office buildings. The buildings and other facilities are connected and served by an extensive network of utilities, plant systems, streets, roads, and sidewalks. Plant utilities include dry air, nitrogen, potable water, fire suppression water, cooling water, steam for heating, electric power, and a sewer system. DOE is continuing demolition of inactive, surplus facilities at PORTS. Between 2006 and 2008, DOE demolished approximately 16 inactive facilities (DOE 2010b). In 2009, DOE Headquarters continued the planning process for D&D of the PORTS gaseous diffusion buildings and facilities, which was initiated in 2007 (DOE 2011d).

Currently, DOE has two real property leases with the Southern Ohio Diversification Initiative (SODI). The first lease between DOE and SODI was signed in April 1998 for 7 acres of land on the north side of the DOE property. This tract is used as a right-of-way for a railroad spur that connects to the existing DOE north rail spur. SODI subleases a portion of this property to the Glatfelter Corporation to allow access to the rail line for a wood-grading operation. In October 2000, a second lease between DOE and SODI was signed to allow concurrent SODI access to and use of the existing north rail spur.

3.7.3 Cultural Resources

Cultural resources include any prehistoric or historic district, site, building, structure, or object resulting from, or modified by, human activity. Under federal regulations (36 *CFR* 800), federal agencies must assess the impacts their actions have on historic properties and, if appropriate, avoid, minimize, or mitigate adverse effects. Historic properties are cultural resources listed in, or eligible for listing in, the National Register of Historic Places (NRHP) because of their significance and integrity.

PORTS and its surrounding area have the potential to yield both prehistoric and historic cultural resources. Beginning in 1996 and continuing until 2012, DOE has conducted a number of cultural resource surveys. The purpose of the surveys was to identify historic properties.

3.7.3.1 Previous archaeological surveys

In September 1996 and April-May 1997, a Phase I literature review and archaeological survey were conducted at PORTS. The Phase I archaeological survey resulted in the identification of 36 previously undocumented archaeological sites within the PORTS boundary (Table 3.3). These were recorded in the Ohio Archaeological Inventory. The prehistoric sites include five isolated artifact finds and two lithic scatters. Lithic scatters consist of prehistoric stone tools and the discarded stone debris from making them. Two sites contain both prehistoric and historic temporal components represented by an isolated prehistoric artifact find/historic cemetery and a prehistoric lithic scatter/historic farmstead. Thirteen of the sites identified in the 1996-1997 surveys contain the remnants of historic-era farmsteads, seven sites are represented by historic artifact scatters or open refuse dumps, two sites are represented by isolated historic artifact finds, four sites are represented by PORTS-related structural remnants, and one site is another historic cemetery (Schweikart et al. 1997). All of these sites are located outside of Perimeter Road (DOE 2007b).

Table 3.3. Archaeological Sites Identified in the Phase I Survey within the PORTS Boundary

Site Number	Site Name	Temporally Diagnostic Artifacts/Remains	Temporal Designation	Recommended as an Historic Property[a]
33Pk184	Davis Farmstead	Architectural features; glass; ceramics; container caps	Historic	No[c]
33Pk185	South Shyville Farmstead	Architectural features; glass; ceramics; container caps; batteries; harness/strapping	Historic	No[c]
33Pk186	None	Lithic scatter	Prehistoric	No
33Pk187	Unnamed Farmstead	Architectural features	Historic	No
33Pk188	None	PORTS-related structural remnants	Historic	No
33Pk189	Mount Gilead Cemetery	Isolated artifact find (prehistoric) and 70 headstones, footstones, and other burial-related monuments	Prehistoric and historic (MC)	No[b]
33Pk190	None	PORTS-related structural remnants	Historic	No
33Pk191	None	Open refuse dump	Historic	No
33Pk192	None	Open refuse dump	Historic	No
33Pk193	Iron Wheel Farmstead	Architectural features; glass; ceramics; container caps	Historic	No[c]
33Pk194	North Shyville Farmstead	Architectural features; glass; ceramics; container caps	Historic	No[c]
33Pk195	Beaver Road Farmstead	Architectural features; glass; ceramics; container caps; harness/straps; iron pulley	Historic	No[c]
33Pk196	None	PORTS-related structural remnants	Historic	No
33Pk197	Dutch Run Farmstead	Architectural features; no artifacts	Historic	No[c]
33Pk198	None	Isolated artifact find	Prehistoric	No
33Pk199	None	Isolated artifact find	Historic	No
33Pk200	None	Historic artifact scatter	Historic	No
33Pk201	None	Isolated artifact find	Historic	No
33Pk202	None	Historic artifact scatter	Historic	No
33Pk203	Ruby Hollow Farmstead	Architectural features; glass; ceramics; container caps; metal conduit; brass button; nail; ferrous blobs	Historic	No[c]

Table 3.3. Archaeological Sites Identified in the Phase I Survey within the PORTS Boundary (Continued)

Site Number	Site Name	Temporally Diagnostic Artifacts/Remains	Temporal Designation	Recommended as an Historic Property[a]
33Pk204	None	Isolated artifact find	Prehistoric	No
33Pk205	None	Isolated artifact find	Prehistoric	No
33Pk206	Terrace Farmstead	Lithic scatter/architectural features; glass; ceramics; brick; container caps; wire; nails; sheet metal; ferrous blobs	Prehistoric and historic (MC)	No[c]
33Pk207	None	Isolated artifact find	Prehistoric	No
33Pk208	None	Isolated artifact find	Prehistoric	No
33Pk209	None	Historic artifact scatter	Historic	No
33Pk210	None	Lithic scatter	Prehistoric	No
33Pk211	Bamboo Farmstead	Architectural features; glass; ceramics; container caps; aluminum pot; metal cans; license plate	Historic	No[c]
33Pk212	Railside Farmstead	Architectural features; glass; iron pry bar	Historic	No[c]
33Pk213	Log Pen Farmstead	Architectural features; glass; container caps	Historic	No[c]
33Pk214	Holt Cemetery	Three headstones and 15 human burial depressions	Historic	No[b]
33Pk215	None	Open refuse dump	Historic	No
33Pk216	None	Open refuse dump	Historic	No
33Pk217	Stockdale Road Dairy Farmstead	Architectural features; glass; ceramics; brick; container caps; aluminum connector; hacksaw blade	Historic	No[c]
33Pk218	Cannett Road Farmstead	Architectural features; glass; ceramics; metal hinge with screws	Historic	No[c]
3Pk219	None	PORTS-related structural remnants	Historic	No

Source: DOE 2007b, Schweikart et al. 1997, Klinge 2009, Klinge and Mustain 2011, Pecora and Burks 2013

[a] As defined in 36 *CFR* 800.16.
[b] The OHPO considers the two cemeteries to be NRHP-eligible.
[c] Determinations made from Phase II surveys conducted post-1996/1997.

MC This is a multiple component archaeological site that shows evidence of both a prehistoric and historic occupation.

CFR = Code of Federal Regulations
DOE = U.S. Department of Energy
NRHP = National Register of Historic Places
OHPO = Ohio Historic Preservation Office
PORTS = Portsmouth Gaseous Diffusion Plant

Investigators recommended that 20 of the 36 sites do not meet NRHP eligibility criteria and do not qualify as historic properties. Preservation was recommended by the Ohio Historic Preservation Office (OHPO) for the two cemeteries, Mount Gilead Cemetery and Holt Cemetery, despite the fact that cemeteries are generally not eligible for nomination to the NRHP. One prehistoric lithic scatter and 13 farmsteads were recommended for further study.

Phase II archaeological test excavations at the prehistoric lithic scatter site were performed in 2003 (DOE 2011d). The results of the Phase II investigation indicated that the portions of the site on DOE property are not eligible for listing on the NRHP (the site extends beyond the DOE boundary). In 2010 and 2011, Phase II eligibility testing of the remaining farmsteads was conducted. None of the sites were found to be eligible for the NRHP.

During the planning phase of the work for the Phase II investigations of the farmsteads first identified in the 1996-1997 surveys, a number of maps and other materials were located to provide additional information on the settlement pattern of the area in the early 1900s. An examination of the materials identified farmsteads that also warranted investigation. Reconnaissance-level surveys were conducted of the farmsteads. Eleven were recommended for Phase I surveys, and of those 11, one was recommended for a Phase II survey. All the surveys concluded that none of the properties are eligible for the NRHP (Klinge 2009, Klinge and Mustain 2011, Pecora and Burks 2013, Pecora et al. 2013).

The Ohio Archaeological Inventory at the OHPO contains records on approximately 2,000 prehistoric Native American mounds in Ohio. Some of these mounds were once present on the floodplain of the Scioto River to the west of PORTS. Over the past 200 years, erosion, logging, plowing, and development have erased these mounds and many others in Ohio. However, some may remain as very low topographic rises on the landscape and are perceptible with the aid of geographic information systems (GIS) and remote sensing technology (Burks 2011).

As of 2011, no prehistoric mounds had been documented at PORTS. During May and June 2011, a study was conducted of the entire PORTS Facility using advanced technology to determine if there were prehistoric mound-like features on the plant. This study included a detailed review of the PORTS preconstruction topographic maps and the use of high-density Light Detection and Ranging (LiDAR) data. As a result, 28 topographic features (1 to 10 ft tall and up to 82 ft in diameter) were identified at PORTS. However, archaeological ground-truthing visits to each location indicated that all of these features were either naturally occurring features or a result of historic-era or recent activity at PORTS (Burks 2011).

The study concluded that PORTS contains no prehistoric mounds 1 ft tall or taller, which is the vertical size range of nearly all such documented mounds in Ohio. If smaller or more deflated mounds are present on the plant, they are not detectable using LiDAR data or visual examination for topographic features.

3.7.3.2 OSDC Study Area archaeological surveys

In late 2011, archaeological surveys were initiated of the perimeter areas of PORTS not previously surveyed. The surveys were conducted to complete the Section 110 National Historic Preservation Act (NHPA) survey efforts that were begun in 1996, 1997. The surveys included two OSDC Study Areas (Figure 3.12) under evaluation for on-Site disposal and areas that may be required for support activities. OSDC Study Area D is located in the northeast corner of PORTS and was divided into two distinct areas, Archaeological Study Area 1 and Archaeological Study Area 2. OSDC Study Area C was designated as Archaeological Study Area 3 for the purposes of the archaeological surveys. OSDC Study Area B is located inside Perimeter Road, within a previously disturbed area, and does not require additional archaeological survey. OSDC Study Area A is partially located inside Perimeter Road. The portion outside of Perimeter Road is coincident with OSDC Study Area C.

<u>*Archaeological Study Area 1*</u>

A Phase I archaeological survey was conducted of an approximately 320-acre parcel. The survey effort also included the survey of a proposed test pit location in a previously soil-disturbed area near the center of Archaeological Study Area 1. Five archaeological sites were identified during the survey in Archaeological Study Area 1: four considered prehistoric with chert flakes and one historic with glass and nails. None are considered historic properties. All were located in the far south portion of the survey area. No archaeological sites were identified in the proposed test pit location (Mustain 2013).

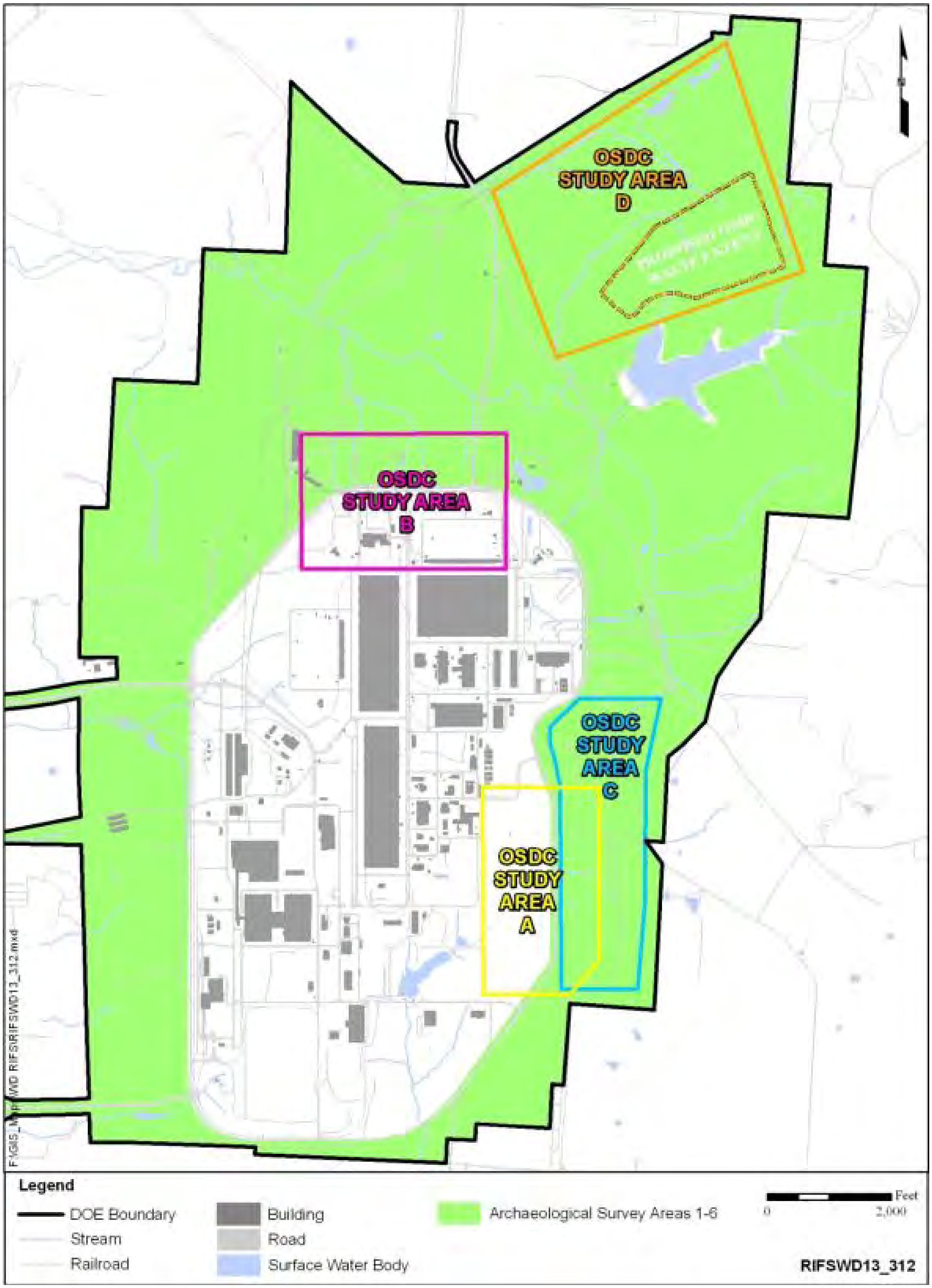


Figure 3.12. Archaeological Study Area Locations

Archaeological Study Area 2

A Phase I archaeological survey was conducted of an approximately 352-acre parcel of land in the far northeast corner of PORTS. As a result of the Phase I survey, a Phase II assessment study was recommended and performed for three sites identified within the parcel. As a result of the Phase II investigation, two sites are recommended as eligible for listing on the NRHP. The two eligible sites are prehistoric with numerous artifacts. In addition, the Holt Cemetery is found within this archaeological study area. The OHPO has recommended that the cemetery is NRHP-eligible. DOE is evaluating impacts of the proposed actions for potential adverse effects to historic properties and is developing potential mitigation measures for any adverse effects where avoidance or minimization is not practicable.

Archaeological Study Area 3

A Phase I archaeological survey was conducted of an approximately 361-acre parcel of land within PORTS, referred to as Archaeological Study Area 3, located east of Perimeter Road and the PORTS building complexes. Previous cultural resource work at PORTS identified a total of 20 recorded archaeological sites in Archaeological Study Area 3. During the 2012 survey, no additional fieldwork was performed at these previously recorded sites. Ten new archaeological sites were identified as a result of the Phase I archaeological investigations of Archaeological Study Area 3. However, none were determined eligible for the NRHP, and no further work was recommended by the archaeologists.

3.7.3.3 Balance of perimeter (Archaeological Study Areas 4, 5, 6)

For the remainder of the plant, referred to as the balance of the perimeter, archaeological investigations were initiated in early 2012 to locate, document, and evaluate prehistoric archaeological sites in all areas outside of the OSDC Study Areas. The approximate acreage for these three areas is as follows: Archaeological Study Area 4 (381 acres), Archaeological Study Area 5 (690 acres), and Archaeological Study Area 6 (338 acres) for a total of 1,409 acres.

The results of the individual archaeological surveys have been submitted to the OHPO and consulting parties for information. A summary report that will document the findings of the surveys is in development. This summary report will be submitted to the OHPO and consulting parties for information as well.

3.7.4 Transportation

Activities at PORTS are supported by a system of transportation infrastructure that consists of roads, railroads, barges, and airports.

3.7.4.1 Roads

Two of southern Ohio’s major highway systems, U.S. Route 23 and State Route 32/124, provide access to PORTS (Figure 3.11). Both routes are four lanes with U.S. Route 23 traversing north-south and State Route 32 traversing east-west. The plant is 3.5 miles from the U.S. Route 23 and State Route 32/124 interchange. State Route 32/124/50 runs 185 miles east-west from Cincinnati through Piketon to Parkersburg, West Virginia. To the west, State Route 32 provides access to Cincinnati's three interstate highways, I-71, I-74, and I-75. To the east, State Route 32/50 is linked with I-77. Approximately 70 miles north of the plant, U.S. Route 23 intersects I-70, I-71, and I-270. Vehicles also may access I-64 approximately 35 miles southeast of Portsmouth.

The main access road for PORTS has a four-lane interchange with U.S. Route 23. The main access road is closed to general public access and connects to Perimeter Road, which encircles the fenced portion of the plant. Smaller roads that intersect with Perimeter Road from four directions provide access to inner portions of the plant. The buildings and facilities are serviced with a system of roads and streets, which generally follow a north-south grid. This system is in generally good condition because of road repaving projects (NRC 2006b).

As discussed above, there are two access roads to PORTS, U.S. Route 23 and State Route 32. Table 3.4 provides the annual average daily traffic for these roads. Load limits on these routes (85,000 lb) are controlled by the ORC gross vehicle weight. Special overload permitting is available (NRC 2006b).

Table 3.4. Traffic Conditions on Access Roads to PORTS

Access Road	Annual Average Daily Traffic
U.S. Route 23, entrance to PORTS	14,490
State Route 32 and U.S. Route 23	7,700

Source: Ohio Department of Transportation 2011.

PORTS = Portsmouth Gaseous Diffusion Plant

Except during plant shift changes, traffic levels on the plant access roads and Perimeter Road are low. Peak traffic flows occur at shift changes, and the principal traffic problem areas during peak morning/afternoon traffic are locations where parking lot access roads meet Perimeter Road (NRC 2006b).

3.7.4.2 Railroads

Two railroad carriers, CSX and Norfolk Southern, serve Pike County. The CSX system provides access to other rail carriers. Railroad track in the vicinity of Piketon allows a maximum train speed of 60 miles/hour (DOE 2004).

A railroad system is located at PORTS. The Norfolk Southern railroad connects to the CSX main rail system via a main rail spur entering the northwest portion of PORTS. Approximately 17 miles of track lie within the boundaries of PORTS. However, only approximately one-third of the tracks are currently in service. Several track configurations (switching capabilities) are possible within the plant. The on-PORTS railroad system is used infrequently, approximately one train per week (DOE 2004).

3.7.4.3 Barges

PORTS can be served indirectly by barge transportation on the Ohio River. However, use of the Ohio River barge terminals would require initial transportation of loads over public roads leading from PORTS to the barge terminal in the city of Portsmouth. The bulk materials-handling facility at the Portsmouth Barge Terminal is available for transporting bulk materials and heavy-unit loads. All heavy-unit loading is done by mobile crane or barge-mounted crane at the open-air terminal. The Ohio River provides barge access to the Gulf of Mexico via the Mississippi River or the Tennessee-Tombigbee Waterway. Travel time to New Orleans is 14 to 16 days. A barge trip to St. Louis takes 7 to 9 days, and a trip to Pittsburgh takes 3 to 4 days. The USACE maintains the Ohio River at a minimum channel width of 800 ft and a depth of 9 ft (NRC 2006a).

3.7.4.4 Airports

Because of the relatively isolated location of PORTS, commercial air service is limited. The nearest airport is the Greater Portsmouth Regional Airport, located approximately 15 miles south of the plant. This airport has dual runways and T-hangers and is operated by Chasteen Aviation, Inc. The airport mostly serves private aircraft owners and business travelers. There are no regularly scheduled commercial flights; however, charter service is available. Another nearby airport, the Pike County

Airport, is located just north of Waverly. This facility is similar in size and makeup to the Greater Portsmouth Regional Airport. Three international airports are located within a 2-hour drive of the plant: Cincinnati/Northern Kentucky International Airport, Dayton International Airport, and Port Columbus International Airport.

3.8 ECOLOGY

This section describes the existing ecological environment at PORTS and in its vicinity. It includes descriptions of terrestrial resources (flora and fauna); aquatic resources; rare, threatened, and endangered species; wetlands; and environmentally sensitive areas. This section describes the ecological resources present at PORTS.

3.8.1 Terrestrial Resources

Terrestrial habitat types and the flora and fauna that depend upon them are described in this section of the report.

3.8.1.1 Flora

PORTS and the surrounding area contain diverse terrestrial habitat types representing many successional stages in ecosystem development. A terrestrial community is described by the dominant vegetation species that characterize the community. The following 10 terrestrial habitat types (DOE 2001b, NRC 2006a) have been identified at PORTS:

- Old field areas – Early successional stage of disturbed areas dominated by tall weeds, shade-intolerant trees, and shrubs

- Scrub thicket – Later successional stage covering old field areas dominated by dense thickets of small trees

- Managed grassland – Open areas actively maintained and dominated by grasses

- Upland mixed hardwood forest – Mesic to dry upland areas dominated by black walnut (*Juglans nigra*), black locust (*Robinia pseudoacacia*), honey locust (*Gleditsia triacanthos*), black cherry (*Prunus serotina*), and persimmon (*Diospyros virginiana*)

- Pine forest – Advanced successional stage following scrub thicket; the overstory dominated by Virginia pine (*Pinus virginiana*)

- Pine plantation – Nearly pure stands of Virginia pines

- Oak-hickory forest – Well-drained upland soils; white oak (*Quercus alba*) and shagbark hickory (*Carya ovata*) are the most dominant of the oaks and hickories

- Riparian forest – Periodically flooded, low areas associated with streams, dominated by cottonwood (*Populus deltoides*), sycamore (*Platanus occidentalis*), willows (*Salix sp.*), silver maple (*Acer saccharinum),* and black walnut

- Beech-maple forest – Undisturbed areas dominated by American beech (*Fagus grandifolia*) and sugar maple (*Acer saccharum*)

- Maple forest – Dominated by sugar maple and other shade-tolerant species.

The most common type of vegetation on PORTS is managed grassland, which makes up approximately 30 percent of the total area of the plant. Oak-hickory forest covers approximately 17 percent, and upland mixed hardwood forest covers approximately 11 percent (NRC 2006a). The areas covered by each habitat type are presented in Table 3.5.

Table 3.5. Terrestrial Habitat Types at PORTS

Habitat Type	**Approximate Total Area (Acres)**	**Approximate Number of Communities**	**Percent of Total Area**[a]
Managed grassland	1,102	Numerous[b]	30
Oak-hickory forest	632	14	17.2
Old field	420	10	11.4
Upland mixed hardwood forest	400	20	10.9
Riparian forest	153	10	4.2
Maple forest	128	7	3.5
Scrub thicket	79	10	2.2
Pine forest	69	10	1.9
Beech-maple forest	5	1	0.1
Old white pine plantation with mixed hardwoods	5	1	0.1

Source: NRC 2006a

[a] Total plant area is approximately 3,777 acres. Approximately 629 acres (16.9 percent) of the total area is covered by buildings, parking lots, and roads. The remainder of the total plant area contains aquatic habitat.
[b] This habitat is interspersed between buildings and paved areas across the plant.

NRC = U.S. Nuclear Regulatory Commission

Within the central area surrounded by Perimeter Road, PORTS consists primarily of open grassland (including maintained grassy areas) and developed areas consisting of buildings, paved areas, and storage yards. The vegetative cover in the area surrounding the PORTS Facility consists mostly of hardwood forests and field crops (NRC 2006a).

In 2011, Ohio University initiated a plant-wide habitat mapping project that was completed in late 2012. This project used LiDAR data along with extensive field surveys to provide more detailed habitat delineation than previously available at PORTS. The final report quantifies the overall ecological quality of the mapped habitat. An interim report provided habitat mapping information related to the study areas under consideration in this RI/FS report (Ohio University 2012).

3.8.1.2 Fauna

Several species of wildlife have been observed within the PORTS property boundary. Forty-nine mammals have ranges that include PORTS, but only 27 of those have been observed on the reservation. The most abundant mammals at PORTS include the white-footed mouse (*Peromyscus leucopus*) and the short-tailed shrew (*Blarina brevicauda*). An area of deciduous sugar maple forest along the Northwest

Tributary stream corridor is the only identified area at PORTS that may be suitable habitat (summer months) for the Indiana bat (*Myotis sodalis*), a federal-listed endangered species. Larger mammals present include the white-tailed deer (*Odocoileus virginianus*), the eastern cottontail rabbit (*Sylvilagus floridanus*), and the opossum (*Didelphis virginiania*) (DOE 1996f).

One hundred and fourteen bird species, including year-round residents, winter residents, and migratory species, have been observed at PORTS. These species include raptors (red-tailed hawk [*Buteo jamaicensis*]), aquatic foul (mallard [*Anas platyrynchos*] and wood duck [*Aix sponsa*]), game birds (wild turkey [*Meleagris gallopavo*]), and nongame bird species (nuthatches [*Sitta sp*.] and wrens [*Troglodytes sp*.]). Eleven species of reptiles and six species of amphibians have been observed at PORTS. The most common of these include the eastern box turtle (*Terrapene carolina*), black rat snake (*Elaphe obsolete*), northern black racer (*Coluber constrictor constrictor*), American toad (*Bufo americanus*), and northern dusky salamander *(Desmognathus fuscus*) (NRC 2006a). Common orders of insects found at PORTS include Homoptera (cicadas and aphids), Hymenoptera (bees, wasps, and ants), Diptera (flies), Coleoptera (beetles), and Orthoptera (grasshoppers) (Battelle Memorial Institute 1976).

Common species occurring in open grassland areas include the eastern cottontail rabbit (*Sylvilagus floridanus*), meadow vole (*Rodentia muridae*), and eastern meadowlark (*Sturnella magna*). Small wooded areas support numerous woodland and forest edge species such as raccoon (*Procyon lotor*), gray squirrel (*Sciurus carolinensis*), red-headed woodpecker (*Melanerpes erythrocephalus*), cardinal (*Cardinalis cardinalis*), white-breasted nuthatch (*Sitta carolinensis*), and yellow-rumped warbler (*Dendroica coronata*). Species that occur in the open grasslands and forest edges that are either actively managed (mowed) or adjacent to developed areas are tolerant of human activities and disturbances (NRC 2006a).

3.8.2 Aquatic Resources

The aquatic habitats on PORTS include the various man-made holding ponds, ephemeral ponds, streams, and intermittent streams that flow from or through PORTS. The three major aquatic habitats include Little Beaver Creek, the West Drainage Ditch, and the Southwest Drainage Ditch, which flows out of the Southwest Holding Pond. All three of these surface water bodies discharge into the Scioto River. Little Beaver Creek and the West Drainage Ditch are designated as warm water habitats. Warm water habitats are capable of supporting and maintaining a balanced, integrated, adaptive community of warm water aquatic organisms having a diverse species composition and functional organization. The aquatic habitat associated with Little Beaver Creek supports good to exceptional fish communities downstream of the X-230-J7 discharge from PORTS, and fair fish communities upstream because of the intermittent stream flow (NRC 2006a).

Most of the aquatic resources at PORTS include populations of fish, amphibians, reptiles, invertebrates, and periphyton, all associated with streams and other surface waters. The most common of the 34 total fish species and four hybrids found in Little Beaver Creek are the bluntnose minnow (*Pimephales notatus*), central stoneroller (*Campostoma anomalum*), creek chub (*Semotilus atromaculatus*), rainbow darter (*Etheostoma caeruleum*), spotfin shiner (*Cyprinella spiloptera*), and striped shiner (*Luxilus chrysocephalus*) (NRC 2006a, DOE 2007b).

A classification effort in Study Area D identified 38 streams in the area. Of the 38 streams identified in Study Area D, sections of only three were determined to be Class IIIA PHWH; there were no Class IIIB streams. All streams within an area for permanent waste disposal were identified as lower quality classes, Class I and II. Table 3.6 presents a summary of the result of the classification study.

Table 3.6. Summary of PHWH Stream Classification

Provisional Aquatic Life Use Designation	Total Length (ft)
Modified Class I PHWH	2,725
Class I PHWH	6,357
Modified Class II PHWH	2,842
Class II PHWH	19,236
Class IIIA PHWH	5,103
WWH	678
Total	**36,941**

PHWH = Primary Headwater Habitat
WWH = Warmwater Habitat

3.8.3 Wetlands

The USACE defines wetlands as “those areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.” Wetlands usually include swamps, marshes, bogs, and similar areas. In identifying a wetland, three characteristics should be met. The first is the presence of hydrophytic vegetation that has morphological or physiological adaptations to grow, compete, or persist in anaerobic soil conditions. Second, hydric soils are present and possess characteristics that are associated with reducing soil conditions. Third, the area must be inundated or saturated to the surface at sometime during the growing season of the prevalent vegetation (DOE 2004).

A wetlands survey of PORTS was conducted in 1995 (Lockheed Martin Energy Systems, Inc. [LMES] 1996). The results of that survey found that PORTS contains 45 wetlands (41 jurisdictional and four nonjurisdictional) totaling about 34 acres, excluding retention ponds and streams (Table 3.7). Jurisdictional wetlands fall under the protection of Section 404 of the *Clean Water Act*; DOE and State of Ohio regulations, as well as EO 11990, protect both jurisdictional and nonjurisdictional wetlands. Most of the wetlands are associated with wet fields, areas of previous disturbance, drainage ditches, or wet areas along roads and railroad tracks. Palustrine forested wetlands occur along Little Beaver Creek (DOE 2004). An updated evaluation of Study Area D was conducted in 2013 (DOE 2013b). Table 3.8 presents a summary of the Ohio EPA Anti-Degradation Designation (category) of the 24 wetlands identified during this study. No high-quality Category 3 wetlands were identified in Study Area D. There is good correlation to the jurisdictional wetlands found in the area in a 1996 study, but generally, the wetlands are now smaller. The details of the wetlands can be found in Section 2.2.2.3.

Table 3.7. Wetlands at PORTS from 1996 Study

Wetland Number	Quadrant	Status	Acreage	Location	Comments
Q1-01	I	Jurisdictional	0.328	West Perimeter Road ditch	Hillside seep
Q1-02	I	Jurisdictional	1.077	West Perimeter Road ditch	Hillside seep
Q1-03	I	Jurisdictional	1.922	West Perimeter Road ditch	Roadside ditch
Q1-05	I	Jurisdictional	0.259	X-2207 Parking	Drainage ditch
Q1-06	I	Jurisdictional	0.230	X-749A Landfill	Drainage ditch

Table 3.7. Wetlands at PORTS from 1996 Study (Continued)

Wetland Number	Quadrant	Status	Acreage	Location	Comments
Q1-32	I	Jurisdictional	3.189	Former GCEP site	Wet field; former GCEP site
Q1-33	I	Jurisdictional	0.029	West Perimeter Road ditch	Roadside ditch
Q1-34	I	Jurisdictional	0.269	Former GCEP site	Wet field; former GCEP site
Q1-35	I	Jurisdictional	0.374	Former GCEP site	Wet field; former GCEP site
Q1-36	I	Jurisdictional	0.125	Former GCEP site	Wet field; former GCEP site
Q1-37	I	Jurisdictional	4.626	Former GCEP site	Wet field; former GCEP site
Q1-38	I	Jurisdictional	0.254	Former GCEP site	Wet field; former GCEP site
Q1-39	I	Jurisdictional	0.228	Former GCEP site	Wet field; former GCEP site
Q2-09	II	Jurisdictional	10.378	Little Beaver Creek, Fog Road	Natural wetland
Q2-11	II	Jurisdictional	0.450	X-611A	Previous disturbance
Q2-12	II	Jurisdictional	2.028	X-701B area	RAD area
Q3-27	III	Jurisdictional	0.117	West Perimeter Road ditch	Roadside ditch
Q3-29	III	Jurisdictional	0.036	West Perimeter Road ditch	Roadside ditch
Q3-30	III	Jurisdictional	0.480	X-744 N, P, & Q	Previous disturbance
Q3-31	III	Jurisdictional	0.103	X-615	RAD area
Q3-46	III	Jurisdictional	0.080	X-616	Drainage ditch
Q3-51	III	Jurisdictional	1.201	West Perimeter Road ditch	Associated with roadside ditch
Q4-13	IV	Jurisdictional	2.343	X-611A	Old borrow area
Q4-14	IV	Nonjurisdictional	0.012	X-611B	Sludge lagoon
Q4-15	IV	Nonjurisdictional	0.114	X-611B	Sludge lagoon
Q4-17	IV	Jurisdictional	0.229	Fog Road	Natural area; past disturbance
Q4-18	IV	Jurisdictional	0.322	North Access Road	Drainage ditch
Q4-19	IV	Jurisdictional	0.447	North Borrow Area	Part of drainage ditch
Q4-20	IV	Jurisdictional	0.389	North Borrow Area	Drainage ditch
Q4-21	IV	Jurisdictional	0.163	X-735 Landfill	Borders railroad track
Q4-22	IV	Jurisdictional	0.018	X-745G Cylinder Yard	Drainage ditch
Q4-23	IV	Jurisdictional	0.006	Ruby Hollow	Natural area; past disturbance
Q4-24	IV	Jurisdictional	0.044	Ruby Hollow	Natural area
Q4-25	IV	Jurisdictional	0.094	Ruby Hollow	Natural area; past disturbance
Q4-26	IV	Jurisdictional	0.160	X-752 Warehouse	Man-made ditch
Q4-40	IV	Jurisdictional	0.359	X-611B	Man-made ditch
Q4-42	IV	Jurisdictional	0.115	X-611B	Base of dam
Q4-43	IV	Jurisdictional	0.119	X-611B	Base of dam
Q4-44	IV	Jurisdictional	0.167	X-611B	Base of dam
Q4-45	IV	Jurisdictional	0.201	X747H Landfill	RAD area
Q4-46	IV	Jurisdictional	0.040	North Borrow Area	Borrow area
Q4-47	IV	Jurisdictional	0.499	North Borrow Area	Drainage ditch
Q4-48	IV	Jurisdictional	0.564	North Borrow Area	Drainage ditch; beaver activity
Q4-49	IV	Nonjurisdictional	0.142	X-611B	Sludge lagoon
Q4-50	IV	Nonjurisdictional	0.031	X-611B	Sludge lagoon

Source: LMES 1996

GCEP = Gas Centrifuge Enrichment Plant
LMES = Lockheed Martin Energy Systems, Inc.
RAD = radiological

Table 3.8. Classification of Wetlands in Study Area D from 2013 Study

Ohio EPA Category	Number	Wetlands	Total Size in Study Area (acre)
1	10	W01, W02, W03, W04, W06, W07, W09, W11, W14, W23	0.285
Modified 2	6	W05, W13, W16, W19, W20, W24	0.549
2	8	W08, W10, W12, W15, W17, W18, W21, W22	3.369

Ohio EPA = Ohio Environmental Protection Agency

3.8.4 Rare, Threatened, and Endangered Species

The Endangered Species Act of 1973 provides federal protection to species, and their habitats, that are listed as federal threatened or endangered species. A federal threatened species is defined as any species likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range. A federal endangered species is defined as any species in danger of extinction throughout all or a significant portion of its range (50 *CFR* 17). Ohio Statutes 1518 and 1531 provide protection for state-listed threatened and endangered (T&E) species. The ODNR defines a state endangered species as “a native species or subspecies threatened with extirpation from the state.” A state threatened species is defined as “a species or subspecies whose survival in Ohio is not in immediate jeopardy, but to which a threat exists.” A species of concern is defined as “a species or subspecies which might become threatened in Ohio under continued or increased stress.” A special interest species is defined as “a species that occurs periodically and is capable of breeding in Ohio.”

The potential existence of federal and state endangered, threatened, and rare species, as well as candidate species, in the vicinity of PORTS was determined through a review of previously prepared NEPA documents, by reviewing the results of previous studies, and through prior consultation with the U.S. Fish and Wildlife Service (USFWS) and the ODNR, Division of Wildlife and Division of Natural Areas and Preserves. No occurrence of federal-listed plant or animal species has been documented at PORTS (DOE 2004, DOE 2007b).

Previous consultation with the USFWS has indicated that the Indiana bat (*Myotis sodalis*) is the only federal-listed endangered species whose home range includes PORTS. Information from the ODNR identified several state-listed endangered, threatened, and special interest species within 1 mile of PORTS; however, database searches did not identify either species within the PORTS boundary. Consultation was initiated again in 2012 with USFWS regarding the potential for the Indiana bat at PORTS. The USFWS indicated that they had no record of Indiana bats being sighted or caught in Pike County, Ohio, but they confirmed that the species is still federally listed and their home range does include PORTS.

An additional review of previously prepared NEPA documents and studies also indicated that the Indiana bat, sharp-shinned hawk (*Accipiter striatus*), Carolina yellow-eyed grass (*Xyris difformis*), Virginia meadow-beauty (*Rhexia virginica*), and rough green snake (*Opheodrys aestivus*) may occur at PORTS. Other species that have been identified in the region, but not observed on PORTS, include the timber rattlesnake and long-beaked arrowhead (*Sagittaria australis*) (NRC 2006a). Table 3.9 lists the federal- and state-listed endangered, threatened, potentially threatened, and special concern species in the vicinity of PORTS.

Table 3.9. Federal- and State-listed Endangered, Threatened, Potentially Threatened, and Special Concern Terrestrial Species near PORTS

Common Name	Scientific Name	Status[a] Federal	State
Indiana bat	*Myotis sodalis*	E	E
Sharp-shinned hawk	*Accipiter striatus*	NL	E
Timber rattlesnake	*Crotalus horridus*	NL	E
Rough green snake	*Opheodrys aestivus*	NL	S
Virginia meadow-beauty	*Rhexia virginica*	NL	P
Carolina yellow-eyed grass	*Xyris difformis*	NL	E
Long-beaked arrowhead	*Sagittaria australis*	NL	T

Source: NRC 2006a

Only the sharp-shinned hawk, rough green snake, Virginia meadow-beauty, and Carolina yellow-eyed grass have been observed at PORTS.

[a] E – endangered; P – potentially threatened; S – species of concern; T – threatened; NL – not listed.

NRC = U.S. Nuclear Regulatory Commission
PORTS = Portsmouth Gaseous Diffusion Plant

Past and recent consultations with the USFWS indicate that some of the riparian areas on PORTS may be suitable summer habitat for the Indiana bat. Roosting and nursery sites may include forested areas with loose barked trees and standing dead trees. Potential summer habitat for the Indiana bat has been identified within the corridors along Little Beaver Creek in the northern portion of the plant and along the Northwest Tributary stream. The Northwest Tributary begins just southwest of the Don Marquis substation and flows approximately 3,200 ft before leaving the PORTS property. It then proceeds on to its confluence with Little Beaver Creek. In 1994 and 1996, DOE conducted on-PORTS surveys to identify suitable bat habitat and then conducted mist netting in those areas to determine if Indiana bats were present. The surveys identified these two potential habitat areas for Indiana bats and the mist netting resulted in the documentation of four different species of bats in these two riparian areas, but no Indiana bats were found at PORTS (NRC 2006a, DOE 2007b). Another bat mist-net survey was conducted in May 2011. During this survey, four nights of sampling resulted in the capture of eight bats, but no Indiana bats were observed (EnviroScience 2011). Based on USFWS approval of a mist net plan, a second mist net survey was conducted in OSDC Study Area D in July and August 2013 over 10 nights. No Indiana bats were found, but nine northern long-eared bats were captured, inventoried, and released along with four other species. Ohio University conducted a detailed habitat mapping study in 2012. Findings from this study, using updated guidelines, are that Indiana bat habitat may be more extensive than indicated in prior studies. The primary trees that produce exfoliating bark and nesting cavities (e.g., sycamore and shagbark hickory) are abundant in the older forest habitats (Ohio University 2012). Discussion will continue with USFWS to ensure the latest species listings are understood and that USFWS has all data that is collected at PORTS concerning rare, threatened, or endangered species.

Past isolated sightings of state-listed species on PORTS include the sharp-shinned hawk and the rough green snake, but no recent sightings have been reported. The Virginia meadow-beauty has been found near the X-611A Old Lime Sludge Lagoons, and Carolina yellow-eyed grass has been tentatively identified at the X-611B Sludge Lagoon. The Virginia meadow beauty is associated with the wetlands of the former sludge lagoon, and its preferred habitat is on wet, sandy soils, particularly in sandy swamps. The Carolina yellow-eyed grass was observed in 1994; however, formal documentation of the species could not be performed because the grass was not in fruit or flower. Carolina yellow-eyed grass prefers wet peaty or sandy soils typically found in marshes or bogs (NRC 2006a). Several additional state-listed plant species have been preliminarily identified during the recent habitat mapping project by Ohio University.

The Ohio EPA previously determined that two state endangered fish species and four state threatened fish species exist near PORTS, but they are restricted to the Scioto River. Little Beaver Creek, the main body of water running through PORTS, does not provide sufficient habitat to support threatened or endangered species of fish (NRC 2006a).

3.8.5 Environmentally Sensitive Areas

In the immediate area surrounding PORTS (within 5 miles), no environmentally sensitive areas are present. This includes state and national parks, conservation areas, wild and scenic rivers, and other areas of recreational, ecological, scenic, or aesthetic importance (NRC 2006a).

Several potential environmentally sensitive areas are located within the PORTS boundary, including areas where Ohio endangered or threatened species have been observed, wetland areas, and the riparian areas along Little Beaver Creek and its Northwest Tributary. Additional studies being completed by Ohio University may provide locations that harbor listed, high-interest plant species. No federally-listed plant species have been observed during the current study but some state listed species were tentatively identified and were revisited during the 2012 field season (Ohio University 2012). The specific sensitive areas previously identified are as follows:

- The Northwest Tributary stream corridor is considered a sensitive area because it represents the best potential habitat for bats at PORTS, although recent studies indicate bat habitat may be more extensive than previously indicated.

- The area near the X-611B Sludge Lagoon should be considered a sensitive area because of the possible presence of Carolina yellow-eyed grass, which was observed at PORTS in 1994 (DOE 1996f).

- The area near the X-611A Old Lime Sludge Lagoons is a sensitive area because the Virginia meadow-beauty plant species was identified at the base of the dike. Wetlands also are present near this area.

HIGHLIGHTS OF SECTION 3

- Immediate plant area is located on a thick layer of clay and silt. Shallow bedrock is present outside the main plant area.

- Off-PORTS groundwater transport pathways exist to the south in Quadrant I. Groundwater over most of the PORTS discharges to surface water.

- Rural residents exist at the plant boundary.

- A number of sensitive resources (e.g., cultural, streams, and wetlands) are present at PORTS and specifically at Study Area D. There were no Class IIIB streams or Ohio Category 3 wetlands found in Study Area D.

NEXT STEP: SECTION 4 DEFINES THE SOURCE TERM (WASTE STREAMS)

4. BASIS FOR PROJECTED WASTE STREAMS AND VOLUMES AND POTENTIAL UNCERTAINTIES

Providing information to support development of a CSM continues in this section. Section 2 presented data that were obtained from investigations and used in defining elements of the CSM. Section 3 provided an understanding of the physical features of PORTS that will have a bearing on the fate of contaminants, along with their transport mechanisms and the location of potential current receptors and sensitive resources. The intent of Section 4 is to present the PORTS waste disposition volumes and characterization information to define the source term in the CSM. Section 4 supports the ability for this evaluation to examine and account for future wastes (either EC-1 or EC-2), including those that will be generated under other actions (RC-4) and the remaining RCRA corrective action program decisions (RC-2).

To provide source term information, Section 4 is divided into two sections. The first (Section 4.1) provides general and specific waste volume information by waste form (soil, concrete, asbestos, other building waste, etc.), waste type (low-level [radioactive] waste [LLW], hazardous waste, etc.), and location (or generator project). Section 4.1 also introduces the waste volumes that will be evaluated. Section 4.2 describes the waste characterization information known at this time. The uncertainties associated with the information in Sections 4.1 and 4.2 are then presented in Section 4.3.

This section discusses the D&D waste generated during DFF&O activities (RC-1, both EC-1 and EC-2), the majority of it from the three large process buildings. There are smaller volumes of D&D waste associated with support structures and buildings and with residual soil and soil which otherwise must be excavated as an integral part of D&D (see, DFF&O definition of D&D defined in paragraph 5e). The residual soil and soil which otherwise must be excavated as an integral part of D&D are hereinafter referred to in this document, for ease of reference, as “residual soil” and are limited by the definition of D&D in the DFF&O.

Undefined volumes of other waste (RC-4, either EC-1 or EC-2) may be generated. Additionally, there are other environmental media wastes that may be generated pursuant to the Ohio Consent Decree (RC-2, EC-1). The exact volume of soil assumed to be generated under the RCRA corrective action program that might potentially be placed in a potential OSDC after appropriate authorization is not defined because RAOs for future RCRA actions have not yet been established, and the soils beneath the process buildings and across much of PORTS have not been fully characterized and the need for excavation is not yet established. Nevertheless, in the interest of being comprehensive, an estimate is provided.

For all of these potential waste streams (RC-1, RC-2, RC-4), the primary contaminants at PORTS are radionuclides, but other contaminants such as metals and organics are present as well. In general, most of the waste streams generated under any of the regulatory programs would likely be classified as LLW. The information in this section is sufficient to define waste volumes and characteristics to support alternative development and evaluation, as well as to assess potential future threats if no action is taken.

Appendix E presents the waste volumes by buildings and provides details of the volume estimates for waste under the DFF&O and Ohio Consent Decree. It includes information that was in the Fluor-B&W Portsmouth LLC Mass Flow Database as of December 2011. This database is maintained under configuration control and is updated as additional information becomes available. No scope has been identified for other actions (RC-4), so there are no entries in Appendix E for these wastes.

4.1 FUTURE WASTE VOLUME PROJECTIONS

The specific volumes and composition of waste that would be generated from the implementation of PORTS D&D actions (RC-1), as well as from other non-D&D PORTS clean-up activities (RC-2, RC-4), are being developed under project-specific documents in parallel with this RI/FS. The volumes and composition of the waste evaluated in this RI/FS (RC-1, RC-2) are presented in Table 4.1. Because there is no scope yet assigned to the regulatory category RC-4, no volumes for this waste are presented in Table 4.1. The waste volume information used in this RI/FS analysis is based on what is known at this time from PORTS information and lessons learned from similar DOE projects. The information in this section is consistent with planning assumptions established in the waste disposition RI/FS Work Plan (DOE 2012a). The waste forecast for PORTS has been developed and examined over many years and was formalized in the DOE-approved Critical Decision-1 baseline document. Since that time, the waste generation forecast has been reviewed and revised as preparations and plans for PORTS D&D have matured.

Table 4.1. Waste Volumes (RC-1, RC-2) by Form

Waste Form	Volume (cy)
D&D waste (RC-1)	
Asbestos (EC-2)	3,000
Concrete (EC-2)	400,000
Other building waste (EC-2)	629,000
Process equipment (EC-2)	272,000
Residual Soil (EC-1)	53,000
Materials with high recycle potential	110,000
Total D&D waste (RC-1)	**1,467,000**
Ohio Consent Decree/Three Party Order waste (may be generated pursuant to corrective action activities-RC-2)	
Contaminated soil (RC-2, EC-1)	710,000
Total D&D and Ohio Consent Decree/Three Party Order waste (RC-1, RC-2 both EC-1, EC-2)	**2,177,000**

General Notes:
1. Volume estimates represent uncontainerized waste with no adjustments for expansion or compaction.
2. Numbers have been rounded.
3. Waste from D&D of utilities and infrastructure are included as other building waste.
4. Asbestos waste consists of any material, such as insulation, that contains asbestos fibers, including transite siding, building pipe, floor tile, and cable insulation. It is likely that asbestos-containing material will be prevalent in most buildings.
5. Concrete waste consists of demolition and building materials, including concrete pads, floors, pillars, basements, and concrete building construction materials.
6. Other building waste is waste demolition material from razing buildings, including wood, rubber, concrete that could not be separated from the rubble, metallic items other than process equipment, siding, gypsum, roofing material, flooring, and brick.
7. Process equipment waste consists of equipment and associated appurtenances directly used for uranium enrichment, including compressors, converters, motors, process piping, and valves.
8. D&D residual soil (RC-1, EC-1) volume refers to residual soil that adheres to the concrete foundations or otherwise must be excavated as part of D&D activities.
9. Ohio Consent Decree/Three Party Order waste (RC-2) cannot be disposed of in an OSDC without DOE obtaining the appropriate authorization and/or exemptions from Ohio EPA, and such waste would have to meet the Ohio EPA approved WAC.

D&D = decontamination and decommissioning
DOE = U.S. Department of Energy
EC = engineering category
Ohio EPA = Ohio Environmental Protection Agency
OSDC = on-Site disposal cell
RC = regulatory category
WAC = waste acceptance criteria

4.1.1 D&D Waste Volume (RC-1) Description

The Site-wide Waste Disposition Evaluation Project under the DFF&O is limited in scope to determining the most appropriate waste disposition outlet for potential future D&D waste that may be generated at PORTS. This section focuses on the waste volumes anticipated by D&D of the Portsmouth GDP under the DFF&O (RC-1, both EC-1 and EC-2). Currently, the total waste volume (RC-1, EC-1 and EC-2) estimated to be generated from D&D of the three large gaseous diffusion process buildings, numerous smaller buildings and/or facilities, and man-made structures on PORTS is 1.47 million cy, including 53,000 cy of residual soil (RC-1, EC-1). The distribution of the volume expected to be generated from implementing decisions made under the DFF&O is shown in Table 4.1 and Figure 4.1 by waste form.

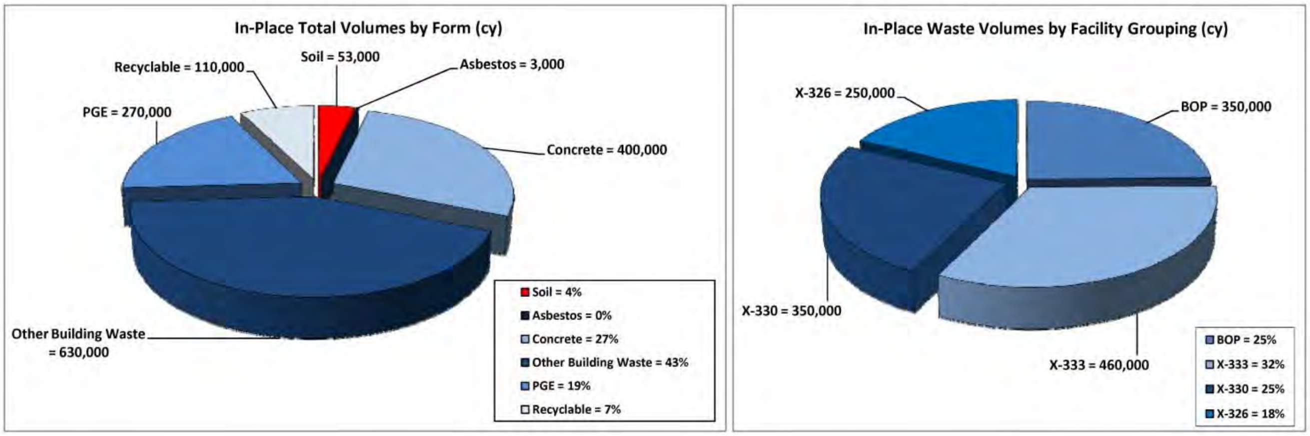


Figure 4.1. PORTS D&D Volumes (RC-1) by Facility Grouping and Form

The vast majority of waste (approximately 75 percent or 1.1 million cy) that would be generated during D&D of PORTS would originate from the three large gaseous diffusion process buildings, X-326, X-330, and X-333. The waste volumes include the structure of each facility, all process and industrial equipment within each facility, and facility slabs. The balance of the expected waste volume would be from hundreds of smaller buildings and man-made structures and is estimated at 0.35 million cy of waste or approximately 25 percent of the total PORTS D&D waste forecast.

To determine potential disposal options for the D&D waste, candidate waste streams are further delineated by regulatory classification, in addition to the waste forms and associated volumes already provided. Expected regulatory waste types include the following:

- Hazardous waste defined by RCRA and State of Ohio *OAC* 3745-52-11
- Waste defined under the Toxic Substances Control Act of 1976 (TSCA)
- Solid waste defined by the State of Ohio *OAC* 3745-27-01
- Construction and demolition debris as defined by *OAC* 3745-400
- LLW as defined by DOE Order 435.1.

In addition, any of the waste types could be radiologically contaminated, rendering them LLW as defined in DOE Manual 435.1-1, *Radioactive Waste Management.* Table 4.2 presents a breakdown of the varying regulatory types of waste that are anticipated to be generated under D&D of PORTS not including 110,000 cy of material that may be recycleable.

Table 4.2. Details of D&D Waste Volumes (RC-1) by Regulatory Waste Type

Type of D&D Waste (RC-1)	Estimated Volume[a] (cy)
RCRA Hazardous-CAMU ineligible	400
RCRA Hazardous-CAMU eligible	53,000
TSCA	0
C&DD	32,000
Solid	10,200
LLW/RCRA Hazardous-CAMU ineligible	100
LLW/RCRA Hazardous-CAMU eligible	0
LLW/TSCA	37,000
LLW/C&DD	786,800
LLW/Solid	437,500
Infectious waste	0

[a] Volume assumptions regarding CAMU-eligible and CAMU-ineligible wastes were made for the purpose of evaluating alternatives. DOE has not proposed a CAMU yet and, therefore, no determinations have been made regarding what waste is or is not CAMU eligible. DOE may need to revise these estimates in the future.

C&DD = construction and demolition debris
CAMU = Corrective Action Management Unit
D&D = decontamination and decommissioning
DOE = U.S. Department of Energy
LLW = low-level (radioactive) waste
RC = regulatory category
RCRA = Resource Conservation and Recovery Act of 1976, as amended
TSCA = Toxic Substances Control Act of 1976

This waste forecast estimate has appropriate accuracy and precision for assessing and estimating remedial alternatives developed in this RI/FS. The volume estimate evolves from field studies; process knowledge; facility walkdowns, including measurements of building structures and components; and engineering studies, including review of as-built drawings.

DOE is committed to recycling and/or reuse of materials from the PORTS D&D Project, regardless of the selected remedy. Recycling and/or reuse decisions will be made for discrete materials and waste streams across all phases of the D&D project, including the RI/FS, remedial design, and remedial actions. Decisions to recycle and/or reuse materials will be made following an evaluation of relevant factors and considerations. A few of the primary benefits of material recycling and/or reuse in the context of this RI/FS include conserving disposal capacity, regardless of disposal location, and meeting EO requirements (EO 13514) and DOE Order requirements (DOE Order 436.1) on pollution prevention and waste minimization. For the purposes of developing and evaluating remedial action alternatives in this FS, an estimate of 110,000 cy of recyclable material has been included in each of the action-based remedial alternatives, based on an initial evaluation of the scope of anticipated waste streams included in the D&D project. The actual volume to be recycled and/or reused may change as the recycling plans are developed and specific recycling opportunities are identified.

4.1.2 Waste Associated with Fill

One of the alternatives that will be considered later in this document includes operation of a potential OSDC. When considering cell operations, all waste material that is not soil is considered as one waste form (EC-2) and includes asbestos, concrete, PGE, and other building waste as defined in Table 4.1. Operation of a disposal facility requires a ratio of fill to waste requiring soil (EC-2) (referred to as EC-1/EC-2 ratio) that would control the potential for future waste subsidence, thereby protecting the final cap. Excessive void spaces created by the disposal of waste with void spaces (EC-2) alone can jeopardize the cap. Based on historical operations at other DOE landfills, the 2 to 1 EC-1/EC-2 ratio was selected as an average basis for volume and capacity calculations after size reduction, interior spaces are filled, and compaction at the disposal face occurs. The fill is used to prevent future settling of the waste and eventual failure of a final cover. Fill is always designated as having soil-like properties and therefore is categorized as EC-1. The actual fill needed for some of the waste will be notably less as boxes of containerized waste may have very little void space between the boxes. But, more fill may be needed for larger pieces of equipment to fill around the exterior of the shell. Fill is also used as daily cover and for internal berm construction. This fill does not include estimates needed to fill interior spaces. The EC-1/EC-2 ratio may be smaller or greater, depending on final design and operational requirements.

An evaluation of potential fill options is conducted in the FS portion of this document. Fill can be from off-PORTS or on-PORTS locations. On-PORTS fill could be generated from contaminated or clean areas. To obtain sufficient fill material to provide the appropriate EC-1/EC-2 ratio at a potential OSDC, there is the potential that some waste with void spaces (EC-2) might be excavated along with the fill that may require disposal. In this case, consideration must be given that there would be sufficient fill available to account for the additional excavated waste with void spaces (EC-2).

4.1.3 Non-D&D Waste (RC-2)

As described in the DFF&O SOW for RIs, information about anticipated waste streams is to be collected and presented. Section 4.1.1 presented the information about waste streams anticipated to be generated under the DFF&O. The DFF&O RI/FS SOW allows consideration of “Potential waste streams associated with environmental media cleanup activities to be conducted under the Ohio Consent Decree and for which DOE might seek exemptions under Ohio laws and regulations to allow placement of such waste streams in any potential OSDC that might be constructed as a result of the Site-Wide Waste Disposition Evaluation Project.” Under the Ohio Consent Decree, significant volumes of contaminated soil and associated groundwater still require a remediation decision. Excavation may be a major component of the remediation decision. The impacts and implications of up to an estimated 710,000 cy of non-D&D contaminated soil (RC-2, EC-1) from the remaining environmental media cleanup activities under the Ohio Consent Decree are considered. The 710,000 cy is an estimate established for the purposes of conducting a complete and thorough evaluation of the alternatives. The actual volume of any non-D&D waste (RC-2) will be determined based on several factors, including the final Ohio Consent Decree remediation decision associated with such media. The decision to excavate or dispose of non-D&D waste (RC-2) is not being made under this project.

4.2 WASTE CHARACTERIZATION SUMMARY

This section discusses what is known about potential future generated waste volumes defined in Section 4.1 and presents the types of contamination that may be found. Identifying the types of contamination assures that any WAC that are developed or any identified disposal locations address the types of waste anticipated to be generated. Information from the almost 20-year-long cleanup of the facilities within the East Tennessee Technology Park (ETTP) in Oak Ridge, Tennessee, has been included in this section to provide additional information of the potential contamination levels that may be found.

Section 4.2.1 discusses information used to determine volumes of waste form and types for the process buildings (RC-1). Available quantitative PORTS sample results were provided in Section 2.2 (Tables 2.2 and 2.3). Section 4.2.2 discusses information that is available from ETTP to further understand some of the waste that may be generated from the PORTS facilities. Section 4.2.3 presents the PORTS-related contaminants that have been identified in environmental cleanup documents. They represent the types of contaminants that could be found in soil generated under the Ohio Consent Decree (RC-2), as well as contamination that may still be present in the buildings. Section 4.2.4 then summarizes Section 4.2 and what is known about the characteristics of the waste that is being considered for disposal under this decision.

4.2.1 PORTS Process Knowledge Summary for Process Buildings

A starting point for characterization of the D&D waste (RC-1) expected to be generated is identifying and understanding the processes that created radiological and/or hazardous waste. This leads to a better understanding of the potential contaminants in the waste. Evaluation of process knowledge is vital to defining the universe of potential contaminants, as well as the expected waste forms, waste types, and hazards associated with the waste. Most of the effort in developing waste types has focused on the three process buildings because D&D at these facilities would generate a majority of the waste volume. Constituents that were present in the buildings (or are still present) are likely present in residual soil (RC-1, EC-1) that would be removed during D&D activities.

4.2.1.1 Radiological constituents

The primary radiological contaminants of concern (COCs) within the process buildings are uranium (uranium-234, uranium-235, and uranium-238) and technetium-99. Most of the technetium-99 was introduced into the cascade system either as direct feed of reactor returns or through feeding of Paducah product (UF_6) material. Radionuclides introduced into the gaseous diffusion system from the processing of reactor returns were typically generated through the plutonium uranium extraction (PUREX) process. The byproduct of this process was uranium trioxide (UO_3), which was returned to the uranium feed cycle for the production of UF_6 feed materials. The PUREX process was highly efficient at separating out fission products and transuranic elements from its product streams; however, for some radionuclides (primarily technetium-99), the PUREX separation process was not fully effective. These reactor returns were introduced into the gaseous diffusion process to facilitate increased production and reduced reliance on commercial uranium ore mining and milling. As a result, the contaminants present in the feed materials generated from reactor returns are known to have contained measurable concentrations of fission products and transuranic elements, including most notably technetium-99, neptunium-237, and plutonium-239.

Reactor-return-generated feed materials were introduced into the cascades at PORTS in one of two manners, either through the feeding of an intermediate UF_6 product from Paducah or through the direct feed of UF_6. Based on processing records, the majority of the uranium feed generated from reactor returns was introduced into the PORTS cascades after these materials were subjected to initial enrichment operations in Paducah. A much smaller fraction was introduced into the PORTS cascades as direct feeds (without any initial enrichment at an alternate facility). It might also be noted that after the late 1970s or early 1980s, direct feeding of uranium feed produced from reactor returns ceased. PORTS continued to receive a quantity of reactor returns feed materials from Paducah up to the shutdown of the PORTS process (TPMC 2006b).

Process equipment in the PORTS process buildings contained solid deposits of uranium compounds at the time of plant shutdown in 2001. These solid deposits formed during subatmospheric (low pressure) operations, primarily as a result of chemical reactions between UF_6 and moisture in ambient air that was introduced into the system during failure of equipment welds or tubing, or operational errors during equipment change-outs.

The solid deposits of uranium can be further defined as uranium holdup deposits or a uranium/fluoride passivation layer or deposition layer. The uranium holdup deposit is described as concentrations of uranium-bearing materials (requiring nuclear criticality safety controls) that have inadvertently accumulated in the systems and components. This uranium-bearing material is typically in the form of an encrustation formed as a result of the process gas in the system reacting with the moisture in the ambient air. Some uranium holdup deposits can exceed the nuclear criticality safety limits or levels determined for the WAC of the receiving facility. Deposits that do not meet the WAC of the receiving facility would need to be removed by segregation or treatment, or decontaminated for on-Site or off-Site disposal.

Another typical form of deposit within the cascade system is in the form of a uranium/fluoride passivation layer or deposition layer that is also defined as uranium-bearing material. This layer is described as a fine film deposited throughout the interior surfaces of the process gas systems and components. The deposition of the uranium/fluoride passivation layer may be characterized along with the waste of the process gas system and components. The D&D project will use screening techniques (NDA) to discern uranium holdup deposits from the uranium/fluoride passivation layer.

At shutdown, there was concern from a nuclear criticality safety standpoint that some of these deposits could have been above the always-safe mass (ASM) limit for enriched uranium. While shutdown of the PORTS gaseous diffusion process used lessons learned from Oak Ridge and followed rigid procedures to reduce risks, the chances of excessive hold-up material (or deposits) nevertheless exists. Field activities since shutdown included extensive NDA measurements to identify the potential presence of deposits above the ASM limits and to mitigate the risks. The nuclear criticality safety program requires that deposits exceeding the ASM limit must have additional controls to ensure safe operations. The ASM of enriched uranium is an amount slightly less than one-half of a minimum critical mass, which is the minimum amount of enriched uranium that can achieve criticality under optimum conditions of shape, moderation, and reflection. Depending on the uranium-235 enrichment of the material, ASM can range from a few hundred grams of uranium for HEU to several hundred pounds of uranium for LEU.

A project at PORTS was completed to reduce the size of the uranium holdup deposits to below ASM values. Extensive NDA measurements have been taken to determine the locations and sizes of uranium deposits; this program began at shutdown and continues. The NDA measurements consist of initial scans of process equipment to determine if deposits exist. The scans are then followed by more detailed measurements and analyses to determine the size and uranium-235 enrichment of the deposits. In addition to scans, Portsmouth GDP operations data and other process knowledge sources are essential for understanding enrichment levels and general waste characterization throughout the GDP process buildings. NDA and other measurement and sampling techniques are used to verify process knowledge assumptions. Improvements in NDA techniques and measurements have been made since 2001, and further measurements have been conducted using the improved NDA techniques. Deposits found to be in excess of ASM were chemically treated until subsequent NDA measurements confirmed the deposits had been reduced to below ASM, taking into account NDA uncertainty. One ASM deposit in the X-330 Building was the result of an equipment fire, and the resultant deposits are of different chemical forms and are expected to require physical removal.

As previously stated, uranium in the form of UF_6 traveled uniformly throughout the cascade and segregated according to its isotopic composition. Uranium-235 concentrated at the upper end of the cascade within the X-326 Building, while uranium-238 moved to the bottom-of-tails section of the cascade within the X-333 and X-330 Buildings. In the absence of wet air, uranium deposited in a fairly uniform thickness in the process equipment would be expected to be reflective of the enrichment values handled at that stage of the cascade. Where wet air leaked into the system, uranium deposits would form separately with an enrichment value reflective of the location within the cascade at that particular time.

Based on the NDA data available to date, the total uranium inventory in the process equipment is estimated to be 151,000 kg, of which 2,030 kg are uranium-235. This value is highly uncertain and Section 5.1.3 provides discussion on this uncertainty.

During gaseous diffusion operations, most of the technetium-99 was introduced to the PORTS cascade either as direct feed of reactor returns or through feeding of Paducah UF_6 product. Based on process records, a total of 64 kg of technetium-99 was fed to the PORTS cascade (BJC 2000). Previous estimates had estimated the total receipt of technetium-99 at PORTS to be as high as 85 kg compared to 207 kg and 692 kg introduced to Oak Ridge and Paducah, respectively (Bostick 2010). Technetium-99 is a fission product produced in nuclear reactors, and it tends to follow uranium through the reprocessing steps. The technetium-99 compounds were lighter than UF_6 and tended to adsorb onto interior surfaces of the process equipment and slowly move up through the enrichment process until withdrawn along with the uranium-235 product or discharged through chemical traps to the atmosphere. Much of this technetium-99, approximately 50 percent (TPMC 2006b), exited the process with the primary or secondary product streams. In addition, much of the technetium-99 introduced into PORTS was removed from the process equipment during plant upgrades in the late 1970s and early 1980s. The Cascade Improvement Program (CIP)/Cascade Uprating Program (CUP) included the removal and replacement of barrier materials in the X-333 Building and portions of the X-330 Building. The replacement of this barrier material may have further contributed to the reduction of technetium-99 values within the cascades. During the CIP/CUP Project, existing converters, compressors, and other process equipment were replaced with reworked process equipment that had been fully decontaminated prior to reworking.

In 1999, an estimate of technetium-99 remaining in the process buildings was compiled by DOE. At that time, approximately 35 kg of residual technetium-99 were estimated to be distributed within the cascades; however, the effect of the CIP/CUP Project having removed much of the remaining 35 kg was not considered (BJC 2000). Recent data from converters in X-326 and X-330 suggest that residual technetium-99 quantities are probably closer to 5.5 kg throughout all three buildings, with the mass of technetium-99 anticipated to be more heavily concentrated within the purge equipment of the X-326 Building (TPMC 2006b) and in the upper unit of the X-330 Building. This estimate of mass is highly uncertain. The uncertainties discussion in Section 5.1.3 provides more discussion on the uncertainties. USEC began biased process equipment sampling for technetium-99 and other constituents in February 2011, which is continuing to date (see Section 2). Overall, the sample results are comparable to similar converter samples taken in Oak Ridge, suggesting that technetium-99 bonded to the barrier material until saturated, then moved upward through the diffusion process.

Small quantities of transuranic isotopes, neptunium-237 and plutonium-239, are also suspected of being introduced into PORTS during the feeding of reprocessed uranium feed stock. These transuranic compounds were much less volatile than UF_6 and, therefore, would have been expected to primarily remain in the unfed heel within the UF_6 cylinders. A "smaller" portion of these transuranic isotopes is anticipated to have entered the process gas system. On the basis of their limited volatility, it is anticipated that once in the process gas system they would have tended to drop out and concentrate near the relevant cascade product feed points, which were primarily located in the X-330 Building. As with the technetium-99, equipment changes during CIP would have removed most transuranic isotopes that had entered the process equipment before that time. However, because most piping and some valving were not changed out, these transuranic isotopes are considered to be contaminants present in the process gas system. The feed piping between the X-342 Building/X-343 Building and various X-330 Building feed locations was not removed during the CIP. Therefore, residual concentrations of these contaminants may exist at these locations.

With the exception of routine maintenance of the top purge equipment, none of the process equipment in the X-326 Building was replaced during the CIP, nor were any of the units in the X-330 Building that are currently suspected of containing elevated technetium-99 levels. Because most piping and some valving were not changed out during CIP, any transuranic isotopes present in those process gas system elements would still be present.

Exterior surface uranium contamination exists in all three PORTS process buildings. Contamination resulted from maintenance activities and infrequent leaks of process gas during greater than atmospheric operations in the X-330 and X-333 Buildings. Both fixed and removable contamination can be found on the operating and cell floors. Contamination areas are posted as such, and exits are well-marked and supplied with exit monitoring equipment. Personal protective equipment (PPE) and contamination control procedures are used to reduce the risk of spreading contamination outside of marked and controlled areas.

Surface technetium-99 contamination can be found primarily in the southern portion of the upper floor of the X-326 Building in the vicinity of the purge cascades and, to a lesser extent, the southern portion of the X-330 Building upper floor. The PPE and contamination control procedures prevent the spread of technetium-99. Surface contamination resulting from processing reactor return material is below detection limits throughout the remainder of the process buildings.

Chemical trapping materials in the process buildings include alumina, such as aluminum oxide (Al_2O_3) and sodium fluoride (NaF). These trapping materials contain elevated concentrations of uranium, HF, technetium-99, and heavy metals. The alumina traps were used as final filtration before discharge of light gases to the atmosphere. Sodium fluoride was used to recover UF_6 from purge gas streams before return to the cascade and final purging. Magnesium fluoride (MgF_2) side-stream traps were installed in the X-326 Building (Cells 25-7-15, 17, and 19) to remove technetium-99 in the top of the cascade. This trapping system was successful in reducing the cascade technetium-99 inventory, but created a source of concentrated technetium-99 trap media. Also, there is an assumption that plutonium and neptunium may also be present on the magnesium fluoride trapping material (BJC 2000). The traps have been disconnected from the cascade and are currently compliantly stored in the X-326 Building (on the operating floor).

4.2.1.2 Hazardous contaminants

The primary hazardous COCs are PCBs, metals, asbestos, and strong oxidizing agents (DOE 2013a). PCBs from electrical capacitors, transformers, and impregnated ventilation gaskets; metals such as lead and silver solder from tube fittings and other applications; cadmium and other metals from alloys and trapping materials; strong oxidizing agents from the residual UF_6, fluorine; and HF are anticipated to be present.

Chemical hazards in the process buildings include coolant (R-114) that was used as the primary process coolant for the UF_6 gas. Residual amounts of the coolant may be present in coolant tanks or piping in the process buildings. A small amount of liquid coolant (fluorinated and/or chlorinated carbon compounds) may be found in the tails area of the X-330 Building. Miller’s Fluorinating Lubricant may be found in the cold recovery systems in X-330 and X-333. Miller’s Fluorinating Lubricant was used until the 1970s in the Beach Russ vacuum pumps and discontinued at that time, and Lapine Oil was used thereafter. Recirculating cooling water (RCW) was used as the secondary cooling medium for the R-114 coolant. Initially, the PORTS RCW treatment system contained hexavalent chromium to prevent corrosion. In the 1990s, treatment of the cooling water was changed to a more environmentally acceptable phosphate-based system. A recent demolition project of an RCW system (X-633 cooling towers) found detected levels of residual chromates. During demolition of the X-633 RCW Complex, metals and radiological constituents were detected above PORTS PRGs in the water in the pump house wet well, valve vaults, and the pump house floor drains (DOE 2009b). Therefore, residual chromate and phosphate compounds are anticipated in the RCW system within the three process buildings.

Residual amounts of hydrocarbon oils used to lubricate the process compressors and motors may be encountered in the lubricating oil headers, filters, tanks, and hydraulic lines, once drained from the system.

Asbestos-containing materials (ACMs) are present as building siding (transite), cell housings, insulation on steam lines, refrigeration systems, motor brakes, and process insulation. ACM may also be found in floor tile in various areas of the buildings. ACM is regulated by the NESHAP contained in 40 *CFR* 61, Subpart M. Friable ACM means any material containing more than 1 percent asbestos as determined using the method specified in 40 *CFR* 763, Subpart E, Appendix E, Section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10 percent as determined by a method other than point counting by polarized light microscopy, the asbestos content must be verified by point counting.

NESHAP-Regulated ACM includes both friable ACM and nonfriable ACM that is or can/will become friable during the demolition activity. Friable asbestos and materials that can be made friable during demolition have to be removed prior to demolition and must be packaged appropriately. The asbestos NESHAP requires specific actions to control emissions and specifies “zero” visible emissions from activities relating to the transport and disposal of asbestos waste.

Category I material is defined as asbestos-containing resilient floor covering, asphalt roofing products, packings, and gaskets. Asbestos-containing mastic is also considered a Category I material (EPA 2011b). Category II material is defined as all remaining types of nonfriable ACM not included in Category I that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

The asbestos NESHAP specifies that Category I materials that are not in poor condition and not friable prior to demolition do not have to be removed, except where demolition will be by intentional burning. However, Regulated ACM and Category II materials (including transite) that have a high probability of being crumbled, pulverized, or reduced to powder as part of demolition must be removed before demolition begins unless properly contained.

Residual amounts of PCBs are anticipated in the X-330 and X-333 Building ventilation ducts, transformers, electrical switchgears, storage tanks, and capacitors, once oil is drained from the systems. The joints in the ventilation ducts were installed with PCB-impregnated gaskets as a fire retardant because these ducts were connected to the process motors and their shaft oil lubricating systems. During normal operations and failures, lube oil from the motors leaked into the ducts, soaked through the PCB-impregnated gaskets, and dripped onto the operating floors of the process buildings. Oil collection systems constructed of polyvinyl chloride piping were installed on the ventilation duct joints to collect the PCB-laden oils. In summary, the ventilation ducts and PCB oil-collection systems are known to contain regulated levels of PCBs, oils, and radionuclide contamination.

Residual amounts of strong oxidizing agents, such as elemental fluorine and chlorine trifluoride used in cell treatments for deposits, may be encountered in surge drums, process piping, or manifolds and piping where these agents were distributed to the process equipment.

Small amounts of mercury are contained in various specialized instruments essential to the proper functioning and operation of the process equipment. For example, mercury is commonly found in temperature/pressure contact switches, chemical traps, fire pull stations, and mercury vapor lamps used for high bay lighting (TPMC 2006b). The X-326 Building instrument and sampling lines contain small mercury traps that were used to remove corrosive gases within the line and prevent damage to the mass spectrometer line recorders.

Arsenic may be found primarily in the X-326 Building instrument lines and sampling lines as a result of treatment gases. Beryllium is present in aluminum compressor blades and compressor impellers in low parts per million quantities. Other metals such as arsenic, barium, cadmium, and lead may be found in association with the chemical trapping materials. For example, sources of lead contamination may include wall plugs, solder, electrical sheathing, and other common materials of construction. Standard waste characterization practices include careful examination of materials of construction to verify and quantify the presence of RCRA-regulated metals and other hazardous constituents.

In the auxiliary systems, the seal exhaust systems and process monitoring and control instrumentation were regularly exposed to process gas and are anticipated to be contaminated with uranium. Auxiliary systems that were not exposed to process gas and are not expected to be contaminated with uranium include the nitrogen distribution system, dry air distribution system, steam distribution system, coolant system, RCW system, lube oil system, and power systems.

The process buildings were constructed on concrete slabs ranging in thickness from 6 to 8 in. Neither chemical nor radionuclide contamination from the gaseous diffusion process is expected to have migrated into soils beneath the buildings. To date, soil samples have not been collected below the slab of the process buildings to verify this expectation.

Electrical and instrument tunnels run from beneath the process building control rooms to the X-300 Central Control Facility and the electrical switchyards. Instrument lines and electrical power cables are contained within these tunnels. Hazardous materials such as arsenic, silver and other solder agents, asbestos, and lead in the electrical cables and various electrical components may be encountered.

4.2.2 Data from the ETTP D&D Project for Key Buildings

PGE data from PORTS are the best data to represent the types and levels of contaminants that may be found in PORTS PGE waste streams. These data are presented in Section 2.2.1. The data recently collected at PORTS from the demolition of earlier buildings presented in Section 2.1.4 are the best representation of the type and levels of contaminants that may be found in future D&D waste streams (RC-1) from many of the PORTS support facilities. This information from PORTS can be supplemented with data from waste streams from the demolition of the structures of the process buildings or maintenance buildings at ETTP. Therefore, the data available from ETTP for similar buildings are also evaluated.

ETTP (formerly the K-25 GDP) had an identical mission to that of PORTS. The K-25 Building was the world’s first gaseous diffusion process building. After the process was demonstrated, the K-27, K-29, K-31, and K-33 gaseous diffusion process buildings were constructed on the current ETTP site. K-27 and most of the K-25 Building were shut down in the spring of 1964. The K-311-1/K-310-3 Top Purge Cascade was the only operating equipment in the K-25 Building after June 1964 (Shoemaker 2010). All remaining gaseous diffusion operations were ended in 1985. Since 1989, the ETTP mission has been environmental cleanup and reindustrialization. Both K-25 and PORTS enriched uranium for use as nuclear fuel in commercial and DOE nuclear power reactors, as well as for defense purposes (weapons).

For most of the operating life of ETTP and PORTS, both plants received slightly enriched uranium feed from the Paducah GDP. Only Oak Ridge and PORTS produced HEU products. Therefore, it is reasonable to assume that the list of contaminants and their relative magnitudes would be comparable. In addition to radioisotopes, both facilities had full-service converter repair and cleaning facilities that used TCE as the primary solvent. Both plants had uranium recovery and general maintenance facilities.

There has been significant progress with D&D of ETTP, including the demolition of numerous facilities directly applicable to understanding the potential waste volume and characteristics of the waste to be generated at PORTS. For the ETTP facilities, characterization of the final regulatory waste type was completed prior to commencement of D&D but after a demolition decision was made.

Characterization of the ETTP buildings and structures is similar to the characterization ongoing and planned for PORTS buildings and structures. The purposes for characterization at ETTP include determining the appropriate waste handling and disposal approach as well as compliance with health and safety procedures and environmental requirements including all ARARs. To provide some understanding of the types and level of contamination that may be found in waste streams generated from demolition of the process buildings and maintenance facilities at PORTS (RC-1), the waste characterization data collected in similar ETTP buildings were considered. The data reported in this section were used specifically to determine if the waste could be disposed on the DOE reservation in Oak Ridge and therefore, the level of quality required was high.

At ETTP, potentially radiologically contaminated structures are surveyed. The major waste streams (roofs, concrete, structural steel and sidings) are also characterized using random sampling protocol developed following the Multi-Agency Radiation Survey and Site Investigation Manual approach. Biased samples are collected, when appropriate, based on historical use or release information, radiological survey results, or facility walkdowns prior to demolition. Sampling techniques and analytical processes and protocols established by EPA for the specific media are used. These include EPA-approved collection methods using core drilling for concrete, roofs, siding; saws for coupons for metal radiological samples; drill cuttings or shavings for metal chemical samples; wipe samples for dust or removable radioactivity; and grab samples for loose bulk media. Sample transport and analysis are managed by a Sample Management Office that uses only DOE Laboratory Accreditation Program-approved laboratories. These organizations follow nationally recognized protocols for chain of custody, quality (blanks, splits, and duplicates), contaminate analysis, and validation of data (typically 10 percent at a Level III validation). Radioisotopic analysis is primarily by alpha spectroscopy, though technetium-99 is analyzed by liquid scintillation. Chemical contaminant analysis is most typically by Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), Method 6010B for metals, Method 8270C for SVOCs, and Method 8082 for PCBs. TCLP analysis follows EPA 1311.

The K-1401 Building at ETTP was a maintenance facility serving the entire ETTP site through most of its active mission life. The K-1401 Building equivalent at PORTS is the X-720 Building. The K-1401 Building was fully characterized in 2005, waste profiles were developed, and the facility was demolished with the majority of resulting waste shipped to the Oak Ridge disposal facility (Environmental Management Waste Management Facility [EMWMF]). The estimated in-place waste volume prior to demolition was approximately 47,000 cy, but the actual as-disposed volume was only 16,500 cy (BJC 2010). Table 4.3 summarizes the expected concentrations of select key contaminants in the final K-1401 waste, based on a considerable waste characterization sampling effort.

Table 4.3. Summary of K-1401 Key Site-related Contaminant Concentrations

Site-Related Contaminant	Expected Concentration E(X)[a]
Technetium-99	13.94 pCi/g
Uranium-233/234	17.80 pCi/g
Uranium-235	1.36 pCi/g
Uranium-238	16.72 pCi/g
Chromium[b]	308.02 mg/kg
Lead[b]	363.50 mg/kg
PCB-1254[c]	58.35 mg/kg
PCB-1260[c]	8.72 mg/kg

[a] Source: BJC 2006
[b] Metals passed the Toxicity Characteristic Leaching Procedure test.
[c] The only Aroclors present were PCB-1254 and PCB-1260. All other PCBs were non-detects.

BJC = Bechtel Jacobs Company LLC
PCB = polychlorinated biphenyl

The K-1420 Building at ETTP was a uranium recovery facility servicing the gaseous diffusion process equipment. The K-1420 Building also performed a number of unique research and development activities with the goal of improving specific gaseous diffusion processes and/or materials used in the processes. The K-1420 Building equivalent at PORTS is the X-705 Building. The K-1420 Building was fully characterized in 2005, waste profiles were developed, and the facility was demolished with resulting waste shipped to the EMWMF. Prior to disposition, most of the equipment was removed, and yellow cake and other nuclear materials were segregated and disposed separately. The estimated in-place waste volume prior to demolition was approximately 8,300 cy, but the actual as-disposed volume was only 3,600 cy (BJC 2010). Table 4.4 summarizes the expected concentrations of select key contaminants in the final K-1420 structural waste.

Table 4.4. Summary of K-1420 Key Site-related Contaminant Concentrations

Site-related Contaminant	Expected Concentration E(X)[a]
Technetium-99	212.80 pCi/g
Uranium-233/234	273.71 pCi/g
Uranium-235	19.68 pCi/g
Uranium-238	166.94 pCi/g
Chromium	23.68 mg/kg
Lead	12.92 mg/kg
PCB-1254[b]	5.62 mg/kg

[a] Source: BJC 2005a
[b] The only Aroclor present was PCB-1254. All other PCBs were non-detects.

BJC = Bechtel Jacobs Company LLC
PCB = polychlorinated biphenyl

The K-29 Building at ETTP was a gaseous diffusion process building. The PGE and most of the other equipment was removed from the facility prior to characterization. No decontamination of the K-29 Building was performed prior to D&D. The K-29 Building is essentially equivalent to the top end of the X-330 Building at PORTS. It was fully characterized in 2005, waste profiles were developed, and the facility was demolished with the resulting waste shipped to the EMWMF. The estimated in-place waste volume prior to demolition was approximately 32,000 cy, and the actual as-disposed volume was 25,000 cy (BJC 2005b). Table 4.5 summarizes the expected concentrations of select key contaminants in the final K-29 Building structural waste.

Table 4.5. Summary of K-29 Key Site-related Contaminant Concentrations

Site-related Contaminant	Expected Concentration E(X)[a]
Technetium-99	299.80 pCi/g
Uranium-233/234	84.40 pCi/g
Uranium-235	4.58 pCi/g
Uranium-238	19.93 pCi/g
Chromium[b]	274.73 mg/kg
Lead[b]	610.77 mg/kg
PCB-1254[c]	4.54 mg/kg
PCB-1260[c]	3.36 mg/kg

[a] Source: BJC 2005b
[b] Metals passed the Toxicity Characteristic Leaching Procedure test.
[c] The only Aroclors present were PCB-1254 and PCB-1260. All other PCBs were non-detects.

BJC = Bechtel Jacobs Company LLC
PCB = polychlorinated biphenyl

4.2.3 PORTS Non-D&D Waste (RC-2) Contaminants Summary

Information from PORTS-specific environmental management documentation is used to assess the types of contaminants that may be present in non-D&D waste (RC-2) streams generated from environmental restoration activities conducted outside the DFF&O. The *Methods for Conducting Human Health Risk Assessments and Risk Evaluations at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2013a) developed tables for COPCs for radioisotopes, organics, and inorganic contaminants. These contaminants originated from the buildings and associated operations on PORTS, and although the releases may have been historic, they are possibly still present in the buildings or equipment. Table 4.6 provides a summary of radioisotopes considered as PORTS-related contaminants.

Table 4.6. PORTS Radionuclide Site-related Contaminants

Americium-241	Technetium-99
Neptunium-237	Uranium-234
Neptunium-237 (+D)	Uranium-235 (+D)
Plutonium-238	Uranium-238
Plutonium-239	Uranium-238 (+D)
Plutonium-240	

+D = plus daughter products

Table 4.7 provides a summary of organic constituents considered as PORTS-related contaminants. Table 4.8 provides a summary of inorganic constituents considered as PORTS-related contaminants.

Table 4.7. PORTS Organic Site-related Contaminants

Acetone	Dichlorodifluoromethane	Kepone (Chlordecone)
Acetonitrile	Dichloroethane, 1,1-	Lindane (gamma-HCH)
Acrylonitrile	Dichloroethane, 1, 2-	Methoxychlor
Aldrin	Dichloroethylene, 1,1-	Methyl Bromide (Bromomethane)
Benzene	Dichloroethylene, 1,2-	Methyl Isobutyl Ketone (Methyl-2-pentanone, 4-)
Bis(2-ethylhexyl)phthalate	Dichloroethylene, 1,2-cis	Methylene chloride
Bromodichloromethane	Dichloroethylene, 1,2-trans	Nitrobenzene
Bromoform	Dieldrin	Nitroso-di-N-propylamine, N-
Butadiene, 1,3-	Dinitrotoluene, 2,4-	cPAHs[a]
Butanone, 2-	Dioxane, 1, 4-	Noncarcinogenic PAHs[b]
Carbon disulfide	Dioxins/Furans[c]	PCBs[d]
Carbon Tetrachloride	Endosulfan	Styrene
Chlordane	Endosulfan sulfate	Tetrachloroethane, 1,1,1,2-
Chlorobenzene	Endrin	Tetrachloroethane, 1,1,2,2-
Chloroethane	Ethylbenzene	Tetrachlorethylene
Chloroform	Heptachlor	Toluene
Chloromethane (methyl chloride)	Heptachlor epoxide	Trichlorobenzene,1,2,4-
Chlorophenol, 2-	Hexachlorobenzene	Trichloroethane, 1,1,1-
Cresol, p-	Hexachlorobutadiene	Trichloroethane, 1,1,2-
DDT, total[e]	Hexachlorocylcohexane, Alpha- (alpha-HCH)	Trichloroethene
Dibenzofuran	Hexachlorocylcohexane, Beta- (beta-HCH)	Trichloropropane, 1,2,3-
Dibromochloromethane	Hexachlorocylcohexane, Delta- (delta-HCH)	Vinyl chloride
Dibromo-3-chloropropane, 1,2-	Hexanone, 2-	Xylenes, Mixture
Dichlorobenzene	Isobutyl alcohol	

[a] Carcinogenic PAHs: benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.
[b] Noncarcinogenic PAHs: acenaphthene, anthracene, benzo[g,h,i]perylene, fluorene, fluoranthene, naphthalene, 2-methylnaphthalene, and pyrene.
[c] Dioxins/furans include dioxin-like chemicals.
[d] PCBs include total PCBs and/or Aroclors.
[e] Total DDT includes 4,4’-DDT, 4,4’-DDD, 4,4’-DDE, 2,4’-DDT, 2,4’-DDD, and 2,4’-DDE.

cPAH = carcinogenic polycyclic aromatic hydrocarbon
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl

Table 4.8. PORTS Inorganic Site-related Contaminants

Aluminum	Total Chromium	Mercury
Antimony	Cobalt	Nickel
Arsenic	Copper	Selenium
Barium	Cyanide	Silver
Beryllium	Fluoride	Thallium
Cadmium	Iron	Uranium
Chromium (III)	Lead	Vanadium
Chromium (VI)	Manganese	Zinc

4.2.4 Summary of Waste Characterization and Assumptions

The following represent some important points summarizing known process knowledge and available characterization data. These points are highlighted as significant to the development and evaluation of remedial action alternatives:

- In excess of 95 percent of the remaining non-containerized radioactive material inventory associated with the GDP is contained within the PGE in the three main process buildings. This PGE waste stream represents approximately 19 percent of the total D&D waste (RC-1) volume.

- The major isotopes of uranium and technetium-99 are the most significant COPCs and potential contributors to risk.

- The residual radioactive material present in the PGE in the X-326 Building contains the highest activity concentrations of technetium-99 and uranium-235 present at the GDP. Sampling results and process history support the presence of nonuniformly distributed pockets of residual materials within the PGE in X-326.

- The X-333 Building contains up to an order of magnitude lower activity concentrations of technetium-99 within the residual radioactive materials present in the PGE.

- There is an extensive list of PORTS-specific contaminants that may be present in the waste streams (RC-2) or potential on-PORTS fill areas (RC-2, RC-3) as described in Section 4.1.2, including radiological, organic, and inorganic constituents. Soil sampling data from the vicinity of the GDP indicate that many of these same contaminants are present in the environmental media immediately surrounding buildings.

4.3 VOLUME AND CHARACTERISTIC UNCERTAINTY

There are uncertainties associated with the volume estimates presented in Section 4.1. The larger buildings have been the focus of significant efforts in estimating their waste volumes by using building drawings and engineering take-offs, supplemented by facility walkdowns where physical measurements were most often taken. The more numerous smaller building volume estimates were most often derived from parametric models or tools using factors such as facility footprint, number of stories, and general facility purpose. Even with great attention to detail and precision, estimated waste volumes can be high or low by a factor of 2 or 3 because of assumptions regarding interior wall construction, void spaces, and the presence or absence of miscellaneous materials. The waste volume estimate of a building prior to D&D is called an in situ or in-place estimate. Waste volume estimates for waste generated under the Ohio Consent Decree (RC-2) are also uncertain because there are uncertainties relative to depth and breadth of contamination; assumptions regarding whether excavation is needed and the excavation approach, side-slopes, etc.; and final cleanup levels. Waste volume estimates for in situ soils are also often described as “bank” estimates.

Concrete, metals, and other miscellaneous building materials typically expand during demolition activities, as does soil. The expanded waste estimate is referred to as the “as-generated” waste volume estimate. The as-generated volume estimate is necessary to plan and estimate waste transportation activities, storage/staging footprint considerations, etc. Experience on similar D&D projects in Oak Ridge suggests that 10 to 12 cy of as-generated waste is shipped in each dump truck with a rated capacity of 18 cy.

The final state-of-waste is the “as-disposed” waste volume estimate. DOE and commercial disposal facilities carefully track use of disposal air space as this measurement represents the most accurate volume capacity of a disposal facility. As waste is placed in a disposal facility, it is compacted in lifts. Soil waste or clean fill is used to properly dispose of waste forms with void spaces (EC-2). Compaction of waste is necessary to mitigate void spaces and the risk of future unacceptable landfill subsidence. The EMWMF in Oak Ridge tracks the as-disposed volume using quarterly surveys and documents the results in the annual EMWMF Capacity Assurance Remedial Action Report. The estimates of as-disposed waste disposed at EMWMF have consistently been less than the in situ or in-place estimate, and in some cases have been significantly lower. Table 4.9 illustrates this point for the three large ETTP buildings, one of which is a gaseous diffusion process building. The estimate for K-29 was only for the building structure and non-PGE systems as all PGE had been removed under a separate contract. The K-1401 and K-1420 facilities were full of contaminated equipment and miscellaneous waste as waste volume estimates were developed. The equivalent PORTS buildings are listed.

Table 4.9. Benchmarking Historical ETTP In-place Volume Estimates

Building (PORTS Equivalent)	Original Estimate (cy)	Final Estimate (cy)
K-1401 (X-720)	47,000	16,500
K-1420 (X-705)	8,300	3,600
K-29 shell (top end of X-330)	32,000	25,000

Source: BJC 2010

BJC = Bechtel Jacobs Company LLC
PORTS = Portsmouth Gaseous Diffusion Plant

Similar processes for estimating the initial waste volumes were used at both PORTS and ETTP. This background suggests that the PORTS waste estimates may be high, but these data are not sufficiently robust to make that judgment. Even if each building waste volume estimate is high, there may be generation of incidental wastes that have not been considered (such as some utilities or subsurface structures), and these wastes would bring the total waste stream volumes to higher levels.

There are uncertainties associated with the characteristics of the waste. However, the uncertainties are bounded by process knowledge and information available from the demolition of ETTP. The characteristics of the types of waste streams are well understood to allow a complete evaluation of disposal alternatives.

Despite these disparities, the overall conclusions as to which buildings are the major contributors to waste volumes (X-326, X-330, and X-333), the order of magnitude of the waste volumes (1.47 to 2.18 million cy), and what waste forms may be generated are sufficient to support development and evaluation of waste disposition remedial alternatives.

4.4 WASTE VOLUME SUMMARY

Table 4.10 presents a summary of the D&D waste volumes (RC-1) by waste form used through the FS portion of the document (Sections 7 through 9). The groups of waste are based on the potential action. The residual soil (RC-1, EC-1) is separated because it has fill properties and is used differently during disposal operations. There are also different costs associated with disposing of soil (EC-1) versus non-soil waste (EC-2) off Site. The PGE is separated because of the additional handling that is required (primarily covered in the process buildings RI/FS) and the specialized transportation requirements and costs if the equipment is moved whole. Targeted recyclables are separated because they would be moved to a recycling operation instead of being sent to a disposal facility. The rest of the material will be considered together in the FS.

Table 4.10. D&D Waste (RC-1) Disposition Volumes

D&D Waste Form Description[a]	In Situ Volume (cy)
Residual Soil (EC-1)	53,000
Asbestos (EC-2)	3,000
Concrete (EC-2)	400,000
Other Building Waste (EC-2)	629,000
Process Gas Equipment (EC-2)	272,000
Targeted Recyclables (EC-2)	110,000
Total D&D Waste and Recyclables (RC-1)	**1,467,000**

[a] Includes DFF&O buildings and structures/infrastructure with contents, equipment, and soil.

D&D = decontamination and decommissioning
DFF&O = *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
EC = engineering category
RC = regulatory category

HIGHLIGHTS OF SECTION 4

- A volume of 1.47 million cy of D&D waste (RC-1) is evaluated in the RI/FS.
- The majority of the D&D waste (RC-1) volume (75 percent) is generated from D&D of the three process buildings.
- Most D&D waste (RC-1) is classified as LLW, although there are some smaller volume streams controlled by other regulations such as RCRA and TSCA.
- The primary contaminants in the D&D waste (RC-1) are radionuclides. Metals, VOCs, SVOCs, PCBs, and radionuclides are present in contaminated media (RC-1, EC-1 and RC-2).
- Based on ETTP data, large volumes of waste with lower concentrations of contaminants are anticipated to be generated. Recently collected deposit data from the PORTS PGE show small volume streams with higher levels of contamination are likely.
- Up to an estimated 710,000 cy of additional non-D&D waste (RC-2) may be generated from non-DFF&O remediation efforts at PORTS.

NEXT STEP: SECTION 5 PUTS TOGETHER THE COMPONENTS OF THE CSM AND ASSESSES THE THREAT, THEREBY COMPLETING THE PROBLEM DEFINITION

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5. POTENTIAL THREAT TO HUMAN HEALTH, SAFETY, AND THE ENVIRONMENT

Section 5 presents a streamlined evaluation of the potential threat to human health, safety, and the environment from the no-action condition in which the buildings and structures at PORTS would eventually degrade and no waste disposition would occur, resulting in releases of contaminants with migration to locations where exposures to human and ecological receptors may occur. This section uses the sources, migration pathways, and potential receptors described in previous sections to develop a CSM to understand the potential threats to human health and the environment. The potential threat analysis is streamlined because only a comprehensive qualitative analysis of risks to human health and ecological receptors is presented as agreed upon in the DFF&O. This qualitative evaluation of potential threats to human health and the environment is based on the no-action conditions under which the former GDP buildings and structures at PORTS are assumed to no longer undergo surveillance and maintenance (S&M), existing security and institutional controls are eliminated, and the resultant condition is that the buildings degrade and ultimately release currently contained contamination.

This streamlined evaluation follows PORTS-specific risk guidance for conducting both human health and ecological risk assessments. The human health evaluation is based on the *Methods for Conducting Human Health Risk Assessments and Risk Evaluations at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2013a). The ecological evaluation is based on the *Methods for Conducting Ecological Risk Assessments and Ecological Risk Evaluations at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2013c).

The potential threat to human health is assessed comprehensively, but qualitatively, in Section 5.1. The potential effects to ecological species are addressed qualitatively in Section 5.2. On the basis of the evaluations presented in this section, the no-action alternative is shown to present an unacceptable level of risk to human and ecological receptors. On the basis of this unacceptable level of risk, remedial actions are warranted.

5.1 POTENTIAL THREAT TO HUMAN HEALTH

A streamlined evaluation of risk to human health for the no-action condition was conducted for purposes of determining whether remedial actions are warranted and to establish a risk analysis in support of developing and evaluating alternatives. To support the presentation of this risk evaluation, a previously established segmentation of PORTS, termed “quadrants,” was employed. Four quadrants were previously defined for purposes of conducting historical environmental cleanup activities at PORTS. These four quadrants encompass all areas on the PORTS reservation. Evaluating the potential threat to human health using this quadrant approach permits the risk evaluation to consider unique building conditions and hazardous material inventories in the buildings within each quadrant and the likelihood of these buildings to contribute additional contaminant mass to the exposure locations within each quadrant. Relating the known conditions within the buildings to the relevant environmental data provides information on not only the release potential of the remaining hazardous materials in the buildings, but also on the relative movement of many of these same materials, in the form of contaminants, in the environment as a result of historical spill and release events.

Using the intent of the four-step process outlined in the PORTS-specific risk assessment guidance (DOE 2013a), the qualitative human health risk evaluation identifies COPCs by using previous investigations and process knowledge. It develops a CSM that identifies the source(s) of the COPCs, their likely migration pathways and potential exposure routes, and their ultimate fate in the environment. Finally, using the transport and fate information along with toxicity information, the COCs are identified for applicable potential receptors. The PORTS-specific guidance focuses primarily on quantitative risk assessments. The qualitative risk assessment for this RI/FS uses the same steps, but each step is conducted on the basis of process knowledge instead of contaminant-specific data. For instance, the potential COPC identifications are based on operations that occurred in the various buildings or on environmental data associated with past releases from the buildings. They are not based on a screening of building analytical data against Type 2 screening levels and background levels. Likewise, the final identification of COCs and potential exposure pathways of concern are based on process knowledge about the prevalence of contamination sources and their likelihood to release, as well as their fate in the environment. In summary, risk is characterized in this analysis by qualitatively integrating process information and toxicity information about the contaminants likely to be present with exposure information for hypothetical receptors.

This streamlined assessment evaluates the risk from not disposing of waste, which is the no-action alternative. Under the no-action alternative, no D&D, S&M activities, or institutional control measures are assumed to have been conducted, and the equipment, buildings, and structures would hypothetically continue to deteriorate over time. The resulting waste from structural failure would lay where it falls, and uncontrolled release of contaminants from within the structures and equipment to the environment would eventually occur because no permanent disposal decision is made under the assumed no-action alternative. Natural structural degradation is a slow process characterized by incremental degradation of structural components eventually leading to episodic collapse. Therefore, persons in and around the deteriorating buildings would be at risk of injury from physical hazards such as being struck by falling structural components or collapse of floors resulting in falls.

5.1.1 Contaminant Identification

COPCs are those contaminants that are suspected to be associated with PORTS operations and could have a detrimental impact on human health if exposure occurs. For this qualitative assessment, the identification of COPCs for human health results in the same COPCs for ecological receptors. These COPCs represent the contamination found across PORTS. First, a list of contaminants identified in earlier investigations during the RFIs in potentially contaminated areas at PORTS was obtained and evaluated. (These data differ from the data collected during this RI, which were collected in support of siting a potential OSDC.) While this waste disposition RI/FS does not focus on environmental media, the earlier investigations illustrate what has been released to the environment historically. Even if these contaminants were identified in soil, they likely represent releases from activities that occurred originally in or around the buildings or as a result of waste generated in or around the buildings. Because evaluation of the risks from environmental contamination will be completed in the future, the data summary tables from the earlier RFIs were used as they were originally presented.

Then COPCs for this evaluation are identified by considering the history and operations that occurred in the major buildings in each PORTS quadrant and by identifying chemicals or radionuclides that are still likely to be present in enough mass to potentially release and be a threat to human health in the future. A map delineating the quadrants and the flow of groundwater is presented in Figure 5.1. Historical uses of chemicals that are no longer present may present a risk from exposure to environmental media, but they would not be a future risk from a release at a degrading building and, therefore, would not be identified as COPCs for purposes of this RI/FS. The COPCs associated with the PORTS process buildings, complex facilities, and other support facilities are identified by quadrant below. Section 4.2, which discussed the characteristics of the waste streams, identifies many of these same contaminants.

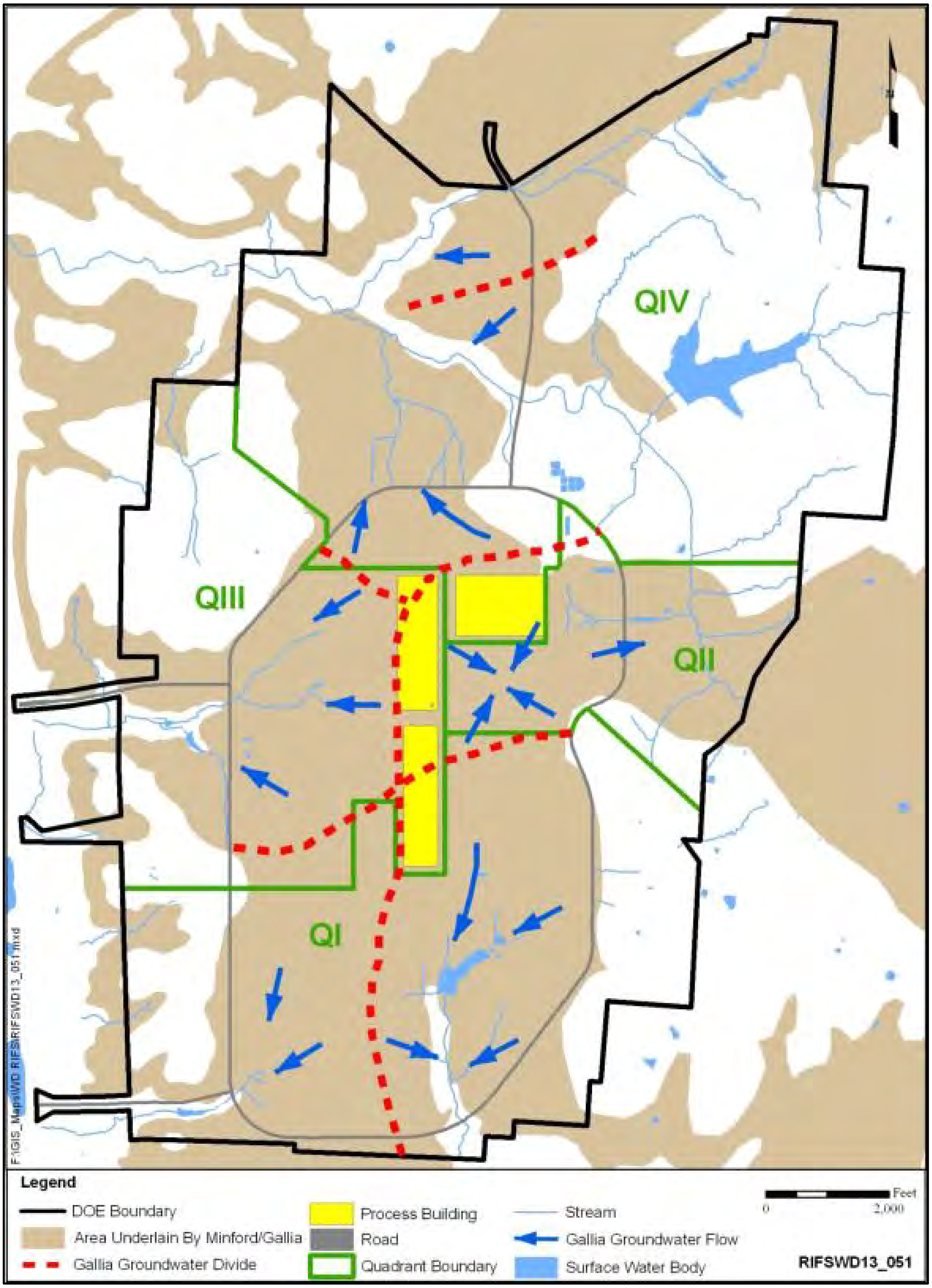

Figure 5.1. PORTS Quadrants and Groundwater Flow

Quadrant I

Several study areas, known as SWMUs were part of the RFI Quadrant I report (DOE 1996a), including the X-104A Indoor Firing Range, X-600A/X-621 Coal Storage Yard and Coal-Pile Runoff, X-230K South Holding Pond, X-710/X-710A Technical Services Building and Neutralization Pit, and Peter Kiewit Landfill. Table 5.1 provides a list of contaminants detected in environmental media that were either detected in more than 10 percent of the samples or detected in several media. For example, Aroclor-1260 is detected in both soil media (0 to 2 ft and 0 to 10 ft) and surface water (most notably in the Peter Kiewit Landfill SWMU), but not necessarily in more than 10 percent of the samples, so it is included on the list. Every chemical was not sampled in every medium. For example, Aroclor-1260 was not sampled in groundwater, and analysis for isotopic uranium was not performed. Depending on the media and how the data were summarized in the RFI report, some results are presented as a range of detected concentrations and others are presented as the 95th percentile upper confidence limit (UCL95) on the mean. The summary tables are as presented in the RFIs; no additional evaluation on the data was performed.

Table 5.1. Quadrant I Contaminant Concentrations by Media for PORTS

Media	Chemical	Units	Frequency of Detection	Range of Detected Concentrations
Soil (0-2 ft)				
	Aroclor-1254	μg/kg	2/52	180-740
	Aroclor-1260	μg/kg	8/52	23-760
	TCE	μg/kg	2/57	6.90-19
	Arsenic	mg/kg	52/55	1.30-37
	Barium	mg/kg	54/54	28-150
	Chromium	mg/kg	70/70	4.40-240
	Lead	mg/kg	54/54	6.70-450
	Mercury	mg/kg	47/55	0.01-0.09
	Silver	mg/kg	15/54	2.10-14
	Technetium	pCi/g	10/45	200-2,587,900
	Uranium, Total	mg/kg	45/45	1.9-154
Soil (0-10 ft)				
	Aroclor-1254	μg/kg	5/146	10-740
	Aroclor-1260	μg/kg	13/146	23-460,000
	TCE	μg/kg	2/175	2.50-3.30
	Arsenic	mg/kg	139/145	1.30-41
	Barium	mg/kg	140/140	20-250
	Chromium	mg/kg	197/199	3.60-240
	Lead	mg/kg	140/140	4.50-450
	Mercury	mg/kg	109/141	0.01-0.39
	Silver	mg/kg	56/140	1.50-110
	Technetium	pCi/g	17/145	200-2,587,900
	Uranium, Total	mg/kg	145/145	1.70-154
Sediment				
	Fluoranthene	μg/kg	5/6	24-560
	Arsenic	mg/kg	10/10	9.20-20
	Barium	mg/kg	10/10	30-92
	Chromium	mg/kg	9/10	6.30-22
	Lead	mg/kg	10/10	12-230
	Manganese	mg/kg	6/6	14-540
	Mercury	mg/kg	10/10	0.02-0.09

Table 5.1. Quadrant I Contaminant Concentrations by Media for PORTS (Continued)

Media	Chemical	Units	Frequency of Detection	Range of Detected Concentrations
Sediment				
	Nickel	mg/kg	5/6	18-870
	Silver	mg/kg	7/10	4.30-9.90
	Technetium	pCi/g	4/2	200-2,500
	Uranium, Total	mg/kg	12/12	2.50-8.50
Groundwater – Gallia				
	Chloroform	µg/L	17/129	1.40-230
	1,1-Dichloroethane	µg/L	19/129	1.70-650
	1,1-Dichloroethene	µg/L	25/129	1.70-790
	Cis-1,2-Dichloroethene	µg/L	32/129	1.30-210
	1,1,2,-Trichloro-1,2,2-Trifluoroethane	µg/L	9/130	6-3,000
	1,1,1,-Trichloroethane	µg/L	23/129	1.20-1,700
	TCE	µg/L	67/129	1.50-1,900
	Arsenic	µg/L	62/88	10-340
	Barium	µg/L	97/99	18-1,500
	Chromium	µg/L	80/99	10-6,700
	Cobalt	µg/L	60/99	11-230
	Copper	µg/L	52/99	26-520
	Lead	µg/L	59/95	5.10-370
	Nickel	µg/L	67/99	43-1,500
	Vanadium	µg/L	79/99	10-790
	Zinc	µg/L	91/99	25-1,600
	Technetium	pCi/L	3/52	23-94
Surface Water				
	Chemical	**Units**	**Frequency of Detection**	**UCL95**
	Aroclor-1260	µg/L	2/2	7.30[a]
	Aluminum	µg/L	11/13	3,282.36
	Arsenic	µg/L	6/12	18.24
	Barium	µg/L	11/13	46.78
	Iron	µg/L	12/13	9,482.95
	Lead	µg/L	7/13	8.02
	Manganese	µg/L	13/13	372.72
	Zinc	µg/L	11/13	90.79

[a] Max detect (mean = 4.65) Peter Kiewit Landfill data.

TCE = trichloroethene
UCL95 = 95th upper confidence limit on the mean

The facilities in this quadrant with the highest potential for exposure of receptors to contamination are located in the X-710 Complex, which is composed of the following buildings:

- X-710 Technical Service Building
- X-710A Gas Manifold Shed
- X-710B Explosion Test Facility.

The buildings in the X-710 Complex contain laboratories that provided technical, production, and development support for the Portsmouth GDP. Operations included material sampling and testing, chemical analysis and laboratory services, and housing for high pressure gas manifolds and cylinders of gas for use in laboratory functions. In addition, the X-710B Explosion Test Facility conducted experiments involving unstable compounds. Environmental releases have occurred as discharges from laboratory sinks and floor drains in the X-710 Technical Service Building. These discharges flow into the X-710 Neutralization Pit, which then discharges to the sanitary sewer. Prior to 1985, solvent wastes were discarded down laboratory sinks. The X-710 facility is suspected of being a potential source for a TCE plume near the building. Known releases of contaminants within the Technical Service Building include 2,000 gal of RCW, mercury spills from diffusion pumps on the mass spectrophotometer, and “smoking” sample U-tubes from connecting or disconnecting the containers to the spectrophotometer. Equipment used to analyze PCBs is contaminated. Hazards associated with the building include organic solvents, heavy metals, and mixed wastes, and lead-based paint is suspected to be present on the walls and piping of the facility. ACMs are in the thermal system insulation around pipes, floor tiles, and steam condensate lines (DOE 1993).

As a result of evaluating the processes and history of the buildings and comparing the list of contaminants that may still be present to the contaminants that have historically shown to release and migrate in the environmental media, COPCs in this quadrant include the following:

- Uranium (uranium-234, uranium-235, and uranium-238)
- Total uranium
- Technetium-99
- VOCs (e.g., TCE)
- SVOCs
- PCBs
- Cyanides
- ACMs
- Lead
- Mercury
- Chromates.

Asbestos (i.e., ACM) was not sampled in the environmental media and is currently managed under an S&M program at PORTS.

Quadrant II

Some of the Quadrant II SWMUs identified during the RFI (DOE 1996b) included the X-700 Chemical Cleaning Facility, X-705 Decontamination Building, X-720/X-720NP Maintenance Building and Neutralization Pit, East Drainage Ditch, and Little Beaver Creek. Contaminants frequently detected in environmental media (more than 10 percent of the time) in this quadrant are presented in Table 5.2. In this table, a UCL95 is presented (instead of a concentration range) for all media except groundwater, which is presented as a mean and maximum concentration.

Table 5.2. Quadrant II Contaminant Concentrations by Media for PORTS

Media	Chemical	Units	Frequency of Detection	UCL95
Soil (0-2 ft)				
	Acenaphthene	μg/kg	22/72	316.20
	Anthracene	μg/kg	31/72	423.79
	Aroclor-1260	μg/kg	22/80	261.76
	Benzo(a)anthracene	μg/kg	35/72	651.23
	Benzo(a)pyrene	μg/kg	39/72	641.04
	Benzo(b)fluoranthene	μg/kg	41/72	818.45
	Benzo(ghi)perylene	μg/kg	34/72	415.61
	Benzo(k)fluoranthene	μg/kg	34/72	435.13
	Chrysene	μg/kg	32/72	764.00
	Dibenzofuran	μg/kg	14/72	272.81
	Fluoranthene	μg/kg	46/72	1,652.60
	Fluorene	μg/kg	21/72	367.52
	Indeno(1,2,3-cd)pyrene	μg/kg	28/72	442.73
	Phenanthrene	μg/kg	42/72	1,227.95
	Pyrene	μg/kg	45/72	1,289.34
	Chromium	mg/kg	98/98	35.99
	Mercury	mg/kg	68/75	0.11
	Technetium	pCi/g	50/104	19,157.63
	Uranium, total	mg/kg	104/104	16.31
Soil (0-10 ft)				
	Acenaphthene	μg/kg	23/125	271.02
	Anthracene	μg/kg	34/125	323.04
	Aroclor-1260	μg/kg	22/135	144.27
	Benzo(a)anthracene	μg/kg	37/125	448.49
	Benzo(a)pyrene	μg/kg	41/125	424.20
	Benzo(b)fluoranthene	μg/kg	43/125	496.26
	Benzo(ghi)perylene	μg/kg	36/125	323.61
	Benzo(k)fluoranthene	μg/kg	33/125	342.52
	Benzoic Acid	μg/kg	17/125	1,817.18
	Chrysene	μg/kg	34/125	484.59
	Fluoranthene	μg/kg	54/125	850.26
	Fluorene	μg/kg	21/125	285.30
	Indeno(1,2,3-cd)pyrene	μg/kg	29/125	338.83
	Phenanthrene	μg/kg	45/125	639.49
	Pyrene	μg/kg	52/125	791.13
	TCE	μg/kg	14/145	7.21
	Mercury	mg/kg	101/124	0.07
	Technetium	pCi/g	63/161	7,677.72
	Uranium, total	mg/kg	161/161	9.86
Sediment				
	Acenaphthene	μg/kg	12/19	1,864.96
	Anthracene	μg/kg	15/19	3,004.63
	Benzo(a)anthracene	μg/kg	13/19	6,634.29
	Benzo(a)pyrene	μg/kg	13/19	5,865.19
	Benzo(b)fluoranthene	μg/kg	14/19	6,543.69

Table 5.2. Quadrant II Contaminant Concentrations by Media for PORTS (Continued)

Media	Chemical	Units	Frequency of Detection	UCL95
Sediment				
	Benzo(ghi)perylene	μg/kg	10/19	3,129.41
	Benzo(k)fluoranthene	μg/kg	14/10	4,663.61
	Chrysene	μg/kg	15/19	9,712.33
	Dibenz(a,h)anthracene	μg/kg	7/19	727.90
	Dibenzofuran	μg/kg	9/19	760.68
	Fluoranthene	μg/kg	17/19	26,223.10
	Fluorene	μg/kg	7/19	2,444.29
	Indeno(1,2,3-cd)pyrene	μg/kg	10/19	3,257.74
	Phenanthrene	μg/kg	16/19	34,237.62
	Pyrene	μg/kg	17/19	36,309.74
	Arsenic	mg/kg	19/19	15.62
	Barium	mg/kg	19/19	92.63
	Manganese	mg/kg	18/19	621.50
	Mercury	mg/kg	19/19	0.58
	Nickel	mg/kg	19/19	57.44
	Vanadium	mg/kg	19/19	38.84
	Zinc	mg/kg	12/19	210.26
	Technetium	pCi/g	17/20	3,216,991
	Uranium, total	mg/kg	17/17	18.11
Media	**Chemical**	**Units**	**Frequency of Detection**	**Mean/Max Detect**
Groundwater - Gallia				
	TCE	μg/L	27/50	1,424.10/23,000
	Arsenic	μg/L	18/28	28.23/120
	Barium	μg/L	33/33	173.98/1,000
	Chromium	μg/L	23/33	988.17/27,000
	Cobalt	μg/L	19/33	30.52/240
	Copper	μg/L	14/33	61.56/380
	Lead	μg/L	18/28	31.85/260
	Nickel	μg/L	16/33	200.03/2,700
	Vanadium	μg/L	22/33	82.53/610
	Zinc	μg/L	31/33	216.61/1,600
	Technetium	pCi/L	10/33	779.63/7,650
Media	**Chemical**	**Units**	**Frequency of Detection**	**UCL95**
Surface Water				
	TCE	μg/L	7/22	4.91
	Aluminum	μg/L	14/18	1,230.69
	Barium	μg/L	22/22	30.72
	Iron	μg/L	18/18	1,869.12
	Manganese	μg/L	18/18	205.36
	Zinc	μg/L	18/22	51.13
	Technetium	pCi/L	4/22	32.93
	Uranium, total	μg/L	1/22	6.12

TCE = trichloroethene
UCL95 = 95th upper confidence limit on the mean

The buildings in this quadrant with the highest potential for exposure of receptors to contamination are located in the X-700 Complex, X-705 Complex, and X-720 Complex, which are composed of the following buildings:

X-700 Complex

- X-700 Converter Shop and Cleaning Building
- X-700A Air Conditioning Equipment Building
- X-721 Radiation Instrumentation Calibration (RADCAL) Facility.

The X-700 Complex buildings were used for equipment maintenance support involving nonradioactive or low-level radioactive contaminated equipment from the diffusion cascade. In addition, they provided chemical cleaning operations, an air conditioning equipment building, and an instrument calibration facility to test radiation instruments.

The X-700 Converter Shop and Cleaning Building is a steel-framed, high-bay building with transite siding and concrete floors. The facility was used for equipment maintenance support involving non-radioactive or low-level radioactively contaminated equipment from the diffusion cascade. The building includes areas for chemical cleaning, converter disassembly/assembly, and welding. It also includes the X-721 RADCAL Facility. The RADCAL Facility houses several high-intensity radiation sources, which are intrinsically safe or are used remotely inside a shielded radiation room. A gamma irradiator and one filtered 320 kV constant potential X-ray unit are located in the “beam room” at fixed positions.

X-705 Complex

- X-705 Decontamination Building
- X-705D Heat Booster Pump Building
- X-705E Oxide Conversion Area.

The X-705 Complex consists of three buildings and/or structures, with X-705E located inside of X-705. The X-705 Decontamination Building was used for PGE disassembly and decontamination, uranium recovery, and routine chemical analysis. Disassembly and decontamination of PGE resulted in X-705 being exposed to the same radioactive contaminants as the process buildings. The entire building, except for the laundry, laboratory, break room, lockers, and offices located in the southeastern part of the building, is a contamination control zone because of radiological contamination (TPMC 2006c). Radiological contamination has become fixed in the floors, in walls, and on the inside surfaces of the building and its fixed equipment, including the washing equipment. Removable contamination is also present.

Because PGE contaminated with technetium-99 has been disassembled and decontaminated in X-705, technetium-99 contamination is also present. Decontamination actions involved cleaning and disposing small quantities of transuranic elements. The transuranic elements tended to stay behind in cylinder heels after feeding. Uranium and technetium are the two main radioactive materials present in X-705, and detectable concentrations of transuranic elements and uranium daughter products are also present in the building.

The X-705E Oxide Conversion Area was operated from 1967 until 1978 and was used to convert uranium oxide containing technetium-99 and transuranic elements to UF_6 for feed to the enrichment cascade. It is highly contaminated radiologically. The area is posted as a contamination control zone and is sealed because of potential or suspected contamination from transuranics. The equipment was shut down in 1978 because of high airborne radiation readings in the facility.

The X-705D facility served to circulate RCW through X-705 for heating. Its use was discontinued in 2001 when the gaseous diffusion cascade was shut down.

X-720 Complex

- X-720 Maintenance and Stores Building
- X-720B Radio Base Station
- X-720C Paint and Storage Building.

The X-720 Complex consists of three buildings. The X-720 Maintenance and Stores Building provided shop support, which involved sheet metal, utility and process maintenance, electrical, instruments, valves, compressors, spectrometers, and refrigeration. Outside the building are two 1,000-gal trichloroethane tanks and gasoline tanks. The abandoned X-720 Neutralization Pit, also located outside, was used from 1954 to 1991 to neutralize acidic and metal-bearing wastewaters before discharge to the sanitary sewer. This pit was partially removed in November 1998; all that remains is the bottom and the west wall, which were left in place due to constraints imposed by the tank's proximity to the X-720 building foundation. The X-720B Radio Base Station was used to store and maintain communications equipment, and X-720C was used for general storage, including storage of a variety of paints and solvents. Surface-wipe samples within the X-720 Maintenance and Stores Building were analyzed for beryllium and had results exceeding the DOE 10 *CFR* 850 release criterion.

By comparing the potential for residual contamination in the buildings to contaminants that have historically released in this quadrant, the following COPCs from these buildings were identified:

- Uranium (uranium-234, uranium-235, and uranium-238)
- Total uranium
- Technetium-99
- Neptunium-237
- Plutonium-239
- VOCs (e.g., TCE)
- PAHs
- PCBs
- Freon-502, Freon-22
- ACMs
- Arsenic
- Beryllium
- Cadmium
- Chromates
- Lead
- Mercury
- Nickel
- Titanium
- Zinc.

Process lines from X-700, X-701C, and X-705 discharged to the former X-701B Holding Pond, which is a source for a TCE plume.

Quadrant III

Some of the SWMUs identified in the Quadrant III RFI (DOE 1996c) included the X-326/X-330 Process Buildings, X-616 Liquid Effluent Control Facility/Former Chromium Sludge Lagoons, and X-6619 Sewage Treatment Facility. Contaminants detected in environmental media (more than 10 percent of the time) in this quadrant are listed in Table 5.3.

Table 5.3. Quadrant III Contaminant Concentrations by Media for PORTS

Media	Chemical	Units	Frequency of Detection	Range of Detected Concentrations
Soil (0-2 ft)				
	Acenaphthene	μg/kg	22/144	11-7,600
	Anthracene	μg/kg	32/144	7.60-13,000
	Aroclor-1260	μg/kg	16/1,142	23-2,000
	Benzo(a)anthracene	μg/kg	37/144	9.50-24,000
	Benzo(a)pyrene	μg/kg	51/144	5.70-24,000
	Benzo(b)fluoranthene	μg/kg	54/144	4.60-33,000
	Benzo(ghi)perylene	μg/kg	31/144	20-12,000
	Benzo(k)fluoranthene	μg/kg	44/145	16-11,000
	Chrysene	μg/kg	45/144	33-29,000
	Dibenzofuran	μg/kg	17/143	7-4,600
	Fluoranthene	μg/kg	75/146	7.20-73,000
	Fluorene	μg/kg	23/144	5.40-7,800
	Indeno(1,2,3-cd)pyrene	μg/kg	30/143	4.90-1,400
	Phenanthrene	μg/kg	48/144	10-66,000
	Pyrene	μg/kg	74/146	6-57,000
	Tetrachloroethene	μg/kg	44/138	1.10-55
	Arsenic	mg/kg	112/115	2.10-50
	Barium	mg/kg	115/115	5.90-460
	Beryllium	mg/kg	57/115	0.57-5.40
	Chromium	mg/kg	129/131	1.70-42
	Copper	mg/kg	115/115	3.30-33
	Lithium	mg/kg	16/24	12-64
	Mercury	mg/kg	98/115	0.01-2.50
	Nickel	mg/kg	112/115	4.40-140
	Zinc	mg/kg	129/129	12-400
	Technetium	pCi/g	3/106	1,800-3,500
	Uranium, Total	mg/kg	106/109	1.60-16.90
Soil (0-10 ft)				
	Acenaphthene	μg/kg	25/197	11-7,600
	Anthracene	μg/kg	35/197	7.60-13,000
	Aroclor-1260	μg/kg	20/192	23-2,000
	Benzo(a)anthracene	μg/kg	39/197	9.50-3,700
	Benzo(a)pyrene	μg/kg	53/198	5.70-24,000
	Benzo(b)fluoranthene	μg/kg	56/198	4.60-33,000
	Benzo(ghi)perylene	μg/kg	33/196	20-120,000
	Benzo(k)fluoranthene	μg/kg	46/198	16-11,000
	Chrysene	μg/kg	47/197	33-29,000

Table 5.3. Quadrant III Contaminant Concentrations by Media for PORTS (Continued)

Media	Chemical	Units	Frequency of Detection	Range of Detected Concentrations
Soil (0-10 ft)				
	Dibenzofuran	μg/kg	20/196	7-4,600
	Fluoranthene	μg/kg	81/199	7.20-73,000
	Fluorene	μg/kg	26/197	5.40-7,800
	Indeno(1,2,3-cd)pyrene	μg/kg	31/196	21-12,000
	Phenanthrene	μg/kg	54/197	10-66,000
	Pyrene	μg/kg	79/199	6-57,000
	Tetrachloroethene	μg/kg	49/180	1.10-55
	Arsenic	mg/kg	157/161	1.40-210
	Barium	mg/kg	162/162	5.90-460
	Beryllium	mg/kg	83/162	0.57-5.40
	Cadmium	mg/kg	22/162	0.57-8
	Chromium	mg/kg	197/199	1.90-75
	Copper	mg/kg	162/162	3.30-62
	Mercury	mg/kg	124/162	0.01-2.50
	Nickel	mg/kg	158/162	4.40-151
	Vanadium	mg/kg	162/162	5.10-150
	Zinc	mg/kg	190/190	12-400
	Technetium	pCi/g	6/146	1,000-4,300
	Uranium, Total	mg/kg	147/150	1.60-16.90
Sediment				
	Acenaphthene	μg/kg	19/34	23-73,000
	Anthracene	μg/kg	18/34	33-180,000
	Aroclor-1260	μg/kg	10/34	78-8,300
	Benzo(a)anthracene	μg/kg	19/34	68-210,000
	Benzo(a)pyrene	μg/kg	18/34	55-170,000
	Benzo(b)fluoranthene	μg/kg	21/34	22-190,000
	Benzo(ghi)perylene	μg/kg	17/34	27-65,000
	Benzo(k)fluoranthene	μg/kg	18/34	44-150,000
	Chrysene	μg/kg	20/34	77-220,000
	Dibenz(a,h)anthracene	μg/kg	10/34	47-9,300
	Dibenzofuran	μg/kg	15/34	26-53,000
	Fluoranthene	μg/kg	25/34	19-570,000
	Fluorene	μg/kg	18/34	25-84,000
	Indeno(1,2,3-cd)pyrene	μg/kg	16/34	43-62,000
	Napthalene	μg/kg	13/14	20-26,000
	2-Methylnapththalene	μg/kg	14/34	18-17,000
	Phenanthrene	μg/kg	21/34	37-630,000
	Pyrene	μg/kg	24/34	15-400,000
	Tetrachloroethene	μg/kg	13/34	2.10-42
	Arsenic	mg/kg	29/30	3.40-33
	Barium	mg/kg	30/30	13-130
	Chromium	mg/kg	30/30	2.20-170
	Cobalt	mg/kg	30/30	2.40-25
	Copper	mg/kg	30/30	3.40-62
	Lead	mg/kg	30/30	5-61
	Manganese	mg/kg	30/30	120-3,800

Table 5.3. Quadrant III Contaminant Concentrations by Media for PORTS (Continued)

Media	Chemical	Units	Frequency of Detection	Range of Detected Concentrations
Sediment				
	Mercury	mg/kg	28/30	0.02-3.20
	Nickel	mg/kg	29/20	9.30-31
	Vanadium	mg/kg	30/30	5.30-48
	Zinc	mg/kg	30/30	44-1,200
	Technetium	pCi/g	11/32	1,000-9,800
	Uranium, Total	mg/kg	32/32	1.30-25.20
Groundwater (Gallia)[a]				
	TCE	μg/L	11/19	1.10-11,000
	Arsenic	μg/L	13/25	13-500
	Barium	μg/L	25/25	51-970
	Chromium	μg/L	21/25	15-700
	Cobalt	μg/L	18/25	12-140
	Copper	μg/L	12/25	25-160
	Lead	μg/L	13/25	7.20-170
	Nickel	μg/L	16/25	46-260
	Vanadium	μg/L	23/25	14-380
	Zinc	μg/L	25/25	47-680
Surface Water				
	Fluoranthene	μg/L	5/22	1.20-5
	Phenanthrene	μg/L	3/22	1-2
	Aluminum	μg/L	8/9	410-250,000
	Barium	μg/L	21/21	13-2,100
	Chromium	μg/L	3/21	13-440
	Manganese	μg/L	9/9	4,700-770,000
	Mercury	μg/L	3/21	0.40-2.40
	Zinc	μg/L	20/21	21-80,000

[a] Technetium-99 was not analyzed for in groundwater.

TCE = trichloroethene

The buildings in Quadrant III with the highest potential for exposure of receptors to contamination are two process buildings (X-326 and X-330). The primary radiological COCs within the process buildings are uranium (including the uranium isotopes uranium-234, uranium-235, and uranium-238) and technetium-99. As discussed in Section 4.2.1.1, radionuclides introduced into the gaseous diffusion system from the processing of reactor returns were typically generated through the PUREX process. The PUREX process separated uranium and plutonium from spent nuclear fuel. The byproduct of this process was UO_3, which was returned to the uranium feed cycle for the production of UF_6 feed materials. The feed material produced from this process was called “reactor returns.” Although the PUREX process was relatively efficient in removing fission products and transuranic elements from the uranium, measurable amounts of technetium-99, neptunium-237, and plutonium-239 remained with the uranium feed material and were introduced into the gaseous diffusion process at PORTS.

Process equipment in the PORTS process buildings contained solid deposits of uranium compounds at the time of plant shutdown in 2001. A PORTS project was completed to reduce the size of the uranium holdup deposits to below ASM values, but some deposits remain as a primary future source of environmental contamination under no action.

Much of the introduced technetium-99 was removed from the PGE during plant upgrades in the late 1970s and early 1980s. These upgrades focused on the X-333 Building and the bottom half of the cascades in the X-330 Building. Technetium contamination remains in the X-330 equipment above the portion in which the upgrades occurred and throughout equipment in X-326, with heavier concentration of the contaminant in the side and top purge equipment.

Exterior surface uranium contamination exists in all three PORTS process buildings. Both fixed and removable contamination can be found on the operating and cell floors in X-326 and X-330. Surface technetium-99 contamination can be found primarily in the southern portion of the upper floor in the X-326 Building. This location is in the vicinity of the purge cascades.

Chemical trapping materials in the process buildings include alumina, such as Al_2O_3 and NaF. These trapping materials contain elevated concentrations of uranium, HF, technetium-99, and heavy metals.

Asbestos is found throughout the buildings on piping, in equipment housings, and in the transite paneling on the exteriors of buildings. PCBs from electrical capacitors, transformers, and impregnated ventilation gaskets; metals such as lead and silver solder from tubing fittings and other applications; cadmium and other metals from alloys and trapping materials; strong oxidizing agents from the residual UF_6, fluorine, and HF are anticipated to be present.

Chemical hazards in the process buildings include coolant (R-114) that was used as the primary process coolant for the UF_6 gas. Residual amounts of the coolant may be present in coolant tanks or piping in the process buildings. A small amount of liquid coolant (fluorinated and/or chlorinated carbon compounds) may be found in the tails area of the X-330 Building. The compound Miller's Fluorinating Lubricant may be found in the cold recovery systems in X-330 and X-333. RCW was used as the secondary cooling medium to cool the R-114. Initially, the PORTS RCW treatment system contained hexavalent chromium to prevent corrosion. In the 1990s, treatment of the cooling water was changed to a more environmentally acceptable phosphate-based system. Therefore, residual chromate and phosphate compounds are anticipated in the RCW system within the three process buildings. A recent demolition project of an RCW system (X-633 cooling towers) found detected levels of residual chromates. During demolition of the X-633 RCW Complex, metals and radiological constituents were detected above PORTS PRGs in the water in the pump house wet well, valve vaults, and the pump house floor drains. Detected constituents included: cadmium, chromium, lead, and uranium-238 (DOE 2009b).

Residual amounts of PCBs are anticipated in X-326 and X-330 transformers, electrical switchgears, storage tanks, and capacitors, once PCB oils have been drained from these systems. The ventilation ducts were installed with PCB-impregnated gaskets in the duct joints as a fire retardant, because these ducts were connected to the process motors and their shaft oil lubricating systems. During normal operations and failures, lube oil from the motors leaked into the ducts, soaked through the PCB-impregnated gaskets, and dripped onto the operating floors of the process buildings. Oil collection systems constructed of polyvinyl chloride piping were installed on the ventilation duct joints to collect the PCB-laden oils. The ventilation ducts and PCB oil-collection systems are known to contain oil and radionuclide contamination.

Residual amounts of strong oxidizing agents, such as elemental fluorine and chlorine trifluoride, used in cell treatments for deposits may be encountered in surge drums, process piping, or manifolds and piping where these agents were distributed to the PGE.

Small amounts of mercury are contained in various specialized instruments essential to the proper function and operation of the PGE. For example, mercury is commonly found in temperature/pressure contact switches, chemical traps, fire pull stations, and mercury vapor lamps used for high-bay lighting (TPMC 2006c). The X-326 instrument and sampling lines contain small mercury traps that were used to remove corrosive gases within the line. These traps prevented damage to the mass spectrometer line recorders.

Arsenic may be found primarily in the X-326 Building instrument lines and sampling lines as a result of treatment gases. Beryllium is present in aluminum compressor blades and compressor impellers, and silver is present in solder joints throughout the PGE. Both are present in low parts per million quantities. Other metals such as arsenic, barium, cadmium, and lead may be found in association with the chemical trapping materials.

By comparing the potential for residual contamination in the buildings to contaminants that have historically released in this quadrant, the following COPCs from these buildings were identified:

- Uranium (uranium-234, uranium-235, and uranium-238)
- Total uranium
- Technetium-99
- Neptunium-237
- Plutonium-239
- VOCs (e.g., TCE)
- SVOCs (e.g., PAHs)
- PCBs
- ACMs
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromates (including Cr-III and Cr-VI)
- Lead
- Mercury
- Silver.

Quadrant IV

Some of the SWMUs investigated in the Quadrant IV RFI (DOE 1996d) included the X-333 Process Building, X-342 Feed Vaporization and Fluorine Generation Building, X-344A Uranium Hexafluoride Sampling Facility/Settling Tank, X-611A North, Middle, and South Lime Sludge Lagoons, and X-745B Enrichment Process Gas Yard. Similar to the results in Quadrant III, technetium was detected and considered to be a contaminant in both soil and sediments, but it was not detected in groundwater or surface water. Contaminants and their associated concentrations in the various environmental media are listed in Table 5.4.

Table 5.4. Quadrant IV Contaminant Concentrations by Media for PORTS

Media	Chemical	Units	Frequency of Detection	Range of Detected Concentrations
Soils (0-2 ft)				
	Acenaphthene	µg/kg	18/98	58-29,000
	Anthracene	µg/kg	32/98	10-91,000
	Aroclor-1260	µg/kg	8/96	26-3,800
	Benzo(a)anthracene	µg/kg	40/98	40-180,000
	Benzo(a)pyrene	µg/kg	39/98	23-85,000
	Benzo(b)fluoranthene	µg/kg	41/98	21-150,000
	Benzo(ghi)perylene	µg/kg	29/98	20-48,000
	Benzo(k)fluoranthene	µg/kg	33/98	28-62,000
	Chrysene	µg/kg	40/98	24-96,000
	Dibenz(a,h)anthracene	µg/kg	13/98	82-8,100
	Dibenzofuran	µg/kg	17/98	15-25,000
	Fluoranthene	µg/kg	63/98	8.20-660,000
	Fluorene	µg/kg	18/98	45-47,000
	Indeno(1,2,3-cd)pyrene	µg/kg	28/98	21-55,000
	Phenanthrene	µg/kg	50/98	12-500,000
	Pyrene	µg/kg	61/98	6.10-290,000
	Arsenic	mg/kg	103/103	1.50-58
	Barium	mg/kg	103/103	2.90-220
	Beryllium	mg/kg	52/103	0.61-3.90
	Chromium	mg/kg	118/119	1.30-70
	Cobalt	mg/kg	103/103	1.30-56
	Copper	mg/kg	103/103	3.20-35
	Lead	mg/kg	106/106	4.90-270
	Lithium	mg/kg	10/24	14-44
	Manganese	mg/kg	103/103	43-760
	Vanadium	mg/kg	103/103	3.80-43
	Zinc	mg/kg	117/119	9.10-480
	Technetium	pCi/g	8/109	1,100-4,400
	Uranium, Total	mg/kg	109/109	1.20-66
Soils (0-10 ft)				
	Acenaphthene	µg/kg	25/162	54-29,000
	Anthracene	µg/kg	45/162	10-91,000
	Aroclor-1260	µg/kg	12/149	22-3,800
	Benzo(a)anthracene	µg/kg	53/162	31-180,000
	Benzo(a)pyrene	µg/kg	52/162	23-85,000
	Benzo(b)fluoranthene	µg/kg	55/162	21-150,000
	Benzo(ghi)perylene	µg/kg	39/162	20-48,000
	Benzo(k)fluoranthene	µg/kg	45/162	21-62,000
	Chrysene	µg/kg	52/162	24-96,000
	Dibenz(a,h)anthracene	µg/kg	18/162	47-17,000
	Dibenzofuran	µg/kg	23/162	170-170
	Fluoranthene	µg/kg	83/162	8.20-660,000
	Fluorene	µg/kg	25/162	11-47,000
	Indeno(1,2,3-cd)pyrene	µg/kg	39/162	21-55,000
	Phenanthrene	µg/kg	67/162	12-500,000

Table 5.4. Quadrant IV Contaminant Concentrations by Media for PORTS (Continued)

Media	Chemical	Units	Frequency of Detection	Range of Detected Concentrations
Soils (0-10 ft)				
	Pyrene	μg/kg	82/162	6.10-29,0000
	Tetrachloroethene	μg/kg	20/145	1.50-71
	Arsenic	mg/kg	153/154	1.30-220
	Barium	mg/kg	155/155	2.90-500
	Beryllium	mg/kg	77/155	0.61-3.90
	Chromium	mg/kg	223/224	1.30-100
	Cobalt	mg/kg	155/155	1.30-56
	Copper	mg/kg	155/155	3.20-160
	Lithium	mg/kg	10/25	14.00-44
	Manganese	mg/kg	154/155	5.30-2,000
	Mercury	mg/kg	126/155	0.01-3.50
	Nickel	mg/kg	150/155	5.20-110
	Vanadium	mg/kg	155/155	3.80-1,300
	Zinc	mg/kg	212/224	9.10-2,100
	Technetium	pCi/g	8/195	1,100-4,400
	Uranium, Total	mg/kg	195/195	1.20-352
Sediment				
	Acenaphthene	μg/kg	14/28	15-74,000
	Acenaphthylene	μg/kg	3/28	150-960
	Anthracene	μg/kg	18/28	14-120,000
	Aroclor-1260	μg/kg	5/27	200-6,600
	Benzo(a)anthracene	μg/kg	16/28	71-180,000
	Benzo(a)pyrene	μg/kg	22/28	18-140,000
	Benzo(b)fluoranthene	μg/kg	21/28	19-140,000
	Benzo(ghi)perylene	μg/kg	16/28	61-71,000
	Benzo(k)fluoranthene	μg/kg	19/28	23-130,000
	Chrysene	μg/kg	18/28	85-190,000
	Dibenz(a,h)anthracene	μg/kg	11/28	30-17,000
	Dibenzofuran	μg/kg	11/28	8-47,000
	Fluoranthene	μg/kg	21/28	18-390,000
	Fluorene	μg/kg	13/28	15-88,000
	Indeno(1,2,3-cd)pyrene	μg/kg	17/28	32-66,000
	2-Methylnapththalene	μg/kg	8/28	28-22,000
	Napthalene	μg/kg	8/28	61-37,000
	Phenanthrene	μg/kg	21/28	43-450,000
	Pyrene	μg/kg	21/28	49-370,000
	Arsenic	mg/kg	39/39	2.60-390
	Barium	mg/kg	39/39	25-1,000
	Beryllium	mg/kg	16/39	0.71-4.10
	Cadmium	mg/kg	14/29	0.66-3.70
	Chromium	mg/kg	38/39	5.30-21,000
	Cobalt	mg/kg	37/39	3-78
	Copper	mg/kg	38/39	3.20-2,200
	Lead	mg/kg	39/39	4-620
	Manganese	mg/kg	39/39	4.60-18,000

Table 5.4. Quadrant IV Contaminant Concentrations by Media for PORTS (Continued)

Media	Chemical	Units	Frequency of Detection	Range of Detected Concentrations
Sediment				
	Mercury	mg/kg	36/39	0.01-1.90
	Nickel	mg/kg	38/39	9.50-56
	Vanadium	mg/kg	39/39	3.30-190
	Zinc	mg/kg	36/39	11-11,000
	Technetium	pCi/g	5/45	1,000-5,500
	Uranium, Total	mg/kg	45/45	2.60-74.70
Groundwater (Gallia)				
	Cis-1,2-Dichloroethene	μg/L	5/50	1.40-84
	Arsenic	μg/L	36/39	12-350
	Barium	μg/L	40/40	53-1,300
	Cadmium	μg/L	13/40	5-17
	Chromium	μg/L	39/40	10-400
	Cobalt	μg/L	38/40	10-290
	Copper	μg/L	29/40	22-380
	Lead	μg/L	35/40	5.60-480
	Mercury	μg/L	9/40	0.21-0.77
	Nickel	μg/L	32/40	41-850
	Vanadium	μg/L	40/40	17-2,000
	Zinc	μg/L	40/40	40-2,400
Surface Water				
	Acenaphthene	μg/L	3/26	0.55-1.50
	Chloroform	μg/L	4/26	1.20-3.30
	2,4-D	μg/L	4/26	0.54-5.10
	1,4-Dioxane	μg/L	5/26	0.59-1
	Naphthalene	μg/L	3/26	0.64-2.20
	Barium	μg/L	26/26	15-53
	Chromium	μg/L	3/26	10-21
	Fluoride	μg/L	22/26	210-830
	Zinc	μg/L	26/26	33-130

The buildings in Quadrant IV with the highest potential for exposure of receptors to contamination are the X-333 Process Building and X-300 Complex. Operations in X-333 are sufficiently similar to those in X-326 and X-330 and have a similar list of potential contaminants.

The X-300 Complex buildings are composed of the following:

- X-342A Feed Vaporization Building
- X-342B Fluorine Storage Building
- X-343 Feed Vaporization and Sampling Building
- X-344A UF_6 Sampling Facility.

The main functions of these buildings included UF_6 feed vaporization to the cascade, receipt and sampling of incoming cylinders, and sampling and shipment of product cylinders. There are documented releases of UF_6 from these buildings.

The X-342A Feed Vaporization Building was used to feed, vaporize, and sample UF_6. The high-bay area of the building originally contained 12 steam vaporizers, but the facility was shut down between 1982 and 1983. At this time, the vaporizers were replaced with two 84-in.-diameter containment autoclaves that were capable of handling UF_6 cylinders up to 48 in. in diameter for feed vaporization and liquid sampling. The autoclaves were steam-heated and designed to contain the contents of a cylinder in the event of a cylinder rupture. The two autoclaves are currently in use. The facility is currently transferring heel material from UF_6 cylinders. Fluorine production with X-342A has been discontinued. Fluorine was produced by the electrolysis of HF to produce fluorine and hydrogen. Hydrogen, the byproduct of the operation, was vented to the atmosphere. The purified fluorine was stored in tanks in the X-342B Fluorine Storage Building, where it could be transferred into gas cylinders on the covered porch or piped to areas within the plant via the fluorine distribution system (as needed). The electrolyte used to produce fluorine is lithium fluoride (LiF), and potassium fluoride (KF) is used for purification. Sodium fluoride is contained in traps. The HF for fluorine generation is stored in eight steel cylinders, each capable of holding 850 lb (DOE 1993; TPMC 2006c).

The X-344A UF_6 Sampling Facility was originally constructed in 1958 to convert UF_4 to UF_6 and housed 40 fluorine generators and a flame tower. The building was abandoned in 1962 after the operation was discontinued. In the mid-1970s, the building was converted to a high assay sampling area, but this function was terminated in 1975. Equipment supporting the high assay sampling was removed to accommodate an increased market for LEU to fuel nuclear power reactors. In this capacity, the facility was used to transfer up to 5 percent assay of UF_6 from on-PORTS-use-only cylinders into customer-owned cylinders for shipment. Sampling was also conducted. Other parts of this building are used to stage, store, and weigh UF_6 cylinders. A large cylinder yard is located to the south and west of the building. The second floor of the building is used to store used, empty 12-in. UF_6 cylinders and heating, ventilation, and air conditioning equipment (DOE 1993; TPMC 2006c).

By comparing the potential for residual contamination in the buildings to contaminants that have historically released in this quadrant, the following COPCs from these buildings were identified:

- Uranium (uranium-234, uranium-235, and uranium-238)
- Total uranium
- Technetium-99
- Plutonium-239
- Neptunium-237
- VOCs (e.g., TCE)
- SVOCs (e.g., PAHs)
- PCBs
- ACMs
- Potassium fluoride
- Lithium fluoride
- HF
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromates (including Cr-III and Cr-VI)
- Lead

- Mercury
- Silver.

5.1.2 Exposure Assessment

Exposure of potential receptors to COPCs in each quadrant depends on the physical setting of the area, how contaminants migrate from the sources, and the resultant contaminated media. The buildings and COPCs listed above are the main sources for the current and future contamination within each quadrant at PORTS. Exposures could be expected from other buildings, but these are the major contributors to potential future threats to human health and the environment. As noted above, documented releases from these buildings and others in the past have contributed to the contaminated environmental media. Because these constituents remain in the buildings, future releases as these buildings degrade could increase contaminant mass in media outside the buildings.

To gain a better understanding of how contamination can move through PORTS, a brief description of the groundwater and soil characteristics is provided. As discussed in Section 3.6, groundwater flow at PORTS can generally be divided into four separate flow quadrants. The direction of groundwater flow in Quadrant I, the southern portion of the facility, is controlled by the presence of surface drainages (Big Run Creek and the Southwest Drainage Ditch), the storm sewer system, and bedrock topography. Based on the soils located in this quadrant, contaminants are expected to migrate slowly because of the clay characteristics. Groundwater flow in Quadrant II, in the eastern flow region, is bounded by Little Beaver Creek, which serves as the local surface water discharge point for shallow groundwater. Because of the thick shale and abundance of clay minerals, the retardation of contaminants is great and contaminant movement is expected to be very slow. Groundwater flow in Quadrant III, the western flow region, is primarily influenced by the X-2230N Holding Pond and the West Drainage Ditch. Contaminant migration through the soil is expected to be similar to that in Quadrant I. Groundwater flow in Quadrant IV, in the northern portion of the facility, is strongly controlled by Little Beaver Creek, the North Drainage Ditch, and to a lesser extent, the Northeast Drainage Ditch. Based on the thick shale and clay minerals, contaminant movement through the soil to groundwater is greatly retarded.

As the buildings degrade, contaminants will be released initially by surface rinse/runoff for any removable contamination. As the buildings and equipment further degrade over time and the PGE breaches, further releases of contamination will occur. The surrounding soil and sediments would be the first media to become contaminated. Surface water runoff and air dispersion and deposition would increase the spread of contamination. Mobile contaminants would move through soil via infiltration and move to surface water bodies and groundwater. Nonmobile constituents would tend to stay on PORTS and slowly migrate via surface run-off. These conclusions are supported by previous RCRA investigations (DOE 1996a, 1996b, 1996c, and 1996d) showing that chlorinated hydrocarbons and metals migrate to groundwater, which can be a threat to a hypothetical future on-PORTS resident. Likewise, there is evidence that low concentrations of PCBs are in soils (Quadrant I, II, III) and migrating to surface water bodies (Quadrant I).

The following paragraphs present general information on the mobility and chemical characteristics of the COPCs identified in the previous section that are most likely to still be present in the buildings and how they behave in various environments. This information supports a determination of which media are likely to be influenced by future releases of these contaminants.

Asbestos – Asbestos is the name given to a group of fibrous, naturally occurring silicate minerals. They are resistant to heat and most chemicals; therefore, they are used in insulation materials. The fibers do not evaporate into air or dissolve in water and are for all practical purposes inert. They do not tend to migrate through soil (Barbalace 2004). However, they can become airborne as particulate matter, referred to as friable asbestos. They can contaminate the surface soil around a building in which they have been used as construction materials.

PCBs – PCBs are a class of chemicals in which two to 10 chlorine atoms are attached to a biphenyl molecule. The PCB compounds are categorized by their degree of chlorination. PCB compounds in the United States were produced under the trade name Aroclor. The two prevalent cogeners of the Aroclors at PORTS (and those sampled in the previous RCRA investigations) are Aroclor-1254 and Aroclor-1260. The water solubility and organic carbon partition coefficient of each is listed below. Aroclor-1254 has more than an order of magnitude greater solubility than Aroclor-1260, but both have fairly low solubilities. The organic carbon partition coefficient or K_{oc} indicates the tendency of a chemical to adhere to organic carbon. The higher the K_{oc} value, the more likely the chemical adheres to organic material in soil, sediment, or suspended particles in water. PCBs are very persistent because they do not readily break down in the environment. In water, a small amount of PCBs may remain dissolved and thus can migrate, although most are adsorbed onto organic particles and bottom sediments. Table 5.5 presents the solubility and organic carbon partition coefficient data for the two PCB cogeners.

Table 5.5. Chemical Parameters for PCBs

PCB	Water Solubility (mg/L)	Organic Carbon Partition Coefficient (mL/g)
Aroclor-1254	0.0034	75,600
Aroclor-1260	0.000284	207,000

Source: ORNL 2011

ORNL = Oak Ridge National Laboratory
PCB = polychlorinated biphenyl

Chromium – Chromium occurs in nature, mostly as chrome iron ore or chromite. Although widely distributed in soils and plants, it is rare in natural waters. In most soils under reducing conditions, chromium will be present predominantly in the chromium III state, which has low solubility and very low mobility, thus, chromium does not move significant distances in soil. A field trial on the application of wastewater treatment sludge to soils found movement of heavy metals, including chromium, from the soil surface to a depth of 10 cm, but most of the metal remained in the upper 5 cm of soil. Thus, chromium is not likely to migrate from soil to groundwater. However, chromium VI species may be present, particularly under highly oxidizing conditions. Due to the higher solubility of chromium VI, its mobility in groundwater is higher. Chromium has been detected in groundwater at PORTS. Chromium compounds are very persistent in surface water. Most of the chromium in surface waters may be present in particulate form as sediment. The exact chemical forms of chromium in either medium are not well defined as typically species analysis is not conducted at PORTS. The solubilities of several chromium compounds are listed in Table 5.6. To account for the uncertainties in chromium oxidation states in the environment in the absence of specific sample data, the streamlined risk assessment assumes that both more toxic chromium VI, as well as the less toxic chromium III species, are represented by the total chromium sample results. This provides a conservative assessment of risks associated with exposures to chromium and assures that, if warranted, remedial actions specific to chromium may be considered.

Table 5.6. Solubility of Chromium Compounds

Chemical Form	Oxidation State	Solubility	Units
Chromium chloride	+2	Soluble in cold water	NA
Chromate (lead salt)	+6	0.2	mg/L
Chromate (sodium salt)	+6	873	g/L at 30°C
Dichromate (sodium salt)	+6	2,380	g/Lat 0°C
Chromium dioxide	+4	insoluble	NA
Chromium sulfate	+2/3	insoluble	NA
Chromium trioxide	+3	617	g/L at 0°C

Source: EPA 2011c

EPA = U.S. Environmental Protection Agency
NA = not applicable

Technetium – Technetium exists in valence states from +7 to -1. The most stable states in the environment are +7 and +4. In the +7 state (oxidizing conditions), dissolved technetium exists as the pertechnetate anion, which is highly soluble and mobile in most oxidizing systems. In the +4 state, technetium exists as the tetravalent cation and is relatively immobile (EPA 2004). Several studies have evaluated soil partition coefficient or K_d values. Site-specific K_d values have been measured for various geologic materials at PORTS. The technetium-99 K_d value measured in the Minford Formation ranged from 2.72 mL/g to 4.97 mL/g, indicating moderate potential for migration. Technetium-99 degradation occurs as a result of radiological decay. However, the radiological half-life is extremely long; thus, appreciable degradation will not occur.

Uranium – Uranium can exist in the +3, +4, +5, and +6 oxidation states. The +4 and +6 states are the most common in the environment. These oxides are not very soluble, but will gradually form hydrated uranium oxides in moist conditions. They will slowly dissolve and be transported into the surrounding soil, pore water, and groundwater. The +6 form (uranyl ion) can be adsorbed to clays and organic compounds. The U+4 state solid phases have relatively low solubilities, and their concentrations in water are relatively low (3 to 30 mg/L). The +4 state typically adsorbs strongly to mineral surfaces and partitions into organic matter. These properties lead to its reduced mobility in water (EPA 2006). The form of uranium inside the PGE at removal is uranyl fluoride (UO_2F_2) with minor residual UF_6 which upon contact with moisture will form HF and UO_2F_2. Although this form of uranium is soluble, it does not migrate. Placement of equipment with residual UO_2F_2 in scrap yards or landfills has not shown uranium migration to water sources, thus indicating an insoluble form of uranium being formed shortly after leaving the fluoride compound in the environment (perhaps due to the clay minerals in soil). The measured K_d in the Minford soil formation ranges from 3.67 mL/g to 118 mL/g, indicating little potential for mobility. Further evidence of the lack of mobility of uranium is shown via the historical soil data (see Tables 5.1 through 5.4) where detections of total uranium are found in the surface soils (0 to 2 ft), lesser in subsurface soils (0 to 10 ft), and very rarely in water samples. There are some detections of total uranium in sediment samples, which most likely are from washout and overland movement. Uranium degradation occurs as a result of radiological decay, generating a variety of radium isotopes. However, the radiological half-lives (time required for half of the concentration to be lost due to degradation) of the uranium isotopes are extremely long; thus, appreciable degradation will not occur.

TCE – TCE is a nonflammable, colorless liquid at room temperature and has a somewhat sweet odor. It is mainly used as a solvent to remove grease from metal parts. Volatilization is the primary means of eliminating TCE from soil. Henry's Law constant (0.403) and vapor pressure (69 mm Hg) indicate a propensity to volatilize or partition to the air phase. TCE is readily mobile in soil and is primarily affected by the organic carbon content (Log K_{oc} values range from 2.03 to 2.66 mL/g) (Garbarini and Lion 1986). TCE that has not volatized tends to migrate to groundwater (solubility at 20°C is 1.070 g/L) (Agency for Toxic Substances and Disease Registry [ATSDR] 1997a). While TCE in surface water readily evaporates, it can remain in groundwater for long periods of time. Degradation of TCE in groundwater occurs with a half-life of approximately 10 years.

A discussion of the potential exposure routes and the receptors that could be exposed to contaminants in media as a result of the transport mechanisms discussed above follows.

Under the no-action alternative, building S&M is assumed to cease, building waste would not be disposed of properly, and contaminants found in the buildings, including those in PGE, would be released to the environment. Therefore, there is the potential that receptors could come onto PORTS and be directly exposed to the contaminants in the buildings or waste after degradation. The CSM (Figure 5.2) shows the relationship between the sources of contamination and the potential receptors, including on-PORTS receptors (residents/trespassers and industrial workers) and off-PORTS receptors (plant neighbors and other members of the public near the plant).

The exposure assessment identifies and provides a discussion of the potential receptors that could be exposed to contaminants in the buildings or in media as a result of transport from the contaminant sources previously described to the locations where receptors come into contact with those contaminants. The receptors considered in this streamlined evaluation of threats to human health include both on-PORTS (within the boundary of PORTS) and off-PORTS (outside the boundary of PORTS) receptors in the most likely down-gradient locations from the sources. Potential receptors are identified along with the exposure pathways associated with the various exposure media. The following sections present the exposure assessment by receptors, both on PORTS and off PORTS.

On-PORTS receptors

Three types of receptors are to be considered for the on-PORTS scenario: a trespasser, an on-PORTS industrial worker, and an on-PORTS resident. Under the no-action alternative, there is a potential for receptors to trespass into the decaying or fallen buildings. There is a potential for other on-PORTS receptors, including on-PORTS industrial workers and future on-PORTS residents at PORTS, to be exposed to contaminants from the process buildings, complex facilities, and other support facilities. Such exposures could occur by inappropriate future use of the buildings and equipment/materials in the buildings or if migration of contaminants from the buildings occurs. In the case of on-PORTS users of the buildings or waste piles, direct contact with contamination is likely. Although most of the contamination is contained in secondary structures (PGE), it could be released through metal oxidation (corrosion) and ultimately wash out through breaches in the metal or through active physical disturbance. While corrosion rates vary widely based on metallic make-up and environmental conditions, corrosion of the equipment shells will occur and may accelerate once removed from the protection of the building structure. In addition to being directly exposed to contaminants in the building surfaces or associated waste, contaminants released from the buildings could migrate into immediately surrounding environmental media. The migration pathways include the migration of contaminants in air (as dust particulates and/or volatilization), in surface water as runoff, and in groundwater.

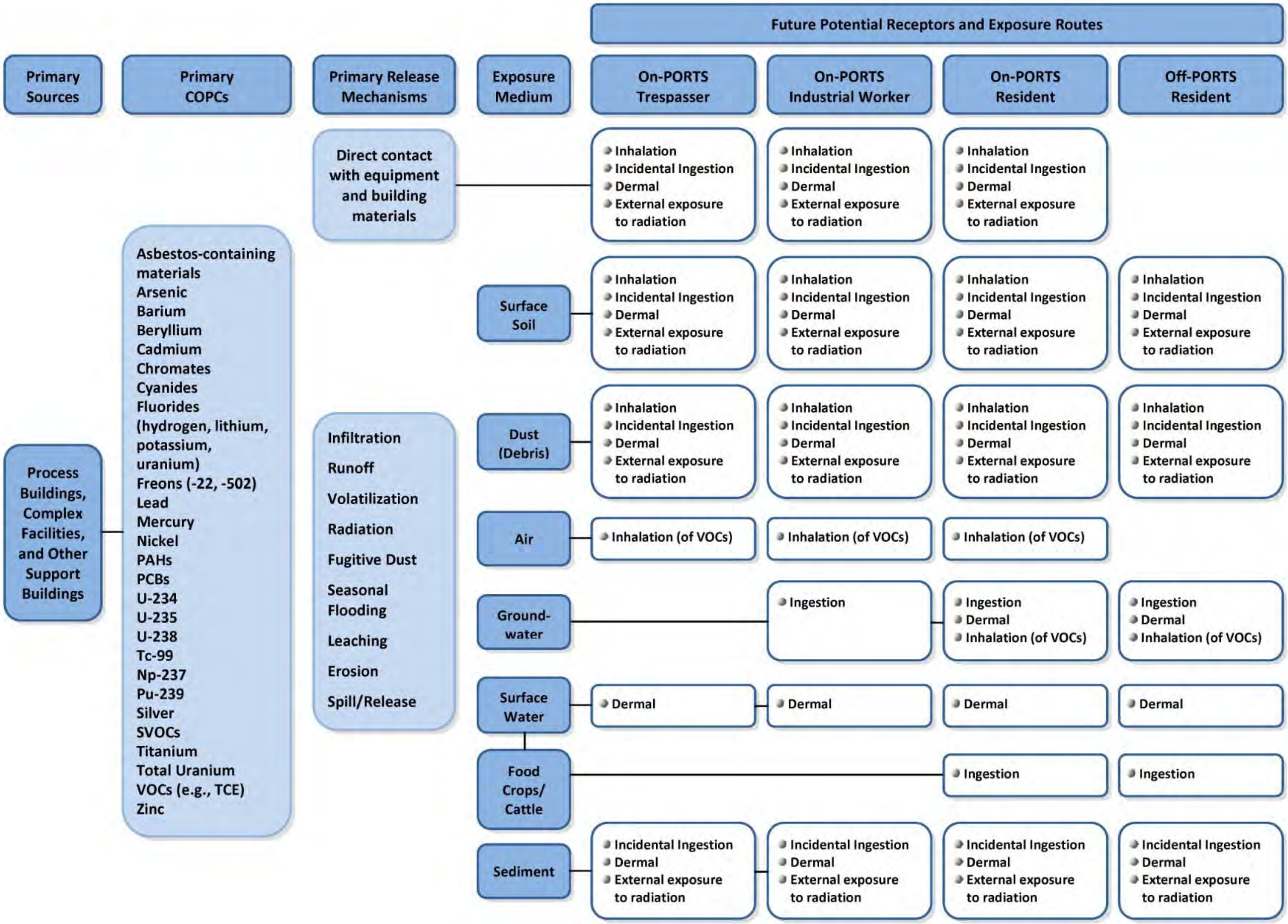

Figure 5.2. PORTS CSM for Human Receptors

- Trespassers – The trespasser is assumed to periodically traverse the industrialized area of the plant, perhaps exploring or recreating in or immediately adjacent to the buildings. They would have intermittent exposure to building materials and to the contents within the buildings, including potentially stored solvents. They would also have exposure to soil adjacent to the buildings, which may have become contaminated. The exposure routes of concern for the trespasser include:
    - Inhalation of particulates from contaminated equipment and building materials, dust from waste, surface soil, and VOCs in air (near dip vats)
    - Incidental ingestion of particulates from contaminated equipment and building materials, dust from waste, surface soil, and sediment
    - Dermal contact from contaminated equipment and building materials, dust from waste, surface soil, sediment, and surface water
    - External exposure from ionizing radiation from contaminated equipment and building materials, dust from waste, surface soil, and sediment.
- On-PORTS Industrial Worker – This receptor is a worker whose activities are in or near the deteriorating structures. The individual uses the building or building waste inappropriately in the future under a loss of institutional controls. The worker could be working inside or outside. The worker would consume groundwater from the plant. It is also assumed that the workers would not consume surface water from PORTS but that they could have contact with nearby surface water bodies. The exposure routes of concern for the on-PORTS industrial worker include:
    - Inhalation of particulates from contaminated equipment and building materials, dust from waste, surface soil, and VOCs in air (near dip vats)
    - Incidental ingestion of particulates from contaminated equipment and building materials, dust from waste, surface soil, and sediment
    - Dermal contact from contaminated equipment and building materials, dust from waste, surface soil, surface water, and sediment
    - External exposure from ionizing radiation from contaminated equipment and building materials, dust from waste, surface soil, and sediment
    - Ingestion of groundwater.
- On-PORTS Resident – The on-PORTS resident is an upper bound receptor and assumes that humans set up residence adjacent to or among the deteriorating structures. It is an unlikely receptor but is included in this analysis as a reference point for decision makers. This receptor is assumed to engage in subsistence farming and uses groundwater from the plant. Surface water is assumed to be used as an irrigation source for crops instead of groundwater as the groundwater yields on the plant are typically low. The median yield for the Gallia is reported to be 0.6 gpm, which is equivalent to only 864 gal/day. While this yield may be sufficient for small household use, numerous wells would be required to support crop irrigation. For example, the minimum yield to irrigate 1 acre is 5 to 10 gpm, operated approximately 20 hours/day (6,000 to 12,000 gal/day for 1 acre) during the summer. The exposure routes of concern for the on-PORTS resident include:

  - Inhalation of particulates from contaminated equipment and building materials, dust from waste, surface soil, VOCs in air (near dip vats), and groundwater
  - Incidental ingestion of particulates from contaminated equipment and building materials, dust from waste, surface soil, and sediment
  - Dermal contact from contaminated equipment and building materials, dust from waste, surface soil, surface water, sediment, and groundwater
  - External exposure from ionizing radiation from contaminated equipment and building materials, dust from waste, surface soil, and sediment
  - Ingestion of groundwater and food crops and livestock (cattle) irrigated by surface water.

Off-PORTS receptors

The off-PORTS receptor considered is a resident. This is the most conservative receptor because exposure parameters are highest compared to other receptors. Currently, contaminated air, soil/sediment, and surface water on PORTS have not reached any off-PORTS media to which an off-PORTS residential receptor may have come in contact (DOE 2010b; DOE 2010c). In 2004, TCE was detected in groundwater from an off-PORTS monitoring well south of the DOE property; however, TCE levels were less than the drinking water standard of 5 µg/L. Mitigation measures have been put in place, and current monitoring data indicate that the off-PORTS contamination has been reduced to less than 1 µg/L of TCE (DOE 2011b).

- Off-PORTS Residents – These are plant neighbors who live along the DOE boundary and could be potentially exposed on a long-term basis to contaminants released from buildings and migrating off PORTS.

  Under the no-action alternative, there is a potential for off-PORTS residents near the PORTS boundary to be exposed to contaminants migrating from the deteriorated process buildings, complex facilities, and other support facilities. Contamination off PORTS could result from the migration of contaminants in air (as wind-generated particulates with exposures dependent on wind direction, as indicated in Figure 3.3), in surface water as runoff, and in groundwater. The potential exposure routes of concern from these migration pathways would include the following:

  - Inhalation of particulates from wind-blown dust from waste and surface soil and of VOCs in groundwater
  - Incidental ingestion of particulates from wind-blown dust from waste and surface soil as well as sediment
  - Dermal contact from wind-blown dust from waste and surface soil as well as surface water, sediment, and groundwater
  - External exposure from ionizing radiation from wind-blown dust from waste and surface soil as well as sediment
  - Ingestion of groundwater and food crops and livestock (cattle) irrigated with surface water.

Potential residential exposure to surface water, as shown in the CSM (Figure 5.2), would also be a secondary exposure pathway because surface water could be used for irrigation of crops and as a drinking source for cattle. However, this pathway is considered to be insignificant in terms of exposure relative to the other primary exposure pathways. Groundwater was not considered as a source for irrigation or a drinking source for cattle because there is not enough volume to serve as an adequate supply.

5.1.3 Toxicity Assessment

Table 5.7 presents the carcinogenic class, primary human health exposure pathways, and primary target organs for potential systemic and/or cancerous effects from the expected COPCs. A brief summary of effects and toxicity is also provided.

Table 5.7. Health Data for Expected COPCs

Chemical of Primary Concern	Carcinogen Class[a]	Human Health Exposure: Primary Pathway(s) of Concern	Primary Target Organ(s) (for Systemic and/or Cancer Effects)	Reference for Carcinogen Class and Target Organs
Arsenic	A	Ingestion, inhalation	Liver, skin, gastrointestinal tract, bladder, lungs, kidney, nasal passages, liver, respiratory tract, prostate	EPA 2012 (IRIS)
Asbestos (friable)	A	Inhalation	Lung, asbestosis, mesothelioma	EPA 2012 (IRIS)
Barium	D	Ingestion	Gastrointestinal	EPA 2012 (IRIS)
Beryllium (and compounds)	B1	Inhalation, ingestion	Lung, bone, liver, kidneys, nasal ulcers, small intestine, spleen, berylliosis	EPA 2012 (IRIS)
Cadmium	B1	Inhalation, ingestion	Lung, kidney, prostate, bladder, stomach, bones, (toxic)	EPA 2012 (IRIS)
Chromium VI	A	Ingestion, inhalation, dermal	Lung, developmental effects, skin, gastrointestinal, stomach ulcers, male reproductive system	EPA 2012 (IRIS)
Cyanide	D	Inhalation, oral, dermal	Lung, central nervous system, convulsions	ATSDR 2006
Fluorides (Hydrogen)	D	Inhalation, ingestion, dermal	Lung, gastrointestinal, heart, skeletal, liver, and kidney	ATSDR 2003
Freons	D	Inhalation, dermal	Lung, skin	Brown 1988
Lead	B2	Ingestion, inhalation	Central nervous system, bone, kidney, neuropsychological impairment	EPA 1989; EPA 2012 (IRIS)
Mercury (elemental)	D	Inhalation of vapors	Central nervous system, kidney, developmental effects, gastrointestinal, eyes, urinary system	EPA 2012 (IRIS)
Nickel (insoluble compounds)	A	Inhalation, ingestion	Lungs, nasal, respiratory tract, kidney, immune system effects	ATSDR 2005
PAHs	B1-B2	Inhalation, ingestion, dermal	Lung, stomach, skin	ATSDR 1995

Table 5.7. Health Data for Expected COPCs (Continued)

Chemical of Primary Concern	Carcinogen Class[a]	Human Health Exposure: Primary Pathway(s) of Concern	Primary Target Organ(s) (for Systemic and/or Cancer Effects)	Reference for Carcinogen Class and Target Organs
PCBs	B2	Ingestion, inhalation, dermal	Liver, hepatocellular tumors	ATSDR 2000
TCE	C-B2	Inhalation, ingestion, dermal	Liver, kidney, skin, reproductive system, blood, central nervous system, lungs	EPA 2012 (IRIS)
Silver	D	Inhalation, dermal	Lungs and skin	EPA 2012 (IRIS)
Titanium (titanium tetrachloride)	D	Inhalation, dermal	Lung, skin	ATSDR 1997b
Zinc	D	Inhalation, ingestion	Lung	EPA 2012 (IRIS)
Uranium-total (soluble compounds)	D	Inhalation, ingestion	Lungs and kidney	ATSDR 2011
Uranium-234	A	Ingestion, inhalation, external exposure to radiation	Kidney, lung, tumors, brain, liver, reproductive effects	ATSDR 2011
Uranium-235	A	Ingestion, inhalation, external exposure to radiation	Kidney, lung, tumors, brain, liver, reproductive effects	ATSDR 2011
Uranium-238	A	Ingestion, inhalation, external exposure to radiation	Kidney, lung, tumors (kidney, brain, liver), reproductive	ATSDR 2011
Neptunium-237	A	Inhalation, ingestion, external exposure to ionizing radiation	Lungs, bones/skeleton surface, liver, developmental effects	IARC 2001
Plutonium-239	A	Inhalation, ingestion, external exposure to ionizing radiation	Lungs, respiratory tract, liver, bones/skeleton surface, developmental effects	IARC 2001; ATSDR 2010
Technetium-99	A	Ingestion, inhalation, external exposure to radiation	Thyroid, gastrointestinal	EPA 2002; EPA 2010

[a] Class A = human carcinogen, Class B1 = probable human carcinogen with limited human data, Class B2 = probable human carcinogen with sufficient evidence in animals, Class C = possible human carcinogen, and Class D = not classified (EPA 1989).

ATSDR = Agency for Toxic Substances and Disease Registry
EPA = U.S. Environmental Protection Agency
IARC = International Agency for Research on Cancer
IRIS = Integrated Risk Information System
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
TCE = trichloroethene

Asbestos is a Class A carcinogen, which means it is known to cause cancer (asbestosis) in humans, based on epidemiological studies. If appropriate controls are not in place, asbestos has the potential to affect human health and the environment. Chrysolite, the most commonly found form of asbestos, is present in the transite siding at a volume of 12 to 50 percent. This asbestos would continue to become more brittle and friable if not removed. Other forms of asbestos exist in insulation on piping and may become friable as the buildings degrade. Uncontrolled releases of asbestos present a risk to human health and the environment. The exposure pathway for asbestos would most likely be through the air, and the primary pathway of concern would be inhalation with the primary target organ being the lungs.

Arsenic is a Class A carcinogen, which means it is known to cause cancer in humans, based on epidemiological studies. Arsenic is primarily found in process buildings instrument lines and sampling lines as a result of treatment gases and may also be found associated with the chemical trapping systems. Once degradation of these systems occurs, releases and exposures to receptors are likely to occur. There are no large quantities of arsenic in these systems, so the exposures would be in low concentrations. The most likely route of exposure is ingestion of contaminated soils.

Barium is a Class D compound, which means it is not currently classified as causing cancer in humans. Barium was used in the chemical trapping systems within the process buildings. Exposure to barium is likely to be low, based on the quantities used. Ingestion is the primary pathway from contaminated soils and drinking water, leading to gastrointestinal disturbances and muscle weakness at low doses and to kidney toxicity at higher doses.

Beryllium is a Class B1 carcinogen, meaning it is a probable human carcinogen. The primary exposure route is inhalation. Acute and chronic berylliosis of the lungs can occur upon inhalation of beryllium and its compounds. Beryllium can be found, for example, in the machine shop and compressor shop areas of the process buildings in low parts per million quantities. If released to the environment, the potential for human exposure via inhalation is increased.

Cadmium is a Class B1 carcinogen; it is cancer probable human carcinogen, based on epidemiological studies. Small amounts of cadmium can be found in association with the chemical trapping materials in the process buildings. When degradation or disturbance of these traps occurs, releases of cadmium are likely. The main exposure routes to receptors are via ingestion and inhalation of contaminated soils. The quantities of cadmium are expected to be small, and exposures would be negligible.

Chromium VI is a Class A carcinogen by the inhalation route of exposure. Chromium compounds were used to prevent corrosion in the RCW treatment system until 1990 when treatment of cooling water was changed to a phosphate-based system. Residual chromates reside in the RCW systems in several structures. As this system degrades, releases of chromium VI are likely. Ingestion, inhalation, and dermal exposures are the main routes to receptors via releases to soils.

Cyanide is a Class D carcinogen, which means it is not currently classified as causing cancer in humans. The predominant uses of cyanides are in the steel electroplating and mining industry, with the main route of exposure through inhalation in this setting. However, ingestion via soil and groundwater may also occur. Low dose exposures may cause cardiovascular disturbances, while higher dose exposures cause central nervous system toxicity.

Fluorides (Hydrogen) are Class D carcinogens, which means they are not currently classified as causing cancer in humans. They typically are in the form of gases and are irritating to the eyes, nose, and skin. Breathing large amounts of HF can harm the lungs and heart. These compounds are most likely found in the process piping and the Feed, Transfer, and Sampling Facilities. Releases are expected to be periodic as breaches in systems occur. The routes of exposure include inhalation, ingestion, and dermal exposure.

Freons are Class D carcinogens, which means they are not currently classified as causing cancer in humans. Inhalation and dermal routes are the primary modes of exposure. Frostbite may occur due to liquid exposure to the skin, and inhalation of Freon vapors may cause central nervous system impacts, while prolonged exposure may lead to heart irregularities.

Lead is a Class B2 carcinogen, which means it is a probable human carcinogen. Lead-based paint is expected to be present in many of the painted structures because of the age of the buildings. Other forms of lead expected to be present would be in the form of solder from tubing fittings. The lead paint would pose a threat to human health if it were to become airborne (such as through mobile dust) or if it were subjected to heat. The primary routes of exposure would be ingestion and inhalation with the primary target organs being the central nervous system, bones, and kidneys. Neuropsychological impairment would be a systemic effect from exposure; children are particularly susceptible to exposure to lead.

Mercury is a Class D carcinogen, which means it is not currently classified as causing cancer in humans. The primary exposure route of concern is inhalation of mercury vapors. The crucial target organ is the brain. Mercury primarily has adverse effects on the central nervous system and can cause developmental effects in children. Mercury is expected to be present in such places as temperature/pressure contact switches, chemical traps, fire pull stations, and mercury vapor lamps. If released to the environment, the potential for human exposure via inhalation is increased.

Nickel (insoluble compounds of) is a Class A carcinogen, which means it is known to cause cancer in humans. The insoluble forms primarily impact the inhalation and ingestion pathways. The lungs, respiratory tract, kidneys, and immune system are the primary target organs/systems. Nickel in the form of nickel plating is located within the PGE and would be released from breaches of the equipment. The plating would need to go through oxidation before becoming available to receptors.

PAHs are a group of over 100 different chemicals, many of which are Class B1 and B2 carcinogens, meaning there is evidence of being a probable carcinogen in humans (B1-limited human data; B2-sufficient animal data). PAHs particularly affect the lungs via inhalation, stomach via ingestion, and skin via dermal exposure. These chemicals are primarily associated with discharges from industrial and wastewater treatment plants.

PCBs are Class B2 carcinogens, which means they are a probable human carcinogen. PCBs are particularly harmful to the liver via the ingestion exposure route. PCBs may be found in fluorescent lights with PCB ballasts, ventilation systems, and oils containing PCBs, although manufacture of PCBs was stopped in the United States in 1977. Also, PCBs can be found in older paints.

Silver is a Class D carcinogen, which means it is not currently classified as causing cancer in humans. The primary exposure route is via inhalation and dermal exposure. Chronic inhalation of silver oxide and silver nitrate dusts may result in chronic respiratory irritation, while dermal exposures may cause argyria, a permanent gray discoloration of the skin. Uses of silver included small amounts in the form of silver solder for tubing fittings and other applications.

TCE is a Class C-B2 carcinogen, meaning it is a possible/probable human carcinogen. TCE can be harmful to, for example, the liver, kidneys, lungs, and central nervous system. The primary exposure routes are inhalation and ingestion.

Titanium is a Class D carcinogen, which means it is not currently classified as causing cancer in humans. As titanium tetrachloride, it is irritating to the skin, lungs, and mucous membranes. Inhalation of large doses can damage the lungs. It strongly reacts with water to form hydrochloric acid. Titanium dioxide may cause gastrointestinal irritation via ingestion.

Zinc is a Class D carcinogen, which means it is not currently classified as causing cancer in humans. Its toxicity is considered to be relatively low, and ingestion of excessive levels may lead to nausea, epigastric distress, and anemia. Inhalation of high concentrations can cause metal fume fever.

Total uranium (including soluble compounds of uranium in which the predominant adverse health effect is systemic toxicity) is classified by EPA to be a Class D carcinogen, which means it is not currently classified as causing cancer in humans. The primary modes of exposure to uranium are ingestion and inhalation (dermal exposure is typically only applicable to water soluble forms of uranium). According to EPA, the primary toxic effect is damage to the kidneys. Additionally, workers in industry who have inhaled UF_6, a component introduced into the process gas system at PORTS, experienced respiratory tract irritation. However, this response was thought to be associated with the hydrofluoric acid, a component present when UF_6 is heated to a gaseous form, rather than from the uranium.

Radionuclides are Class A carcinogens, which means they are known to cause cancer in humans via a variety of exposure routes, depending on the specific radionuclide in question. Exposure to high levels of uranium isotopes (uranium-234, uranium-235, and uranium-238 in particular) can cause kidney, liver, and lung cancers/tumors from direct exposure, inhalation, and ingestion. Technetium-99 can cause thyroid and gastrointestinal cancers, primarily from the ingestion and inhalation exposure pathways. There are measureable amounts of neptunium-237 and plutonium-239 within the process buildings as a result of contaminants present in feed materials generated from reactor returns. Both neptunium-237 and plutonium-239 can cause lung, bone, and liver cancer, and developmental effects in children through direct exposure, inhalation, and ingestion. If released to the environment, the potential for human exposure to radionuclides via inhalation, ingestion, and direct exposure is increased.

5.1.4 Risk Characterization

The risk characterization estimates the potential for adverse health effects as a result of exposure to contaminants and the associated toxicity characteristics of the hazardous substances. In a quantitative assessment, this process culminates with a list of COCs as well as pathways of concern. COCs are those contaminants that are in sufficient concentrations in media to pose a threat to humans. This information guides alternative development to ensure that any action taken addresses the risk posed by exposure to PORTS contaminants. For a qualitative risk assessment, COCs are identified from the list of COPCs, using the understanding of the prevalence of the contaminants in remaining sources, their potential for release and/or migration, and their inherent toxicity.

The pathways of concern are identified as a result of the typical contribution of the pathways when risk is quantified. For instance, the use of surface water to irrigate crops generally is inconsequential compared to ingestion of groundwater.

If the PORTS buildings and structures are allowed to remain in place without maintenance over time, the wind, rain, and freeze/thaw cycles would cause degradation of building structures, eventually resulting in failure of the structures (e.g., roof leaks/failures, asbestos transite siding blowing off buildings and structures, and concrete crumbling and collapsing). In turn, this may result in an increased threat of exposure to receptors. Additionally, oxidation of metal components may eventually lead to decay, resulting in breaches that allow infiltrating water to wash out contaminants, allowing them to move away from the components in an overland flow to surface water. Threats to human health from exposure to contaminants such as asbestos, PCBs, lead, mercury, beryllium, uranium (metal/soluble compound), TCE, technetium-99, or uranium isotopes are minimal under current conditions. However, future uncontrolled releases would cause increased threats to human health via the exposure pathways discussed above. As these buildings continue to age, the threat of radiological and chemical substance releases would increase and actual releases to the environment would increase. Radiological and chemical substances could be released directly to the environment through, for example, a breach in a containment wall, roof, or other physical control as the buildings age and deteriorate. In addition to degradation causing a release, there is the potential that future users of the plant may breach the PGE and buildings, becoming exposed to what are safely encased contaminants and causing a sudden release of these contaminants.

The following sections discuss COCs and most likely receptors that would be impacted by those COCs by quadrant and environmental media. The COC identifications are based on quantities anticipated to be present (as a result of process knowledge), associated toxicity, and the mobility of these contaminants in the environment.

Quadrant I

The most likely receptors exposed to the ACM include the future trespasser, on-PORTS worker, and on-PORTS resident. The inhalation pathway would be the primary mode of exposure. Because of its physical nature (does not migrate far) and the distance to the plant boundary, the off-PORTS resident is not likely to be exposed to ACM.

PCBs are ubiquitous in buildings and would migrate to soils. PCBs are not very mobile. As a result of previous releases, PCBs have been detected in surface water in this quadrant. There is a potential for accumulation in sediments, which may cause unacceptable risks for the on-PORTS resident through ingestions and dermal contact. Given no action, PCBs could migrate off PORTS in the future through surface water pathways.

In the buildings, TCE is expected to still be present in large enough quantities to be considered a source for the trespasser, on-PORTS worker, and on-PORTS resident via inhalation. Cleaning operations took place within X-710, which is considered a source of the existing plume. Based on the mobility of TCE and the presence of an existing plume, releases of TCE from this quadrant could continue to be a future impact to groundwater and a threat to industrial workers and on-PORTS residents through ingestion. The expected TCE concentrations would not be as great as those currently in the environment because operations have been shut down. It is not likely that off-PORTS receptors would be impacted.

Other COPCs were not considered to be in large enough quantities to result in unacceptable risks to receptors and thus are not COCs. Most of the metal COPCs are likely in small quantities in solder and switches. Most of the laboratory waste from past operations was already disposed, and only minor contamination is expected. Therefore, the following are COCs associated with Quadrant I:

- ACM
- PCBs
- TCE.

Quadrant II

Based on operations at the buildings in Quadrant II, radioactive contamination and associated risks are expected to be unacceptable to the on-PORTS receptors. The risks to the worker and on-PORTS resident are expected to be greater than those to the trespasser (based on higher exposure frequency and duration). The main routes of exposure would be external exposure to ionizing radiation and incidental ingestion. The uranium isotopes are not very mobile, and soil is the most likely medium for exposure through external radiation. Technetium-99 is very mobile and may migrate to underlying groundwater. Ingestion of on-PORTS groundwater by a future industrial worker or on-PORTS resident could result in an unacceptable risk. Technetium-99 is unlikely to stay in the soil long enough to cause a risk due to its low K_d, suggesting that technetium-99 is moderately mobile in soils.

Based on the operations, ACM is ubiquitous in the building materials and may impact the on-PORTS receptors via inhalation.

Based on operations in Quadrant II buildings, it is likely that TCE would be a source, and exposures to on-PORTS receptors are more likely via inhalation. TCE was used in the X-705 Decontamination Building, X-705A/B, and the X-720 Maintenance Building and neutralization pit. As a result, local TCE spill sites throughout this area of PORTS are likely to have been, and may still be, sources of TCE groundwater contamination (DOE 2001a). The most likely exposed receptors to future TCE releases to groundwater are the on-PORTS industrial worker and resident, and the pathway with the greatest risk potential is groundwater ingestion.

PCBs are prevalent in the buildings throughout this quadrant. If released, PCBs could be a concern in on-PORTS soils through ingestion and dermal contact.

Chromium is expected to be a concern because X-705D served to circulate RCW, which contained chromium compounds, through X-705. Hexavalent chromium would be a risk to on-PORTS receptors via inhalation or ingestion of contaminated soils. It has been associated with groundwater contamination and may be an issue for on-PORTS residents through inhalation or ingestion of groundwater and for the industrial worker through ingestion.

Other COPCs are not expected to be present in large enough quantities to pose a risk or hazard to human receptors. Similar to Quadrant I, metals are not expected to be released in great quantities, and any metals detected in groundwater were from past operations. Therefore, the following are COCs associated with Quadrant II:

- Uranium and uranium isotopes (uranium-234, uranium-235, and uranium-238)
- Technetium-99
- ACM
- TCE
- PCBs
- Chromium.

Quadrant III

This Quadrant contains two of the process buildings and thus contains large quantities of uranium and technetium-99. Based on a limited early sampling event focused on both the converter shells and tubes, technetium-99 concentrations averaged 84,000 pCi/g in X-326. This concentration is above a soil PRG (DOE 2011c) for human health and clearly demonstrates that the converters are a potential future source of this radionuclide. Likewise, uranium concentrations in the process buildings are in the 10,000 pCi/g range and also indicate that there are continuing uranium sources. Once degradation of the PGE occurs, releases of UF_6 (the form of uranium in equipment) will occur, and upon contact with moisture, HF and UO_2F_2 will be formed. Although this form of uranium is soluble, historic releases via the atmosphere and subsequent deposition to soils have not shown migration to water sources, thus indicating an insoluble form of uranium in the environment. Technetium-99 is mobile and likely to migrate to water sources, where it could be a threat through ingestion. The other radionuclides, neptunium-237 and plutonium-239, are in much smaller quantities and are not expected to cause unacceptable risks.

Because of the large sizes of the process buildings, it is expected that large quantities of ACM could become a source of risk for on-PORTS receptors. Inhalation is the most likely exposure pathway.

Large quantities of PCBs from seals and gaskets in ductwork could be a future source of unacceptable exposure to receptors. Soil is the main medium of exposure, as discussed for the other quadrants. If migration to surface water does occur, dermal exposure to contaminated sediment is a potential for the on-PORTS resident and to lesser levels, off-PORTS receptors.

Chromium is expected to be present and associated with the RCW lines, and present an unacceptable risk to on-PORTS receptors through soil and groundwater via inhalation or ingestion.

The other COPCs are not expected to be released in large enough quantities to impact either on-PORTS or off-PORTS receptors. Although there are many items that contain metals, it is assumed that the degradation of these items may occur slowly over time, and the concentrations released would be minimal. Other metals such as nickel are in the form of plating and would not cause impacts to receptors. Therefore, the following are COCs associated with Quadrant III:

- Uranium and uranium isotopes (uranium-234, uranium-235, and uranium-238)
- Technetium-99
- ACM
- PCBs
- Chromium.

Quadrant IV

The X-333 Process Building is one of the main sources in this quadrant. It contains similar types of contaminants to those in the other two process buildings in Quadrant III, and exposure to receptors would be similar. TCE is an additional contaminant that is considered to be a COC for this quadrant, based on operations conducted in the Feed, Transfer, and Sampling Facilities. Off-PORTS groundwater migration of contaminants would be expected to be limited because of slow degradation of the process buildings, coupled with the fact that groundwater flows in a northern direction with discharge into Little Beaver Creek (Figure 5.1). Resultant surface water concentrations would be low due to dilution but off-PORTS migration is a potential. Therefore, the following are COCs associated with Quadrant IV:

- Uranium and uranium isotopes (uranium-234, uranium-235, and uranium-238)
- Technetium-99
- ACM
- TCE
- PCBs
- Chromium.

Summary. The process buildings, complex facilities, and supporting facilities contain numerous radiological and chemical contaminants that are known carcinogens and/or toxicologically hazardous substances. Under the potential future scenarios, it is anticipated that the expected concentrations of COCs in all applicable exposure media for receptors presented in this streamlined evaluation of threats to human health are at levels exceeding typical risk-based standards (DOE 2013a). Table 5.8 shows the potential completed pathways for the COCs discussed above, should the buildings be allowed to deteriorate and no action be taken to remediate the buildings and structures or dispose of the waste. Unacceptable exposures to human receptors from release of these contaminants are likely to occur if no action is taken. As noted in Table 5.8, potential exposures to contaminants present within and on equipment and building materials likely present unacceptable risks to all three on-PORTS receptors. Additionally, potential exposures to contaminants in soil, sediments, and groundwater likely present unacceptable risks to an on-PORTS industrial worker and to an on-PORTS resident, and to a lesser extent, a future off-PORTS receptor. Under the no-action alternative, the resulting threat to human health from these exposures establishes the need for remedial action.

Table 5.8. Summary of D&D Waste COCs and Potential Completed Pathways for PORTS

		On-PORTS Trespasser	**On-PORTS Industrial Worker**	**On-PORTS Resident**
Media	**COC**	**Exposure Route**		
Building Waste	ACM	Inhalation	Inhalation	Inhalation
	PCB	Ingestion/Dermal	Ingestion/Dermal	Ingestion/Dermal
	TCE	Inhalation	Inhalation	Inhalation
	Uranium	Ingestion/Inhalation	Ingestion/Inhalation	Ingestion/Inhalation
	U Isotopes	Ionizing Radiation	Ionizing Radiation	Ionizing Radiation
	Tc-99	Ionizing Radiation	Ionizing Radiation	Ionizing Radiation
	Chromium	Ingestion/Inhalation	Ingestion/Inhalation	Ingestion/Inhalation
Soil/Sediment	PCB	--	Ingestion/Dermal	Ingestion/Dermal
	Uranium	--	Ingestion/Inhalation	Ingestion/Inhalation
	U Isotopes	--	Ionizing Radiation	Ionizing Radiation
	Chromium	--	Ingestion/Inhalation	Ingestion/Inhalation
Groundwater	TCE	--	Ingestion	Ingestion
	Tc-99	--	Ingestion	Ingestion
	Uranium	--	Ingestion	Ingestion
	Chromium	--	Ingestion	Ingestion/Inhalation

-- = No completed pathway

ACM = asbestos-containing material
COC = contaminant of concern
PCB = polychlorinated biphenyl
PORTS = Portsmouth Gaseous Diffusion Plant
TCE = trichloroethene

5.1.5 Evaluation of Uncertainties

The estimation of uncertainty is fundamental to risk assessments. Types of uncertainty are divided into four broad categories: source term/data evaluation, exposure assessment, toxicity assessment, and risk characterization.

5.1.5.1 Uncertainties in source term/data evaluation

For the streamlined evaluation of the potential threats to human health, a list of contaminants identified in earlier environmental investigations at PORTS was obtained (DOE 2013a) and evaluated as well as process and building material of construction knowledge. The earlier investigations illustrate what has been released to the environment historically related to processes occurring in or around the buildings located within the quadrants. Identifying current and future COPCs using a process of considering the operations and historical releases, both documented and anecdotal, introduces uncertainties into the results. Historical releases may be greater than future releases because of recent efforts to bring the buildings into a safe shutdown mode, lessening the types and levels of contamination in the buildings. Or, future releases may be greater under an assumption of the loss of institutional controls because there would be no effort to control releases in the future. This uncertainty may overestimate or underestimate risk conclusions. For example, while PAHs have been detected in environmental media, including soil and sediment in the vicinity of buildings within three of the four quadrants, there is no evidence that significant sources of PAHs remain in the building such that future releases could result in increases in contaminant load in the environmental media. Therefore, not carrying PAHs forward as COCs is unlikely to result in an underestimate of both carcinogenic and non-carcinogenic risk as a result of exposures associated with the receptors considered in the streamlined evaluation of the potential threat to human health.

5.1.5.2 Uncertainties in exposure assessment

For each receptor in the streamlined evaluation of the potential threat to human health, assumptions are made concerning the routes of exposure, the contaminated media a receptor can be exposed to, and the potential for intake by the different routes of exposure. The most significant uncertainty results from use assumptions of the plant. Although the trespasser is a credible scenario under no action, the use of the plant, as is, for industrial or residential use is unlikely. Then, there is considerable uncertainty in the assumptions of which media will result in exposure to contaminants. Groundwater is not likely to have sufficient yield for household use. These assumptions are likely to overestimate the risk.

5.1.5.3 Uncertainties in toxicity assessment

There are numerous uncertainties associated with the toxicity information derived for chemicals and radionuclides, including carcinogen class, associated exposure routes, and primary target organs, that apply to the evaluation of the potential threat to human health. Such uncertainties include those related to scientific study results that identify the potential for human toxicity, those introduced by the process of deriving carcinogenicity potential, those related to impacts of other factors such as the potential for synergistic or antagonistic interactions, and those related to the assumption of predicting lifetime cancer induction or noncancer health impacts on the basis of less than lifetime exposure. Considering these uncertainties, the EPA has working groups that review all relevant human and animal studies, which themselves have undergone prior peer review, and select the studies most pertinent to the derivation of the specific noncarcinogenic and carcinogenic health impacts. These studies for chemicals often involve data from experimental animal studies using high exposure levels, and exposure under acute conditions (short time periods). Extrapolation of these data to humans, applicable to a lifetime exposure under low-dose chronic conditions, introduces large uncertainty. The magnitude of this uncertainty is addressed by applying uncertainty factors to the dose response data associated with chemical exposure, which provides an adequate margin of safety for use in risk assessments.

Unlike the uncertainty that can exist with toxicity values for chemicals, the uncertainty associated with radionuclide toxicity values is better defined. The dose-response relationship between cancer and ionizing radiation has been evaluated over many years and is well documented from both animal and accidental human exposure. In addition, toxicity values for radionuclides are extrapolated from the cancer induction data established using the Japanese Atomic Bomb Survivors Database and a relative risk projection model basing these values on human data rather than extrapolated from an animal model.

5.1.5.4 Uncertainties in risk characterization

The risk characterization estimates the potential for adverse health effects as a result of exposure to contaminants and the associated toxicity characteristics of the hazardous substances, taking into account the plant conditions, the exposure assessment, and toxicity assessment. For the streamlined evaluation of the potential threat to human health, COCs are identified from the list of COPCs, assuming a certain mass of these COPCs within the buildings, their potential for release and/or migration as the buildings deteriorate, and the inherent toxicity of the constituents. Likewise, the exposure pathways of concern are identified as a result of the typical contribution of the pathways when risk is quantified. However, the cumulative impact of these uncertainties is low since the list of COCs includes the high mass, high concentration constituents known to have been used at PORTS, coupled with the fact that such constituents are present in the environmental media within the quadrants.

The results of the streamlined evaluation of the threats to human health provide information necessary to justify action at PORTS (as related to the expected waste to be generated) and allow the evaluation and selection of the best remedy for PORTS.

5.2 POTENTIAL THREAT TO ECOLOGICAL RECEPTORS

This streamlined ecological risk evaluation is being conducted using the PORTS-specific guidance *Methods for Conducting Ecological Risk Assessments and Ecological Risk Evaluations at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2013c). This section uses the results of existing ecological assessments to determine the likelihood of impacts to ecological receptors as a result of contaminants that may be released from degrading buildings.

5.2.1 Process to Qualitatively Evaluate Potential Threat to Ecological Receptors

Seven steps are identified in the PORTS-specific guidance for conducting an ecological risk assessment. Using existing assessments of ecological impacts from PORTS activities, the screening elements (Steps 1 and 2) and problem formulation (Step 3) were completed when developing the waste disposition PER (DOE 2010a) and waste disposition RI/FS Work Plan (DOE 2012a) for this project. The PER concluded that no new data were required to qualitatively assess ecological risk. Therefore, no new field sampling design (Steps 4 and 5) or data analysis (Step 6) was performed to evaluate impacts of the no-action alternative to ecological receptors. Only Step 7 remains, and it is risk characterization. To complete this step qualitatively, the evaluation of COPCs developed in Section 5.1.1 will be examined against the assessment endpoints identified in previous ecological evaluations to determine if future impacts are expected. These endpoints from past evaluations are discussed in Section 5.2.2.

5.2.2 Receptor Identification and CSM Development

As part of the RFI at PORTS, DOE performed an assessment of the impacts that releases from PORTS had or may have had to the ecological receptors on the PORTS reservation. The results were reported in *Baseline Ecological Risk Assessment, Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 1996f). The PORTS Baseline Ecological Risk Assessment (BERA) focused on the Little Beaver Creek and Big Run Creek watersheds, and the northwestern, western, and southwestern tributaries. The Little Beaver Creek watershed runs primarily through Quadrants II and IV. Big Run Creek is located mostly in Quadrant I. The northwestern and western tributaries are mostly impacted by contaminants from Quadrant III, whereas the southwestern tributary is impacted by those from Quadrant I.

The endpoint species for the BERA included: aquatic species, including fish and benthic macroinvertebrate communities; terrestrial species, including vascular plants, soil invertebrates, vole, short-tailed shrew, American woodcock; and piscivorous species, including belted kingfisher and mink. Wetlands and T&E species were also addressed. However, no T&E species were identified on the PORTS reservation in the BERA, and there was negligible risk to the wetland vegetation present. A CSM was developed for the PORTS BERA exposure pathways (Figure 5.3), and it shows how wastes from PORTS move through environmental media to receptors. The existing CSM is sufficient for the needs of this streamlined evaluation of threats to ecological receptors.

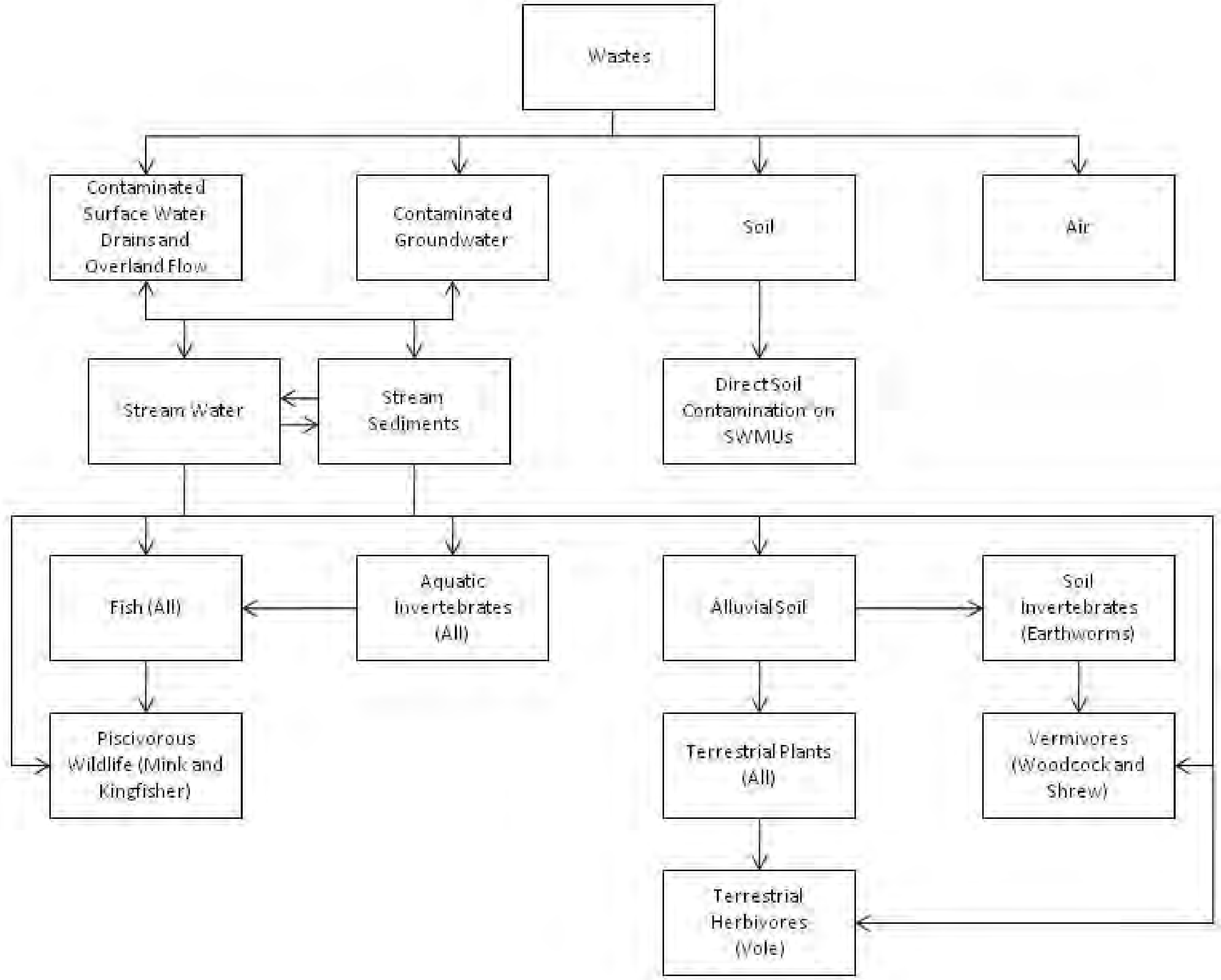

Figure 5.3. CSM for PORTS BERA Exposure Pathway

5.2.3 Risk Characterization

The results of the BERA are presented in this section. These results illustrate which contaminants have historically had the potential to impact ecological receptors at PORTS, based on concentrations in environmental media. Below is a summary of the BERA.

The risk results, presented in the BERA, from the Little Beaver Creek (Quadrants II and IV) watershed indicate potential impacts from chromium and mercury contamination to the invertebrate community in its alluvial soils. Although there were no risks to plant communities from contaminated alluvial soils, contaminants may bioaccumulate and pose a risk to herbivorous wildlife. Potential impacts to the wildlife communities were also concluded. PCBs were found in sufficient amounts to have potential adverse impacts on the abundance and reproduction of the shrew population through ingestion of earthworms and incidental ingestion of soils. These mammals have small home ranges and are likely impacted from distinct areas of contamination. In addition, the BERA concluded that the American woodcock may be impacted by the presence of chromium and the ingestion of earthworms at Little Beaver Creek. The BERA also concluded that all other endpoint species were unlikely to have impacts from PORTS contaminants.

For Quadrants II and IV, the COCs identified in the BERA were chromium, mercury, and PCBs. Sufficient quantities of these contaminants may remain in buildings and therefore would be present in the associated waste in these quadrants, enough to cause increased impacts to receptors if they are released and migrate to associated exposure media. As discussed above, it is likely that PCB concentrations in the on-PORTS environment would increase from buildings in these quadrants in the future if no action is taken on the buildings and associated waste. Wildlife communities could be impacted from future releases. Chromium and mercury concentrations are also likely to increase as the buildings degrade and release contaminants. Therefore, based on PORTS operations and the likelihood of further releases of these contaminants into the environment in sufficient quantities, chromium, mercury, and PCBs are identified as COCs for this qualitative ecological risk assessment.

No unacceptable risks from past operations were identified in the BERA for ecological endpoints in the Big Run Creek watershed (northwestern or western tributaries). There were indications of zinc toxicity impacts to the alluvial soil plant communities in the southwestern tributary (Quadrant I). Zinc was not identified as a COPC from buildings within this quadrant. Based on these results, it is unlikely that further releases from buildings or waste would impact ecological receptors. No ecological COCs from Quadrants I and III are identified.

The results of this qualitative evaluation of threats to ecological receptors indicate that there are potential impacts to on-PORTS ecological receptors from the no-action alternative.

5.3 RISK ASSESSMENT DATA LIMITATIONS AND RECOMMENDATIONS FOR FUTURE WORK

Little quantitative sampling data are available on contamination levels in anticipated building waste. Therefore, a full quantification of the baseline risk to humans and ecological species as a result of building degradation and not disposing of wastes is not possible. However, even if additional sampling data were available, there would be great uncertainty with estimating the rate of degradation, rate of contaminant release, and rate of contaminant migration to receptors. The analysis presented in this section demonstrates that potential threats to humans and ecological species can be described qualitatively by using the existing process knowledge and limited sample data from the PGE. For the no-action alternative, no additional data are needed to assess future threats to humans or the environment, and no future risk assessment work in that regard is recommended.

5.4 REVISED RAOS

As a result of evaluating the no-action alternative scenario described within the streamlined risk assessment, DOE concludes that active measures are necessary to protect public health or welfare and the environment from actual or threatened releases of pollutants or contaminants from PORTS. Such releases may present an imminent and substantial endangerment to the public health and the environment. The assessment shows radionuclides and other contaminants such as PCBs, asbestos, TCE, and chromium may be a future threat to on-PORTS users under no action. The RAOs developed during project scoping addressed the concern of unacceptable toxicity and carcinogenicity.

There is the limited potential, albeit slight, for future risk to terrestrial ecological populations if the buildings are left to degrade. To be protective of ecological species, the RAOs presented during project scoping have been revised to provide for future ecological protection. These RAOs are presented in Section 7.3.

HIGHLIGHTS OF SECTION 5

- With no waste disposition option, degrading buildings could pose an unacceptable future risk to on-PORTS users and limited terrestrial ecological species.

- With no D&D or waste disposition option, degrading buildings could pose some future off-PORTS unacceptable risk; however, because of limited contaminant migration these risks are expected to be less than on PORTS.

- The potential for future threats to human health to on-PORTS receptors and the environment from no waste disposition indicates the need to take an action to remedy the threat.

NEXT STEP: SECTION 6 SUMMARIZES THE PROBLEM STATEMENT

TO PREPARE FOR IDENTIFYING SOLUTIONS

6. SUMMARY OF PROBLEM STATEMENT

The intent of Section 6 is to present a summary of the problem statement for the Site-wide Waste Disposition Evaluation Project. A problem statement is developed from understanding the CSM. A CSM answers three questions: (1) what is the source of contamination (the source term), (2) how do contaminants move through the environment (transport pathways), and (3) how are potential human and ecological receptors exposed to the contamination (receptor exposure). Section 6 is organized around those elements of the CSM. Then, to put the problem into perspective, the magnitude of the threat associated with leaving the waste behind is provided.

This section is important because a solid understanding of the problem is needed before solutions are considered and alternatives are developed.

6.1 SOURCE TERM

Demolition of the process buildings, support structures, and other facilities at PORTS is anticipated to generate 1.47 million cy of various types of waste (RC-1, EC-1 and EC-2). Of that, an estimated 53,000 cy of residual soil (RC-1, EC-1) is estimated to be generated during D&D activities. Small waste streams such as fluorescent light bulbs would be removed prior to demolition for regulation-driven disposal, regardless of the final waste disposition decision. Of this total volume, an estimated volume of 110,000 cy of material may be recycled and/or reused. Of the remaining waste streams, the majority is anticipated to be classified as LLW.

Also included in this source term is any non-D&D waste (RC-2) generated because it is a potential waste stream. Some non-D&D waste (RC-2, EC-1) may be able to be used as fill if it meets the performance standards for fill, which will be set forth in more detail in remedial design documentation and if additional regulatory approval is obtained to excavate and place such non-D&D waste (RC-2) in a potential OSDC and use it as fill. Additionally, the impacts and implications of up to an estimated 710,000 cy of Ohio Consent Decree waste (RC-2) from the remaining environmental cleanup activities are considered, although additional regulatory approval would be necessary for excavation and placement of such Ohio Consent Decree waste in a potential OSDC. The 710,000 cy is an estimate established for the purposes of conducting a complete and thorough evaluation of the alternatives. The actual volume of any Ohio Consent Decree waste (RC-2) will be determined based on several factors, including the final remediation decision associated with such media. The decision to excavate or dispose of Ohio Consent Decree waste (RC-2) is not being made under this project. The source contaminant description as described in Section 4 of the RI/FS is the same for all of these waste streams (RC-1, RC-2).

The scope of other actions, besides those taken pursuant to the Ohio Consent Decree, that would generate non-D&D waste (RC-4) have not been identified yet, so there are no estimated volumes included in this RI/FS. The volume of fill required is estimated to be twice the volume of any waste with void spaces (EC-2) (which includes concrete, asbestos, PGE, and other building waste as defined in Section 4).

Historical sampling efforts at ETTP indicate the types of contamination that may be found in the larger buildings at PORTS. These contaminants would also be found in residual soil (RC-1, EC-1), Ohio Consent Decree soils (RC-2, EC-1), and other sources of contaminated fill (RC-3). There is the potential for multiple contaminants, but technetium-99 and the uranium isotopes are the most prevalent and serve as good bases for comparison between buildings and waste streams. Table 6.1 presents a side-by-side comparison of the various expected contaminants in some of the larger or more contaminated waste streams. The ETTP results are from a statistical calculation that gives the expected concentrations with a certain degree of confidence and reflects typical conditions of the associated building structures (no equipment). The X-326 converter results are maximum concentrations found to date (not all from the same sample) that represent a worst case condition. Soil background levels at PORTS are also presented as a reference and are considered to be provisional because work is underway to finalize the soil background levels (DOE 1996e). The data supporting concentrations in the process equipment are from PORTS sampling of the process equipment and various deposits associated with it. Sampling is ongoing, and the results from these samples are not yet representative of the entire PGE waste stream. The results presented for three of the larger buildings are like those from buildings at ETTP. The ETTP buildings are older and likely have higher levels of contamination than those that will be found in the PORTS buildings. However, these data do provide decision makers with a basis for understanding the level of contamination that may be found in the larger waste streams. This leads to a key conclusion. For the most part, the levels of radioactivity in the waste streams at PORTS are fairly low as shown in the ETTP building structure results, although small volumes of waste could contain fairly elevated levels, as can be seen from the maximum concentration found to date in the X-326 converters.

Table 6.1. Comparison of Radioactivity in Potential Waste Streams at PORTS

Radionuclide	Soil Background[a] (pCi/g)	X-705 (Represented by K-1420 at ETTP) (Expected-pCi/g)	X-720 (Represented by K-1401 at ETTP) (Expected-pCi/g)	X-330 (Represented by K-29 at ETTP) (Expected-pCi/g)	X-326 Converters (Max-pCi/g)
Tc-99	ND	213	14	300	166,000
U-233/234	1.68	274	18	84	33,170
U-235	0.076	20	1.4	4.6	1,007
U-238	1.64	167	17	20	623

[a] Draft soil background values from DOE 1996e.

DOE = U.S. Department of Energy
ETTP = East Tennessee Technology Park
ND = none detected

6.2 TRANSPORT PATHWAYS

Under no action, buildings and structures with this contamination would be allowed to degrade. Any buildings that have been demolished would remain as a pile of waste.

Technetium-99 is highly soluble and mobile, and it has been found at high concentrations in PORTS groundwater. Uranium isotopes are not as soluble, adsorbing onto soil particles. PCBs likewise are not soluble, but many of the organic compounds (especially the VOCs) are quite soluble and mobile. With the introduction of rain, many of the mobile contaminants would move from the waste into the surrounding soil and underlying groundwater. The less mobile contaminants may still leave the waste and repartition on the surface soil.

Although groundwater conditions in that area of the facility tend to be unfavorable for significant migration of contaminants off PORTS, there has been historical off-PORTS groundwater contamination that is currently controlled with containment systems. The groundwater flow system at PORTS includes the aquifers of the Berea sandstone and the unconsolidated Gallia sand and gravel, along with the aquitards of Sunbury shale, Cuyahoga shale, and unconsolidated Minford clay and silt. The basal portion of the Minford is generally grouped with the Gallia to form the uppermost and primary aquifer at the facility. The Gallia sand averages 3 to 4 ft in thickness across the plant and is characterized as reddish-brown, clayey, medium-to-coarse sand and gravel (sand and gravel are typically poorly sorted). Groundwater flow at PORTS, at least within the Gallia, can generally be divided into four separate flow regions. The groundwater flow divides and general directions of groundwater flow in the Gallia and Berea aquifers generally coincide with topographic highs along the center of the industrial complex (from south to north) and subtle topographic highs radiating outward and separating the predominant surface water features draining the facility.

Natural recharge to the groundwater flow system comes mainly from precipitation, although land use and the presence of thick upper Minford clay effectively reduce recharge to underlying units. Discharge of groundwater to the surface occurs primarily along streams that transect and border the facility.
Four creeks, or drainage channels, drain the facility. The four creeks and drainage ditches dissect the unconsolidated Minford and Gallia members, as well as the upper bedrock units (Sunbury shale and Berea sandstone), resulting in the discharge of groundwater to them. Groundwater flow beneath PORTS is generally toward one of these discharge locations, which in most cases, limits any groundwater off-PORTS migration of PORTS contaminants.

6.3 RECEPTOR EXPOSURE

PORTS is set in a rural area. In the immediate area surrounding PORTS, land is used primarily for farms, pastures, forests, and rural residences. At PORTS, Perimeter Road surrounds a 1,000-acre centrally developed industrial area. The portion of the plant outside of Perimeter Road has approximately 2,500 acres of land that include a water treatment plant, holding ponds, landfills, storage yards, parking areas, open fields, and forested buffer areas. The most likely future receptors of exposure from contamination in potential waste streams are the future users of the industrialized area of the plant. Because of the current use of the plant and the rural nature of the surrounding area, an on-PORTS industrial worker is the most likely receptor. However, it is conceivable that a future rural resident could access the plant. Because of the limited opportunity for off-PORTS migration of contamination, current off-PORTS receptors are not likely to receive contamination exposure from future waste streams. Current on-PORTS receptors are well protected under existing DOE policies.

Because of the land use, there is some potential for terrestrial species to access the plant and future buildings or waste streams. However, the industrial plant is not a current suitable habitat for large populations of terrestrial species. There could be some threat to individual members of an ecological species on the plant, but impacts to entire populations are expected to be minimal because of the industrial nature of the plant.

6.4 THREAT TO HUMAN HEALTH AND THE ENVIRONMENT

The process buildings, complex facilities, and supporting facilities contain numerous radiological and chemical contaminants that are known carcinogens and/or toxicologically hazardous substances. Under the potential future scenarios where a trespasser, an industrial worker, a resident, or ecological receptor unknowingly comes in contact with this contamination, it is likely that the threat to human health and the environment would exceed EPA recommended levels. In addition, the degrading buildings and any resultant waste piles would be a physical threat.

6.5 NEED FOR ACTION

As the buildings degrade, piles of waste (RC-1) would form. Without an acceptable disposal outlet, these piles could cause an unacceptable threat to human health. Therefore, a solution is needed to provide a Site-wide, protective, regulatory-compliant waste disposal option.

HIGHLIGHTS OF SECTION 6

- D&D waste volume generated under the DFF&O (RC-1) to be considered is 1.47 million cy.
- Up to an estimated 710,000 cy of non-D&D waste (RC-2) are also evaluated.
- Waste (RC-1, RC-2) contains radionuclides, VOCs, SVOCs, metals, and PCBs as well as ACM. Numerous waste types and waste streams are present.
- Contaminants from uncontrolled waste are unlikely to migrate off PORTS assuming existing groundwater extraction systems remain in place.
- Waste is a physical hazard if left in place and could contaminate media as a result of weathering.
- The most contaminated waste stream is likely to be the deposits in the process equipment. This stream could contaminate on-PORTS soil and groundwater to unacceptable levels, if not controlled.
- The potential for a future unacceptable threat to human health and the environment provides the basis for taking action to remedy the threat.
- The problem is well understood, and protective and compliant solutions can be developed.

NEXT STEP: SECTION 7 SETS THE FOUNDATIONAL ELEMENTS TO ALLOW THE DEVELOPMENT OF ALTERNATIVES

7. PRELIMINARY IDENTIFICATION AND SCREENING OF WASTE DISPOSITION ALTERNATIVES

7.1 INTRODUCTION

Once the problem statement has been identified, potential solutions are developed. The intent of Section 7 is to provide the foundation for developing solutions. This section does not develop the alternatives, but it identifies all of the considerations that will be factored into the alternative development in Section 8. First, regulations that need to be considered in developing alternative solutions are provided in Section 7.2. Section 7.3 then takes those requirements, considers other regulatory issues, and assesses the level of protection the alternatives must meet, thereby developing the objectives of the remediation effort – RAOs. The last element of the foundation for alternative development is to identify potential technologies to be considered in the development of alternatives. This section, Section 7.4, is structured in accordance with CERCLA guidance to describe GRAs and technology types available, provide a preliminary screening of technology types and process options, and then evaluate and identify representative process options to use to describe and evaluate alternatives. Development of the remedial alternatives then occurs in Section 8 by using the results in this section. Section 7 concludes with a presentation of potential WAC for the representative disposal locations under consideration (Section 7.5).

7.2 CHEMICAL- AND LOCATION-SPECIFIC ARARS/TBCS

To develop objectives and goals of remediation and to develop alternatives, the requirements of federal and state regulations that apply or are relevant and appropriate (called ARARs) to the problem at hand must be identified and understood. Entirely on-Site remedial actions are required to attain ARARs, unless specific ARARs are waived in accordance with CERCLA. The ARARs include only federal, state, and local environmental or facility siting laws/regulations; they do not include occupational safety or worker radiation protection requirements. Additionally, per the DFF&O and 40 *CFR* 300.400(g)(3), substantive requirements of other advisories, criteria, or guidance that are not ARARs are to be considered in determining remedies (TBC guidance). ARARs and TBCs are identified for the waste disposition remedial action that includes both on-Site waste disposal and off-Site waste disposal.

Section V, General Provisions, paragraph 9.a of the DFF&O provides that portions of response actions "conducted entirely on site pursuant to Work Plans or plans concurred with or approved by Ohio EPA under these Orders can also be, at Respondent's discretion, conducted pursuant" to Section 121(e)(1) of CERCLA, 42 *United States Code* Section 9621. Section 121(e)(1) specifically provides that no federal, state, or local permit shall be required for the portion of any removal or remedial action conducted entirely as an on-Site response action. In addition to permits, EPA has interpreted this section broadly to cover all administrative provisions from other laws, such as recordkeeping, consultation, and reporting requirements. In other words, administrative requirements do not apply to response actions that occur entirely on Site (EPA 1998). Therefore, only the substantive requirements in the ARARs and TBCs in Appendix F apply to response actions occurring entirely on Site. Those portions of the remedial action that occur off Site are subject to both the substantive and administrative requirements of applicable laws.

ARARs/TBCs are typically divided into three groups: (1) chemical-specific, (2) location-specific, and (3) action-specific. Pursuant to EPA guidance, there are no ARARs/TBCs for a no-action alternative (EPA 1991). No chemical-specific ARARs/TBCs were identified for the two action alternatives. A brief description of key location-specific ARARs/TBCs follows. A brief discussion of action-specific ARARs/TBCs is provided in Section 8.2 along with any justification for a waiver. A detailed discussion of all ARARs and TBCs specific to this response action is included in Appendix F to this RI/FS report.

7.2.1 Chemical-specific ARARs/TBCs

Chemical-specific ARARs/TBCs provide health- or risk-based concentration limits or discharge limitations in various environmental media (surface water, groundwater, soil, and air) for specific hazardous substances, pollutants, or contaminants. Because the Site-wide Waste Disposition Evaluation Project is not addressing cleanup decisions for contaminated environmental media, no chemical-specific ARARs and TBCs were identified.

7.2.2 Location-specific ARARs/TBCs

Location-specific requirements establish restrictions on permissible concentrations of hazardous substances or establish requirements for how activities will be conducted because they may occur in special locations (e.g., wetlands, floodplains, critical habitats, streams). Location-specific ARARs and TBCs were identified for the protection of wetlands, aquatic resources, endangered species, and cultural resources at candidate locations under the on-Site disposal alternative.

A number of location-specific siting restrictions and considerations were also identified. They would impact where and how an on-Site disposal facility could be constructed as part of an on-Site waste disposal action. These requirements, which are not triggered unless an action is taken to construct an on-Site disposal facility, are addressed in detail as action-specific ARARs/TBCs in Appendix F.

7.2.2.1 Floodplains and wetlands

Wetlands, floodplains, and aquatic resources are present at PORTS. The proposed potential OSDC location is not within a 100- or 500-year floodplain, and none of the planned activities are expected to impact floodplain areas. Six wetlands, including jurisdictional wetlands, have been identified that may be affected by construction activities (Study Area D); the acreages for these wetlands are given in Table D.6 in Appendix D. These wetland and aquatic resources would be appropriately protected or mitigated in accordance with the location-specific ARARs and TBCs identified in Table F.1, as appropriate. DOE is evaluating impacts of the proposed actions for potential adverse effects to wetlands and is developing potential mitigation measures for any adverse effects where avoidance or minimization is not practicable.

7.2.2.2 Threatened and endangered species

A PORTS-wide T&E species survey, which was completed in 1996, identified a number of potentially suitable habitats at PORTS for federal- and State of Ohio-listed T&E species, although only one state-listed plant species was actually observed (LMES 1997). The locations of the identified habitats and plant species were thought to be well outside of the areas identified under the on-Site waste disposal remedial alternative action. A more recent study (Ohio University 2012), however, noted federal-listed Indiana Bat habitat as being more widespread than previously mapped, including the mature forest areas in Study Area D.

7.2.2.3 Cultural resources and mitigation of impacts

Cultural resources include any prehistoric or historic district, site, building, structure, or object resulting from, or modified by, human activity. Under federal regulations (36 *CFR* 800), federal agencies must assess the impacts their actions have on historic properties and, if appropriate, avoid, minimize, or mitigate adverse effects. Historic properties are cultural resources listed in, or eligible for listing in, the NRHP because of their significance and integrity.

Construction of a potential OSDC would have direct effects on areas of PORTS outside of Perimeter Road. Two areas are being evaluated as potential locations for a potential OSDC. OSDC Study Area D is located in the northeast corner of PORTS (see Figure 3.12). OSDC Study Area C is located on the eastern edge of PORTS, closer to the southern DOE boundary. OSDC Study Area D has been identified as the representative location for purposes of the RI/FS. The project area for this proposed action includes areas throughout PORTS because of the potential for the construction of haul roads or borrow areas for fill. Based on the results of the architectural inventory and the Phase I and II archaeological surveys of the DOE reservation, a number of potential historic properties have been identified.

As a result of the surveys of the OSDC Study Areas, three sites were identified in Archaeological Study Area 2 for further investigation. No sites were identified in Archaeological Study Areas 1 and 3. Each of the three sites required further study (a Phase II investigation) to determine eligibility for the NRHP. Two of the sites have been recommended as eligible for listing on the NRHP as a result of the Phase II investigation, and if they would be adversely affected by siting of a potential OSDC, potential mitigation measures would be developed. DOE is evaluating impacts of the proposed actions for potential adverse effects to historic properties and is developing potential mitigation measures for any adverse effects where avoidance or minimization is not practicable.

DOE is working closely with Native American Tribes, OHPO, the Advisory Council on Historic Preservation (ACHP), and the public with an interest in historic preservation to identify appropriate mitigation measures to comprehensively address D&D as well as waste disposition activities at the Site. In the last several years, multiple meetings were held with the Site-specific Advisory Board (SSAB) and the public, and included updates on NHPA activities and opportunities for interested parties to provide input to DOE. Interaction with Native American Tribes, OHPO, ACHP, SSAB, and the interested public will continue to identify and refine potential mitigation measures for PORTS.

7.3 RAOS

RAOs are developed during the RI/FS process to set goals that ensure the protection of human health and the environment. The RAOs established for the waste disposition RI/FS are the following:

- Prevent uncontrolled storage or staging of waste piles. Waste generated from demolishing structures at PORTS (RC-1) or from the natural degradation of the structures must be disposed in compliance with the substantive provisions of the ARARs/TBCs in Appendix F.

- Implement the final disposition of wastes (RC-1) in a manner that ensures human and ecological receptors are protected from radiological and nonradiological contaminants. For an on-Site alternative, the RAO is satisfied by developing WAC that eliminate human exposures to contaminants that exceed a human health risk of 1×10^{-5} cumulative excess lifetime cancer risk (ELCR) or a cumulative hazard index (HI) of 1. For an off-Site alternative, the RAO is satisfied by meeting the representative off-Site facility’s approved WAC.

- Control the migration of contaminants from the wastes (RC-1) that could cause adverse groundwater and surface water impacts. For an on-Site alternative, the RAO is satisfied through the development of WAC that prevent the migration of contaminants that would cause an exceedance of ambient water quality criteria in surface water and MCLs in groundwater (at the waste boundary) for a performance period of 1,000 years. For an off-Site alternative, the RAO is satisfied by meeting the representative off-Site facility’s approved WAC.

For both the on-Site and off-Site alternatives, WAC are specifications and conditions under which waste can be accepted for disposal, and they include regulatory standards, facility design information, and risk-based analyses performed over an approved facility performance period. WAC for all waste storage, treatment, or disposal facilities, operations, and activities specify, at a minimum, the following:

(a) Allowable activities and/or concentrations of specific contaminants

(b) Acceptable waste form and/or container requirements that ensure the chemical and physical stability of waste under conditions that might be encountered during transportation, storage, treatment, or disposal

(c) Restrictions or prohibitions on waste, materials, or containers that may adversely affect waste handlers or compromise facility or waste container performance.

7.4 INITIAL IDENTIFICATION AND PRELIMINARY SCREENING OF WASTE DISPOSITION ALTERNATIVES

The GRAs, remedial technologies, and process options considered for alternative development in this FS are identified in this section. These technologies and process options were identified from similar efforts at the Fernald Plant and the Oak Ridge Reservation where site-wide disposal decisions have been implemented. Although these FSs were conducted in the 1990s, there have not been significant changes in the technologies associated with transportation and disposal since that time. The scope of the evaluation would be from transporting waste, generated under separate evaluations, through ultimate disposal of the waste.

Most treatment of waste is addressed in the documents with actions that generate waste (such as the process building RI/FS). These generating projects are responsible for ensuring that the waste created meets transportation and disposal requirements. Centralized treatment process options that prepare waste for disposal or reduce the volume of waste are, however, considered in this waste disposition RI/FS evaluation. Technologies for demolishing buildings, packaging waste, removing environmental media, or treating environmental media are not included in this technology screening.

The technologies and process options are first screened for technical implementability at PORTS. Technologies and process options retained after this initial screening are then evaluated with respect to effectiveness, implementability, and cost. Those that best represent a GRA or technology are then used to describe the waste disposition remedial alternatives in the next section. The criteria are described as follows:

- Effectiveness—This criterion is the primary one for consideration of process options. This evaluation focuses on the potential effectiveness of the process option in handling the volumes of waste and meeting the RAOs, as well as the potential impacts to human health and the environment during implementation. The reliability of the process options with respect to the contaminants and conditions at the site should also be a factor in the evaluation.

- Implementability—Implementability is the measure of technical feasibility, including constructability and maintainability; administrative feasibility to construct, operate, and maintain the remedial action alternative; and the availability of services and materials to implement the alternative. This includes the availability and capacity of treatment, storage, and disposal facilities; equipment; design; and operating/support personnel.

- Cost—Cost plays a limited role in the screening of process options. Relative capital and S&M costs are used rather than more detailed cost estimates. At this stage, the cost analysis is made on the basis of engineering judgment using a high, medium, or low comparative cost scale. Any supporting cost estimates are only used to screen process options and are not part of any alternative evaluation in subsequent sections.

7.4.1 Identification of General Response Actions

The GRAs describe actions, alone or in combination, that would satisfy the RAOs. The following GRAs apply to the development of waste disposition alternatives for the D&D waste (RC-1):

- No Action
- Institutional Controls
- Centralized Treatment
- On-Site Disposal
- Off-Site Disposal
- Recycling and/or Reuse
- Waste Transportation.

The term GRA refers to a general category of measures that produce similar results when implemented. The following list of GRAs, which would achieve the RAOs, has been generated for each medium of concern:

- No Action – In the FS, the no-action scenario is considered to be the baseline to which other remedial alternatives are compared and is retained throughout the FS process. This is required by the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), regardless of its effectiveness in achieving the RAOs.

- Institutional Controls – These include various access restrictions and/or land-use restrictions to reduce or eliminate exposure pathways related to direct human contact with contaminated media.

- Centralized Treatment – This includes physical, chemical, and thermal measures that would reduce the toxicity, mobility, or volume of a waste stream by altering its physical or chemical properties, implemented as a centralized system. A centralized treatment system is defined as one that is used by multiple projects or decisions prior to disposal or recycling and/or reuse. Centralized treatment options are included in this waste disposition RI/FS. In addition, if any material is produced from the operation of a potential OSDC that requires treatment, centralized treatment may be used to allow that material to be disposed in a potential OSDC. Treatment of contaminated leachate, decontamination water, or storm flow from cell operations or treatment of contaminated fill material are two examples of such material.

- On-Site Disposal – This includes placement of D&D waste (RC-1) in an existing, if available, or new on-Site permanent engineered disposal facility, which restricts contaminant migration and mitigates exposure routes. This technology controls exposure pathways to human or ecological receptors associated with a contaminated material and controls migration of the contaminants into the environment. Also included are various options for providing fill for operating a new on-Site disposal facility.

- Off-Site Disposal – This GRA includes placement of D&D waste (RC-1) in an existing or new off-Site permanent engineered disposal facility, also restricting contaminant migration and exposure off of PORTS.

- Recycling and/or Reuse – This GRA includes the beneficial reuse of a material either directly or after decontamination, or by recycling its construction materials.

- Waste Transportation – This GRA includes technologies that are used to transport D&D waste (RC-1) to the selected disposal location, as well as any additional packaging that may be needed to control releases of contamination during the transportation effort.

7.4.2 Identification and Screening of Remedial Technology Types and Process Options

The next step in the alternative development process is to identify and screen process options for each technology type. A process option refers to a specific process within each technology type. The result of this section will be a list of process options that will be used to describe and evaluate alternatives. As specified in EPA RI/FS guidance (EPA 1988), two steps are taken to reduce the number of process options associated with each GRA that undergoes detailed analysis. In the initial screening step, each process option is evaluated to determine whether it is technically applicable to the remediation location(s). To determine technical applicability, the capabilities of each process option are evaluated against site conditions, and the expected contaminant types and concentrations. Process options that are not technically applicable to the site or waste are eliminated from future consideration. Process options that are clearly administratively impractical are also eliminated. In the second screening step (Section 7.4.3), the retained process options are evaluated more closely to select one or more process options for each technology type. The process option that best satisfies the evaluation criteria is identified as the representative process option for assembly with other process options and used to provide a detailed description and evaluation of alternatives. Selection of representative process options for the description of alternatives does not eliminate other process options from future consideration.

The technology types and process options identified for each GRA and the results from process options screening for technical applicability are depicted in Figure 7.1. The “Screening Comments” column in Figure 7.1 identifies the retained process options, based on technical applicability to site conditions and/or waste types, and describes the process options that were screened out. Those process options that are applicable are described below. Process options are identified for both primary waste streams (those generated directly as a result of potential demolition or cleanup activities) that were identified earlier as the scope of this decision and for secondary waste streams from implementing a disposal action.

Secondary waste streams can originate from activities to decontaminate, treat, transport, or dispose of the primary waste streams. They typically consist of PPE and wastewaters.

7.4.2.1 No Action

Under the No-Action GRA, no coordinated effort would be implemented to manage future generated waste. The no-action process option establishes a baseline for comparison with other GRAs.

7.4.2.2 Institutional controls

Access and land-use restrictions, as well as maintenance and monitoring, are institutional controls that could reduce the potential for exposure to waste placed in a potential on-Site disposal facility. These technologies and the associated process options are considered to be technically implementable and would be used in conjunction with on-Site waste disposal process options.

Access and Use Restrictions

Physical Barriers/Security. Fences, signs, buffer zones, or other barriers can be installed around potential waste disposal and support areas to limit access. Security measures (e.g., guards, surveillance) can be used to limit access to waste disposal areas.

Covenants and Deed Restrictions. Environmental restrictions on a property’s deed can be used to restrict use of real property to ensure protectiveness of a selected remedial action.

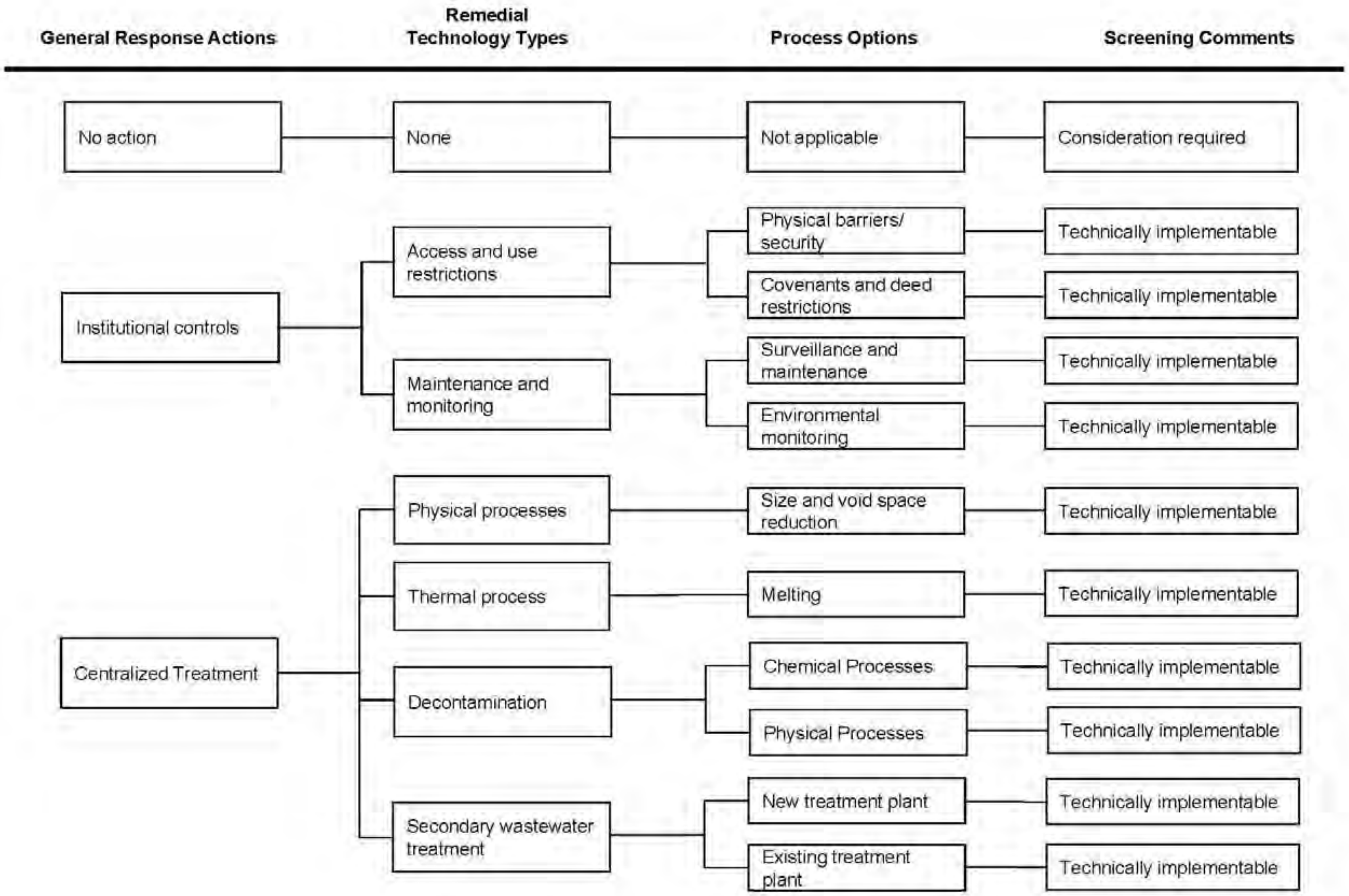

Figure 7.1. Screening of Remedial Technology Types and Process Options for PORTS

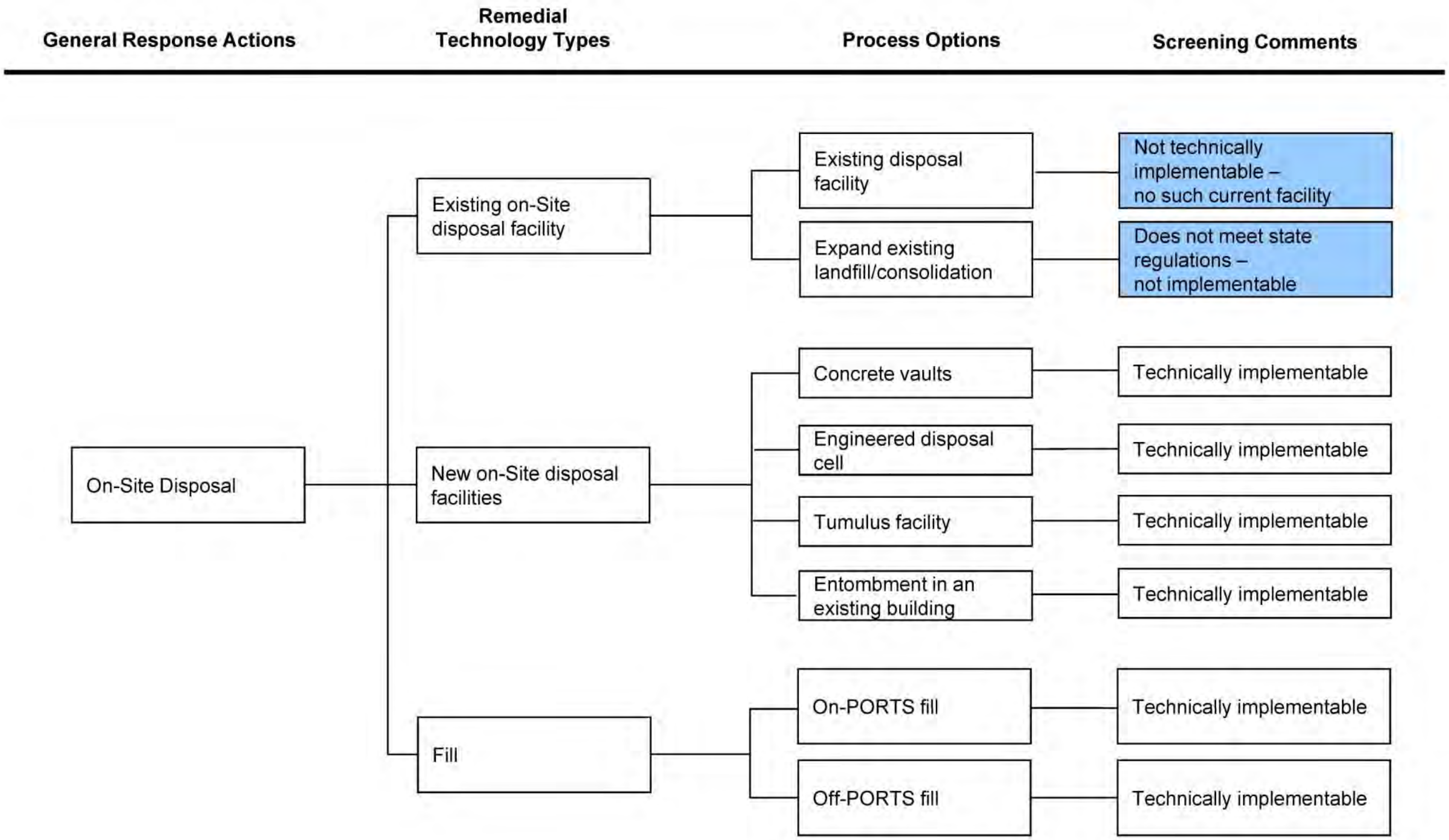

Figure 7.1. Screening of Remedial Technology Types and Process Options for PORTS (Continued)

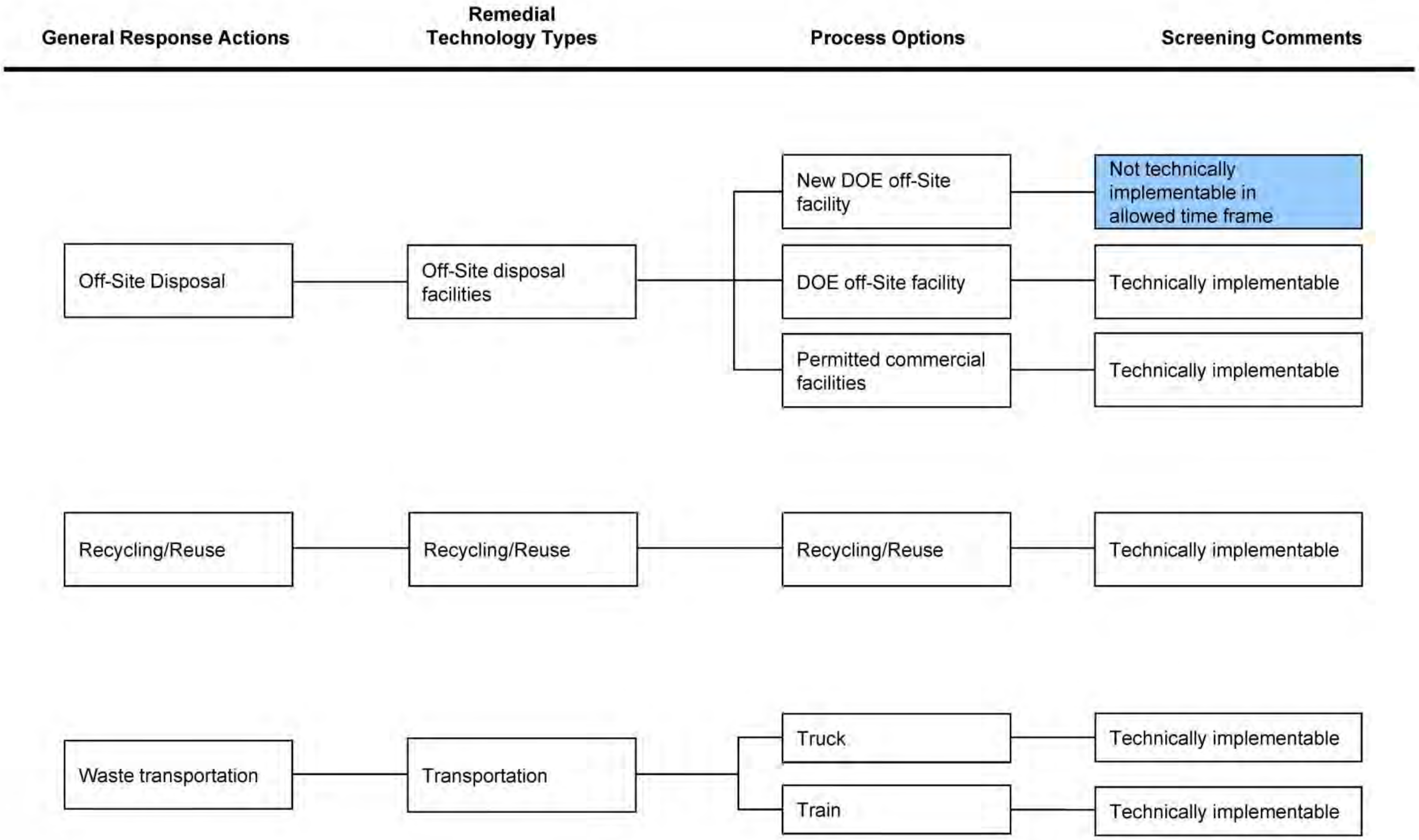

Figure 7.1. Screening of Remedial Technology Types and Process Options for PORTS (Continued)

Maintenance and Monitoring

S&M. Scheduled and special inspections of facilities and implementation of preventive or corrective measures can be used to ensure the proper operation of engineered components.

Environmental Monitoring. Sampling and analysis of environmental media before, during, and after construction of a potential on-Site waste disposal facility could be used to predict and verify the effectiveness of engineering components. Environmental monitoring could also be used to ensure human and ecological receptors are protected.

7.4.2.3 Centralized treatment

The technologies considered here are for evaluating the benefits of a centralized treatment system to address size reduction or subsidence at or near an on-Site disposal location and to support recycle and/or reuse. The technologies evaluated include physical processes, thermal processes, and decontamination. Physical processes are used to reduce the size of material, either to reduce void space or to meet other physical WAC requirements and can be done through compaction, shredding, cutting, or crushing.

Thermal processes such as melting and other decontamination processes (both physical and chemical) could be used to support future recycle and/or reuse opportunities. Construction of a new wastewater treatment plant or use of existing wastewater treatment plants to handle generated secondary wastewaters is also included.

Physical Processes

Size and Void Space Reduction. Large quantities of bulk materials, including building structural components, rebar, shielded and unshielded wire, and tanks, etc., are anticipated to be generated under any or all of the D&D decisions. There are many options for reducing the size of materials brought to a disposal or a recycling facility. Some of the larger systems (compaction, shredding, and crushing) have been evaluated in Appendix G. Compaction and shredding are useful for metals or wood waste while crushing is more often used on concrete. To implement these at a central location would require considerable design, construction, and contamination control efforts.

Macroencapsulation can also be considered to fill voids at a potential OSDC. In this case, an inert material is poured around the large pieces of equipment, providing protection against subsidence from internal void space collapsing and, in some cases, providing additional protection against contaminant leaching.

The physical processes most likely to be used include shearing with heavy equipment and manual cutting. These operations can be conducted at a centralized staging area near or on a potential OSDC or elsewhere on PORTS, as appropriate. However, to avoid double handling, a centralized size reduction operation near the disposal location is considered in this RI/FS.

Thermal Process

Melting. Thermal treatment is a unique and important treatment option to consider for PORTS D&D waste because it can reduce the toxicity and mobility of contaminants in the waste, as well as reducing the volume of waste. Any slag containing the concentrated contaminants would be packaged for on-Site or off-Site disposal, depending on the characteristics of the slag and its ability to meet the WAC. If appropriately implemented, melting technologies can decontaminate metals and allow recycle and/or reuse of the uncontaminated portion of the metals. A thermal technology processing operation could be installed in an existing or new facility at PORTS or could be undertaken at an existing off-Site facility.

Melting can create ingots for controlled recycle and/or reuse by removing contaminants through heating or slagging of the molten metal. Multiple technologies exist, including conventional technologies and state-of-the-art technologies, such as microwave or plasma heating. Conventional technologies include an electronic arc furnace and an induction furnace. Preliminary review indicates that an induction furnace is preferred for several reasons, including its ability to be cold started, improving overall operational efficiency and better control of radioactivity. Microwave and plasma heating technologies show promise, but their use is not widespread.

Decontamination
Chemical processes. Chemical decontamination processes remove surface level contamination through a chemical reaction between the contaminated object, or surface, and the decontamination solution. More aggressive decontamination solutions can penetrate deeper into the contaminated surface. The spent decontamination solution can be recycled for additional use or treated for disposal. Examples of chemical decontamination techniques include acid etching and washing with surfactants. This process option is potentially applicable to various materials, including metal and concrete materials.

Physical processes. Physical decontamination processes use force, or suction, to remove contaminated material deposits and surface contamination. Application techniques vary in aggressiveness from surface cleaning to surface removal. The contaminated residues such as dust, wipes, and blast media from removal require treatment and/or disposal. Examples of physical decontamination techniques include using needle guns, scabbling, dusting/vacuuming/wiping, and abrasive blasting. Primarily, this process option is potentially applicable to metal and concrete materials.

Secondary Wastewater Treatment
New Treatment Plant. A new wastewater treatment plant would be combined with disposal on Site to treat contaminated water generated during landfill operations. Potential sources of contaminated water include leachate, decontamination water, or contaminated storm water. Wastewater treatment would not be needed for off-Site disposal because such treatment would be the responsibility of the receiving facility. Under this process option, a new treatment plant would be built near a new disposal cell. Because the plant would be built and operated entirely on-Site in accordance with paragraph 9.a of the DFF&O, no NPDES permit would be required for discharge from the treatment facility. However, the substantive requirements of the Clean Water Act and other ARARs would be met. Wastewater would most likely be piped to a new treatment plant but could be trucked.

Existing Treatment Plant. As with a new treatment plant, this process option would be combined with disposal on Site. Under this process option, an existing wastewater treatment plant would be used to treat the contaminated landfill water from a potential disposal facility. Upgrades to the plant treatment systems or expansions for capacity may be needed. If upgrades are needed, DOE will obtain the applicable authorization for the upgrade. Which plant would be used would depend on the location of a potential OSDC. Wastewater could be piped directly or trucked to the treatment plant.

7.4.2.4 On-Site disposal

Disposal technologies include existing on-Site facilities, new on-Site facilities, and fill in support of OSDC waste placement (fill) process options. To be applicable, a facility must be able to accept the candidate waste streams consisting of LLW, RCRA waste, TSCA waste, mixed waste, and/or noncontaminated waste. Disposal locations were screened out if they could not accept some or all of these wastes or if they were not acceptable for other reasons. As shown in Figure 7.1, existing on-Site disposal facilities were screened out as they do not present a compliant and effective disposal configuration.

New On-Site Disposal Facilities

Concrete Vaults. Concrete vaults are large, reinforced-concrete, multi-celled structures constructed above or below grade. The floors, ceilings, and exterior walls of concrete vaults may be up to 2 ft thick. Concrete vaults are typically used to dispose of containerized LLW with higher activity. Once the vault cells are filled with waste containers, the void spaces are filled with sand or grout, and the vault is covered with a concrete lid. Vaults can be designed for subsequent waste removal. Although vaults are structurally stable, concrete is more permeable than clay. As a result, disposal of leachable material within a vault would require lining and capping it with a low-permeability clay or similar material for long-term containment of the waste. Low-permeability liners and caps can be used in conjunction with vaults for disposal of LLW, RCRA waste, TSCA waste, and mixed waste. Below-grade concrete vaults were not considered because of the shallow groundwater at PORTS, where such a facility would likely be sited. However, above-grade concrete vaults are technically implementable and are retained for further evaluation. To meet the required regulations, the above-grade concrete vaults would have to be combined with a liner and cover similar to that for an engineered disposal cell.

Engineered Disposal Cell. An engineered disposal cell typically consists of a multilayer liner beneath the waste, lined embankments, and a multi-layer final cover to completely encapsulate the waste. Natural materials are used extensively in cell design, and they can isolate wastes for long periods. Engineered cells are constructed to satisfy design requirements appropriate to the type of waste they would contain. The waste is placed on the bottom clay layer, which is designed to impede the percolation of any free liquids from the cell into the ground. The waste is then covered with a cap that includes an impermeable layer, a drainage layer, and a vegetative layer designed to reduce infiltration of water into the cell. The cell would include a leachate collection system to capture and remove any liquids that migrate through the cover or from the waste. An engineered disposal cell can be constructed above or below grade.

Tumulus Facility. A tumulus facility (also called entombment on a new concrete pad) consists of an at-grade concrete pad, stabilized waste, and a cover. It is typically used to contain LLW. Concrete containers of stabilized waste are stacked on the pad. The concrete pad can incorporate a leachate collection system, and an impermeable liner may be added to contain other types of waste. Once the stabilized waste containers are placed on the pad, a multi-layer cap is placed over the stacked waste to limit the infiltration of water.

Entombment in an Existing Building. Either of the two largest process buildings (X-333 and X-330) could contain the anticipated waste volume. The process equipment within the selected building would be disconnected in-place and any openings would be sealed. The infrastructure (e.g., lighting, security, fire suppression, etc.) would remain in its current state during waste placement. The concrete floor and floor drains would be sealed, and underground piping/conduits would be disconnected and sealed. The remaining waste would be placed within the selected building on the first floor for entombment. The majority of the waste would be placed in containers for easy handling and safe placement within the building. Once all waste is in place, the building infrastructure systems would be disconnected, entrances/openings would be sealed, the building would be covered with soil, and the entombed building would be placed under long-term S&M. Repairs would be performed, as needed, on the soil cover to maintain its integrity.

Fill in Support of OSDC Waste Placement (Fill)

To mitigate subsidence of waste material placed in a disposal facility, a source of fill is needed to fill in void spaces of disposed waste (EC-2). Fill is always designated as having soil-like properties and therefore is categorized as EC-1. The amount of fill required depends on the amount of waste with void spaces (EC-2) disposed and the EC-1/EC-2 ratio required by a potential OSDC. Assumptions used in determining operational requirements of a potential OSDC in this document result in a need for 2 cy of fill for every cubic yard of waste with void spaces (EC-2) disposed. Depending on the volumes of fill required, a variety of process options and borrow locations may be used. Appendix H discusses several options for obtaining large quantities of fill to provide an appropriate EC-1/EC-2 ratio. A representative process option will be identified in Section 7.4.3.4. A summary of the information presented in Appendix H follows below.

Off-PORTS fill sources. Fill is readily available from off-PORTS borrow locations. For a relatively low cost, an outside vendor can deliver fill to the location needed. A large borrow site is associated with the Pike Sanitation Landfill operation, just 5 miles from the plant.

On-PORTS fill sources. There are several potential borrow locations at PORTS. Large volumes of fill are needed, which could result in using many potential borrow locations, some of which are clean and some of which may be contaminated. A large quantity of clean soil is anticipated to be generated during the construction of a potential OSDC. This material could be processed to reduce the size of large chunks of chert, making it appropriate for use as fill. Use of this material would avoid transportation costs associated with moving fill.

There is also a large quantity of contaminated soil (RC-2, RC-3, EC-1) at PORTS. To obtain contaminated fill for use at a potential OSDC, any clean overburden or caps would be removed first and set aside, and the contaminated material underneath used as fill. This approach would minimize the amount of clean fill that would be placed in a potential OSDC. If waste requiring fill (EC-2) is encountered during the fill excavation, additional fill would be needed to meet EC-1/EC-2 ratios required for placement in the potential OSDC. For instance, if 100,000 cy of waste with void spaces (EC-2) requiring disposal were encountered, an additional 200,000 cy of fill material would be needed, over and above what is needed for the estimated D&D waste (RC-1, EC-2) volume evaluated for disposal.

7.4.2.5 Off-Site disposal

Off-Site Disposal Facilities

The evaluated off-Site disposal process options include existing LLW and mixed waste facilities, existing RCRA/TSCA facilities, and existing solid waste facilities. New disposal facilities that are appropriately permitted and licensed and become available during remedy design or implementation would also be considered.

DOE Off-Site Facility. The Nevada National Security Site (NNSS) is a federal waste disposal facility located 60 miles north of Las Vegas, Nevada. The NNSS LLW disposal facility is operated by DOE under its AEA authority. The NNSS can dispose of LLW, mixed waste, LLW/TSCA waste, classified waste, and NRC Class A/B/C waste. This disposal facility is configured to accept waste via truck but does not have direct rail access. However, combinations of rail and truck shipping can be used. Waste from PORTS has been disposed at this facility in the past.

Permitted Commercial Facilities. Energy*Solutions* has a commercial waste disposal facility in Clive, Utah. Wastes are disposed in an engineered disposal cell located in a western arid environment. The facility can treat waste for meeting LDRs and dispose of LLW and mixed waste (combinations of LLW, RCRA, and/or TSCA) that meet its WAC. The facility is configured to accept waste via truck or rail. Waste from PORTS has been disposed at this facility in the past. The Energy*Solutions* facility is operated under RCRA and LLW permits with the State of Utah.

Waste Control Specialists (WCS) is a commercial disposal facility located near Andrews, Texas. WCS is operated under RCRA and LLW permits with the State of Texas. This disposal facility can dispose of LDR-compliant hazardous waste and LLW. The facility is configured to accept waste via truck or rail.

Several RCRA- and TSCA-permitted commercial disposal facilities are available and may take portions of the PORTS waste, including:

- Waste Management, Inc. (WMI)-Emelle Division (formerly Chemical Waste Management, Inc.), Emelle, Alabama
- Rollins Environmental Services (RES), Deer Park, Texas
- United States Pollution Control, Inc. (USPCI), Clive, Utah.

All of these facilities are similar in the types of waste they receive for treatment and disposal and the services they offer. The primary difference between these facilities is the transportation distance, with the WMI-Emelle facility being the closest and the USPCI facility being the most distant. Waste disposal facilities in the western United States tend to have more favorable hydrogeologic and climatic conditions and lower local population densities than waste disposal facilities in the more humid South (such as Alabama).

The Pike Sanitation Landfill is a commercial disposal facility located in Piketon, Ohio. This facility can dispose of nonhazardous/nonradioactive solid waste, including asbestos. Waste from PORTS has been disposed at this facility in the past. There are other industrial or sanitary landfills in the area, such as the Jackson Landfill, with very similar operational requirements that could also be considered.

7.4.2.6 Recycling and/or reuse

DOE is committed to the recycle and/or reuse of materials from PORTS in compliance with ARARs. Recycle and/or reuse removes volumes of waste from the waste streams that need to be disposed. Recycle and/or reuse of material would decrease the waste volume to be disposed, and therefore either decrease the size of the disposal cell for the on-Site option or decrease the volume of material to be sent off Site as waste. Typically, recycled clean scrap or metal is reused to create new metal items. Crushed concrete could be used in a potential OSDC as fill material around objects, for wet weather access roads, or as fill elsewhere on PORTS. Crushing concrete for use as fill in a potential OSDC would decrease the volume of waste to be placed, thereby decreasing the volume of clean fill needed to maintain the desired EC-1/EC-2 ratio. Recycling and/or reuse can be implemented on Site (crushing and reusing concrete), materials could be treated on Site (e.g., metal melted) and reused off Site, or materials could be treated and reused off Site. Preparation for individual waste stream recycling and/or reuse is addressed in the Process Buildings and Complex Facilities D&D Evaluation Project. Consideration of a centralized waste treatment system to prepare waste streams from multiple projects is included in this project.

7.4.2.7 Waste transportation

Transportation vehicles are used in conjunction with packaging (evaluated in the Process Buildings and Complex Facilities D&D Evaluation RI/FS) for relocation of waste to treatment or disposal facilities. Some transportation vehicles can be equipped to provide containment without additional packaging of the waste (such as gondolas and railcars). These technologies and the associated process options are considered to be technically implementable and would be used in conjunction with waste disposal process options.

Transportation

Truck. Truck transport is applicable to both local and long-distance waste transport. Trucks can transport bulk or containerized wastes. Waste being shipped off Site by rail has to be transferred from trucks to railcars at a truck-to-rail transfer facility. All off-Site disposal facilities are configured to receive waste directly via truck. A number of small containers such as lab packs, B-25 boxes, drums, and overpacks are designed to contain various waste forms (e.g., solid, granular, etc.) and types (e.g., LLW, RCRA, etc.). Small containers would be applicable to certain specific candidate waste streams. Small containers are typically disposed with the waste rather than emptied and reused.

Large containers include roll-off bins, Sea-Land containers, intermodal containers, and other containers with various weight and volume capacities, loading capabilities (top-, side-, or end-loaded), and handling characteristics. Large containers can be moved by forklift or crane and also can be winched onto a truck bed. Some truck-mounted containers can be unloaded directly by dumping from the truck, while other containers must be removed and unloaded with additional equipment. Large containers can usually be decontaminated and reused. Dedicated containers can be reused for similar waste streams with only external decontamination.

Train. Rail transport would be viable for long-distance waste transport. Rail transportation most often includes the use of gondola containers or intermodal/Sea-Land containers. A variety of waste forms and types can be loaded into the containers. Railcars can be loaded from trucks at a truck-to-rail transfer facility. PORTS has extensive railroad infrastructure. One-third of the approximately 17 miles of on-PORTS railroad infrastructure is in service and is being periodically used. The remaining two-thirds of the infrastructure is out of service and would need to be upgraded. The existing on-PORTS railroad infrastructure is connected to an active off-PORTS rail line near the northwest corner of PORTS. A small portion of the on-PORTS rail infrastructure is currently being used to load flatbed railcars with intermodal containers of radioactively contaminated waste and scrap metal for off-PORTS shipment and disposal (TPMC 2007). The Energy*Solutions* and WCS disposal facilities are configured to accept waste via rail.

7.4.3 Evaluation and Selection of Representative Process Options

EPA guidance (EPA 1988) and the DFF&O (Section 7.2 of the SOW for the RI/FS) discuss evaluating the effectiveness, implementability, and cost of each process option within the same technology type that passed the initial screening step to identify representative process options. Based on this evaluation, the process option that best satisfies the criteria of effectiveness, implementability, and cost for each technology group is identified as the representative process option. The representative process options identified from this evaluation are indicated by shading in Table 7.1. These process options "represent" other process options only in this FS evaluation. Future evaluation may result in the use of other, comparable process options, including options that are not shaded in this table. Because a process option is not shaded in this table, it does not mean that it could not be used.

7.4.3.1 No Action

Effectiveness. This process option would not address long-term waste disposal concerns. Allowing waste to accumulate at PORTS would not be protective of human health or the environment.

Implementability. The no-action option is easily implementable.

Cost. No cost is associated with the no-action option.

Table 7.1. Evaluation and Selection of Representative Process Options for PORTS

General Response Action	Technology Type	Process Option	Effectiveness	Implementability	Cost	Status
No Action	None	No action	Response would not address waste storage/disposal concerns.	No implementation required.	None	Identified as the representative process option to provide baseline.
Institutional Controls	Access and use restrictions	Physical barriers/security	Effective for preventing access to waste as long as institutional controls are maintained. Not effective for controlling migration of contaminants off PORTS.	Readily implemented with available technology.	Low	Identified as representative process option.
		Covenants and deed restrictions	Effective for preventing human activities that may impact buried waste, as long as institutional controls are maintained. Not effective for controlling off-PORTS contaminant migration.	Readily implemented with no adverse impacts to workers or the public.	Low	Identified as representative process option.
	Maintenance and monitoring	Surveillance and maintenance	Effective for determining the performance and continued integrity of engineered systems and maintaining systems to ensure waste containment.	Readily implemented with personnel conducting inspections and maintenance.	Low	Identified as representative process option.
		Environmental monitoring	Effective for detecting contaminant migration because of changes in conditions, waste forms, and engineered features.	Equipment and personnel are readily available.	Low	Identified as representative process option.
Centralized Treatment	Physical processes	Size and void reduction	Wide variety of effectiveness. Large equipment such as compactors, shredders, and concrete crushers only effective on portion of waste. Heavy equipment and manual cutting less specific and may be more effective.	Large equipment such as compactors, shredders, and concrete crushers difficult to implement (major design, construction, contamination control needed). Heavy equipment and manual cutting easy to implement. Macroencapsulation very slow to implement.	Low to high	Identified as the representative process option. Heavy equipment and cutting used to represent a centralized physical treatment process due to wider application and fewer implementability issues.
	Thermal processes	Melting	Effective at reducing waste volume and decontamination. Only useful for a portion of the waste streams.	Even more complex than other volume/size reduction process options.	Very high	Not identified as the representative process option at this time. May be reconsidered in the future.

Table 7.1. Evaluation and Selection of Representative Process Options for PORTS (Continued)

General Response Action	Technology Type	Process Option	Effectiveness	Implementability	Cost	Status
Centralized Treatment (continued)	Decontamination	Chemical processes	Effective for removing organic, inorganic, PCB, and radiological contamination, primarily from metal and concrete.	May require design and construction of reaction vessels. Could generate large quantities of secondary waste requiring treatment.	Moderate to high	Identified as the representative process option.
		Physical processes	Effective at removing loosely bound contamination from concrete/metal surfaces. More aggressive techniques also effective at removing uranium material deposits.	Experienced personnel and equipment are available. Uranium deposit removal would be labor intensive.	Moderate	Identified as the representative process option.
	Secondary waste water treatment	New treatment plant	Effective at removing contamination from contact water and leachate from a potential OSDC.	Cap and design as needed. Standard technologies would be used and are available.	Moderate	Identified as the representative process option.
		Existing treatment plant	Effective at removing contamination from contact water and leachate from a potential OSDC.	Would need to retrofit existing small, specialized plants. More difficult to implement.	Moderate	Not identified as the representative process option due to effort in retrofitting a plant.
On-Site Disposal	New on-Site disposal facilities	Concrete vaults	Effective for short half-life radionuclides in containers. Concrete subject to cracking. Additional liners required to control contaminant migration. Long-term maintenance required.	Straightforward to implement. Limited flexibility in accepting varying waste forms or modifying design capacity. Large land area needed. Significant administrative requirements for siting and approval.	Moderate	Not identified as the representative process option. Less protective than engineered disposal cell.
		Engineered disposal cell	Effective for isolating wastes from the environment. Natural materials, such as clay, in liners and caps increase longevity of the facility. Long-term maintenance required.	Straightforward to implement. Most flexible for greater or lesser eventual volumes. Construction and operations relatively easy. Significant administrative requirements for siting and approval.	Moderate	Identified as the representative process option.
		Tumulus facility (entombment on a new concrete pad)	Effective for isolating short-lived radionuclides in containers. Concrete subject to cracking. Additional liners required to control contaminant migration. Long-term maintenance required.	Technically implementable. Modular construction allows expansion. Operations moderately complex. Large land area needed.	Moderate	Not identified as the representative process option. Less protective than engineered disposal cell.

Table 7.1. Evaluation and Selection of Representative Process Options for PORTS (Continued)

General Response Action	Technology Type	Process Option	Effectiveness	Implementability	Cost	Status
On-Site Disposal (continued)	New on-Site disposal facilities (continued)	Entombment in existing building	Not expected to be effective for long-term disposal. No measures in place to control contaminant migration. Floor would fail, allowing contaminant migration.	Extremely difficult to implement. Small footprint requires extra height. Difficult to place waste.	Moderate	Not identified as the representative process option because of concerns with contaminant migration and implementation difficulties.
	Fill	Off-PORTS fill	Effective in procuring sufficient fill to meet large demands.	Easiest process option. Only need to direct truck drivers to location fill is needed.	Low	Not identified as the representative process option.
		On-PORTS fill	Should provide sufficient fill effectively.	More effort needed to either discover and mine new borrow locations, to process soil from potential OSDC construction, or to excavate contaminated fill.	Low/ Moderate (low if clean, moderate if contaminated)	Identified as the representative process option.
Off-Site Disposal	Off-Site disposal	DOE off-Site facility	Permitted facility in an arid environment (near Las Vegas, Nevada), well away from population centers, and effective at isolating wastes. Waste is removed from PORTS. No long-term potential PORTS exposure concerns or maintenance requirements.	Readily implementable. PORTS is currently shipping waste there. Accepts LLW via truck. Administrative concerns regarding interstate waste shipment.	Low to Moderate	NNSS identified as representative off-Site LLW and MLLW disposal option.
		Permitted commercial facilities	Permitted facilities, some in an arid environment, well away from population centers, and effective at isolating wastes. Source term is removed from PORTS. No long-term potential PORTS exposure concerns or maintenance requirements.	Readily implementable. Accepts wide variety of wastes, including LLW, mixed, and industrial.	Low to high	Identified as representative process option. Energy*Solutions* is used for purposes of alternative analysis for LLW, MLLW and Pike Sanitation Landfill is similarly used for construction debris.
Recycle and/or Reuse	Recycle and/or reuse	Recycle and/or reuse	Effective at reducing volume requiring disposal.	Readily implementable. Already recycling/reusing certain materials from PORTS.	Varies. Generally low	Identified as the representative process option.

Table 7.1. Evaluation and Selection of Representative Process Options for PORTS (Continued)

General Response Action	Technology Type	Process Option	Effectiveness	Implementability	Cost	Status
Waste Transportation	Transportation	Truck	Effective for safely transporting wastes over long distances. Wastes can be shipped portal-to-portal without additional waste handling.	Readily available and commonly used for waste transportation. Greatest flexibility in travel routes and scheduling.	Moderate	Identified as the representative process option for transport of construction debris and LLW off PORTS.
		Train	Effective for transporting wastes over long distances. Because some waste would be initially loaded on trucks at the point of origin, rail transport may require double handling of certain waste at the truck-to-rail transfer facility at PORTS and at the disposal facility.	Readily available and commonly used for waste transportation. Less flexibility in travel routes and scheduling. Fewer disposal facilities configured to receive rail shipments.	Moderate	Identified as the representative process option for transport of LLW and mixed waste off PORTS.

Note:
Representative process options are shaded.

DOE = U.S. Department of Energy
LLW = low-level (radioactive) waste
MLLW = mixed LLW
NNSS = Nevada National Security Site
OSDC = on-Site disposal cell
PCB = polychlorinated biphenyl
PORTS = Portsmouth Gaseous Diffusion Plant

7.4.3.2 Institutional controls

Access and land-use restrictions, as well as maintenance and monitoring, are institutional controls that could reduce the potential for exposure to waste placed in an on-Site disposal facility. These technologies and the associated process options are considered to be technically implementable and would be used in conjunction with on-Site waste disposal process options.

Access and Use Restrictions—Physical Barriers, Security, Covenants, and Deed Restrictions
Effectiveness. Physical barriers (such as fences) and security forces would be used around any construction operations or any long-term on-Site disposal facilities. These physical controls discourage visitors and unauthorized personnel from coming in contact with contamination during construction activities or from damaging a closed on-Site landfill. Administrative controls such as covenants and deed restrictions prevent inadvertent reuse of areas of the Site with long-term unacceptable risks to future users. These covenants or restrictions would prevent the installation of drinking water wells and construction activities on, or near, any on-Site disposal facility.

Implementability. All access and use restrictions are readily implementable. The government has used these tools at all government facilities, and use of these process options represents a continuation of existing conditions.

Cost. All of the process options associated with access and use restrictions are fairly low cost. Long-term costs are associated with certain elements such as physical barriers and security because of the need to have these process options in place as long as any unacceptable risk remains.

Identification of Representative Process Options. All access and use restrictions are identified as representative process options. As opposed to one selected over another, depending on the classified nature of an on-Site disposal facility, any or all of the institutional control process options could be used together to provide the level of protection needed.

Maintenance and Monitoring—S&M and Environmental Monitoring
Effectiveness. Surveillance can effectively evaluate the integrity of engineered systems, and maintenance can ensure integrity for the duration of active institutional controls. Environmental monitoring is effective for detecting contaminant migration and assessing the reliability of containment and engineering systems. Environmental monitoring can include monitoring of leachate, surface water, or groundwater. Monitoring itself does not protect the environment because it cannot control the spread of contamination. However, frequent and early detection of problems does allow effective engineered solutions to be put in place to control unexpected releases, thereby contributing to protection of the environment. Combining S&M and monitoring can protect the environment.

Implementability. S&M and environmental monitoring are readily implemented with current technologies. New monitoring locations would need to be placed for any new on-Site disposal facility. Minimal administrative complexities are envisioned for monitoring well installation or identification of surface water monitoring locations.

Cost. All of the process options associated with maintenance and monitoring are fairly low cost. There are long-term costs because of the need to have these process options in place as long as any unacceptable risk remains.

Identification of Representative Process Options for Institutional Controls. The S&M and environmental monitoring process options are identified as representative process options to be combined with on-Site disposal or on-Site treatment options.

7.4.3.3 Centralized treatment

Treatment is under consideration as a precursor to recycling and/or reuse or to treat waste generated by operating a potential OSDC. This GRA includes physical processes, a thermal treatment process option, decontamination, and secondary wastewater treatment process options. Several of the physical and thermal process options are all evaluated in more detail in Appendix G.

Physical Size Reduction

Effectiveness. Volume reduction technologies (such as cutting, compaction, shredding, shearing, and dismantlement) could be effectively used to reduce waste volumes and meet packaging, transportation, or disposal requirements. Compaction has been used in Oak Ridge. It is an effective method if a sufficiently sized compactor is used. Initial size reduction through cutting or shearing of the waste is typically needed to meet compactor feed requirements. Compaction is used routinely and effectively on other types of waste. It is not used on solid items such as the larger block valves and the heavier steel plate items. Shredding has not been used at full scale at a GDP, but it should be effective at reducing the volume and void spaces of process equipment and other waste. It also requires cutting or shearing first, as do the other centralized treatment systems. Shredding reduces large metal components to smaller shards of metal that can be easily mixed with other waste, compacted, and placed in a landfill. Shredding can be used on other waste streams such as wood to render them smaller, requiring less fill or cover in a disposal cell. The volume reduction should be similar between the shredder and the compactor. Shredding and compaction bring significant industrial safety concerns associated with their large-scale implementation, but there are numerous engineering and administrative controls that can be put in place to minimize risks to workers. Crushing, either at the area of generation with heavy equipment or at a central concrete crushing facility, can effectively size reduce concrete enough to allow it to be reused, depending on its level of contamination. The productivity of a centralized concrete crushing system would be greater than the productivity of heavy equipment for large volumes of material. Size reduction by shearers and through manual cutting can be very effective as they can be used on almost any type of waste.

Macroencapsulation of process equipment using reinforced concrete would reduce the mobility of contaminants in the equipment as well as prevent subsidence that could result from degradation of the external shell of the equipment. Macroencapsulation is an effective means to handle void spaces in large equipment. It also has lower worker exposure potential than the process options that change the nature of the process equipment.

Implementability. Physical size reduction techniques are readily implementable using standard industrial equipment and techniques. However, in most cases, the waste needs to be size reduced first to fit into the hopper of the equipment. Then, after size reduction, the equipment pieces need to be moved again to the centralized treatment location. The equipment, both compactors and shredders, needs to be equipped with high-efficiency particulate air filters to control air emissions. A centralized concrete crusher would be easier to implement than compaction and shredding but it is much easier to use heavy equipment for small scale use. Shearing and cutting are easy to implement. The equipment is readily available and can be sized to meet any production need. To effectively implement macroencapsulation, forms are needed to ensure the concrete completely surrounds the piece of equipment. This process option is labor intensive. The equipment must be placed carefully, and the concrete must be poured slowly and evenly around the equipment. All options are considered implementable.

Cost. Shredding and compaction are both expensive endeavors. The construction and operation costs of either process option are comparable and quite high. The equipment is not readily available and would have to be designed and constructed for use on radioactive waste streams. There would also be significant power demands. Because of the limitations of each option, significant quantities of waste could not be processed, meaning the benefits of either process option would be applicable to only a fraction of the waste volume generated. Total costs for this process option are considered to be high compared to other means of reducing volume or limiting void space. Costs are lower for concrete crushing and macroencapsulation because of greater equipment availability and routine operation. The least expensive would be shearing and cutting.

Thermal Process
Effectiveness. Thermal process options such as melting could be effective at reducing toxicity and mobility of contaminants associated with D&D-generated metals. It is excellent for eliminating void space and is more effective than shredding and compacting as all void spaces are removed. Some of the benefits of the melting process include encapsulation of residual contaminants in slag and declassification of classified components and materials. As with compaction and shredding, melting is inherently a dangerous process option, but risks to workers can be controlled with engineering and administrative controls.

Implementability. Implementation of thermal technologies would require substantially more effort than the other treatment process options. A thermal treatment unit could be installed within an existing or new facility at PORTS. A thermal treatment unit would include a decontamination/preparation area for the feed material, a furnace, a staging area for the ingots and slag, and air pollution control equipment. As with the physical size reduction process options, melters require some additional segmentation of subassemblies before placement of the metal. Melting has not been used at full scale on process equipment, so there are numerous uncertainties surrounding its implementation. Addressing these uncertainties in combination with the time required to design, build, and test a new treatment system adds to the challenges. Melting would be considered readily implementable for smaller quantity, relatively homogeneous waste streams but progressively more difficult to implement as the size of the waste stream and heterogeneity increases.

Cost. Thermal treatment is likely to be more expensive than the other physical processes discussed above. The equipment is not readily available and would have to be designed and constructed for use on radioactive waste streams. The high power and fuel demand of this process option increases operation costs. Total costs for this process option are considered to be very high compared to other means of reducing volume or limiting void space. A large volume of estimated waste streams could not be processed, meaning the benefits of this process option would be applicable to only a fraction of the waste volume generated.

Decontamination – Chemical Processes and Physical Processes
Effectiveness. Chemical processes such as acid etching and washing with surfactants have been demonstrated to be effective in removing organic, inorganic, PCB, and radiological contamination, primarily from metal and concrete surfaces. Physical processes such as needle guns, dusting/vacuuming/wiping, and abrasive blasting are effective at removing loose bound contaminants, primarily from metal and concrete surfaces. Physical processes are also effective on uranium deposits contained in process equipment and piping. These techniques were used at PORTS during operation of the GDP. For the appropriate use, each process option is considered to be effective. Centralized chemical processing may be effective at decontamination of volumetrically contaminated materials such as the nickel barrier

materials. Treatability studies may be required to provide proof-of-process data and engineering information important to full-scale design.

Implementability. In general, chemical processes are more difficult to implement than physical processes. Depending on the particular chemical process used, an immersion or reaction vessel may be needed to perform the chemical reaction. Chemical processes can create large quantities of secondary waste (decontamination solution), which in most cases requires treatment prior to disposal. Physical processes are relatively easy to implement with conventional cleaning supplies and equipment. Depending on the amount of decontamination required, implementing physical processes can be labor intensive. Secondarily generated waste (e.g., wipes, paint chips, filters, grit) can usually be disposed of without treatment. It should be noted that the application of physical and chemical decontamination processes would be material-specific and heavily dependent on the nature of contamination.

Cost. The costs to use chemical processes are considered to be medium to high, and they include costs for the decontamination solution, construction of the decontamination unit (reaction vessel), operation of the process, and treatment and disposal of the secondary waste. The costs to use physical processes are considered to be medium and include the costs for materials (e.g., vacuum filters), operation of the process (vacuuming), and disposal of the secondary waste (spent vacuum filters).

Secondary Wastewater Treatment
Effectiveness. Treatment of contaminated disposal facility operations water, such as leachate and runoff during construction and operation from a new potential OSDC, would be effective. Organic compounds including PCBs along with metals and radionuclides are the contaminants that would likely require treatment. Numerous technologies that can remove these contaminants from water are available, but they would have to be constructed on Site. The current on-PORTS treatment facilities are specialized groundwater treatment plants for TCE or sanitary wastewater treatment plants. These plants do not have the appropriate technologies or capacities to treat the wastewater streams from a new potential OSDC without significant upgrades.

Implementability. The only treatment plant within a reasonable distance from a potential OSDC location (Study Area D) is a sanitary wastewater treatment plant. If upgrades are needed, DOE will obtain the applicable authorization for the upgrade. Trucking contact water adds substantial logistical considerations to operating a disposal facility. Piping with facilitated pumping would be the easiest method. Piping is most cost-effective when the treatment plant is nearby. However, the effort involved in converting the nearest treatment plant to one that would meet the needs of any new disposal operation would be as great, if not greater, than constructing a new treatment facility. A new treatment facility could be built at the most convenient and cost-effective location.

Cost. The costs for upgrading existing treatment plants or constructing new plants are comparable. With regard to modifying the small, specialized treatment plants at PORTS, new construction may be the most cost-effective. In either case, the costs are considered to be moderate.

Identification of Representative Process Options for Treatment. A new centralized wastewater treatment plant is identified as the representative process option for treating contaminated leachate, decontamination waters, and contaminated storm water from a new potential OSDC. Although an existing plant could be upgraded, the extent of the system upgrades and the long distance of new piping runs might remove any cost benefit that otherwise might be expected.

The D&D of PORTS is anticipated to generate approximately 1.47 million cy of materials and waste from the demolition of the GDP. Physical processes conducted in a centralized facility to reduce size and void spaces (primarily shearing with heavy equipment and manual cutting), in support of recycling and/or reuse and to meet disposal facility WAC, have been identified as the representative process options. Due to the magnitude of the projects and the varying types of characteristics of the waste materials and contaminants, all treatment process options including upgrading an existing wastewater treatment plant may be considered in the future for possible application, as required.

7.4.3.4 On-Site disposal

New On-Site Disposal Facilities

Effectiveness. Vaults and tumulus facilities are constructed of concrete, which is less impervious than clay and may crack or otherwise degrade over time when compared to an engineered disposal cell. Multilayer liners can be added to vaults or tumulus facilities to increase their effectiveness in isolating waste from the environment. There are weight limitations on the bearing capacities of concrete structures and, consequently, limitations on the height and amount of waste that can be placed in vaults or tumulus facilities. Long-term maintenance needs could be significant.

Engineered disposal cells use natural materials that are more effective than concrete at long-term isolation of waste constituents and that have more durability than concrete. Most of the anticipated PORTS waste is expected to contain long-lived radionuclides or chemicals that do not degrade or lose toxicity (such as heavy metals). Engineered disposal cells are more effective than vaults or tumulus facilities without liners at containing contaminants long term. Engineered disposal cells are as effective as concrete facilities with liners.

Either of the two largest process buildings (X-330 or X-333) could be used to entomb the anticipated waste volume from PORTS. However, the buildings were not designed for this use. The building floors and drains could be sealed prior to waste placement, but there are no engineering mechanisms to prevent contaminant migration from the entombed waste. The concrete floor likely would fail eventually because of the weight placed on top of it, allowing contaminants to migrate into underlying groundwater.

Implementability. Construction of concrete vaults, an engineered disposal cell, a tumulus facility, or use of an existing building for entombment is technically implementable using standard construction techniques and readily available materials. For similar waste capacities, vault or tumulus construction is much more time consuming and labor and material intensive than engineered cell construction. The concrete-based facilities require repetitive installation of formwork, concrete placement, and stripping of the form work. Curing time must be allowed for the concrete. Construction of an engineered disposal facility uses standard earthmoving equipment to place the natural materials that form the containment layers. This construction could proceed relatively rapidly. Installation of leachate collection systems would be similar for concrete vaults, tumulus facilities, or an engineered disposal facility. Use of man-made liners and cover materials in an engineered disposal cell would be readily implementable.

Waste placement operations would be easier at an engineered disposal facility than at a concrete vault or tumulus facility. Earthmoving equipment could be used for placement of bulk soil-like waste in an engineered cell. Small containers and other solid waste forms could be intermixed with bulk waste to minimize void spaces. Limitations on vault or tumulus container size and height would make waste placement more time consuming and not as efficient.

An engineered disposal cell can be constructed in stages and readily accommodate changing waste forms and volumes. Tumulus facilities can be modular, and extra pads and containers can be added relatively easily. A vault facility design is much less flexible in accommodating changing conditions. The land area required for a vault or tumulus facility could be several times that required for an engineered disposal facility because of height limitations, space required between adjacent tumulus pads or concrete vaults, and the additional volume required by the concrete walls, containers, and flowable fill.

Use of the process buildings for entombment of anticipated waste is implementable, although the selected building would require significant modifications. Waste could be placed on the first floor only because of the load-bearing limitations on the second floor. The majority of the waste would require containerization for ease of handling and safe placement within the building structure. Waste placement in the buildings would be time consuming because the equipment used to move containers would have to maneuver around the existing building columns.

Cost. Compared to treatment process options, these on-Site disposal process options are moderately expensive. To bring vaults, tumuli, and entombment into compliance with disposal regulations associated with leachate and liner systems, however, would increase the costs of these options to greater than the cost for an engineered disposal cell. Operations would also be more expensive.

Fill in Support of Potential OSDC Waste Placement (Fill)

Effectiveness. Both on-PORTS and off-PORTS borrow locations are considered effective fill options. There are enough off-PORTS sources of fill to allow the project to buy the volume of fill necessary to support waste disposal at a potential OSDC. If the excess soil from the construction of a potential OSDC is considered, there is enough clean fill on PORTS, although the construction soil may have to be processed to provide the consistency needed to support the operation. Use of excavated contaminated fill materials (RC-2, RC-3) should provide sufficient volume, and it can easily be supplemented with clean fill, as appropriate. More information about the effectiveness, implementability, and cost of these options can be found in Appendix H.

Implementability. Buying off-PORTS fill would be the easiest option to implement. The fill could be delivered where and when it was needed. Developing clean fill on PORTS also would be reasonably easy, but more effort would have to be put into finding, removing, or processing the soil to provide the quality needed for fill.

Excavating contaminated fill (RC-2, RC-3, EC-1 and EC-2) would pose greater challenges. First, additional radiological and contaminant migration controls would be needed that would not be required during the excavation of clean fill. Secondly, if waste with void spaces (EC-2) were encountered, additional fill would be needed. The excavation of waste (RC-2, RC-3) would require detailed anomaly detection to ensure only waste that would meet the WAC would be sent to a potential OSDC. Third, deep excavations might be needed to access sufficient volume. These open excavations would collect groundwater or rain water that would likely require treatment. Fourth, additional effort would be required to obtain regulatory approval for excavation and placement of contaminated fill. Finally, restoration of the excavations might be challenging to provide the correct drainage.

Cost. The cost to purchase or make on- or off-PORTS clean fill would be relatively inexpensive. There would be considerable volumes of excess soil remaining after construction of a potential OSDC that could be processed for fill, resulting in almost no transportation costs. However, the cost for excavating contaminated fill (RC-2, RC-3, EC-1 and EC-2) would be higher due to the fact that the work would be in a contamination zone. Some of the excavated material might not meet the WAC of a potential OSDC and might need to be treated or shipped off Site for disposal, all adding to the costs.

Identification of Representative Process Option for On-Site Disposal. The engineered disposal cell is being identified as the only process option for new on-Site disposal facilities because of equal or better long-term effectiveness, easier implementability, and equal or lower costs. After evaluation, entombment is not considered to be effective and is extremely difficult to implement. A new cell would have the greatest design flexibility, and its significant use of natural materials enhances its long-term durability and, consequently, its ability to reduce the potential for contaminant migration over that of vaults and tumuli. Use of on-PORTS fill at a potential OSDC is being identified as the representative process option for fill (RC-2, RC-3, EC-1). The final determination of the actual source of fill to support waste placement in a potential OSDC is not being made in this RI/FS.

7.4.3.5 Off-Site disposal

DOE Off-Site Facility

Effectiveness. NNSS is effective at isolating wastes from the environment and has the added benefit of being located in arid or semi-arid environments away from population centers. Because the anticipated wastes would be removed from PORTS and shipped to an off-Site facility, there would be no PORTS maintenance requirements or long-term exposure concerns for PORTS receptors. NNSS can dispose of LLW, mixed waste, LLW/TSCA waste, classified waste, and NRC Class A/B/C waste. NNSS is the only facility that can accept classified waste and all classes of LLW.

Implementability. PORTS wastes from various projects have been shipped to NNSS facilities in the past. The long-term availability of any existing facility is uncertain because of the inherently uncertain nature of commercial enterprises. However, other facilities with similar capabilities could be developed over the long term.

Cost. The cost can vary depending on the waste stream. It is considered moderate to high.

Permitted Commercial Facilities

Effectiveness. All of the existing RCRA/TSCA facilities under consideration are engineered to be effective at isolating wastes from the environment. The RES and USPCI facilities receive waste by truck only. Although these facilities in the western United States (RES, USPCI) have the benefit of being located in a drier climate than the WMI-Emelle facility, transportation distances from PORTS to the western facilities are much greater. Energy*Solutions* is licensed to dispose of mixed waste (LLW/RCRA). The other permitted and available off-Site facility is the Pike Sanitation Landfill. Waste that meets its WAC (uncontaminated solid or construction and demolition debris) can be effectively isolated from the surrounding environment.

Implementability. All facilities can readily accept waste that meets their respective WAC. Although shipment to all facilities is readily implementable, there are U.S. Department of Transportation (DOT) requirements for interstate shipment of wastes (such as placarding, routes, and packaging) that must be met.

Cost. The permitted off-Site commercial facilities vary in cost from low for Pike Sanitation Landfill to high for the facilities that can accept mixed RCRA/TSCA/LLW facilities.

Identification of Representative Process Options for Off-Site Disposal. Disposal in an off-Site government-owned or an appropriate licensed commercial facility is identified as the representative process option for off-Site disposal for remedial alternative development. NNSS is adopted in this RI/FS as the representative government disposal facility for purposes of alternative analysis. The Energy*Solutions* facility and Pike Sanitation Landfill are adopted as the representative facilities for purposes of alternative evaluation for off-Site waste disposal at a commercial landfill for mixed and solid waste, respectively. Other existing commercial facilities such as the WCS facility in Andrews, Texas, or new off-Site, appropriately licensed or permitted facilities, which emerge following issuance of this RI/FS, may be used.

7.4.3.6 Recycling and/or reuse

Effectiveness. DOE is committed to recycling and/or reuse. For some waste streams, decontamination and recycling and/or reuse is very effective whereas for others it is not feasible. DOE would make determinations for recycling and/or reuse on a waste stream basis.

Implementability. Recycling and/or reuse has proven to be a valuable and implementable component of similar D&D projects conducted at other DOE and commercial locations. The ease of implementation of recycle and/or reuse is directly related to many factors, including the nature of the material, contaminant properties, and governing requirements. Implementation of recycle and/or reuse is considered a component of all remedial action alternatives.

Cost. The cost of recycle and/or reuse would be determined on a waste stream basis.

Identification of Representative Process Options for Recycling and/or Reuse. Recycling and/or reuse is identified for alternative development. Recycling and/or reuse decisions would be determined by DOE on an individual waste stream basis.

7.4.3.7 Waste transportation

Effectiveness. Trucks and trains are effective and reliable modes of off-PORTS waste transportation. Rail transport normally requires truck transportation of waste from the generator area to a rail transfer facility at PORTS, as well as waste loading equipment. Thus, it is assumed that the use of trains could involve an additional waste handling step incurred at the on-PORTS transfer facility. Bulk waste could be effectively contained in enclosed truck beds or railcars. The representative LLW or mixed waste disposal facilities accept both truck and rail waste shipments.

Implementability. Both process options are readily implementable. If rail transportation were used, the existing truck-to-rail transfer facilities at PORTS would require expansion. The rail infrastructure is assumed to require upgrading and possible reconfiguration or expansion to accommodate greater waste volumes and frequencies of shipments. Waste could be transported by truck from the point of generation to an off-Site disposal facility, whereas the rail option could require additional waste handling steps at a truck-to-rail transfer facility and at the disposal facility. Use of large-container packaging would simplify the handling process.

Cost. Although the disposal facilities charge less for bulk waste delivered by truck, charges for containerized waste are the same for truck and rail. On average, the costs for both transportation methods are considered to be moderate. A truck trip to Pike Sanitation Landfill would be very inexpensive. A truck carrying an oversized piece of process equipment, properly packaged, to a location in the west would be a very expensive trip. Both truck and rail transport can be cost-effective, but for different waste streams and disposal locations.

Identification of Representative Process Options for Waste Transportation. Truck and rail transport are identified as representative process options. Each would be used, depending on the disposal option under consideration.

7.5 WAC FOR REPRESENTATIVE WASTE DISPOSAL FACILITIES

In accordance with requirements outlined in the DFF&O, draft WAC are to be included in the FS if a considered alternative includes a newly constructed waste disposal facility at PORTS. WAC for both on-Site and off-Site disposal facilities that are representative process options for this RI/FS are included.

7.5.1 WAC for a Potential OSDC

The DFF&O established that a preliminary WAC be developed by DOE in the RI/FS and ultimately approved by Ohio EPA following community input. The WAC is comprised of seven components that serve as a series of evaluation criteria (or "gates"). A waste stream must pass through each gate before being allowed to be disposed in a potential OSDC. Some of the WAC components describe information that is needed or processes that must be followed and others are numerical standards that must be met. The details of the WAC components are developed at various stages of a project that is considering a potential OSDC. Some components can be defined in detail at the RI/FS stage of the project (such as prohibitions forbidding certain types of waste from being disposed). Other components would be defined in detail as the waste streams are better identified during development of other regulatory authority documents (for example a CAMU designation for the OSDC may include alternative treatment standards for CAMU-eligible waste). If a CAMU designation is approved by Ohio EPA, CAMU-based treatment standards for eligible waste would be adopted and incorporated into the WAC implementation process. And finally, other components are defined in detail as the design and operational requirements of a potential OSDC are refined.

The first WAC component, or gate, is the waste placement prohibitions that result from two mechanisms: (1) ARARs and (2) DOE operational decisions. All waste streams that are not allowed to be disposed in a potential OSDC are removed from further consideration. The prohibitions also include requirements such as treatment for certain types of waste that must be met prior to disposal. In these cases, the waste stream can pass through this gate once compliance with the requirements has been demonstrated.

Along with these prohibitions, the DFF&O defines the WAC in paragraph 5.mm as including six components: (1) activity criteria and chemical concentration criteria, (2) waste evaluation and characterization standards, (3) waste physical characteristics standards, (4) waste packaging standards, (5) waste safe handling standards, and (6) waste transportation standards. Waste streams that are allowed by law or by agreement to be placed in the potential OSDC would then need to be shown to be in compliance with the activity criteria and chemical concentration criteria discussed in Section 7.5.1.2. Once a waste stream has been shown to be allowed to be disposed by regulation or agreement, and it has been demonstrated that the waste stream meets the activity and chemical concentration criteria, a series of additional components or criteria must be met that ensure that the waste is appropriately characterized, is in the proper form for safe disposal, is appropriately packaged and transported, and is safe for workers must be met. The details of these components would be developed during completion of the design and operations plans of the potential OSDC. These concepts behind these components are discussed in Sections 7.5.1.3 through 7.5.1.7 along with current example requirements. Finally, Section 7.5.1.8 provides the proposed WAC which will form the basis for the final WAC that would be presented in the Proposed Plan for Ohio EPA approval, if an on-Site disposal alternative is selected. The final WAC will include numeric chemical limits based upon LDR considerations or with acceptable modifications for a CAMU if approved by Ohio EPA.

All required information to complete the details of each WAC component are available at different stages of the project. Table 7.2 presents the seven WAC components and discusses where the information on that component can be found in the waste disposition deliverables required under the DFF&O. These components are finalized in the Proposed Plan for Ohio EPA approval and will also be presented in the

ROD. As discussed above, some components of the WAC are dependent on completion of the design of a potential OSDC and consequently, may be refined through documentation in the DFF&O-required WAC Implementation Plan or OSDC Operations Plan (paragraph 15.b). The WAC Implementation Plan, per the DFF&O, is to be comprised of Waste Acceptance System Requirements, Waste Form Compliance Plan, and Waste Acceptance Delivery Schedules. The WAC Implementation Plan would provide the details of the WAC along with requirements for implementing the WAC. The OSDC Operations Plan would provide information on how the waste is to be transported, packaged, and safely received and placed.

Table 7.2. WAC Deliverables

WAC Component (paragraph 5.mm)	Description	Deliverable
ARAR and Operational-based Waste Prohibitions	1) Describes waste that cannot be accepted into an OSDC due to ARARs, and 2) decisions made based on operational needs.	Draft in RI/FS. Ohio EPA approved in Proposed Plan and ROD.
Activity Criteria (and removable and fixed radionuclide levels - paragraph 6.ff.3) and Chemical Concentration Criteria	Describes ARAR-specific criteria and performance-based WAC based on fate and transport modeling.	Draft in RI/FS. Numerical WAC for Ohio EPA approval in Proposed Plan and ROD. DOE will modify criteria based on hazardous waste regulations/ actions, including utilizing alternative treatment standards developed pursuant to a CAMU authorization/designation for a potential OSDC.
Waste Evaluation and Characterization Standards	Describes the characterization and documentation needed to demonstrate compliance with the WAC prior to, during, and after D&D, excavation, and/or treatment activities.	Draft in RI/FS. Ohio EPA approved in Proposed Plan and ROD. Modifications based on final design would occur during post-ROD design submittals. Final waste evaluation and characterization standards documented in WAC Implementation Plan (post-ROD) (paragraph 15.b).
Waste Physical Characteristics Standards (and physical structure - paragraph 6.ff.3)	Describes the physical size and condition that waste must have, including limit of void space, decomposability, compatibility, and appropriate EC-1/EC-2 waste ratio to meet ARARs and support operations.	Draft in RI/FS. Ohio EPA approved in Proposed Plan and ROD. Modifications based on final design would occur during post-ROD design submittals. Final waste physical characteristic standards documented in the OSDC Operations Plan (post-ROD) (paragraph 15.b).
Waste Packaging Standards	Describes any packaging allowances and requirements including those in ARARs.	Draft in RI/FS. Ohio EPA approved in Proposed Plan and ROD. Modifications based on final design would occur during post-ROD design submittals. Final waste packaging standards documented in OSDC Operations Plan (post-ROD) (paragraph 15.b).

Table 7.2. WAC Deliverables (Continued)

WAC Component (paragraph 5.mm)	Description	Deliverable
Waste Safe Handling Standards	Describes how release potential and hazards associated with the waste are to be managed during operation.	Draft in RI/FS. Ohio EPA approved in Proposed Plan and ROD. Modifications based on final design would occur during post-ROD design submittals. Final waste safe handling standards documented in WAC Implementation Plan (post-ROD) (paragraph 15.b).
Waste Transportation Standards	Describes how the waste can be transported across PORTS and to an on- or off-Site disposal location safely and in compliance with ARARs.	Draft in RI/FS. Ohio EPA approved in Proposed Plan and ROD. Modifications based on final design would occur during post-ROD design submittals. Final waste transportation standards documented in OSDC Operations Plan (post-ROD) (paragraph 15.b).

ARAR = applicable or relevant and appropriate requirement
CAMU = Corrective Action Management Unit
D&D = decontamination and decommissioning
DOE = U.S. Department of Energy
EC = engineering category
Ohio EPA = Ohio Environmental Protection Agency
OSDC = on-Site disposal cell
PORTS = Portsmouth Gaseous Diffusion Plant
RI/FS = Remedial Investigation/Feasibility Study
ROD = Record of Decision
WAC = waste acceptance criteria

7.5.1.1 ARAR and operational-based waste placement prohibitions

The ARARs/TBCs listed in Appendix F define regulatory and guidance-based requirements that must be addressed in the finalization of the WAC for any potential OSDC. These ARARs identify a number of waste types that are not allowed to be disposed in a potential OSDC at PORTS. In addition, DOE has included two prohibitions for operational reasons. All of these prohibitions are presented in Table 7.3. These materials would be excluded from on-Site disposal unless a waiver or exemption is granted or, where appropriate, the waste is treated or rendered to meet the requirement.

Table 7.3. ARAR and Operational-based Waste Placement Prohibitions

Prohibition	Rationale
A prohibition on the acceptance of waste from off-PORTS generating sources (excluding lab returns and treatability testing wastes and material currently stored on-Site).	Decision based on DFF&O requirements.
A prohibition on X-326 converters, compressors, and coolers.	DOE operational decision.
Containerized nuclear material inventories of uranium compounds exhibiting enrichments greater than 20 percent (excludes items such as miscellaneous parts, pipes, valves, empty containers etc., with only residual contamination which were packaged for ease of handling and safety reasons).	DOE operational decision made to add to safety factor for long-term protectiveness.
A prohibition on the acceptance of hazardous waste that does not meet LDR treatment standards.[a]	*40 CFR* 268.40(a) *OAC* 3745-270-40(A)

Table 7.3. ARAR and Operational-based Waste Placement Prohibitions (Continued)

Prohibition	Rationale
A prohibition on the acceptance of RCRA hazardous debris and/or soil that does not meet Alternate Treatment Standards.[a]	*40 CFR* 268.45(a) (for hazardous debris) *40 CFR* 268.49(a) (for hazardous soil) *OAC* 3745-270-45(A) (for hazardous debris) *OAC*3745-270-49(A) (for hazardous soil)
If a CAMU designation is approved, a prohibition on RCRA hazardous waste that does not meet the established minimum treatment standards for the Principal Hazardous Constituents.[a]	*40 CFR* 264.552(e)(4) *OAC* 3745-57-72(E)(4)
A prohibition on the acceptance of ignitable and reactive waste per RCRA.	*40 CFR* 264.312(b) *OAC* 3745-57-12(B)
A prohibition on the acceptance of TRU waste or HLW.	DOE Order 435.1 design constraints.
A prohibition on the acceptance of refrigeration equipment with remaining refrigerant per Ozone Standards.	40 *CFR* 82.154(b)
A prohibition on the placement of acid batteries.	40 *CFR* 273.31 *OAC* 3745-273-31
A prohibition on the placement of bulk used oils in liquid form.	40 *CFR* 279.81 *OAC* 3745-279-81
Prohibition on the disposal of PCB-contaminated electrical equipment (except capacitors) containing free-flowing liquids.	40 *CFR* 761.60(b)(4)
Prohibition on the disposal of PCB-contaminated articles containing free flowing liquids.	40 *CFR* 761.60(b)(6)(ii)
Prohibition on the disposal of PCB liquids drained from electrical equipment.	Must be disposed in an incinerator or high-efficiency boiler depending on concentration.
Waste must not be pyrophoric. Pyrophoric materials contained in waste shall be treated, prepared, and packaged to be nonflammable.	*OAC* 3701:1-54-1O(B)(6)
Waste must not be readily capable of detonation or of explosive decomposition or reaction at normal pressures and temperatures, or of explosive reaction with water.	*OAC* 3701:1-S4-1O(B)(4)
Waste must not contain or be capable of generating quantities of toxic gases, vapors, or fumes harmful to persons transporting, handling, or disposing of the waste.	*OAC* 3701:1-S4-10(B)(S)
Prohibition on the acceptance of RCRA hazardous waste containing bulk or noncontainerized liquid hazardous waste or hazardous waste containing free liquids (whether or not sorbents have been added).	40 *CFR* 264.314(a) *OAC* 3745-27-19(E)(8)(b) and (h)(i)

Table 7.3. ARAR and Operational-based Waste Placement Prohibitions (Continued)

Prohibition	Rationale
Prohibition on the placement of bulk or noncontainerized liquid hazardous waste or free liquids contained in hazardous waste (whether or not sorbents have been added) in any CAMU except where placement of such wastes facilitates the remedy selected for the waste. (This prohibition applies to CAMU eligible RCRA hazardous waste.)	40 *CFR* 264.552(a)(3) *OAC* 3745-57-72(A)(3)

[a] Any waste stream considered a hazardous waste must meet the applicable LDR treatment standards pursuant to the hazardous waste regulations. DOE is anticipating pursuing a CAMU designation for CAMU-eligible wastes via the forthcoming future Ohio Consent Decree document(s). The CAMU designation offers the opportunity to pursue adjusted treatment levels for principal hazardous constituents subject to Ohio EPA Director's approval based on certain criteria, including but not limited to the long-term protection offered by the engineering design of the potential OSDC. If the CAMU designation is approved by Ohio EPA, the treatment standards discussed in Section 7.5.1.2 would be adjusted accordingly.

CAMU = Corrective Action Management Unit
CFR = Code of Federal Regulations
DFF&O = *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE = U.S. Department of Energy
HLW = high-level waste
LDR = land disposal restriction
OAC = Ohio Administrative Code
Ohio EPA = Ohio Environmental Protection Agency
OSDC = on-Site disposal cell
PCB = polychlorinated biphenyl
PORTS = Portsmouth Gaseous Diffusion Plant
RCRA = Resource Conservation and Recovery Act of 1976, as amended
TRU = transuranic

A number of regulations include a prohibition or restriction on the disposal of free liquids. If a material that arrives at the OSDC for disposal is too wet for proper placement, the material would be processed before placement per procedures identified in post-ROD DFF&O documents.

7.5.1.2 Activity- or chemical concentration-based waste acceptance criteria

The protectiveness of placement of the types of wastes found at DOE PORTS in an OSDC was evaluated using fate and transport analyses developed in accordance with the *Work Plan for Modeling Analysis in Support of Regulatory Decisions at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2011f). This evaluation yielded results that validate the acceptability of an OSDC, designed using available engineering methods coupled with geologic controls, to prevent undue migration of chemical constituents at activity or concentration levels reasonably expected to be found during D&D activities.

Modeled WAC were developed for Study Area D, which is located entirely over the thick shale of the Cuyahoga Formation. This formation offers very low hydraulic conductivity, thus significantly retarding the vertical movement of water to lower geologic strata (i.e., Berea sandstone). A new site-specific, three-dimensional, vadose-zone numerical model was developed using field and laboratory data from Study Area D. This model is the principal basis for the fate and transport analysis of PORTS-related constituents found in buildings, soil, groundwater, and/or landfills.

The modeled fate and transport results for potential receptor locations are presented in this FS (Appendix I) and evaluate potential risk to human receptors based on achieving the following cumulative performance requirements:

- For carcinogens, the ELCR for the protection of human health is to be $\leq 1\times10^{-5}$ for the first 1,000 years after capping at any considered points of assessment.

- For noncarcinogens, the HI for the protection of human health is to be ≤ 1 for the first 1,000 years after capping at any considered points of assessment.

- Protection of ecological species at any point of surface discharge for the first 1,000 years after capping.

- Protection of the aquifer to MCLs at the downgradient edge of the potential OSDC waste for the first 1,000 years after capping.

The 1,000-year after capping time of compliance is identified in the DFF&O and consistent with DOE Manual 435.1-1, *Radioactive Waste Management*, Chapter IV, paragraph P(2) (DOE 2001c). DOE Order 458.1(4)(h)(1)(d)(1)(a) contemplates a compliance period of 200 to 1,000 years.

The fate and transport modeling produced an activity or concentration for every constituent at location where contamination was projected to migrate from the potential OSDC in potential groundwater, surface water, and air pathways up to 1,000 years. The model then projected the maximum acceptable concentration or activity in the potential OSDC for every potential constituent that resulted in an acceptable activity or concentration at the location, per the above listed requirements. These maximum possible and acceptable concentrations or activities found in the modeled portion of the WAC (modeled WAC) are presented in Appendix I.

The modeled WAC were calculated based on the hydrogeologic and geochemical characteristics of the potential OSDC planned location (Study Area D), in conjunction with the nature of the known waste contaminants and the design features of the potential OSDC. These factors act together to provide a high level of certainty that the contaminants present in waste streams at PORTS, regardless of the actual measured concentration in the waste stream, would not adversely impact human and environmental receptors above established regulatory limits within a 1,000-year design horizon. The range of activities or concentrations of the primary contaminants anticipated to be present in the PORTS waste streams are actually much lower than the calculated values in Appendix I, offering a substantial added safety factor to the expected long-term performance of the potential OSDC.

DOE has elected not to pursue on-Site disposal in any future OSDC of the following waste streams at PORTS:

- Converters, compressors and coolers from the X-326 Process Building

- Containerized nuclear material inventories of uranium compounds exhibiting enrichments greater than 20 percent (excludes miscellaneous parts, pipes, valves, etc., with residual contamination which were packaged for ease of handling and safety reasons).

While these streams are within the calculated values from Appendix I, they are, by agreement not being considered for on-Site disposal. With the elimination by agreement of the waste streams listed in the bullets above, use of a potential OSDC for the remaining waste materials present at PORTS would create a modeled safety factor of at least five orders of magnitude, providing substantial added assurance that no human or ecological receptor would be impacted above established regulatory levels within the 1,000-year design horizon.

Other regulatory requirements. There are other regulatory requirements that would result in activity and chemical concentration criteria that must be met by any waste stream considered for disposal in a potential OSDC. Prior to land disposal, all hazardous wastes must meet treatment standards. Treatment standards, arranged by hazardous waste code, are located in the “Treatment Standards for Hazardous Waste” table in *OAC* rule 3745-270-40 for hazardous waste, in *OAC* rule 3745-270-45 for hazardous waste contaminated debris, and in *OAC* rule 3745-270-49 for hazardous waste contaminated soil. Treatment standards can be expressed as concentration-based values or as specific treatment technologies. Concentration-based treatment standards, which, depending on the waste are either a concentration in the waste or in a waste extract, appear in the table as numeric values. An example treatment standard would be 60 mg/kg (10 times the universal treatment standard) for TCE in soil or 90 percent reduction in total constituent concentration, whichever is greater, under *OAC* rule 3745-270-49. When the use of a specific technology is required, the standard is expressed as a five-letter code. These specified technologies are described in *OAC* rule 3745-270-42.

Depending on the hazardous waste code, the treatment standards may be met by either of the following:

- Ensuring all hazardous constituents in the waste or treatment residue are at or below the total concentration values based on total constituent analysis (total waste standards) or a TCLP analysis (waste extract standards), whichever is applicable

- Treating the hazardous constituents in the waste or treatment residue to at or below the values based on total constituent analysis (total waste standards) or a TCLP analysis (waste extract standards), whichever is applicable

- Treating the hazardous waste by using a specific treatment technology (technology standards) when applicable.

DOE is anticipating pursuing a CAMU designation for CAMU-eligible wastes via the forthcoming future Ohio Consent Decree document(s). The CAMU designation offers the opportunity to pursue adjusted treatment levels for principal hazardous constituents subject to Ohio EPA Director’s approval based on certain criteria, including but not limited to the long-term protection offered by the engineering design and favorable geology of the potential OSDC. Ohio Consent Decree document(s) will serve as the mechanism for Ohio EPA to approve of the list of principal hazardous constituents and corresponding adjusted treatment levels for the CAMU. Any adjusted values would be used for the residual soils (RC-1, EC-1), deferred unit soils (RC-2, EC-1), and the waste excavated for use as fill from PORTS existing landfills (RC-3, EC-1 and EC-2) and selected groundwater contamination areas (RC-2, EC-1).

7.5.1.3 Waste evaluation and characterization standards

These standards define requirements for determining the waste type and determining compliance with WAC, including chemical and physical analysis and/or information which must be known to treat, store, or dispose of the waste in accordance with state solid and hazardous waste requirements, RCRA, TSCA, and DOE LLW requirements.

The establishment of these standards is based on the requirements of the final OSDC design. The DFF&O establishes a requirement for a design deliverable called a WAC Implementation Plan. The WAC Implementation Plan, per the DFF&O, paragraph 15.b, is to be comprised of Waste Acceptance System Requirements, Waste Form Compliance Plan, and Waste Acceptance Delivery Schedules. The plan would evaluate each of the approved ARAR/TBCs relevant to waste evaluation and characterization and present a compliance approach aligned with the final OSDC design. Upon approval and/or concurrence, as appropriate, by Ohio EPA, the WAC Implementation Plan would become an enforceable part of the WAC.

7.5.1.4 Waste physical characteristics

Waste physical characteristics define the physical form of waste and requirements for filling voids within waste or around waste to ensure stability after placement such that the waste does not structurally degrade and effect overall stability of the waste through slumping, collapse, or other failures of a potential OSDC and thereby lead to water infiltration through the cover systems. Physical limits of size, shape and distance to the liner are also set to prevent potential damages to the bottom liner materials of a potential OSDC that may lead to leaks through the liner systems. Also, waste physical characteristics define the limitations on waste forms including dimensions, thickness, and weight limitations of waste items and packages based on operational constraints including methods of waste handling such as conveyance, off-loading, material placement, and waste compaction. The details of the waste physical characteristics will be developed consistent with the conveyance and material handling equipment selected for use at a potential OSDC. Table 7.4 presents typical waste physical characteristics.

Table 7.4. Typical Waste Physical Characteristics

Description	Typical Waste Physical Characteristics[a]
Maximum length of irregularly shaped metals or other components of a building superstructure or finished component	10 ft (or 12 ft for transite panels)
Maximum thickness of irregularly shaped metals or other components of a building superstructure or finished component	18 in.
Maximum thickness of an individual concrete member or other component of a building slab or substructure	4 ft
Concrete reinforcement bars	Rebar shall be cut 12 in., nominally, from the concrete mass
Maximum thickness of uniform pallets of building cladding (e.g., transite panels which are to be properly banded)	4 ft
Piping with a nominal diameter of 12 in. or greater	Split in half, longitudinally; crushed; nested with pipes of smaller diameters; or filled with quick set grout or flowable, cohesionless material
Waste items not conducive to size reduction and having internal voids greater than 1 cf	Voids to be filled with quick set grout or flowable, cohesionless material prior to final disposal; or to be placed in whole by encasing with concrete from outside[b]
Pressurizable gas cylinders (i.e., gas cylinders that are still mechanically able to be pressurized)	Shall be rendered unpressurized prior to disposal
Intact empty drums	Crushed to eliminate void space

[a] Examples from other facility WAC. The final list will be part of the OSDC Operations Plan.
[b] Pending final engineering design.

OSDC = on-Site disposal cell
WAC = waste acceptance criteria

The DFF&O requires the submittal of an OSDC Operations Plan. This design deliverable will refine these physical characteristic standards. The Plan will analyze each of the approved ARAR/TBCs relevant to the establishment of limitations on the physical characteristics of the waste for acceptance into the potential OSDC. The Operations Plan demonstrates how the planned physical WAC and final design-based waste placement approach complies with each of these ARAR/TBCs. Upon approval and/or concurrence, as appropriate, by Ohio EPA, the OSDC Operations Plan would become an enforceable part of the WAC.

7.5.1.5 Waste packaging standards

These standards define the type of containers that may be used for on-Site waste transport and disposal. They must be compatible with the waste contained in order to protect workers and the public during transport and disposal. A vast majority of waste is to be transported and disposed as uncontainerized bulk waste. However, for some waste streams, containers (i.e., B-25 boxes, 20 cy roll-off containers, drums, soft-sided bags) may be used. If used, these containers must be structurally capable of containing the waste, must be 90 percent full when placed in a potential OSDC, may not contain free liquids in excess of 1 percent by volume, and must be placed in a manner that maintains the package integrity, minimizes void space between packages, and permits the void spaces to be filled. Also, regulated ACM must be adequately wetted, collected, and sealed in leak-proof containers. Waste packaging standards for waste disposal are reliant on the final design and operation methods of the potential OSDC. Table 7.5 presents potential waste packaging standards.

Table 7.5. Potential Waste Packaging Standards

Requirement	Basis
Regulated asbestos-containing material (RACM) (e.g., pipe lagging, insulation, ceiling tiles) shall be adequately wetted, collected, and sealed in leak-proof containers.	*OAC* 3745-20-05(C)
Beryllium-contaminated equipment shall be disposed in sealed, impermeable bags, containers, or enclosures to prevent release during handling and transportation.	Chronic Beryllium Disease Prevention Program 10 *CFR* 850.31(c)(3)
Beryllium-containing bags, containers, and enclosures shall be labeled accordingly.	Chronic Beryllium Disease Prevention Program 10 *CFR* 850.31(a)

CFR = Code of Federal Regulations
OAC = Ohio Administrative Code

The above-referenced OSDC Operations Plan will define the requirements for placement of bulk and containerized waste based upon the final design. This design deliverable would establish the packaging requirements for such waste to render it acceptable for transport or disposal. The Plan will evaluate each of the approved ARAR/TBCs and present standards and a waste placement approach that demonstrates compliance with these ARAR/TBCs. Upon approval and/or concurrence, as appropriate, by Ohio EPA, the OSDC Operations Plan would become an enforceable part of the WAC.

7.5.1.6 Waste safe handling standards

These standards define limitations on waste that are protective of workers involved in the handling of waste during receipt at a potential OSDC, as described in 10 *CFR* 835, *Occupational Radiation Protection*. Waste safe handling standards developed for a potential OSDC include requirements to package waste commensurate with analyzed hazards such as dose rates associated with handling routine contact-handled packages as well as bulk disposal conveyances (e.g., dump trucks), and requirements to containerize asbestos to prevent air borne releases. Safe handling standards will follow requirements from the DOE concept that all radiological operations employ “as low as reasonably achievable” (ALARA) practices to keep worker doses well below applicable dose standards. These components provide the appropriate level of protectiveness related to safe handling of waste. The waste safe handling standards would be finalized through the OSDC Operations Plan incorporating the results of the hazards analysis process. This plan would also evaluate each of the approved ARAR/TBCs and factor the relevant regulatory requirements into the finalization of the standards. Upon approval and/or concurrence, as appropriate, by Ohio EPA, the OSDC Operations Plan would become an enforceable part of the WAC.

7.5.1.7 Waste transportation standards

This is a defined component of the WAC pursuant to the DFF&O and would establish the requirements for the safe movement of waste to a potential OSDC to protect the environment and workers from spillage and to provide plans to control spills. Such standards are a result of the final design process based on the approved physical characteristic standards and operations approach. Table 7.6 presents the waste transportation standards anticipated.

Table 7.6. Waste Transportation Standards

Requirement	Basis
Radioactive waste shall be packaged and moved in accordance with substantive requirements of DOE Order 460.1C (*Packaging and Transportation Safety*).	DOE Order 460.1C
Cover at all times, open-bodied vehicles when transporting materials likely to become airborne.	*OAC* 3745-17-08(B)(7)

DOE = U.S. Department of Energy
OAC = Ohio Administrative Code

Agreed upon TBC DOE Order 460.1c (4) (b) requires the development and compliance with facility-specific Transportation Safety Documents for movement of material or waste on the plant. The DFF&O-required Operations Plan will present the final transportation standards based upon the DOE-required Transportation Safety Document and an analysis of each of the relevant approved ARAR/TBCs. Upon approval and/or concurrence, as appropriate, by Ohio EPA, the OSDC Operations Plan would become an enforceable part of the WAC.

7.5.1.8 Proposed WAC

The WAC is comprised of the following seven components: (1) prohibitions resulting from ARARs and DOE operational decisions, (2) activity criteria and chemical concentration criteria, (3) waste evaluation and characterization standards, (4) waste physical characteristics standards, (5) waste packaging standards, (6) waste safe handling standards, and (7) waste transportation standards. A waste stream must meet each component before being allowed to be disposed in a potential OSDC.

The first WAC component (see Table 7.7) is waste placement prohibitions that result from two mechanisms: (1) ARARs and (2) DOE operational decisions. All waste streams that are not allowed to be disposed in a potential OSDC as a result of one of these prohibitions are removed from further consideration. The list of draft prohibitions is presented in Table 7.7. No additional information is needed from the design of a potential OSDC to finalize the draft prohibitions.

Then each waste stream is evaluated against the activity and chemical concentration criteria and those that do not meet the criteria are not allowed to be disposed in a potential OSDC unless further treatment pursuant to defined requirements is performed. Groundwater fate and transport modeling along with an evaluation of potential contaminant concentrations likely to be present in D&D waste (RC-1) and other waste (RC-2, RC-3, RC-4) streams indicates that there is a five order of magnitude safety factor between resultant protective numerical levels and the concentrations in the waste streams. This conclusion is primarily due to the favorable geologic conditions found at the proposed location of a potential OSDC along with the design elements of the cells.

However, any waste stream considered a hazardous waste must meet the treatment standards outlined in Table 7.7. DOE anticipates pursuing a CAMU designation for CAMU-eligible wastes via the forthcoming future Ohio Consent Decree document(s). The CAMU designation offers the opportunity to pursue adjusted treatment levels for principal hazardous constituents subject to Ohio EPA Director’s approval based on certain criteria, including but not limited to, the long-term protection offered by the engineering design of the potential OSDC. If a CAMU designation is approved, the treatment standards discussed in Table 7.7 would be adjusted accordingly. There is no information being generated during the design of the potential OSDC that is needed to finalize these draft activity and chemical concentration criteria presented in Table 7.7.

The other components of the WAC would be modified as further design and operations plans are developed. Table 7.7 presents the two design and operations documents that, upon Ohio EPA review and approval and/or concurrence, would become an enforceable part of the ROD should an on-Site alternative be selected. These documents will detail out the remaining WAC components defined in the DFF&O.

Table 7.7. Proposed WAC for a Potential OSDC

Prohibitions	
Prohibition/Exclusions	**Rationale**
A prohibition on the acceptance of RCRA hazardous waste that does not meet LDR treatment standards.	*40 CFR* 268.40(a) *OAC* 3745-270-40(A)
A prohibition on the acceptance of RCRA hazardous debris and/or soil that does not meet Alternate Treatment Standards.	*40 CFR* 268.45(a) (for hazardous debris) *40 CFR* 268.49(a) (for hazardous soil) *OAC* 3745-270-45(A) (for hazardous debris) *OAC*3745-270-49(A) (for hazardous soil)
If a CAMU designation is obtained, a prohibition on CAMU-eligible RCRA hazardous waste that does not meet the established minimum treatment standards for the Principal Hazardous Constituents.	*40 CFR* 264.552(e)(4) *OAC* 3745-57-72(E)(4)
A prohibition on the acceptance of ignitable and reactive waste per RCRA.	*40 CFR* 264.312(b) *OAC* 3745-57-12(B)
A prohibition on the acceptance of TRU waste or HLW.	DOE Order 435.1 design constraints.
A prohibition on the acceptance of refrigeration equipment with remaining refrigerant per Ozone Standards.	40 *CFR* 82.154(b)
A prohibition on the placement of acid batteries.	40 *CFR* 273.31 *OAC* 3745-273-31
A prohibition on the placement of bulk used oils in liquid form.	40 *CFR* 279.81 *OAC* 3745-279-81
Prohibition on the disposal of PCB-contaminated electrical equipment (except capacitors) containing free-flowing liquids.	40 *CFR* 761.60(b)(4)
Prohibition on the disposal of PCB-contaminated articles containing free flowing liquids.	40 *CFR* 761.60(b)(6)(ii)
Prohibition on the disposal of PCB liquids drained from electrical equipment.	Must be disposed in an incinerator or high-efficiency boiler depending on concentration.
Waste must not be pyrophoric. Pyrophoric materials contained in waste shall be treated, prepared, and packaged to be nonflammable.	*OAC* 3701:1-54-1O(B)(6)
Waste must not be readily capable of detonation or of explosive decomposition or reaction at normal pressures and temperatures, or of explosive reaction with water.	*OAC* 3701:1-S4-1O(B)(4)
Waste must not contain or be capable of generating quantities of toxic gases, vapors, or fumes harmful to persons transporting, handling, or disposing of the waste.	*OAC* 3701:1-S4-10(B)(S)
Prohibition on the acceptance of RCRA hazardous waste containing bulk or noncontainerized liquid hazardous waste or hazardous waste containing free liquids (whether or not sorbents have been added).	40 *CFR* 264.314(a) *OAC* 3745-27-19(E)(8)(b) and (h)(i)

Table 7.7. Proposed WAC for a Potential OSDC (Continued)

Prohibitions	
Prohibition/Exclusions	**Rationale**
If a CAMU designation is obtained, prohibition on the placement of bulk or noncontainerized liquid hazardous waste or free liquids contained in hazardous waste (whether or not sorbents have been added) in any CAMU except where placement of such wastes facilitates the remedy selected for the waste. (This prohibition applies to CAMU eligible RCRA hazardous waste.)	40 *CFR* 264.552(a)(3) *OAC* 3745-57-72(A)(3)
Prohibited Waste Streams by Agreement	
Waste Stream	**Description**
Off-PORTS generated waste.	A prohibition on the acceptance of waste from off-PORTS generating sources (excluding lab returns and treatability testing wastes and material currently stored on the Facility).
Compressors, Converters, and Coolers from X-326.	Components in-place within the X-326 Process Building as of April 15, 2010, the initial date of the DFF&O.
Enriched materials.	Containerized nuclear material inventories of uranium compounds exhibiting enrichments greater than 20 percent (excludes items such as miscellaneous parts, pipes, valves, empty containers etc., with only residual contamination which were packaged for ease of handling and safety reasons).
Activity and Chemical Concentration Criteria	
Waste Stream	**Requirement**
Hazardous waste.	Treatment standards, arranged by hazardous waste code, are located in the "Treatment Standards for Hazardous Waste" table in *OAC* rule 3745-270-40.
Hazardous waste contaminated debris.	Alternate treatment standards are located in *OAC* rule 3745-270-45.
Hazardous waste contaminated soil.	Alternate treatment standards are located in *OAC* rule 3745-270-49.
Hazardous waste – CAMU designation.	If a CAMU designation for a potential OSDC is obtained, alternate treatment standards may be developed under future Ohio Consent Decree document(s) and may be used to replace those standards in 3745-270-40, 45, and 49.
Documents That Become Part of WAC Upon Approval/Concurrence	
Document[a]	**WAC Components Included (para. 5.mm)**
WAC Implementation Plan.	**Prohibitions** (carried forward from the ROD). **Activity Criteria and Chemical Concentration Criteria** (carried forward from the ROD). **Waste Evaluation and Characterization Standards** **Waste Safe Handling Standards.**
OSDC Operations Plan.	**Waste Physical Characteristics Standards** **Waste Packaging Standards** **Waste Transportation Standards.**

[a] The noted documents will become part of the enforceable WAC upon Ohio EPA review and approval and/or concurrence.

CAMU = Corrective Action Management Unit
CFR = Code of Federal Regulations
DFF&O = *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE = U.S. Department of Energy
HLW = high-level waste
LDR = land disposal restrictions
OAC = Ohio Administrative Code
Ohio EPA = Ohio Environmental Protection Agency
OSDC = on-Site disposal cell
PCB = polychlorinated biphenyl
PORTS = Portsmouth Gaseous Diffusion Plant
RCRA = Resource Conservation and Recovery Act of 1976, as amended
ROD = Record of Decision
TRU = transuranic
WAC = waste acceptance criteria

7.5.2 WAC for Representative Off-Site Disposal Facilities

WAC for the three representative off-Site disposal process options are presented in this section. If other disposal options are selected during the design, those WAC will be obtained and shared with Ohio EPA.

Energy*Solutions* Waste Acceptance Criteria. The following LLW WAC are applicable:

- LLW (source material, special nuclear material [SNM], and 11.e[1] waste [SNM byproduct material]) with individual or mixture concentrations less than those listed in the Energy*Solutions* radioactive material license are accepted for disposal.

- Waste with activity greater than Class A per 10 *CFR* 61 is not accepted for disposal.

The following mixed waste WAC are applicable:

- All waste must meet RCRA treatment standards. Mixed waste is acceptable for disposal provided the concentrations of hazardous constituents do not exceed those outlined in 40 *CFR* 268. Wastes prohibited from land disposal per 40 *CFR* 268 are not accepted for disposal.

- The radionuclide concentrations acceptable in mixed waste are those specified for LLW.

- Asbestos and other TSCA waste is accepted for disposal with some limitations provided in the WAC.

The current Energy*Solutions* WAC for the Clive facility are documented in Energy*Solutions* (2011).

NNSS Waste Acceptance Criteria. The following LLW WAC are applicable:

- LLW with concentrations tied to activity “action limits” is accepted for disposal.

- Class A, B, or C waste per 10 *CFR* 61 is accepted for disposal. However, the NRC waste classification standards do not formally apply to DOE LLW.

- Waste must be certified for disposal under an approved NNSS Waste Certification Program.

The following mixed waste WAC are applicable:

- All waste must meet RCRA treatment standards. Mixed waste is acceptable for disposal provided the concentrations of hazardous constituents do not exceed those outlined in 40 *CFR* 268. Wastes prohibited from land disposal per 40 *CFR* 268 are not acceptable for disposal.

- The radionuclide concentrations acceptable in mixed waste are those specified for LLW.

The following general WAC are applicable:

- DOE classified waste (for security purposes) is accepted.
- Wastes containing free liquid are not acceptable for disposal.
- Waste must meet fissile gram quantity limitations provided in the WAC.
- Waste must meet plutonium gram quantity limitations provided in the WAC.
- NNSS can accept only DOE-generated waste and specific defense waste for disposal.

Pike Sanitation Landfill Waste Acceptance Criteria. Pike Sanitation Landfill accepts the following wastes for disposal at its landfill in Pike County:

- Construction debris

- Soil

- Demolition waste from facilities or soil known, by process knowledge and/or physical sampling, to have no regulated concentrations of radioactive and/or hazardous waste.

The following wastes are not accepted for disposal or treatment:

- LLW
- RCRA hazardous waste
- TSCA waste (PCB levels above 50 mg/kg)
- Liquid waste.

Pike Sanitation Landfill is prohibited from receiving any waste that contains technologically-enhanced, naturally-occurring radioactive material, by-product, source, or special nuclear material.

HIGHLIGHTS OF SECTION 7

- The three foundations for developing alternatives are: (1) regulatory understanding, (2) development of RAOs, and (3) identification of representative process options.
- All alternatives to be considered will be protective of human health and the environment and meet surface water and groundwater protection standards.
- A new on-Site engineered cell and three existing off-Site disposal locations along with on-PORTS fill and recycling and/or reuse are identified to represent the range of viable disposal process options in the development of the alternatives.

NEXT STEP: SECTION 8 DEVELOPS AND DESCRIBES A RANGE OF ALTERNATIVES THAT SOLVE THE PROBLEM

8. FINAL DEVELOPMENT OF ALTERNATIVES

Section 8 completes the identification of potential solutions. This section explains the assembly of representative process options into final remedial action alternatives, each aimed to achieve the RAOs and comply with ARARs/TBCs. These alternatives are developed in Section 8.1 and are based on the process options identified as representative process options from Section 7 and the volumes presented in Section 4. Section 8.2 then presents the action-specific ARARs/TBCs for each of the developed alternatives. These alternatives are then described in sufficient detail in Section 8.3 to support the evaluation of alternatives, including a cost estimate, in Section 9.

Three alternatives have been developed:

1) No Action
2) On-Site disposal with partial off-Site disposal
3) All off-Site disposal.

The no-action alternative assumes no disposal of any waste generated. The second alternative assumes a new on-Site disposal facility is built. Any waste not meeting the established WAC for a potential OSDC would be shipped off Site for disposal. And finally, the third alternative assumes all waste is shipped off Site for disposal.

8.1 DEVELOPMENT OF ALTERNATIVES

The following GRAs were identified in Section 7 to be developed into waste disposition alternatives:

- No Action
- Institutional Controls on a Potential OSDC
- Centralized Treatment
- On-Site Disposal
- Off-Site Disposal
- Recycling and/or Reuse
- Waste Transportation.

Three remedial alternatives are developed. They are a no-action alternative and two action alternatives, on-Site disposal and off-Site disposal. These alternatives represent an appropriate range of Site-wide disposition options, with one alternative leaving as much waste on Site as would meet a potential OSDC’s WAC. Any waste not meeting the established WAC for a potential OSDC would be shipped off Site for disposal. The other alternative takes all waste to an off-Site disposal location.

The on-Site alternative’s key aspect is construction of a new potential OSDC. The off-Site alternative’s key component is that all waste covered by this decision is disposed of in a properly licensed or permitted commercial or government facility.

A component of both the on-Site and off-Site alternatives is recycle and/or reuse of materials generated from the D&D activities in compliance with ARARs. For the purposes of evaluating remedial action alternatives, a consistent amount of recycling and/or reuse of D&D materials is assumed as part of each of the action-based alternatives. Preparation for recycling and/or reuse may include, but not be limited to, crushing, size reduction, segmentation, segregation, storage, decontamination, characterization and construction and operation of facilities to conduct and/or support such activities. Those activities done to prepare the material for recycle and/or reuse are generally evaluated as part of the Process Buildings and

Complex Facilities D&D Evaluation Project. In the event that recycling and/or reuse of materials requires the implementation of a large-scale centralized treatment process at PORTS, the evaluation would be part of the Site-wide Waste Evaluation Disposition Evaluation Project.

Below is a description of the remedial alternatives. Solely for purposes of the RI/FS evaluation, including the cost estimate, certain assumptions (e.g., use of new wastewater treatment systems) have been made, and the identified representative process options have been used to describe the alternative in more detail in Section 8.3. Specific methods may change during later phases of this project.

8.1.1 Alternative 1 – No Action

Alternative 1 is the no-action alternative based on the no-action GRA. The no-action alternative is required to establish and document baseline conditions and provide a basis for comparison to the other remedial action alternatives. This alternative would consist of no D&D of the PORTS buildings and no waste (RC-1) disposal. As discussed in Section 5, under no action, buildings would eventually degrade, resulting in releases of contaminants with migration to where exposures to human and ecological receptors may occur. Further, this alternative does not consider controls necessary to prevent access to the facilities and the associated physical hazards they present. The following are key components of this alternative:

- Buildings would not be demolished but instead would be left to degrade.

- No waste requiring management would be generated; therefore, associated radiological and hazardous constituents would remain on Site.

- No item would be recycled and/or reused.

- No S&M of the facilities to prevent degradation would occur.

- No institutional controls would be implemented to control access to radioactive or hazardous waste constituents.

8.1.2 Alternative 2 – On-Site Disposal

This alternative involves siting and constructing an engineered potential OSDC with operations of the facility for disposal of anticipated PORTS waste. Waste not meeting the facility WAC would be shipped to appropriate off-Site disposal facilities. Alternative 2 is comprised of the following GRAs:

- Institutional Controls on a potential OSDC
- Centralized Treatment[1]
- On-Site Disposal
- Off-Site Disposal
- Recycling and/or Reuse
- Waste Transportation.

Alternative 2 consists of a potential OSDC that would be designed, built, and operated to accept LLW (including classified waste), RCRA hazardous waste, TSCA waste, construction and demolition debris, solid waste, and combinations of these regulatory waste types, constructed using a multi-layered liner

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[1] Centralized treatment in this context refers to significant, non-commercial, ARAR-compliant treatment efforts that may require additional DFF&O documentation.

system, and ultimately capped with a final multi-layered capping system designed to meet long-term infiltration requirements. Appendix D, the siting study, presents the information on candidate waste locations considered for this decision. As a result of that siting study, two candidate locations are considered to be viable for construction of a potential OSDC: Study Area C (the specific location is called Site C) and Study Area D (Site D). Additionally, Appendix D describes why Site D is selected for analysis to represent both Sites C and D (or any other location over similar geological conditions) for an on-Site disposal alternative. Recycling and/or reuse is also part of the alternative.

The following are key elements of this alternative:

- Establishment of final WAC (established for a potential OSDC) including concentration-based limits for the placement of discrete waste constituents in a potential OSDC so as to meet ARARs and to ensure the long-term protectiveness of human health and the environment, including groundwater resources at the downgradient edge of the facility.

- Transportation and disposal of D&D waste (RC-1) meeting the WAC in a potential OSDC, with waste not meeting the WAC either treated (through this project or through the waste generating project) or shipped and disposed of off Site at disposal facilities approved for receipt of such waste.

- Transportation and disposal of some non-radiologically contaminated and nonhazardous D&D waste (RC-1) within a potential OSDC or at an appropriately permitted local, off-Site solid waste disposal facility.

- Construction and operation of centralized size reduction or decontamination processes and/or staging of recovered materials in support of recycling and/or reuse initiatives in compliance with ARARs.

- Design, construction, and operation of a potential OSDC satisfying both design-based and performance-based requirements of DOE and other substantive requirements and guidance developed and documented in the ARARs/TBCs for the on-Site alternative. A potential OSDC is envisioned to be built in modular fashion with individual lining systems so as to ensure sufficient available capacity is available to support D&D activities, but without the program risk of developing disposal capacity that would not be used.

- The infrastructure supporting a potential OSDC would include wastewater treatment designed for the waste constituents and throughput from anticipated leachate from any on-Site landfill operations as well as other wastewaters that may be generated.

- Haul roads appropriate to transport waste from the generation area to a potential OSDC would be built.

- Fill material, for purposes of supporting waste placement in a potential OSDC, is anticipated to be from on- and/or off-PORTS borrow locations. Fill is always designated as having soil-like properties and therefore is categorized as EC-1. When considering cell operations, all waste requiring fill to reduce void spaces is considered as one type (EC-2).

- The infrastructure supporting a potential OSDC would include a waste staging area where waste could be held on a non-permanent basis, such as when operations at a potential OSDC have been suspended for weather. This staging area would provide for the staging of waste for logistics purposes to support the optimal mixture of waste requiring fill (EC-2) and soil (EC-1) at a potential OSDC.

- The alternative includes the appropriate institutional controls at a potential OSDC to prevent access to the waste in the future.

- Long-term maintenance, surveillance, and monitoring are included.

The presence of a potential OSDC would provide the potential for wastes generated through the conduct of PORTS cleanup activities outside of the DFF&O (RC-2, RC-4) to be disposed in that potential OSDC. Such waste could include non-DFF&O environmental media and other materials generated during cleanup activities (RC-2).[2]

8.1.3 Alternative 3 – Off-Site Disposal

Under this alternative, anticipated waste would be disposed off Site at disposal facilities approved to accept DOE-generated waste. As discussed in Section 4, 1.47 million cy of waste (RC-1), including 53,000 cy of residual soil (RC-1, EC-1), anticipated to be generated under the Process Buildings and Complex Facilities D&D Evaluation Project and earlier DFF&O removal actions would require packaging, transportation, and disposition off Site. The DOE-approved off-Site disposal facilities could be either a DOE disposal facility and/or commercial facilities authorized to accept LLW, TSCA waste, hazardous waste, and/or construction and demolition debris and solid waste. The facilities considered could also include recycling and/or reuse facilities.

Alternative 3 is comprised of the following GRAs:

- Centralized Treatment[3]
- Off-Site Disposal
- Recycling and/or Reuse
- Waste Transportation.

Key elements of this alternative include the following:

- Most waste anticipated to be generated by PORTS D&D projects (RC-1) would be managed as a radioactive, hazardous, construction and demolition debris, solid, and/or TSCA (PCB) waste and would be transported and dispositioned at off-Site approved DOE and commercial disposal facilities.

- Waste (RC-1) that did not require management as either a radioactive and/or hazardous waste would be shipped and disposed at an off-Site local solid waste landfill, as appropriate.

- Both off-Site disposal and transportation, be it by truck or rail, are part of this alternative.

- Infrastructure upgrades such as to the rail yard would be implemented.

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[2] The DFF&O RI/FS SOW Section 3.5.1 states "Respondent shall collect the following data: B. Potential waste streams associated with environmental media cleanup activities to be conducted under the RCRA Consent Decree and for which DOE might seek exemptions under Ohio laws and regulations to allow placement of such waste stream in any OSDC that might be constructed as a result of the Site-Wide Waste Disposition Evaluation project."

[3] Centralized treatment in this context refers to significant, non-commercial, ARAR compliant treatment efforts that may require additional DFF&O documentation.

- Centralized size reduction or decontamination of materials and staging of recovered materials in support of recycling and/or reuse, as well as recycling in compliance with ARARs.

8.2 SUMMARY OF ACTION-SPECIFIC ARARS/TBCS FOR EACH ALTERNATIVE

Action-specific ARARs/TBCs include operation, performance, and design requirements or limitations based on the waste types, media, and removal/remedial activities.

8.2.1 Alternative 1

Pursuant to EPA guidance, there are no ARARs/TBCs for a no-action alternative (EPA 1991).

8.2.2 Alternative 2

The action-specific ARARs and TBCs identified in Appendix F address design, construction, operation, capping, and post-operations care for the potential on-Site disposal alternative. Alternative 2 would be completed in compliance with the substantive portions of all design, construction, operation, capping, and post-operation care ARARs. These ARARs include landfill design and operation requirements under the federal TSCA for chemical waste disposal facilities; federal and state requirements under Subtitle C of RCRA, as amended, for hazardous waste disposal facilities; DOE Manual 435.1-1 requirements for LLW disposal facilities; state requirements under *OAC* 3745-27 for solid waste landfills; and federal and state Clean Air Act of 1970 (CAA) requirements for ACM disposal facilities.

The ARARs applicable to the disposal of wastes in an on-Site disposal facility include the requirements for a RCRA hazardous waste landfill (40 *CFR* 244 and *OAC* 3745-57) and a TSCA chemical waste landfill in 40 *CFR* 761.75. Further, the TSCA-related ARARs for chemical waste landfill design requirements generally follow the RCRA landfill design requirements. The TSCA ARARs, however, specify that if a synthetic liner is used, it must have a minimum thickness of 30 mil. In addition, they specify that the bottom of the liner must be located 50 ft above the historical high groundwater mark and must prohibit any hydrologic connection between the waste and any surface water (40 *CFR* 761.75[b][3]).

All primary wastes (concrete, PGE, asbestos, other building waste, and soil [RC-1]) and secondary wastes (such as contaminated PPE, decontamination wastes) generated during facility construction and operation activities must be appropriately characterized and managed in accordance with RCRA, TSCA, DOE Orders, CAA, or other requirements as specified in the ARARs/TBCs (Appendix F). Hazardous waste determinations would be based on available process knowledge and/or sampling/analysis results.

Wastewater generated at a potential OSDC is assumed to be treated on Site for constituents expected to be present in leachate, contaminated storm water, and other wastewater generated. If effluent is discharged via the existing NPDES permitted outfall, effluent would be discharged and monitored in accordance with the existing NPDES permit. If the existing NPDES permit needs to be modified, DOE would seek modification from Ohio EPA. If effluent is discharged to surface water via a new outfall (not associated with the existing NPDES permit), it would be discharged compliant with substantive ARAR requirements and limits would be submitted to Ohio EPA for approval or concurrence, as applicable, to ensure applicable limits found in permitting rules are established. It is assumed that the wastewater treatment system would emit less than 10 lb per day of air contaminants in compliance with the de minimis emission limits of *OAC* 3745-15-05(B).

It is anticipated that most treatment to meet the WAC, as deemed necessary, would be the decided by the project decision documents generating the waste, even if it takes place within a potential OSDC boundary. The exception would be the use of centralized size reduction and decontamination facilities that may be used across several waste-generating projects, as described in Section 7, to either support compliance with WAC or to support recycling and/or reuse. These centralized size reduction and decontamination facilities and associated ARARs are included in this alternative. A potential OSDC would be responsible for any necessary treatment and/or off-Site transport of secondary wastes it generates during facility operations that could not meet the WAC for on-Site disposal.

To remove the disincentives to cleanup that the application of stringent RCRA LDRs and treatment standards to remediation wastes can impose, EPA has promulgated rules establishing CAMUs under RCRA to facilitate treatment, storage, and disposal of hazardous remediation wastes. These rules establish minimum design and operating standards for CAMUs and minimum treatment standards for wastes placed in CAMUs (CAMU-eligible wastes) in place of meeting LDRs. The rules also allow for mixing and blending of wastes in staging piles, and similar physical operations intended to prepare waste for subsequent management and treatment, and have a provision allowing off-Site placement of CAMU-eligible waste in hazardous waste landfills.

DOE is anticipating pursuing a CAMU designation for CAMU eligible wastes via future Ohio Consent Decree document(s). The CAMU designation offers the opportunity to pursue adjusted treatment levels for principal hazardous constituents subject to Ohio EPA Director's approval based on certain criteria, including but not limited to the long-term protection offered by the engineering design of a potential OSDC. The Ohio Consent Decree document(s) would serve as the mechanism for Ohio EPA to approve of the list of principal hazardous constituents and corresponding adjusted treatment levels. These adjusted treatment levels would be used for the residual soils (RC-1, EC-1), deferred unit soils (RC-2, EC-1), and the soils excavated for use as fill from PORTS existing landfills (RC-3, EC-1) and selected groundwater contamination areas (RC-2, EC-1). The decisions resulting from Ohio EPA approval of these Ohio Consent Decree documents would be used in other relevant DFF&O post-ROD design documents developed to support excavation or disposal of residual soils generated under the DFF&O.

Only the substantive requirements of the ARARs/TBCs would apply to that portion of the activities conducted entirely on Site under this alternative. All wastes transferred off Site or transported in commerce along public rights-of-way must meet all applicable federal and state requirements. These requirements include packaging, labeling, marking, manifesting, and placarding for hazardous materials in accordance with 49 *CFR* 170-180 *et seq*.

While Alternative 2 has been conceptualized to be in compliance with all action-specific ARARs, there are several location-specific ARARs that only apply if a potential OSDC is built. These location-specific ARARs are associated with siting a potential OSDC. Compliance with these ARARs is discussed in Section 9, where the alternatives are evaluated, but consideration of these ARARs was necessary when developing Alternative 2. Pursuant to the RI/FS SOW of the DFF&O, "if an OSDC is evaluated as a possible remedial alternative under the Site-wide Waste Disposition Evaluation Project, Respondent shall evaluate at least one alternative or sub-alternative that is fully ARARs compliant, with no ARARs waived." DOE evaluated four locations for constructing a potential OSDC (Appendix D). Complying with siting ARARs was a significant consideration in the siting study. Study Area D is the best balance of protective geology and minimal impact to sensitive resources and has been retained as the representative process option location for Alternative 2.

As explained in more detail in the compliance with ARARs evaluation criteria for Alternative 2, there was no room to place a potential OSDC in Study Area D with a volume of 5 million cy and not trigger a need for a waiver. The presence of a nearby stream means that a waiver is needed where it is currently located, but moving the cell would invoke the need to waive other requirements of *OAC* 3745-27-07. The only option left for a potential OSDC at Study Area D to be completely ARAR compliant, requiring no waivers, would be to shrink the size of the cell to just over 1 million cy. Use of just two or three currently designed cells (cells 2, 3, and maybe 6) may allow compliance with all ARARs, but the cell size would be such that only 200,000 to 400,000 cy of waste could be disposed, assuming a 2 to 1 EC-1/EC-2 ratio. The rest would need to be sent off Site, making Alternative 2 roughly the same cost as Alternative 3.

There were no other locations identified that had suitable available land and geology that could meet all ARARs for a 5 million cy cell. Study Areas A and B would require a waiver from federal TSCA requirements to have a separation of 50 ft from the uppermost aquifer to the bottom of the waste to construct an OSDC with a capacity of 5 million cy. Alternatively, 6 million cy of compactable fill at $150 million dollars would need to be used to artificially raise the base of the disposed waste an additional 20 to 30 ft to be above the 50-ft aquifer separation requirements. (This effort would be required at any location at PORTS where the water table is close to the ground surface.) However, even with the compactable fill addition to meet the aquifer separation requirement, Study Area B would continue to require a waiver from the *OAC* 3745-27-07 requirement that the waste not be within 200 ft from a wetland. The unconsolidated sand and gravel geology under both Study Areas A and B is more permeable and therefore much less suitable for waste disposal compared to the bedrock locations (Study Areas C and D), resulting in the need for a much more restrictive WAC to be protective. With a more restrictive WAC, considerably more waste would need to be sent off Site for disposal. Study Area C would require a waiver from the *OAC* 3745-27-07 requirement that the waste not be within 1,000 ft of a residence whose owner has not consented in writing to its location. Study Area C also had a limited capacity that would be allowed for the disposal of PCB waste because of the small area that is 50 ft above the uppermost aquifer. Construction at Study Area C would therefore require a major change in the operation of D&D to segregate PCB waste for off-Site disposal from other on-Site eligible waste.

An alternative (or sub-alternative) of a 5 million cy cell could not be developed at Study Area B, C, or D without some type of a waiver. An alternative that met all waivers could have been developed at Study Areas B, C, and D, but only if the cell had a fraction of the existing capacity, meaning most of the waste would need to be disposed off Site. The only way a large cell could be developed at Study Area A without a waiver would be to bring in millions of cy of compactable fill to raise the bottom of the waste 50 ft above the water table and to accept a much more restrictive WAC. These alternatives provide no advantage over Alternative 3 and are cost-prohibitive. Alternatives with much smaller on-Site disposal capacity or alternatives relying on millions of cy of excess fill and more restrictive WAC were eliminated from further consideration. Therefore, only one on-Site alternative was evaluated, one with a 5-million cy cell placed at Study Area D, which would require one ARAR waiver. In the event that additional waivers are deemed necessary after the ROD is issued, a modification to the ROD would be required. DOE is not aware of the need for any additional waivers at this time.

8.2.3 Alternative 3

The off-Site disposal alternative consists of shipping and disposing of all anticipated D&D waste (RC-1) at appropriately licensed and permitted off-Site disposal facilities or recycling and/or reuse. Waste may be treated at a centralized treatment facility, would be packaged in appropriate containers, and would be shipped either by rail or truck, as appropriate.

Those portions of Alternative 3 conducted on Site would be required to meet the substantive requirements of the ARARs/TBCs identified in Appendix F. Those portions of Alternative 3 conducted off Site would be required to comply with all applicable federal, state, and local requirements. These applicable requirements would include packaging, labeling, marking, manifesting, and placarding for hazardous materials in accordance with 49 *CFR* 170-180 *et seq.*

In addition, CERCLA Section 121(d)(3) provides that any hazardous substance, pollutant, or contaminant generated during response actions and transferred off Site must be sent to a treatment, storage, or disposal facility that complies with applicable federal and state laws and has been approved by EPA for acceptance of CERCLA waste (see also the "Off-Site Rule" at 40 *CFR* 300.440 *et seq.*). Accordingly, DOE would verify with the appropriate EPA regional contact that any off-Site facility meets the aforementioned requirements before transfer.

8.3 DETAILED DESCRIPTION OF ALTERNATIVES

This section provides detailed descriptions of the no-action alternative and on- and off-Site disposal alternatives for the waste streams identified in Section 4. For the sole purpose of supporting a detailed comparative analysis of the alternatives, a conceptual implementation approach has been developed for each action alternative and presented in Section 8.3. The conceptual implementation approach includes a number of assumptions, including the size and configuration of a potential OSDC, to support the detailed analysis of alternatives.

For the action alternatives, costs associated with the D&D of facilities; removal of waste during cleanup actions; waste characterization and certification; waste segregation; treatment as necessary to meet on- or off-Site disposal facility WAC; and waste packaging for on- or off-Site disposal are not included in the estimates.

DOE is committed to the recycling and/or reuse of materials generated through the D&D of the GDP facilities, irrespective of which remedial action alternative is selected. A commitment to recycling and/or reuse is therefore a component of the description of each of the remedial action alternatives. DOE would evaluate the individual material and regulatory waste types throughout the implementation of the D&D process, and recycle and/or reuse materials as appropriate. For purposes of evaluating remedial action alternatives, this RI/FS assumes that the same amount of materials would be recycled under both action alternatives and therefore it is not a discriminating factor in the comparative analysis presented in Section 9.3. On this basis, a consistent set of assumptions has been made in regard to the recycle and/or reuse of materials and included in both of the two action-based remedial alternatives.

8.3.1 Description of Alternative 1

The no-action alternative is considered in accordance with DFF&O and NEPA requirements to provide a baseline for comparison with other alternatives. No institutional controls, no demolition, and no waste disposal occur under this alternative. There are no components or elements to describe.

8.3.2 Description of Alternative 2

The following GRAs and process options that were identified as representative process options in Section 7 have been used to describe Alternative 2:

- Institutional Controls on a potential OSDC
  - Physical barriers/security
  - Covenants and deed restrictions
  - S&M
  - Environmental monitoring.

- Centralized Treatment
  - Size and void reduction
  - Decontamination
  - New treatment plant (for secondary wastewater treatment).

- On-Site Disposal
    - Engineered disposal cell (for new on-Site disposal facilities)
    - On-PORTS fill.

- Off-Site Disposal
    - DOE off-Site facility
    - Permitted commercial facilities.

- Recycle and/or Reuse

- Waste Transportation
    - Truck
    - Train.

Alternative 2 includes the consolidated disposal of generated D&D waste (RC-1) in a newly constructed, engineered waste disposal facility (a potential OSDC) at PORTS. Candidate wastes would include construction and demolition debris, solid waste, LLW, RCRA waste, TSCA waste, and mixed wastes consisting of combinations of these regulatory waste types that meet the facility's WAC, which are presented in Section 7.5. Wastes not meeting potential OSDC WAC would be transported to off-Site disposal facilities or, if feasible, treated to attain the WAC for the on-Site or off-Site disposal facility. Additionally, under Alternative 2, a volume of D&D-generated material would be recycled and/or reused. Liquid wastes, TRU wastes, and high-level waste or spent nuclear fuel are not considered to be candidate waste streams for a potential OSDC.

8.3.2.1 D&D waste (RC-1) volume

The design capacity of the cell is based on the waste generation volumes established in Section 4.1. D&D waste volumes (RC-1, EC-1 and EC-2) that were used to calculate the volume and are used throughout this discussion are shown in Table 8.1. Also shown are the appropriate fill volumes needed and additional waste (EC-2) and fill volumes that result from selecting contaminated areas as the source of fill (RC-2, RC-3). The waste forms are described in a manner that supports handling decisions at a disposal facility. Soil (EC-1) is packaged and disposed differently from non-soil waste (EC-2). These waste form descriptions are used throughout this section to describe how waste is handled at a potential OSDC. The volumes in the table are in situ volumes. The waste volume capacity of a potential OSDC accounts for fill volumes used for proper disposal of waste with void spaces and for daily cover. The conceptual design capacity is also based on maximizing the efficiency of land use by considering topographic and hydrogeologic features of the disposal location.

Table 8.1. Waste Disposition Volumes Used to Determine Cell Capacity

D&D Waste (RC-1) Forms and OSDC Fill (RC-2, RC-3) Description	In Situ Volume (cy)	Disposed Volume in OSDC in Alternative 2 (cy)	Disposed Off Site in Alternative 2 (cy)
Residual Soil (RC-1, EC-1)	53,000	53,000	0
Asbestos, concrete, and other building waste (RC-1, EC-2)	1,032,000	966,000	66,000
PGE (RC-1, EC-2)	272,000	112,000[a] (in situ 219,000)	41,000[a] (in situ 53,000)
Targeted Recyclables	110,000	0	110,000
Total D&D Waste (RC-1) and Recyclables	**1,467,000**	**1,131,000**	**217,000**
Non-D&D Landfill waste requiring fill (as a result of using area as OSDC fill source-RC-3, EC-2)	227,000	223,000	4,000
Total D&D and Fill Waste (RC-1, RC-3, EC-2)	**NA**	**1,301,000** (does not include 53,000 cy of D&D residual soil)	**221,000**
OSDC Fill[b] (RC-1, RC-2, RC-3, EC-1) required to achieve 2:1 ratio	NA	2,602,000	NA
Total OSDC minimum capacity	NA	3,903,000	NA

[a] Much of the PGE is segmented, resulting in a volume reduction for disposal.
[b] Assumed fill sources include landfills inside Perimeter Road (RC-3), contaminated soil from contaminated groundwater plumes (RC-2), and contaminated soil from RCRA deferred SWMUs (RC-2). Additional authority is required to excavate and dispose of these assumed fill sources.

D&D = decontamination and decommissioning
EC = engineering category
NA = not applicable
OSDC = on-Site disposal cell
PGE = process gas equipment
RC = regulatory category
RCRA = Resource Conservation and Recovery Act of 1976, as amended
SWMU = solid waste management unit

Table 8.2 presents the regulatory waste types along with the disposal location for waste generated under the DFF&O (RC-1). These volumes do not include the 110,000 cy of recycled material. These waste types are used to determine where a waste can be disposed and whether or not treatment is required to meet the WAC. Additionally, it was assumed that all hazardous waste that is generated from the D&D of buildings (except residual soil-RC-1, EC-1) would be taken off Site and any treatment required to meet LDRs would occur at the off-Site facility. However, the LLW/TSCA chemical waste and other waste taken off Site is a representative volume of waste that is either generated before a potential OSDC is operational or might exceed the WAC at a potential OSDC.

Table 8.2. Regulatory Type of D&D Waste (RC-1) Disposed, Alternative 2

Type of D&D Waste (RC-1) Disposed	Estimated On-Site Volume[a] (cy)	Estimated Off-Site Volume[a] (cy)
RCRA Hazardous-CAMU ineligible	0	400
RCRA Hazardous-CAMU eligible	53,000	0
TSCA	0	0
C&DD	17,500	14,500
Solid	6,700	3,500
LLW/RCRA Hazardous-CAMU ineligible	0	100

Table 8.2. Regulatory Type of D&D Waste (RC-1) Disposed, Alternative 2 (Continued)

Type of D&D Waste (RC-1) Disposed	Estimated On-Site Volume[a] (cy)	Estimated Off-Site Volume[a] (cy)
LLW/RCRA Hazardous-CAMU eligible	0	0
LLW/TSCA	33,000	4,000
LLW/C&DD	765,500	21,300
LLW/Solid	363,000	74,500

[a] Volume assumptions regarding CAMU-eligible and CAMU-ineligible wastes were made for the purpose of evaluating alternatives. DOE has not proposed a CAMU yet and, therefore, no determinations have been made regarding what waste is or is not CAMU eligible. DOE may need to revise these estimates in the future.

C&DD = construction and demolition debris
CAMU = Corrective Action Management Unit
D&D = decontamination and decommissioning
DOE = U.S. Department of Energy
LLW = low-level (radioactive) waste
RC = regulatory category
RCRA = Resource Conservation and Recovery Act of 1976, as amended
TSCA = Toxic Substances Control Act of 1976

Only two of the assumptions used in determining on and off-Site volumes would be commitments if Alternative 2 is selected. The first is that converters and compressors from X-326 would be sent off Site for disposal. The second is that any waste that exceeds the WAC prior to disposal would be sent off Site for disposal.

The major elements of Alternative 2 are the following:

- A potential OSDC design (Section 8.3.2.1.1)
- Pre-design studies (Section 8.3.2.1.2)
- Site preparation and potential OSDC construction (Section 8.3.2.1.3)
- WAC (Section 8.3.2.1.4)
- Potential OSDC operations (centralized treatment, staging, waste disposal, and wastewater collection and treatment) (Section 8.3.2.1.5)
- Fill operations (Section 8.3.2.1.6)
- Potential OSDC capping and support facility dismantlement (Section 8.3.2.1.7)
- Post-operations S&M (Section 8.3.2.1.8)
- Off-Site disposal (Section 8.3.2.1.9)
- Recycling and/or reuse (Section 8.3.2.1.10).

8.3.2.1.1 Potential OSDC design

A potential OSDC would consist of an engineered disposal cell that meets the requirements of ARARs/TBCs in Appendix F, including requirements related to disposal of RCRA hazardous wastes, TSCA wastes, and LLW. A potential OSDC design would include sufficient capacity to accept the anticipated waste to be generated from the D&D of PORTS (RC-1). The design basis for a potential OSDC attains all ARARs/TBCs and incorporates the following:

- Effective protection of human health and the environment through waste isolation for 1,000 years

- Protection against animal and plant intrusion, and minimization of the potential for human intrusion

- Reduction of potential for incremental and total settlement, and slope failure under static and seismic conditions through proper design and waste placement techniques.

A potential OSDC design is the result of an iterative process involving development and review of the cell design in conjunction with evaluation of the candidate waste streams and facility WAC development, which results in a facility that meets the performance objectives established in DOE Order 435.1. This process involves demonstrating that a cell design is protective of a hypothetical receptor. Three elements of disposal facility design are critical to ensuring adequate long-term protection of human health and the environment: (1) design of the cell's waste containment features, (2) location of the cell, and (3) characteristics of the waste placed in the disposal cell.

The major components of this design include the multi-layer base liner, the permanent cap, leachate collection and treatment system, and support facilities. Appendix J contains the plan view drawings and cross sections for the conceptual design for a potential OSDC that are used solely to support an evaluation of the alternatives.

Multi-layer Base Liner System

The purpose of this system is to prevent leachate from migrating out of the disposal unit. A compacted clay liner with a double geocomposite liner system is proposed, along with two low-permeability liners, a leachate collection and removal system, and a leak detection system. The top (primary) liner would be "constructed of materials (e.g., a geomembrane) to prevent the migration of hazardous constituents into the secondary liner for the active life and post-closure care period." The lower (secondary) component of the composite bottom liner would be designed and constructed using materials to minimize the migration of hazardous constituents if a breach in the compacted clay liner were to occur. The leachate collection system would be designed, assembled, and installed to be fully functional while the leak detection system would be capable of detecting leachate movement through the primary liner in excess of the action leakage rate. The base liner proposed for the conceptual design includes the following layers, from the cell base up:

- <u>Compacted clay liner</u>: A 3-ft-thick, low-permeability clay layer would be placed above the cut elevation (stable soil or bedrock) and have a hydraulic conductivity $\leq 1\times10^{-7}$ cm/s.

- <u>Secondary liner</u>: A geosynthetic clay liner (GCL) and flexible membrane liner (FML) would be installed. The FML would be a man-made geosynthetic barrier composed of materials compatible with the waste and resistant to degradation by the chemical constituents expected to be present in the leachate. A typical GCL consists of sodium bentonite encapsulated between two geotextiles. The GCL, which is less than 1 in. thick, typically has a hydraulic conductivity on the order of 5×10^{-9} cm/s.

- <u>Leak detection system drainage layer</u>: This is a 1-ft gravel leak detection layer sandwiched between two geotextile layers on the cell floor. This layer would be graded to drain toward detection piping. At each location where the leak detection piping penetrates a layer of the primary and secondary liner, an antiseep collar would be installed to prevent development of a preferential flow pathway. The detection piping would be connected to a separate detection sump in the leachate collection and transfer facility downgradient of the disposal cell. Little or no leachate is expected to be captured by this system during the operations or post-operations period.

- Primary liner: The primary liner would retard leachate migration out of the disposal cell and direct leachate into the primary leachate collection layer. The conceptual design includes an FML and a low-permeability GCL.

- Leachate collection system drainage layer: The primary leachate collection system drainage layer consists of a 1-ft-thick gravel layer on top of the primary liner. The leachate collection system drainage layer is sandwiched between two layers of geotextile on the cell floor and would collect significant volumes of leachate draining through the waste mass during operations and before placement of the cap, and small volumes of leachate during the post-operations period. The geotextile layers would cushion and protect the primary liner and retard infiltration of fines from the overlying soil and waste into the gravel, which would prolong the functional life of the leachate recovery system. Perforated leachate collection pipes would be placed at the base in the gravel drainage layer and collect leachate in a central line that gravity flows out of the cell to a collection sump in the leachate collection and transfer facility. The primary leachate collection system would be designed with perforated collection piping and antiseep collars similar to those in the leak detection system drainage layer. Man-made materials would be selected for compatibility with the expected leachate chemistry.

- One-ft protective soil layer: A protective soil layer at least 1 ft thick would be placed over the upper leachate collection system geotextile to prevent damage to the underlying layers during operations.

Figure 8.1 shows a typical cross section of a potential hazardous waste landfill liner system with the various layers that form a portion of the waste containment system.

The final cover would be designed and constructed to do the following:

- Minimize migration of liquids into the closed disposal cell over the long term

- Promote drainage and minimize erosion or abrasion of the cover

- Accommodate settling and subsidence to maintain the cover’s integrity

- Provide a permeability less than or equal to the permeability of any bottom-liner system or natural subsoils present

- Resist intrusion of humans, plants, and animals

- Minimize future maintenance.

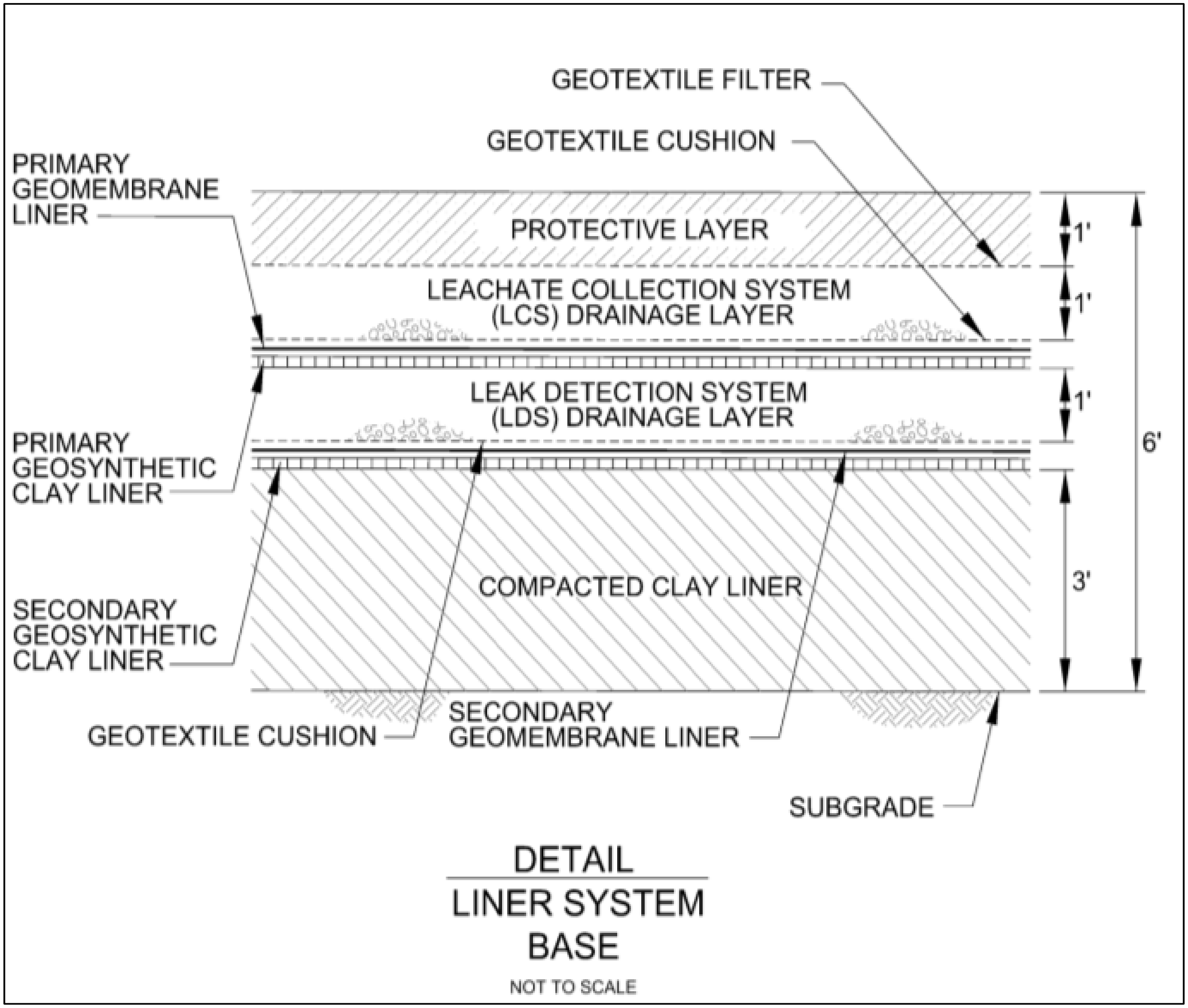


Figure 8.1. Typical Section View – Landfill Base Liner System Details for Alternative 2

Final Cover System

The cover would be sloped to facilitate runoff and would be placed over the waste and into the perimeter of the disposal cells. The conceptual design developed for alternative evaluation for the nominal 10-ft-thick cover consists of the following elements, from the top of the waste to the top of the cap:

- Soil contour layer: Following the placement of waste to final grade in any area, a soil contour layer would be placed over the waste to reduce infiltration and contain the waste before capping. The soil contour layer would include a 1-ft minimum clay contour soil layer to provide an intermediate uniform layer between the wastes and the final cover. This cover would bring the disposal cell to final grade in preparation for cover placement, reduce infiltration, and protect the permanent cover layer from settlement within the waste cell. With proper maintenance of the soil contour layer, this temporary cover would reduce infiltration sufficiently, pending installation of the other cap components.

- Secondary hydraulic barrier: During final capping, a 2-ft-thick, low-permeability clay layer would be placed above the soil contour layer. This layer is considered to be the secondary hydraulic barrier and would be similar in design to the low-permeability clay layer of the secondary base liner.

- Primary hydraulic barrier: A GCL and FML would be installed above the low-permeability soil layer. The GCL would serve as an additional low-permeability layer and would prevent infiltration. A thin geotextile cushion would be placed above the GCL.

- Drainage layer: Above the FML would be a 1-ft gravel drainage layer sandwiched between two layers of geotextile. The upper geotextile would minimize clogging of the drainage layer, and the lower geotextile would protect the FML from puncture.

- Biointrusion barrier: A 3-ft biointrusion barrier would prevent burrowing animals and plant root systems from penetrating the cover system and would also discourage inadvertent human intrusion by increasing the difficulty of digging or drilling into the cell. This layer would be constructed of cobbles (large, rounded stones) and would facilitate infiltration of water into the drainage layer. A 6-in., graded, natural filter (a granular layer) sandwiched between two layers of geotextile would overlie the biointrusion layer to prevent clogging of the porous layer with overlying soil.

- Vegetative soil layer: A 2-ft vegetated soil layer over the filter layer (at a 2 to 2.5 percent grade on top of the cap) would provide conditions that support a vegetative cover to reduce erosion. A 6-in.-thick layer of topsoil would provide for permanent vegetation on top of the cap. To eliminate erosion until the permanent vegetation is established, an erosion mat would be installed to protect the other cover layers from the effects of wind and water erosion. This layer would accommodate the typical root systems of planted and native vegetation. This layer, the drainage layer, and the biointrusion layer together would be much thicker than the local frost depth, preventing frost damage to the FML and the low-permeability soil layer.

Figure 8.2 shows a typical cross section of a potential hazardous waste landfill cover system with the various layers that form a portion of the waste containment system.

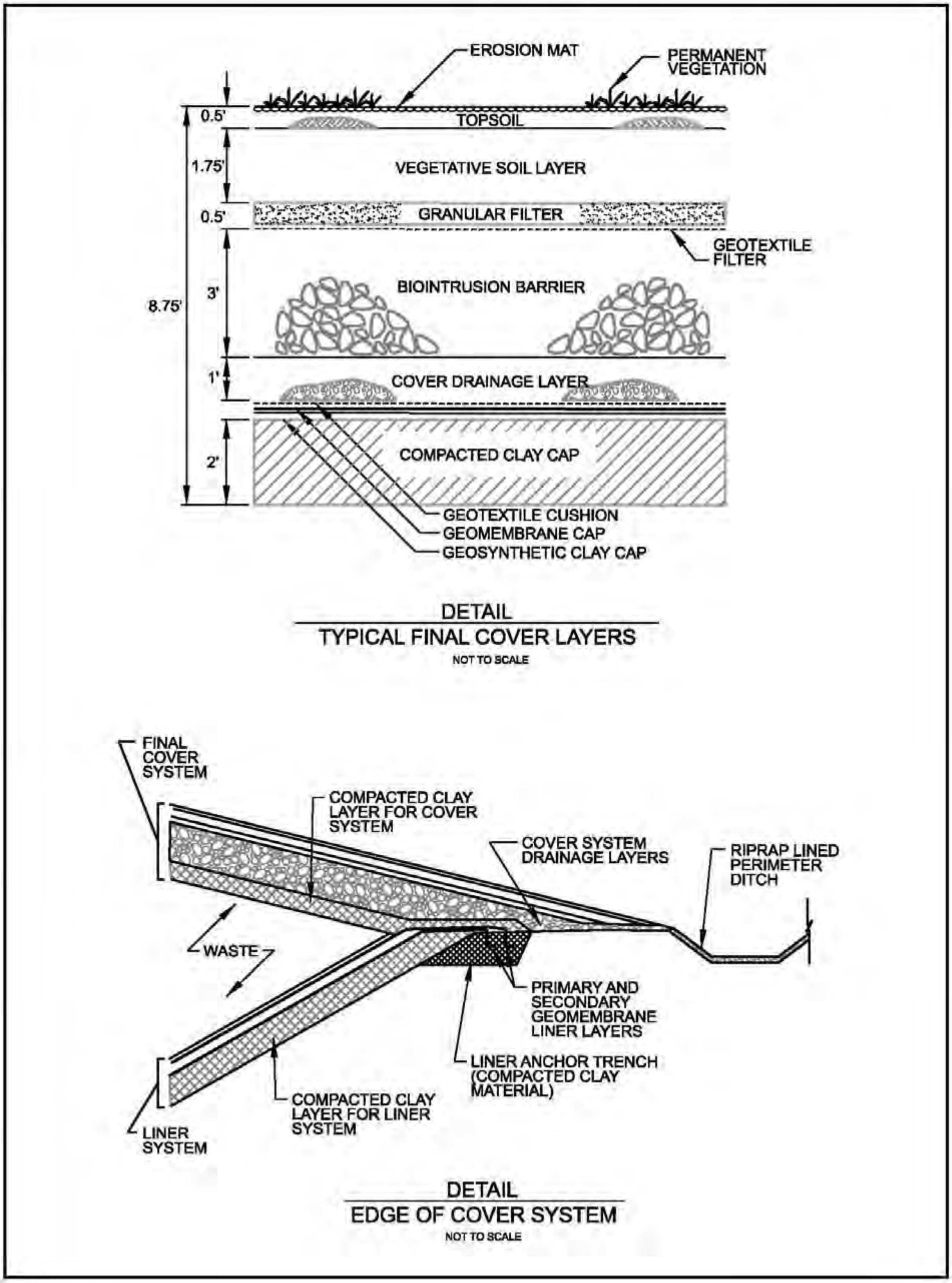


Figure 8.2. Typical Section View – Landfill Final Cover System for Alternative 2

Water Collection Systems and Leachate Treatment Systems

The leachate collection system and leak detection system drainage layers located in the base-liner would gravity drain to a sump/vault system located just outside each waste cell. Each sump/vault would have valve piping controls to control gravity leachate flow to an on-Site leachate lift station pump system.

Liquid-sensing detection equipment in the sump/vault connected to the secondary leak detection system would provide monitoring of the action leakage rate, which is an indicator of whether the primary liner is intact and not leaking in excess of the action leakage rate (to be set during design). Liquid detectors connected to the leachate collection and leak detection systems would monitor collected leachate levels. Valve controls would allow leachate to be released by gravity, drain to the lift station pump system, and be pumped to the interim leachate treatment system (in operation during waste disposal).

Nonimpacted storm water draining from construction access roads and other nonwaste handling facilities would drain along drainage swales, enter surface water conveyance ditches, enter sedimentation ponds, and ultimately be released to surface water bodies. Impacted storm water (water potentially impacted as a result of waste handling activities, called contact water) from the waste haul road and inside the disposal cells would gravity flow or be pumped into a series of modular tanks strategically placed to take advantage of the existing topography. These tanks would temporarily hold the storm water to allow suspended particulates to settle. After settling, temporary pumps and lines would be used to pump water from these facilities to the interim leachate treatment system, if treatment is needed. The capacity to treat this water would exist, but alternatively, the water in these tanks could be discharged if sampling and analysis determines it to be acceptable for release.

The interim leachate treatment system assumed for alternative evaluation would include chemical precipitation, ion exchange, and carbon absorption to handle the constituents expected in the wastewater. The interim system would treat contact water and leachate during potential OSDC operations. During potential OSDC capping, the interim system would be replaced by a permanent leachate treatment system consisting of a fixed treatment system sized to handle the expected post-operations leachate generation rate. Leachate would be monitored to confirm effectiveness of each of the collection and treatment systems. Modifications to the system would be made if required to ensure protectiveness.

The permanent leachate treatment system would be designed to treat constituents expected to be in the leachate that would be generated continuously after the post-operations period. This system would be a fixed-in-place, active system with processes similar to those of the interim system. It would operate as long as notable leachate is generated. For the purposes of the FS cost estimate, this operating period is assumed to be 30 years.

As the leachate generation rate stabilizes to an expected low level, the permanent leachate treatment system would be replaced by a passive treatment system. The new system would be designed to passively treat leachate prior to discharging it to surface water by gravity flow. This passive system would be installed during potential OSDC capping. It would only become operational when the permanent leachate treatment system is dismantled, and the leachate conveyance system is altered to direct leachate through the passive treatment media. The passive treatment system would consist of reactive barrier material in a tank system to which leachate is gravity-fed, allowing sufficient residence time to remove contaminants from the leachate and ultimately release the treated water to a nearby surface water body. Such a system would require little, if any, direct management.

Support Facilities

A support area and an exclusion area would be established within the fenced control area of the on-Site disposal facility. The conceptual design developed to support the alternative evaluation for the support area includes an office area, an employee and visitor parking area, and a guard station at the main gate. An employee facility would connect the exclusion area to the support area and would include personnel showers, restrooms, monitoring and decontamination equipment, and a break area. Water from showers and toilet facilities would go to a collection tank for disposal at a wastewater treatment plant.

Waste operations would be conducted in the exclusion area, which would be assumed to be contaminated during operations. Any personnel, equipment, vehicles, or containers leaving the exclusion area would be monitored and, if necessary, decontaminated. Clothing worn in the exclusion area would be washed or packaged for disposal. An enclosed decontamination facility with a collection sump, pump, and high-pressure water spray equipment would be available to inspect and decontaminate vehicles, equipment, and containers, as necessary. Decontamination water collected in the sump would be pumped to the on-Site interim leachate treatment system and be discharged when discharge limits are met. An equipment storage, maintenance, and fueling area would be constructed in the exclusion area for use during operations.

A waste staging area, called the impacted material transfer area (IMTA), inside the exclusion area would serve as a temporary storage area for incoming waste. This area would be used if the rate of incoming waste deliveries exceeds the rate of waste placement in the disposal facility, as could occur during inclement weather. It would also be used to stockpile waste to allow the most economical placement of waste requiring fill (EC-2) and waste that can be used as fill. The IMTA is assumed to be constructed of the following: 2-ft compacted base followed by a geotextile cushion, 80-mil geomembrane liner, geonet, geotextile fabric, and finally a 1-ft soil protective layer graded to drain. The 7-acre IMTA would be graded so water would flow by gravity to a sump pump system. The collected impacted water would be pumped to the interim leachate treatment system and be discharged when discharge limits are met.

A haul road would be constructed from the OSDC support area adjacent to the IMTA to the North Access Road and eventually to Perimeter Road. An overpass over Fog Road is currently planned. It is anticipated that waste trucks would cross Perimeter Road and use plant roads to access the areas of waste generation. No trucks are anticipated to be on any roads with public access.

Existing groundwater monitoring wells would be used to monitor the quality of the underlying groundwater, where possible. Additional groundwater monitoring wells would be installed as needed. Air monitoring equipment would be installed for use during construction and operations.

8.3.2.1.2 Pre-design studies

Pre-design studies would be implemented to provide data necessary to support the basis of design for a potential OSDC at PORTS. These data are anticipated to be generated from a series of field and laboratory studies focused on the following: (1) physical and chemical characteristics of projected wastes, (2) natural and man-made materials used for facility construction, (3) compatibility of leachate with the man-made materials, (4) subsurface conditions of a location for a potential OSDC, (5) clay liner construction approach, (6) waste placement and compaction approach, and (7) visual impact survey. These studies, implemented under formal SAPs or by project consensus, are intended to establish design parameters and technical specifications that achieve the stated performance requirements for a potential OSDC and establish field construction QC parameters. A summary of potential studies follows.

Physical and Chemical Characteristics of Projected Waste

To understand the chemical characteristics of the waste generated under the D&D of PORTS, both intrusive and nonintrusive samples are being collected for analysis of VOCs, SVOCs, PCBs, metals, and radionuclides, as appropriate. Nonintrusive characterization using NDA is also occurring to validate process knowledge assumptions regarding the distribution of radioactive and chemical (nonradioactive) hazardous constituents held up within the process gas system of the former gaseous diffusion process equipment.

Natural and Man-made Materials Used for Facility Construction

Local sources of natural materials, including clay and rock, would be tested in the laboratory to determine whether the properties of these materials meet the minimum technical guidelines established in federal and state regulations for landfill facility design. A Construction Materials Source Evaluation Work Plan would be developed to provide details of this program. Only those materials meeting the minimum technical guidelines would be used for construction.

Additionally, natural and man-made materials (including geosynthetic clay liners and geomembranes) would be tested for internal and interface shear strength (as appropriate) to evaluate their characteristics and ensure they are appropriate for use in the disposal facility and that the design parameters are appropriate. This testing program is detailed in the Soil/Geosynthetic Direct Shear Testing Program Work Plan.

Compatibility of Leachate with the Man-made Materials

The expected composition of leachate (e.g., chemical makeup, pH) from the disposal facility would be determined. This anticipated composition will then be used to evaluate its compatibility with geomembrane and geosynthetic clay liner materials. Details of these evaluations would be presented in the Geomembrane-Leachate Compatibility Study and the Geosynthetic Clay Liner-Leachate Compatibility Study.

Subsurface Conditions at a Location for a Potential OSDC

Geological and geotechnical data and information related to detailed subsurface conditions of a preferred location for a potential OSDC must be known in order to incorporate these conditions into the overall design of the facility to ensure protectiveness objectives are met. Test pits into the geologic strata were performed. The test pits provided an indication of the effort required to prepare the location for OSDC construction. Additionally, boreholes into the strata provided soil samples and rock core samples on which geotechnical analyses were performed to establish design parameters. Such analyses include, but are not limited to, classification, moisture content, specific gravity, Atterberg limits, standard Proctor, consolidation, California bearing ratio, and shear strength. These parameters support design parameters and project Technical Specifications for measurements, tolerances, and materials of construction of a potential OSDC.

Clay Liner Construction Approach

A Clay Liner/Cap Test Pad Work Plan was developed and the program has been initiated. Preconstruction samples were collected and sent to the laboratory for analyses. A 3-ft-thick clay liner test pad was constructed using construction equipment and techniques expected to be used during construction of an OSDC. Sealed double-ring infiltrometer tests were performed on two lanes of the test pad. The sealed double-ring infiltrometers have been decommissioned and samples were collected and sent to the laboratory for testing. Laboratory testing of these final samples is ongoing.

Waste Placement and Compaction Approach

Waste placement in a potential OSDC would be performed in a manner such that the waste material would be placed in a soil matrix. This soil matrix is expected to consist primarily of Minford soil. In order to identify potential issues related to placement, testing, or verification of this soil, a test strip of Minford soil was constructed in conjunction with the test pad construction activity. The test strip consisted of placement of a 1-ft-thick lift of soil and then compacting it with various pieces of construction equipment. The results of the test strip would support development of the Impacted Material Placement Plan which provides the waste placement and construction quality control requirements.

Visual Impact Survey

A visual impact survey is underway. The survey illustrates a potential OSDC's resultant visual impact on the surrounding community. Using GIS technology and the proposed height of a potential OSDC, the survey is identifying locations in the surrounding community where the potential OSDC may be visible. Results, when available, would be included in subsequent documents.

8.3.2.1.3 Site preparation and potential OSDC construction

Construction activities for a potential OSDC would include site development, disposal cell base liner construction, construction of support facilities, and capping.

Site development actions would be performed to minimize environmental impacts, as required in the ARARs for site preparation included in Appendix F. Site clearing and grubbing would occur to remove trees and other vegetation to provide sufficient open area for construction. To the extent practical, most clearing would occur during autumn or winter to protect the nests of migratory birds and bats during breeding season. Avoiding clearing during the months of April through September, to the extent practical, would protect against potential impacts to the Indiana bat. (Although Indiana bats have never been found at PORTS, Indiana bat habitat is present at the disposal location.) The footprint for the disposal cell would be prepared, including removal of bedrock (if present), to provide a below-grade bedrock base for the facility and similar side slopes for lateral containment. The material removed from the location is assumed to be stockpiled for cost estimating purposes. One potential location is the X-611B Sludge Lagoon to fill in the lagoon.

Existing gravel roads would be upgraded. New gravel roads would be constructed for the disposal facility (as required). A temporary haul road from the D&D area and access roads for the support facilities would be constructed, and the IMTA would be developed. Detention basins, runoff control ditches, and placement of support facilities, as well as the cell itself, would be considered to prevent run-on and protect streams from construction activities.

Water, electricity, telephone lines, and sanitary waste facilities (septic system or collection tanks) would be established on Site. Temporary fences and gates would be installed to restrict the controlled area of the operation. Additionally, temporary office and change facilities, as well as storage buildings, would be installed as required.

When site preparation activities are complete, construction of the cell would begin. The disposal cell would be constructed in phases consistent with waste generation schedules. In general, it is assumed that only two cells would be constructed at a time. Once operational, construction would begin on the next two cells. When the initial cells are filled and the side slopes are sufficiently stable, a portion of the final cap would be installed with a geosynthetic liner extending out enough to allow for seaming with the adjacent liner. This sequence would continue until the requisite capacity is achieved. Figure 8.3 shows the scheduled sequence of design, construction, operations, and capping actions.

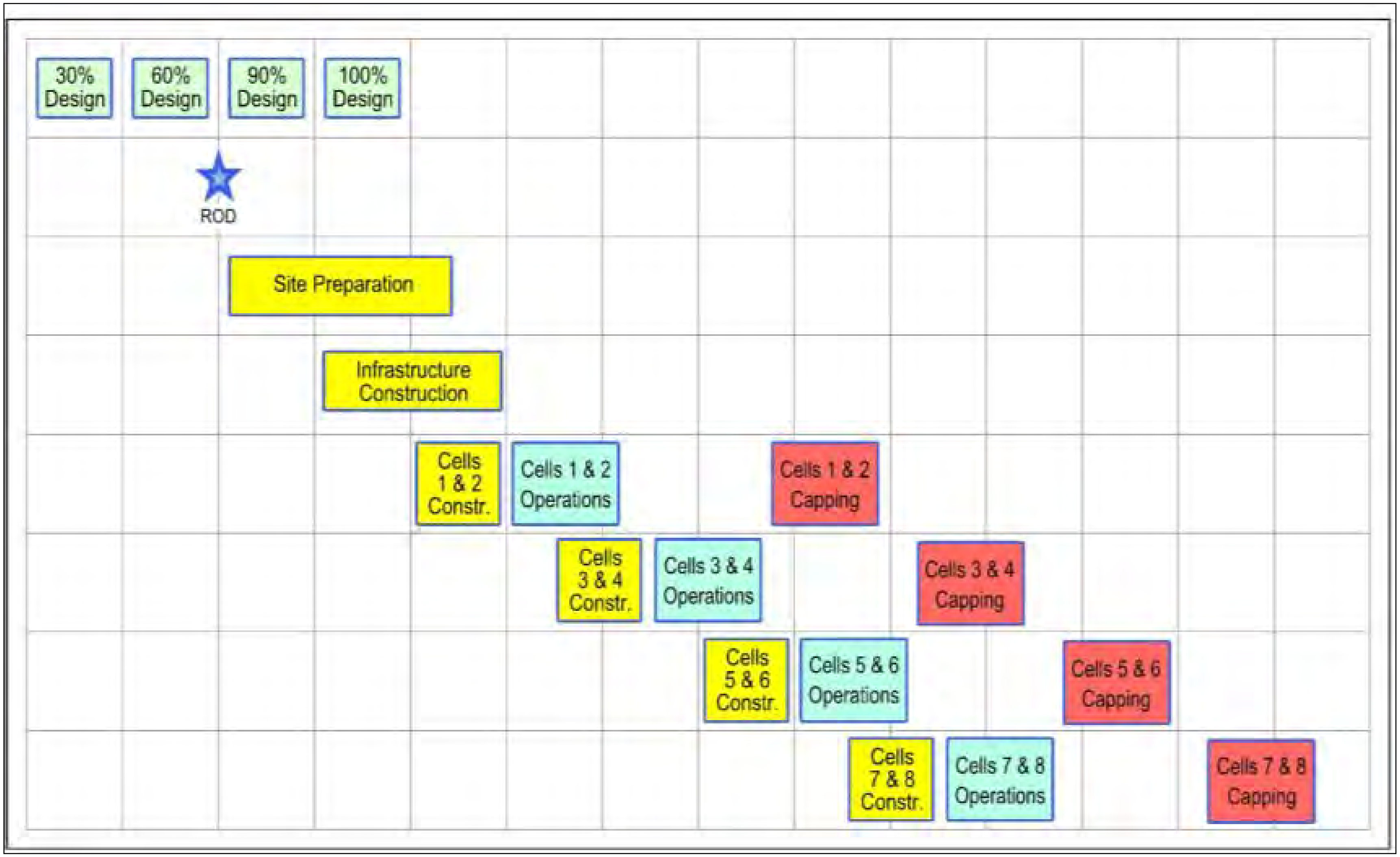


Figure 8.3. Construction/Operation Sequence for a Potential OSDC at PORTS

Initially, materials required for potential OSDC construction would be mobilized. This would include a large volume of clay-rich soil (low permeability clay) from a borrow area in the vicinity of the area for construction of the 3-ft-thick clay liner. Potential locations for obtaining borrow material were evaluated in Pike County and neighboring counties. Testing of clay soil material from off-PORTS borrow areas would be required during subsequent design phases. Excess clay from development of the municipal landfill in Pike County is currently available and could be a suitable choice for use at PORTS if it is available at the time of construction. If needed, this material would likely be processed at the construction location in a soil pug mill to remove rocks, resulting in a uniform and consistent clay soil. The clay would be installed in accordance with the requirements established using a test pad in order to achieve the requisite layer hydraulic conductivity.

Following installation of the clay liner, the other layers of the base liner would be installed. This would include, from bottom up, the primary high density polyethylene (HDPE) liner, leak detection system, secondary HDPE liner, leachate collection system (including a porous granular layer on the cell bottom), and protective soil layer. The leachate collection system, being a gravity flow system, would exit through the cells and connect to a leachate header. The header would convey leachate to the interim leachate treatment system.

Appropriate construction practices would be used in all excavation and construction areas, including the borrow area, to control surface water runoff and minimize erosion and transport of sediment from exposed areas. These measures would include constructing berms to direct the flow of surface water; constructing silt fences to minimize the amount of sediment leaving the area; covering the exposed area with straw, mulch, riprap, or membranes; and using revegetation mats in those areas with high water velocity. Sediment detention basins constructed near the perimeter of the construction area would protect against transport of sediment. Runoff from contaminated areas would be segregated from clean runoff and be collected and treated as necessary.

Based on the location and geological subsurface, it is estimated that roughly 5 million cy of capacity is available for waste plus fill at the representative location, Site D. The current volume estimates for D&D waste (RC-1, EC-2) and associated required fill (RC-2, RC-3, EC-1), plus the additional volume needed for waste requiring fill (RC-3, EC-2) that may be generated when removing fill from contaminated borrow locations, suggest that 3.9 million cy of space is needed in any potential OSDC. This volume assumes 1.08 million cy of D&D waste requiring fill (RC-1, EC-2) is disposed at a potential OSDC from D&D of the GDP plus another 223,000 cy of landfill waste also requiring fill (RC-3, EC-2) that is estimated to be generated in the process of removing materials for fill. Therefore, the total fill requirements are 2.6 million cy, and the total potential OSDC volume needed is 3.9 million cy. The estimate of required fill volume, as stated above, is reduced by 53,000 cy because of the residual soil (RC-1, EC-1) anticipated to be generated during the demolition of slabs and subsurface structures under the Process Buildings and Complex Facilities D&D Evaluation Project. A cell layout of 5 million cy is considered for the purpose of the analysis of alternatives in this RI/FS to account for waste from other actions that might be performed in the future and to ensure sufficient capacity is available if actual waste volumes or required EC-1/EC-2 ratios increase. Figure 8.4 presents a conceptual design layout of a potential OSDC sized for 5 million cy. As shown in the cross sections included in Appendix J, the entire footprint of the cell is located on competent bedrock (Cuyahoga shale). Also included on Figure 8.4 is the conceptualized location of the haul road to bring waste to a potential OSDC from the demolition areas. Most of the new road will be constructed in disturbed areas with a large portion using an upgraded North Access Road.

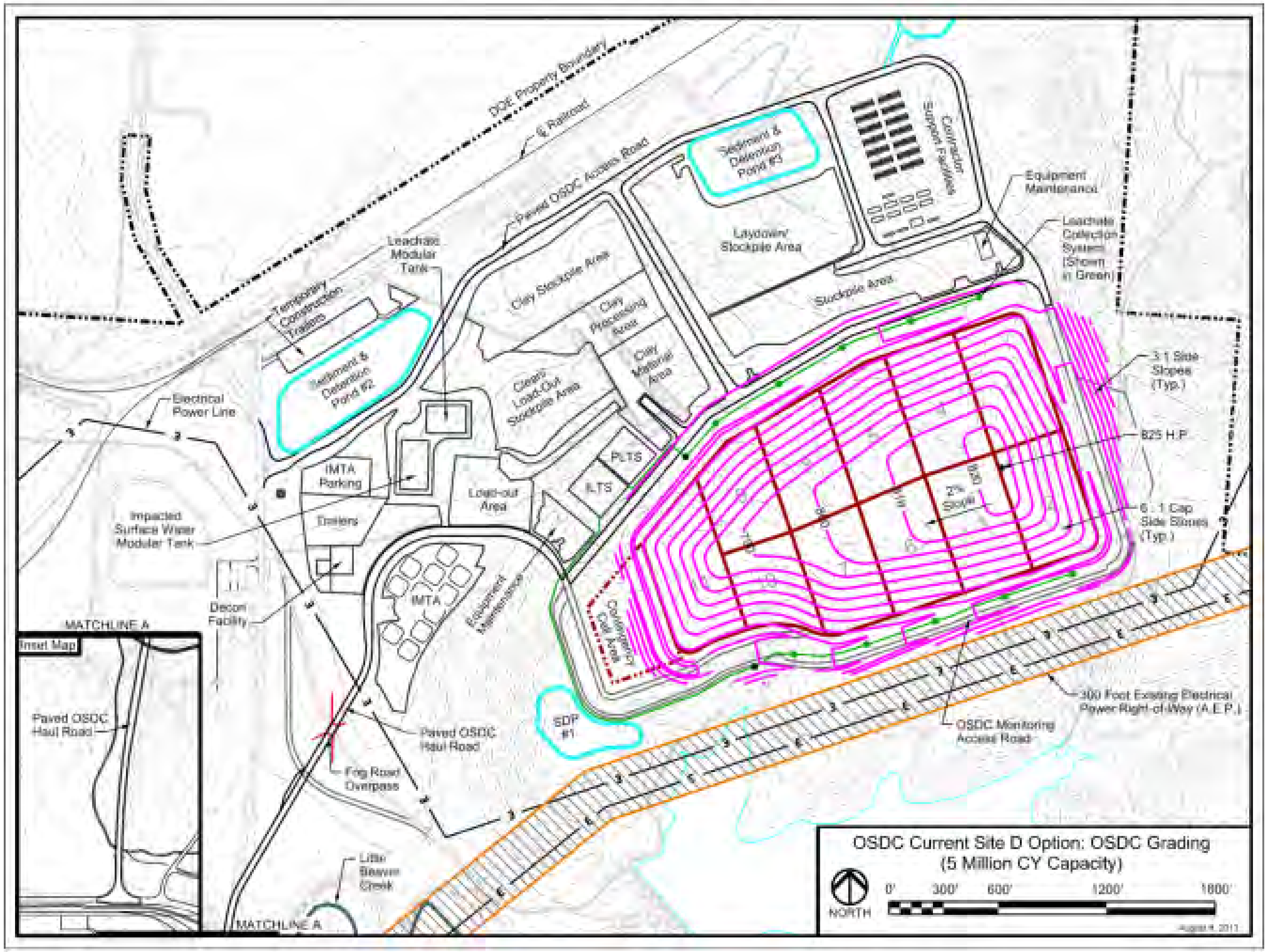


Figure 8.4. Landfill Plan View – Finished Grading Plan for Alternative 2

The cell operations for Alternative 2 would occupy approximately 320 acres, which would include a potential OSDC as well as the required support facilities such as the IMTA, leachate treatment systems, laydown storage area, staff trailers and parking, storm water collection ponds, contact water holding ponds, and haul roads.

For site preparation, clearing and grubbing would be required across the entire Site D area with approximately 160 acres requiring tree removal.

It is assumed that most of the excavated soil and rock material would be used for grading, as needed, and for waste cover during landfill operations. The surplus excavated soil and rock material would be hauled (as it is excavated), dumped, and pushed into the X-611B Sludge Lagoon, which is located approximately 0.75 miles south of Site D.

8.3.2.1.4 Waste acceptance criteria

The WAC is comprised of the following seven components: (1) prohibitions resulting from ARARs or DOE operational needs, (2) activity criteria and chemical concentration criteria, (3) waste evaluation and characterization standards, (4) waste physical characteristics standards, (5) waste packaging standards, (6) waste safe handling standards, and (7) waste transportation standards. A waste stream must meet each component before being allowed to be disposed in a potential OSDC.

The first WAC component is ARAR and operational-based waste placement prohibitions that result from two mechanisms: (1) ARARs and (2) operational needs. All waste streams that are not allowed to be disposed in a potential OSDC as a result of one of these prohibitions are removed from further consideration.

Then each waste stream is evaluated against the activity and chemical concentration criteria and those that do not meet the criteria are not allowed to be disposed in a potential OSDC unless further treatment pursuant to defined requirements is performed. Groundwater fate and transport modeling along with an evaluation of potential contaminant concentrations likely to be present in D&D waste (RC-1) and other waste (RC-2, RC-3, and RC-4) streams show that there is a five order of magnitude safety factor between resultant protective numerical levels and the concentrations in the waste streams. This conclusion is primarily due to the favorable geologic conditions found at the proposed location of a potential OSDC along with the design elements of the cells.

However, any waste stream considered a hazardous waste must meet the regulatory treatment standards identified as ARARs. DOE is anticipating pursuing a CAMU designation for CAMU-eligible wastes via the forthcoming future Ohio Consent Decree document(s). The CAMU designation offers the opportunity to pursue adjusted treatment levels for principal hazardous constituents subject to Ohio EPA Director's approval based on the long-term protection offered by the engineering design of the potential OSDC. If the CAMU designation is approved, the treatment standards would be adjusted accordingly.

The other components of the WAC would be developed in detail as further design and operations plans are developed. Two design and operations documents would be developed and, upon Ohio EPA review and approval and/or concurrence, would become an enforceable part of the ROD should an on-Site alternative be selected. These documents would detail out the remaining WAC components defined in the DFF&O.

8.3.2.1.5 Potential OSDC operations

It is estimated that a 1.47 million-cy in-place volume of D&D waste/materials (RC-1), including 53,000 cy of residual soil (RC-1, EC-1), are expected to be generated under the DFF&O. Approximately 1.08 million cy of the D&D waste requiring fill (RC-1, EC-2) and all of the 53,000 cy of residual soil (RC-1, EC-1) are assumed to be disposed in a potential OSDC. Another 2.1 million cy of fill will be required. That fill volume rises to 2.2 million cy if a source of fill is the landfills (RC-3) which also contain some waste requiring fill (RC-3, EC-2). These volumes are in situ volumes, not transported or disposed volumes.

Waste destined for a potential OSDC would be adequately characterized, processed, inspected, and certified as meeting the potential OSDC WAC. In general, the operations phase would consist of bulk waste pickup at the generating areas by using open bed, off-road, articulating dump trucks, or by truck using large containers such as intermodals or discrete packaging such as B-25 boxes, drums, and bags. The trucks would transport the waste to the potential OSDC along a dedicated temporary haul road. Trucks carrying waste would enter the facility and proceed to the waste off-loading area within the potential OSDC. The transportation documentation (bill of lading, manifest) would be verified and waste packages would be inspected. The trucks would then proceed into the working face. Waste would be unloaded at the working face, pushed into the working face, spread, and compacted in accordance with waste placement requirements. Additionally, large items and containers would be transported to the potential OSDC via flatbed trailer and offloaded using heavy duty off-road fork trucks or a mobile crane, as appropriate. Waste would be loaded directly into the working face. A grid system within the disposal cells would be used for waste placement and tracking purposes. Placement information would be recorded daily upon receipt of waste in the disposal cell, as required by ARARs. This would facilitate waste reporting and mapping, as well as efficient use of disposal cell volume.

An IMTA, meeting ARARs, would provide storage capacity to accommodate higher than anticipated waste generation that exceeds the capacity for receipt or to accept waste deliveries during inclement weather when waste placement operations are curtailed. An IMTA could also be used to stockpile waste requiring fill (EC-2) to allow for the most effective co-placement of the waste forms with soil (EC-1). Waste placed in an IMTA would be reloaded into dump trucks or onto flatbed trailers and transported to the workface as described above.

Shear attachments or cutting equipment could be provided at the potential OSDC to assist in size reducing waste to reach the disposal requirements. Depending on the need, a centralized decontamination operation may occur at the potential OSDC or at another location also. Although not costed in the alternative, physical and chemical processes represent a variety of decontamination process options that may be used to remove contamination from waste to be disposed at a potential OSDC or to remove contamination from recyclable and/or reusable material.

To ensure waste received at the disposal facility could be properly handled, the physical form of the waste would be restricted. Bulk waste containers would be sized in accordance with the physical WAC so they could be handled and compacted in the disposal cell with standard earthmoving equipment. Large waste items, containers, and solidified items meeting the single-waste-item physical WAC could be accepted if special handling arrangements were made. Limitations on large waste/equipment would be developed to minimize void spaces in the disposal cell and prevent damage to the liner system. Generally, waste generators would use size reduction equipment at the D&D location to meet this requirement; however, a centralized size reduction operation to meet physical WAC requirements may occur at the potential OSDC under this alternative.

Bulk waste would be placed in nominal 1-ft lifts and be compacted using dozers and/or wheeled landfill compactors. Waste and containers would be placed to minimize possible damage to the geotextile layer and minimize void spaces after backfilling. Void spaces in the disposed waste would be filled with waste soil, clean soil, or flowable fill in order to reduce voids, achieve required compaction of the waste mass, and provide a stable base for waste transport vehicles dumping waste at the waste face. An EC-1/EC-2 ratio of 2:1 is assumed for normal operations. It is assumed that several waste faces would be active, and other areas of the cell would have temporary covers to provide containment and shielding and reduce water infiltration. If more accurate waste generation data indicate that exposures would not result in unacceptable risk, additional faces could be opened during periods of high disposal rates or when segregation of incoming waste streams is appropriate. Stationary and/or mobile water sprinkling units would be installed to control dust and minimize contaminant releases within the facility during operations. Dust control may also be achieved by using dust suppressant sprays as the waste is emptied from transport vehicles into the facility. The dust suppressant could be sprayed on finished surfaces of the cell floor and walls, stockpiles, and other areas (as needed). Additional measures would be implemented, as needed, such as water trucks to minimize dust generated from gravel roadways and interim cover material, including application of water and limitations on vehicle speed.

A series of temporary soil berms would be placed to separate the working face from clean soil surface areas of the disposal cell and those areas of the cells that had yet to receive waste. These berms would segregate collected precipitation that has not contacted disposed waste from collected precipitation that is potentially contaminated because of contact with waste. Precipitation accumulating in the working cells would infiltrate into the leachate collection system.

Operations other than waste handling would include providing heavy equipment maintenance and support facility maintenance such as roads and buildings. Appropriate personnel and equipment would be available to perform these operations.

The disposal facility would use a combination of telephone and radio communications, computers, and alarm systems to provide normal operations communication, traffic instructions, and immediate emergency instruction to operations and transport personnel. Normal construction emergency and fire suppression equipment would be available, and operations personnel would be trained in the use of this equipment. The potential OSDC operations would rely on the PORTS Fire Department and other on-PORTS first responders to control major fires or other emergencies.

All operations would be conducted in accordance with DOE Order 440.1, *Worker Protection Management for DOE Federal and Contractor Employees*, and 10 *CFR* 835 radiological requirements. Operations workers would wear proper PPE, including coveralls, gloves, sturdy shoes, and respiratory devices (as required). Transport vehicle operators would not leave their vehicles when in the exclusion area. Air quality would be monitored using continuous air monitors and grab samplers. The landfill operator would develop a training program compliant with applicable federal, state, and DOE training requirements. The training program and health and safety requirements would be designed to prepare employees to manage and maintain the disposal facility in a safe, effective, and environmentally sound manner. In addition, the landfill would develop a facility emergency plan that would describe hazards and the basic responses to upset and/or emergency conditions.

If there are extended periods when no waste would be disposed at a potential OSDC, a temporary cover would be placed over the waste to minimize dust and reduce water infiltration and leachate generation. When portions of the disposal cell had been filled to the final grade with waste, an interim cover would be installed.

In accordance with ARARs, groundwater monitoring would occur quarterly during waste disposal operations, utilizing the approved groundwater well network established. The list of monitoring constituents, sampling media, locations, frequency, and action levels would be defined in the Monitoring Plan as one of the design deliverables for a potential OSDC to be reviewed and approved by the Ohio EPA. Monitoring would include groundwater elevations and sufficient samples to represent the quality of groundwater beneath the cell, and allow for the detection of potential contamination should constituents migrate from the cell or support areas. Samples would be analyzed for both radiological and nonradiological constituents at an approved laboratory. An annual environmental monitoring report would be prepared to summarize sample collection and the analytical results.

8.3.2.1.6 Fill operations

Sufficient fill would be needed to meet the placement requirements for D&D waste requiring fill (RC-1, EC-2) as well as additional waste requiring fill (RC-3, EC-2) anticipated to be encountered during the generation of fill from contaminated borrow areas. It is assumed that two times as much fill as waste requiring fill would be used to meet requirements for long-term stability at a potential OSDC. Fill is used to minimize void spaces to lessen the potential for future waste subsidence. Waste subsidence could impact the long-term effectiveness of the final cap, so subsidence of the waste is to be avoided. Fill would be obtained from on-PORTS and/or off-PORTS sources. For the purposes of alternative evaluation, on-PORTS sources of contaminated fill are considered which potentially includes soil from deferred units (RC-2, EC-1).

Landfills (RC-3) and soil associated with contaminated groundwater areas (RC-2) are also potential fill sources that could produce large quantities of fill. While DOE does not expect to excavate Ohio Consent Decree plumes for groundwater remediation, those areas may be used to obtain additional fill. Should contaminated soil be used for fill at a potential OSDC, it should be noted that an estimated 223,000 cy of waste requiring fill (RC-3, EC-2) might be generated in the process of exhuming the landfills that overlie the contaminated soil. The presence of this waste (RC-3, EC-2) within these landfills would create the need for an estimated additional 446,000 cy of fill to support potential OSDC placement, of which all but 101,000 cy of fill (EC-1) is co-located in the landfills. In general, it is assumed that the clean cap/overburden would be excavated and set aside to support post-cleanup backfill requirements.

There is the potential that some of the contaminated fill or associated waste requiring fill (RC-2, RC-3) that is excavated cannot be disposed in a potential OSDC without treatment. Treatment and/or off-Site disposal of this material is included in this alternative, as appropriate. For the purposes of the alternative analysis, it is assumed that roughly 3,900 cy of waste is sent off Site for treatment (see Section 8.3.2.1.9) and/or disposal, and another 176,000 cy of soil (RC-2, RC-3, EC-1) is assumed to be treated. It is assumed for alternative evaluation that fill soil would contain TCE or other VOCs above treatment levels set under the CAMU regulation or would contain excess water. ARAR-compliant treatment technologies could be applied at the point of generation or at the potential OSDC and are likely to require only heavy equipment. However, once the treatment levels are set and the soil characteristics/volumes and schedule are developed during the design phase of the project, alternate technologies may be selected which might involve bringing treatment systems on Site. Some design treatability studies are likely to be required before an investment in purchasing or constructing larger treatment systems associated with treatment technologies such as low-temperature thermal desorption.

8.3.2.1.7 Potential OSDC capping and support facility dismantlement

It is assumed that final capping would occur shortly after disposal cells are filled to capacity. Other final activities would include installation of the permanent leachate treatment systems (including both the active system and passive system), removal of the interim leachate treatment system and other support facilities, and site restoration. Restoration could include removal of the sediment ponds, replacement of wetlands (if necessary), and grading and seeding of the disturbed areas outside the disposal cell to restore vegetation. Once the support facilities were removed and disposed in the last disposal cell, the facility would be capped with the permanent cover. The DFF&O requires submittal of a Draft Closure Plan, Completion of Remedial Action Report, and Closure Certification Report pursuant to the DFF&O subject to Ohio EPA review and concurrence and/or approval as applicable.

8.3.2.1.8 Post-operations surveillance and maintenance

During development of the support facilities, monitoring of the disposal facility and its environs would begin as soon as monitoring facilities were installed. Historic information and results from pre-operation monitoring would be used to develop a baseline for comparison with post-operation monitoring results. Surveillance, monitoring, and active maintenance would occur after the potential OSDC is capped. For cost-estimating purposes only, it is assumed these activities occur for a 30-year period. After that time, surveillance and monitoring continue but active maintenance ceases.

The post-operations activities and associated reporting requirements would be conducted in accordance with approved facility-specific S&M and monitoring plans. Activities would include the following:

- Surveillance: An integral part of post-operations care is surveillance and inspection. The potential OSDC would be inspected to verify adequate performance of the installed containment features and to alert DOE and regulatory agencies of any potential problems. The inspections would provide an early warning that specific elements may need more careful evaluation and monitoring.

  During the first year of operations, one or two inspections could be performed immediately after high-rainfall events to verify the effectiveness of water retention and transport systems and the accuracy of the performance predictions. Additional data should be collected after significant events (storm events of a 5-year intensity or greater). In the first 5 years after capping, inspections could be performed more frequently than in later years to evaluate seasonal effects on operation of the systems. Certain elements, such as disposal-cell stability, may require more frequent inspections. The timing of the inspections could be determined after evaluation of the first-year seasonal inspection results to provide the most useful information.

  After the fifth year of post-operations and upon completion of the first DFF&O 5-year review, inspection frequency could be adjusted as appropriate. Biennial or less frequent scheduled inspections may be acceptable for certain elements.

- Maintenance: Post-operations maintenance activities would include the clearing of uncontrolled plant growth from the disposal cell crest and side slopes; clearing, repair, and realignment of surface water transport structures; inspection and maintenance of the permanent leachate treatment system and passive leachate treatment system; replacement of signs; reestablishment of survey monuments; and collection of piezometer data. Undesired plant growth would be cleared annually, as needed. Ditch realignment, fence and sign repair, survey monument reestablishment, and other minor maintenance activities would be conducted on the basis of surveillance findings.

- Long-term Monitoring: Long-term media monitoring (groundwater, surface water, air, and biota) would be performed to detect potential releases from the disposal cell. Groundwater wells located upgradient and downgradient of the disposal cell would be sampled at least annually to monitor indicator radiological and nonradiological contaminant concentrations and determine whether there have been contaminant releases from the disposal cell. Continued monitoring would support 5-year reviews under the DFF&O (40 *CFR* 300.430 [f][4][V]). The surface water downstream from the disposal cell would be monitored to determine whether contaminant levels have changed over time. Surface water monitoring would be conducted during operation of the facility and through post-operations care in support of 5-year DFF&O reviews. A detailed monitoring plan would be developed during the potential OSDC design process, with Ohio EPA's input and approval.

- <u>Deed Restrictions and Environmental Covenant</u>: In accordance with ARARs and following the DFF&O, deed restrictions and an Environmental Covenant would be put into place to prohibit residential and industrial use of the property, construction of any facility that could damage the cover, or installation of groundwater extraction wells (for purposes other than monitoring). These deed restrictions and Environmental Covenant would also identify other administrative controls necessary to protect the public and the integrity of the disposal cell and would be referenced in a future deed, which would be filed with the appropriate local governmental authority.

8.3.2.1.9 Off-Site disposal

Alternative 2 includes off-Site disposal of some of the waste. All assumptions used to best represent an estimate for off-Site disposal cost and impacts are subject to change. Table 8.2 presented a summary of the various types and estimated volumes of waste that are currently assumed to be disposed off Site, either as a result of not meeting a potential OSDC's WAC, meeting an off-Site disposal Milestone, or as a result of being generated before a potential OSDC is approved in a ROD, available, or operational.

This section describes the common elements associated with off-Site disposal, whether in Alternative 2 or 3. DOE Manual 435.1-1, *Radioactive Waste Management*, establishes policies and minimum requirements by which DOE manages its radioactive waste, the radioactive components of MLLW, RCRA waste, and/or TSCA waste stemming from the cleanup and/or D&D of contaminated facilities (DOE 2001c). Chapter 1 of the manual specifically addresses the management of radioactive waste and states that LLW shall be disposed on the site of origin, if practical, or at another DOE facility if on-site disposal capacity is not available.

For PORTS actions that transfer wastes off Site, permits are required at the receiving facility. For the purposes of cost estimating and calculating transportation risk, the representative off-Site disposal locations used are NNSS, Energy*Solutions*, and Pike Sanitation Landfill. The MLLW disposal facilities at NNSS and Energy*Solutions* are permitted by Nevada and Utah, respectively. Also, all waste removed from PORTS must be disposed of, or treated at a disposal facility operating in compliance with the procedures for planning and implementing off-site response actions, as outlined in 40 *CFR* 300.440 (EPA's "off-site" policy). The purpose of this policy is to direct CERCLA wastes to disposal facilities determined to be environmentally sound and to avoid contributing to present and future environmental problems. In general, the following conditions must be met and verified by EPA to use an off-site receiving facility:

- The proposed receiving facility must be operated in compliance with all applicable federal, state, and local regulations; there must be no relevant violations at or affecting the receiving facility.

- There must be no releases from the receiving unit, and contamination from prior releases at the receiving facility must be addressed (as appropriate).

These bulleted conditions require a confirmation by the EPA regional office with jurisdiction over the chosen disposal facility. Specifically, this EPA office must confirm that the facility is acceptable for the receipt of PORTS waste covered by the DFF&O.

The DOE Consolidated Audit Program (DOECAP) is responsible for performing audits and assessments of all commercial and DOE treatment, storage, and disposal facilities that receive DOE waste. The DOECAP implements annual performance qualification audits of environmental analytical laboratories and commercial waste treatment, storage, and disposal facilities to support complex-wide DOE mission activities. First formulated in 2002, the intent of this corporate departmental program is to eliminate redundant audits by DOE field sites, achieve standardization, minimize DOE liabilities and risks, and reduce costs.

Characterization and Treatment

The waste generator would evaluate any process knowledge and review all existing waste characterization information to determine compliance with the characterization requirements and the WAC of the designated disposal facility. Wastes with inadequate characterization data would be sampled and analyzed as necessary. For wastes not meeting the designated facility's WAC or regulatory requirements regarding transportation or land disposal, the generator would be responsible for appropriate treatment and/or processing of the waste as described in the generating decision document. However, a centralized facility to meet transportation and disposal requirements, defined as one used by multiple projects, could be part of this alternative. Such a facility could include size reduction and/or decontamination process options to support off-Site disposal.

Packaging

Packaging requirements for wastes would be determined on the basis of waste form (other building waste, asbestos, concrete, soil, or PGE); waste type (LLW, mixed hazardous, RCRA/TSCA waste, construction and demolition debris, or solid waste); transportation mode; destination; economics; and other considerations.

For the purposes of this FS, purchasing waste packaging is included in this FS estimate, as are the rental costs of the transportation vehicles. To simplify the analysis, this FS assumes that most of the waste going to a commercial facility would be placed into 101-cy gondolas and filled with an average volume of 71 cy. Gondolas are easy to load and meet the containment requirements for most of the projected waste streams. The gondolas would be reused. Hazardous waste destined for a commercial facility would be packaged in 55-gal drums, B-25 boxes, or other small containers. These small containers would be disposed with the waste.

Most shipments to an industrial landfill would be bulk packaged in a triaxle dump truck or roll-off box and sent to the landfill.

For shipments to NNSS, several different disposal packages are required. The package used for PGE is driven by size of the components and the need to meet DOT requirements. The general package types required for Alternative 2 include the following:

- B-25 fissile boxes
- 25-cy Type A Intermodals
- 37-cy Type A Intermodals.

For estimating purposes, it is assumed that two packages can be loaded onto a truck, except for the 25-cy containers for which only one package is assumed loaded on a truck.

Local Transportation

In order to support rail shipments to a commercial facility, waste would need to be conveyed from the generator location to a rail siding. It is assumed that all intrasite shipments from the generator to a rail siding would use a dump truck or, in certain instances, a flatbed truck.

Off-PORTS Transportation

The following assumptions were used in this FS. Most of the LLW and mixed waste in Alternative 2 is assumed to travel by rail to a commercial facility for disposal. Shipments to the representative DOE facility, NNSS, would be via trucks. The assumed rail route to the representative off-Site commercial disposal facility, Energy*Solutions*, involves two major railroads (Norfolk Southern Railroad and Union Pacific Railroad) and is about 1,820 miles long. Rail shipments are typically manifested from destination to destination, and railroad companies may choose to make detours to pick up or deliver other railcars attached to the same train before delivering the waste to its destination. Actual waste transport miles traveled may be greater than the direct route mileage estimated. This would not affect transportation costs, but could affect transportation risk.

Disposal

Energy*Solutions* would unload the gondolas and intermodals. The waste would be transferred to Energy*Solutions* dedicated trucks, taken into the disposal cell, and emptied per approved procedures. The waste would be placed in the facility according to approved procedures similar to those described for a potential OSDC. Energy*Solutions* is required to perform external health physics surveys of the railcars and containers before shipment back to PORTS. Energy*Solutions* uses DOT limits for unrestricted (unlimited) release and for restricted (limited) release.

Disposal fees at Energy*Solutions* depend on: (1) the classification of the waste (LLW disposal fees are much less than mixed waste fees), (2) the form of the waste (soil [EC-1] disposal fees are less than non-soil [EC-2] fees), (3) the packaging, and (4) the mode of transportation (disposal fees for bulk shipments by truck are less than those for bulk rail shipments). All DOE waste shipped to Energy*Solutions* for disposal would follow the rate schedule established by contract through the DOE Office of Environmental Management (EM), Cincinnati Business Center. All MLLW treated to meet LDRs would be disposed in the Energy*Solutions* MLLW cell. The mixed waste disposal fees at Energy*Solutions*, used in the cost analysis for this alternative, are based on the tiered fee structure in an existing mixed waste disposal contract between DOE and Energy*Solutions*. The appropriate current contract pricing category was used.

The NNSS disposal facility is directly funded by DOE/National Nuclear Security Administration (NNSA). Therefore, no chargeback or fee to a project is applicable. However, to legitimately compare disposal alternatives, NNSS does have a value for their disposal capacity, and it is updated annually.

Pike Sanitation Landfill would receive construction and demolition debris or solid waste for disposal. This facility charges a flat rate for disposal by the truckload.

8.3.2.1.10 Recycling and/or reuse

DOE is committed to the recycling and/or reuse of materials generated through the D&D of the GDP facilities, in compliance with ARARs, irrespective of which remedial action alternative is selected. A commitment to recycling and/or reuse is therefore a component of the description of each of the remedial action alternatives. Prior to implementing recycling, DOE would evaluate and document the benefits (including disposal volume savings) against the additional costs of completing the action, implementing issues, and efforts with implementing associated policy issues. There can be costs associated with segregating and handling material, demonstrating the potentially recycled material is uncontaminated, or in decontaminating the material. DOE would evaluate the individual material and regulatory waste types throughout the implementation of the D&D, and recycle and/or reuse materials as appropriate.

DOE has preliminarily identified up to 110,000 cy of materials for which it may pursue recycling and/or reuse, including some amount of copper, nickel, stainless steel, concrete, and aluminum. For purposes of the development, evaluation, and comparison of alternatives in this RI/FS, the amount of recycling and/or reuse is assumed to be the same across the various action-based alternatives and is therefore not a discriminator in the comparison of the alternatives.

To prepare candidate materials for recycle and/or reuse, a number of commonly applied techniques have been identified in the process building RI/FS, including, but not limited to, crushing, size reduction, segmentation, segregation, storage, decontamination, characterization, and construction and operation of facilities to conduct and/or support such activities. Those discrete, limited activities conducted to prepare the material for recycling and/or reuse are generally part of the Process Buildings and Complex Facilities D&D Evaluation Project. However, recycling or reuse of materials at PORTS also could require the use of storage and/or a large-scale centralized chemical and/or thermal treatment process (e.g., nickel decontamination and metal melting). In parallel with the RI/FS and follow-on remedial design and implementation, DOE would potentially conduct treatability or pre-design studies to support the technical and economic evaluations of the merits of applying such a large-scale centralized treatment facility. Because this RI/FS discusses potential technologies, and because any selected recycling treatment option would be applicable to both alternatives and therefore impact neutral to the remedy selection process, it is envisioned that a later decision by DOE to implement a large-scale centralized facility would not constitute a significant alteration to the selected waste disposition remedy from a cost, scope, or schedule perspective.

If a centralized treatment facility is deemed appropriate to support a Site-wide treatment or recycle and/or reuse initiative, such a facility would be a component of Alternative 2 of the Site-wide Waste Disposition Evaluation Project. Considered for use in such a facility may be a number of decontamination techniques such as manual cleaning, pressure washing, chemical rinsing, grit or CO_2 blasting, laser etching, size reduction, storage, or any other activities as necessary to achieve required release standards. Such recycling and/or treatment must meet the definition of D&D as provided by the DFF&O. If recycling and/or treatment efforts do not meet the definition of D&D, DOE will need to seek applicable permits and authorizations.

8.3.2.2 Possibility of co-disposal of non-D&D waste (RC-2)

The DFF&O RI/FS SOW allows consideration of “Potential waste streams associated with environmental media cleanup activities to be conducted under the Ohio Consent Decree and for which DOE might seek exemptions under Ohio laws and regulations to allow placement of such waste streams in any potential OSDC that might be constructed as a result of the Site-Wide Waste Disposition Evaluation project.” Under the Ohio Consent Decree, significant volumes of contaminated soil and associated groundwater still require a remediation decision. Excavation may be a major component of the remediation decision pursuant to the Ohio Consent Decree. The impacts and implications of up to an estimated 710,000 cy of non-D&D waste (RC-2) from the remaining environmental cleanup activities are considered.
The 710,000 cy is an estimate established for the purposes of conducting a complete and thorough evaluation of the alternatives. The actual volume of any non-D&D waste (RC-2) would be determined based on several factors, including the fact that the remediation decision may not be excavation.
The decision to excavate or dispose of the non-D&D waste (RC-2) is not being made under this project.

8.3.3 Description of Alternative 3

The following GRAs and process options that were identified as representative process options in Section 7 have been used to describe Alternative 3:

- Centralized Treatment
    - Size and void reduction
    - Decontamination.

- Off-Site Disposal
    - DOE off-Site facility
    - Permitted commercial facilities.

- Recycle and/or Reuse

- Waste Transportation
    - Truck
    - Train.

Alternative 3 would provide for the transportation of D&D waste (RC-1) streams off Site to one or more approved disposal facilities and placement of the wastes in those facilities. The alternative must comply with only applicable requirements. Wastes requiring disposal may be construction and demolition debris, solid waste, or it may contain radionuclides, RCRA-hazardous components, and TSCA-defined components either singularly or in combination. Although some level of waste characterization and classification has been conducted for a portion of the expected wastes, additional waste-stream-specific characterization would be required to determine compliance with off-Site disposal facilities' WAC (as well as for any on-Site disposal facility WAC). Characterization of future D&D (RC-1) waste and/or RC-4 waste may result in different volumes or waste classifications than those forecasted for use in this FS.

As described in Section 4.1, candidate PORTS waste streams are classified as follows:

- LLW
- Hazardous waste
- TCSA chemical waste
- Construction and demolition debris
- Solid waste
- Mixed waste with combinations of LLW, RCRA waste, and/or TSCA waste.

The anticipated waste forms include the following:

- Soils
- Concrete
- Asbestos
- PGE (e.g., converters, compressors, and coolers)
- Other building waste.

There are also materials with high potential for recycling and/or reuse. The volumes for the various waste forms disposed off Site in Alternative 3 are presented in Table 8.3.

Table 8.3. D&D Waste (RC-1) Disposition Volumes

D&D Waste (RC-1) Form Description	In Situ volume (cy)	Disposed Off Site in Alternative 3 (cy)
Residual Soil (EC-1)	53,000	53,000
Concrete, asbestos, other building waste (EC-2)	1,032,000	1,032,000
PGE (EC-2)	272,000	99,000[a]
Targeted Recyclable Material	110,000	110,000
Total DFF&O Waste (RC-1) and Recyclables	**1,467,000**	**1,294,000**

Note:
[a] Much of the PGE is segmented, resulting in a volume reduction for disposal. A greater volume reduction effort is assumed for off-Site disposal than on-Site disposal.

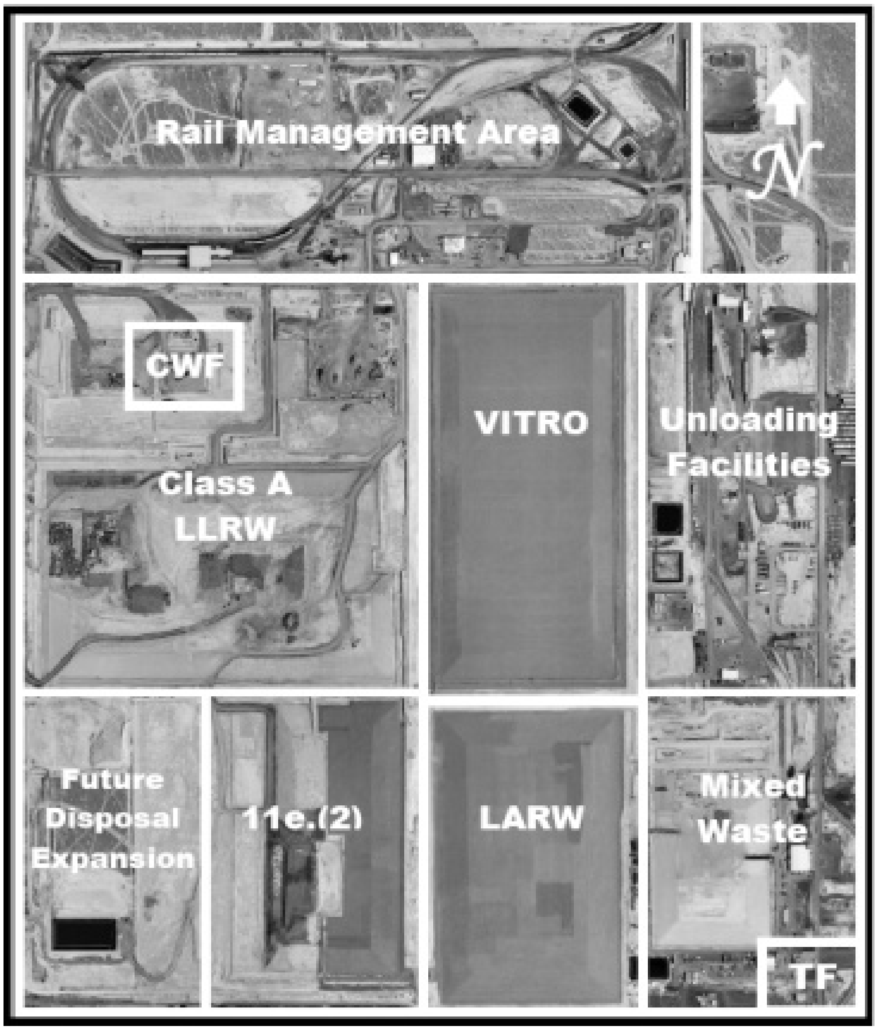
D&D = decontamination and decommissioning
DFF&O = *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
EC = engineering category
PGE = process gas equipment
RC = regulatory category

As in the case of the on-Site disposal alternative, the projects generating the waste would be responsible for making decisions on any treatment required to meet WAC, loading/packaging of the waste at the point of origin, and characterizing and profiling the waste (as required) to demonstrate that potential waste streams would meet the receiving facility WAC. The Site-wide Waste Disposition Evaluation Project decision is responsible for planning and costing local transportation, all conveyances (trucks and railcars), disposal fees, and any need for centralized treatment to support recycling and/or reuse. Packaging would be conducted in conformance with the DOE and DOT regulations for the chosen mode of transportation and would also comply with the designated disposal facility's WAC. The wastes would be transported off Site via rail or truck, depending on economics and the capabilities of the receiving facility.

Section 8.3.3.1 describes the disposal locations that were selected to represent off-Site disposal. These locations are only used in the evaluation of alternatives. The landfill conditions; WAC; and treatment, packaging, and transportation elements are all discussed. Then, Section 8.3.3.2 describes the waste volumes, numbers and types of packaging, and transportation miles that apply to Alternative 3.

8.3.3.1 Description of off-Site disposal facilities

Energy*Solutions* Waste Disposal Facility Description. The Energy*Solutions* waste disposal facility is located in Clive, Utah, approximately 75 miles west of Salt Lake City, Utah. It is licensed and permitted to receive for disposal naturally occurring radioactive material (NORM), LLW, uranium/thorium mill tailings, RCRA hazardous waste, and mixed waste. The facility is located in a remote desert with low annual precipitation (9.6 in.); over stagnant, nonpotable groundwater; and within a 100-mile hazardous waste zone established by the State of Utah. The nearest population center is approximately 40 miles away. Energy*Solutions* offers a variety of mixed waste treatment processing options. Waste transportation to Energy*Solutions* can be either by highway or railway. Figure 8.5 is a plan view of the Energy*Solutions* facility in Clive.



CWF = Containerized Waste Facility
LARW = Low-Activity Radioactive Waste
LLRW = Class A Low-Level Radioactive Facility
TF = Treatment Facility

Figure 8.5. Plan View of the Energy*Solutions* Radioactive Disposal Facility

The VITRO cell in the center of the facility is a DOE-owned uranium mill tailings pile that generally established the location as a radioactive waste disposal complex. The balance of the facility is owned and operated by Energy*Solutions*.

The disposal facility is an above-grade, 1,000-year design with four lined disposal cells to segregate 11.e(2) waste (uranium and thorium mill tailings), radioactive waste, mixed waste, RCRA hazardous waste, NORM, and naturally accelerator-produced radioactive material. The liner of the facility contains a natural clay foundation and a clay layer with a leachate collection/detection system. The cap contains a 7-ft clay radon barrier, a rock filter zone, and a coarse rock erosion barrier. The waste is deposited in 12-in. layers and then compacted.

Waste Treatment. Energy*Solutions* offers a number of treatment options for mixed waste, including stabilization/solidification, oxidation/reduction, fixation, deactivation, neutralization, and micro/macroencapsulation. Size reduction and separation processes are available for soil, two-phase sludges, slags, and debris. These processes are applicable to most RCRA-characteristic and RCRA-listed waste streams. For an additional cost, waste can be shipped to the facility and treated there before disposal.

Waste Packaging. All waste packaging must meet DOT regulations. Packaging options acceptable at Energy*Solutions* include bags, boxes, drums, gondola railcars, dump trucks, Sea-Land containers, intermodal containers, and roll-off containers. Other containers are acceptable on a case-by-case basis. Bulk shipment of wastes is accepted in lined trucks or railcars that provide containment without additional packaging.

The waste packaging options are usually dictated by the mode of transportation selected, the characteristics of the wastes, and economic considerations. With a few exceptions, the packaging considerations for both rail and truck transportation are identical. B-25 boxes, intermodal containers, and drums are examples of waste packaging that is applicable to both truck and rail conveyance of waste. Bulk containers are single-use containers typically disposed with the waste. Each waste stream would be evaluated individually to determine the most effective packaging option.

Transportation. Energy*Solutions* is capable of receiving both truck and rail shipments, and there are no limitations on the number of trucks or railcars accepted each day. Railcars can be unloaded in bulk with a gondola unloading device. Truck transportation routes to Energy*Solutions* range from 1,897 to 1,993 miles from PORTS with travel durations of 38 to 41 hours. Rail transportation routes to Energy*Solutions* would vary depending on the rail company selected to ship the waste. An estimate of 1,820 miles from PORTS to Energy*Solutions* is used in this FS.

PORTS has excellent rail access, and several track configurations (switching capabilities) are possible. There are approximately 17 miles of track that lie within the boundaries of PORTS. However, only approximately one-third of the tracks are currently in service. The Norfolk Southern rail line is connected to the CSX main rail system via a rail spur entering the northern portion of the plant. Track in the vicinity of Piketon, Ohio, allows a maximum speed of 60 mph. The CSX system also provides access to other rail carriers.

Between 1999 and 2010, PORTS shipped and disposed approximately 52,000 cy of LLW soil and waste and approximately 6,700 cy of mixed waste at the Energy*Solutions* facility in Clive from environmental restoration and legacy waste management projects.

Documentation and Characterization Requirements. Based on applicable regulations, Energy*Solutions* imposes specific documentation and characterization requirements on waste shipments. Before accepting a waste shipment, Energy*Solutions* staff review documentation on the waste and evaluate representative samples. Waste acceptance is based on the following:

- The waste profile record that documents the physical, chemical, and radiological characteristics of the waste, and delineates waste properties relative to hazardous waste management regulations and prohibitions
- A certification of presence or absence of other types of hazardous and toxic substances such as pesticides, herbicides, and PCBs
- A statement defining whether the waste is subject to or in compliance with RCRA LDRs

- Representative samples of the waste

- Laboratory analytical results.

Table 8.4 shows the analytical requirements imposed by Energy*Solutions*.

Table 8.4. Analytical Requirements for the Energy*Solutions* Disposal Facility

Gamma spectroscopy
Uranium/thorium isotopic
TCLP
Total organic halides
Hydrogen sulfide/cyanide
Soil pH
Paint filter test
Standard proctor

TCLP = Toxicity Characteristic Leaching Procedure

Before receiving shipments, Energy*Solutions* performs the analyses shown in Table 8.4 and others, as required, to ensure that waste meets incoming acceptance parameters and to establish incoming shipment tolerances. Energy*Solutions* or an independent third party may conduct chemical screening analyses, but the radiological analyses must be conducted by a third party. Additional required documentation includes the following:

- Radiological evaluation form
- Physical properties evaluation form
- Radioactive waste shipment and disposal form
- Uniform hazardous waste manifest form
- Waste certification form
- DOE/NRC Form 741 (radiological equivalent of the hazardous waste manifest).

Nevada National Security Site Description. The NNSS (formerly the Nevada Test Site) is a DOE reservation located approximately 65 miles northwest of Las Vegas, Nevada. It served as the nation’s primary location for the development and testing of nuclear weapons and related experiments from 1951 to 1992. Existing facilities and infrastructure enable the execution of operations and experiments in support of the nation’s Stockpile Stewardship Program and the new National Center for Nuclear Security.

There is also an ongoing EM mission at the NNSS that includes the Area 5 Radioactive Waste Management Complex (RWMC), a radioactive waste management and disposal facility where LLW and MLLW are safely and permanently disposed. The Area 5 RWMC is located in one of the most arid and least populated regions of the United States, which provides an ideal area for near-surface disposal of LLW and MLLW. Annual potential evapotranspiration is approximately 15 times annual precipitation. Approximate annual precipitation is 5 in. Accumulation of chloride in the vadose zone indicates that percolation of rainwater below the root zone ceased at least 10,000 to 15,000 years ago. The saturated zone occurs more than 790 ft below the surface. The median travel time through the thick, dry vadose zone is estimated to be greater than 50,000 years (NNSS 2011). Transport of contaminants to the uppermost aquifer is extremely unlikely under current climatic conditions.

Figure 8.6 is a plan view of the NNSS Area 5 RWMC. Area 5 accepts LLW and MLLW for disposal. Both LLW and MLLW can be classified waste. NNSS has another LLW disposal facility in Area 3; however, it is on standby until additional volume and/or surge capacity is required.

Figure 8.6. Plan View of the NNSS RWMC Area 5 Disposal Facility

The NNSS is authorized to receive DOE-generated LLW under its AEA authority as implemented by DOE Manual 435.1-1 requirements, as well as DOE-generated RCRA hazardous waste and mixed waste. The hazardous and mixed wastes are disposed in a separate lined disposal facility co-regulated by DOE and the State of Nevada.

Waste Treatment. NNSS cannot accept off-site hazardous waste for chemical treatment. All waste must be LDR compliant before shipping to, and acceptance by, NNSS. Further, NNSS cannot accept off-site waste requiring additional physical treatment (such as shearing or cutting).

Waste Packaging. All waste packaging must meet DOT regulations. Packaging options acceptable at NNSS include bags, boxes, drums, and dump trucks, Sea-Land containers, intermodal containers, and roll-off containers. Other containers are acceptable on a case-by-case basis. Bulk shipment of wastes is accepted in lined trucks that provide containment without additional packaging. The waste packaging options are dictated by the mode of transportation selected, the characteristics of the wastes, and economic considerations. Containers are typically disposed after receiving at NNSS. These containers include B-25 boxes, intermodal containers, and drums. Each waste stream must be evaluated individually to determine the most effective packaging option.

Transportation. NNSS is capable of receiving only truck shipments at Area 5. Generators may ship by rail to a transload facility relatively close to the NNSS. The railcars are unloaded, and the waste is subsequently delivered by truck to the NNSS Area 5 disposal area. This FS assumes only truck shipments to NNSS due to evaluations of costs and schedule in past projects. The facility can receive trucks daily except for Friday through Sunday, unless they are received under unique circumstances. Truck transportation routes to NNSS are approximately 2,200 miles from PORTS with travel durations of 30 to 50 hours, most often depending on whether the transported waste is classified waste or not.

One federal highway (U.S. 23) and one state highway (State Highway 32) serve the PORTS area. Both highways are located within 1 mile of PORTS. Both routes are four-lane highways with U.S. 23 traversing north-south and State 32 traversing east-west. PORTS is located approximately 3.5 miles southeast of the interchange between U.S. 23 and State 32. From 2007 data (Ohio Department of Transportation 2011), U.S. 23 has an average daily traffic volume of 14,490 vehicles, and State 32 has an average daily traffic volume of 7,700 vehicles. Traffic in both directions is included in these values.

The PORTS road system is in generally good condition; however, the roads require frequent maintenance and repaving. Except during shift changes, traffic volumes on the plant access roads and Perimeter Road are low. Peak traffic volume occurs during shift changes, and the principal traffic problem areas during peak morning/afternoon traffic occur at locations where parking lot access roads meet Perimeter Road.

Between FY 2000 and 2009, PORTS shipped approximately 51,000 cy of waste to NNSS for disposal, including approximately 34,000 cy of classified waste.

Waste leaving PORTS and destined for the NNSS would travel west, eventually merging into Interstate-40 and entering Nevada south of Las Vegas, Nevada. Under no circumstances are waste transports allowed to traverse downtown Las Vegas roadways.

Documentation and Characterization Requirements. NNSS has disposal capacity for mixed waste as well as for LLW. Since 2005, NNSS has accepted DOE mixed waste for disposal. A new mixed waste disposal facility went on-line in 2011 with 30,000 cy of disposal capacity. The current permit for MLLW disposal ends in 2015, but it could be extended if capacity is not fully used (National Security Technologies 2011). All RCRA mixed hazardous waste must meet LDRs prior to acceptance for disposal at NNSS (NNSS 2011).

Based on DOE Order 435.1, the NNSS WAC, and applicable regulations, NNSS imposes specific documentation and characterization requirements on waste shipments. Waste is first characterized in accordance with SW-846 and the NNSS WAC. A waste profile is developed and submitted to the Waste Acceptance Review Panel, an integrated team of DOE, contractor, and regulator subject matter experts who review and comment on draft profiles. After profile acceptance, waste is packaged in accordance with procedures and witnessed by the NNSS Waste Certification Officer.

Waste acceptance is based on the following:

- The waste profile record that documents the physical, chemical, and radiological characteristics of the waste, and specific to hazardous or mixed waste, the profile that delineates waste properties relative to hazardous waste management regulations and prohibitions

- A statement defining whether the waste is subject to or in compliance with RCRA LDRs

- Split samples that may be required or requested, depending on the complexity or uncertainty of specific waste streams (Radioactive Waste Acceptance Program may provide oversight of the split sampling event)

- Once the container or conveyance is closed, no additional samples are usually taken at either the generator location or at NNSS.

Only generators with an approved NNSS Waste Certification Program may ship to NNSS. PORTS is currently an approved generator. Additional required program and/or waste stream-specific profile documentation includes the following:

- QA Program Plan and procedures
- NNSS WAC Implementation Crosswalk
- Waste certification personnel list
- Uniform hazardous waste manifest form
- Waste certification form.

Pike Sanitation Landfill Description. Pike Sanitation Landfill is a private and commercial landfill located in Piketon, Ohio. This facility is located about 5 miles due north of PORTS along State Route 220. The facility is regulated by Ohio EPA.

This disposal facility is a RCRA Subtitle D design, and it is only permitted to accept solid/sanitary waste. The facility cannot accept radioactive waste, RCRA-regulated hazardous waste, or TSCA-regulated waste (such as PCBs or asbestos) for disposal.

Waste Treatment. The generator may not ship treated RCRA characteristic waste to Pike Sanitation Landfill. No treatment capability exists at the landfill.

Packaging. All waste packaging must meet DOT regulations. Container types acceptable at the Pike Sanitation Landfill facility include drums, roll-off boxes, roll-off and dump trailers, box trailers, bulk tank trailers, and flatbed or lowboy trailers. Other container types are accepted on a case-by-case basis. Typically, waste is shipped to the landfill in 20-cy triaxle dump trucks.

Transportation. Pike Sanitation Landfill is capable of receiving truck shipments only. PORTS contractors have shipped solid or construction and demolition debris waste to the Pike Sanitation Landfill facility in the past, so the waste acceptance process and shipping logistics are well understood. Historical waste shipped to the Pike County Landfill originated from D&D of administration buildings at PORTS. This waste was known to be “clean” and had no regulated concentrations of hazardous or radioactive constituents.

Documentation and Characterization Requirements. Pike Sanitation Landfill will enter into disposal agreements with waste generators only when their wastes are considered to be acceptable for management. As required, prequalification waste analysis is used to determine whether the waste is acceptable for disposal or must be shipped to an alternative facility. It is also used to determine proper material handling requirements. All received wastes are compared with the prequalification analysis to determine whether they are consistent with the initial analysis. The prequalification analysis can be performed at the landfill or at an off-site facility. This mandatory analysis, performed on all pre-acceptance and incoming waste samples, includes a physical description, pH screening, water mix screening, flammability potential screening, cyanide and sulfide screening, radioactive screening, and PCB screening for oil-bearing wastes.

8.3.3.2 Detailed description of off-Site alternative

The off-Site disposal alternative consists of disposing four major components defined by the expected PORTS D&D waste (RC-1) forms illustrated in Section 4.1. These components are as follows:

- PGE (converters, compressors, coolers, some piping, valves, surge drums), assumed to be nearly all LLW, would be primarily shipped to NNSS.
- Metal or other material with a high probability for recycle and/or reuse would be stored on Site pending processing by a recycle and/or reuse vendor.
- Nonradiologically-contaminated and nonhazardous waste would be shipped to Pike Sanitation Landfill.
- The balance of LLW and/or MLLW generated by D&D would be shipped to a commercial facility (assumed to be the Energy*Solutions* disposal facility in Clive, Utah).

Disposal Location. Whole converters and compressors are expected to be classified waste. Because classified waste must be maintained under DOE controls, only NNSS is considered for PGE disposal. The specific in situ volume of waste proposed to be shipped to NNSS is 272,000 cy.

Most non-PGE waste, by volume, would be shipped in bulk by rail to a commercial facility. An evaluation of transportation by truck was performed to compare against rail transportation. Rail transportation is much less expensive and more efficient for transport and is therefore used in this FS.

All of the named "representative" waste disposal facilities have sufficient disposal capacity to receive the projected waste volumes. Table 8.5 provides the estimated volumes that would be disposed at Energy*Solutions*, NNSS, and Pike Sanitation Landfill under Alternative 3 by regulatory waste type. The waste forms include asbestos, concrete, PGE, and other building waste and soils. All hazardous (RCRA), or mixed LLW/RCRA waste is assumed to meet LDRs prior to disposal. The volumes could change as a result of varying waste types and volumes than those originally planned, alternate disposal locations being selected during design, decontamination efforts being employed to allow more of the waste to go to a nearby disposal facility, or additional recycle and/or reuse efforts.

Table 8.5. Off-Site Alternative (Alternative 3) Disposition Plan

Disposal Location	D&D Waste (RC-1) Types and Form		In Situ Volumes (cy)
Recycled/Reused	Material only	--	110,000
Energy*Solutions*	LLW and/or MLLW	EC-1	53,000
		EC-2	794,000
NNSS	PGE LLW and/or MLLW	EC-1	0
		EC-2	272,000
Pike Sanitation Landfill	Construction and demolition debris/ solid waste	EC-1	0
		EC-2	240,000
		Total	**1,467,000**

EC = engineering category
LLW = low-level (radioactive) waste
MLLW = mixed low-level radioactive waste
NNSS = Nevada National Security Site
PGE = process gas equipment
RC = regulatory category

Characterization and Treatment. The waste generator would review all existing waste characterization information to determine compliance with the characterization requirements and WAC of the designated disposal facility. Wastes with inadequate characterization data would be sampled and analyzed as necessary. For wastes not meeting the designated facility's WAC or regulatory requirements regarding transportation or land disposal, the generator would be responsible for appropriate treatment and/or processing of the waste. Based on economic and other considerations, the generator, under a generating decision document, could choose to treat the waste at the generator area, a central facility at PORTS, a commercial facility, or the off-Site disposal facility. However, a centralized facility to meet transportation and disposal requirements, defined as one used by multiple projects, would be part of this alternative. Such a facility could include size reduction and/or decontamination process options to support off-Site disposal.

Packaging. Packaging requirements for wastes originating at each generator area would be determined based on waste form, PGE, other building waste, concrete, soil, or metal; waste type (LLW, mixed waste, RCRA/TSCA waste, construction and demolition debris, or solid waste); transportation mode; destination; economics; and other considerations.

Purchasing or renting packages or containers that are reused, such as intermodals and trucks, is included in this FS estimate. To simplify the cost analysis, this FS assumes that all LLW going to a commercial facility would be placed into 101-cy gondolas and filled with an average volume of 71 cy. Gondolas are easy to load and unload. Dump trucks would move the waste to a rail yard where the loading would occur. Hazardous waste destined for a commercial facility would be packaged in 55-gal drums, B-25 boxes, or other small containers. These small containers would be disposed with the waste.

For shipments to Pike Sanitation Landfill, all waste would be transported in dump trucks. A total of 15,600 truckloads would be required to dispose 240,000 cy (in-place volume) of assumed solid or construction and demolition debris waste under the off-Site alternative.

For shipments to NNSS, several different disposal packages are required. The package used for PGE is driven by size of the components and the need to meet DOT requirements. The general package types required for Alternative 3 include the following:

- B-25 fissile boxes
- 25-cy Type A Intermodals
- 37-cy Type A Intermodals.

For estimating purposes, it is assumed that two packages are loaded onto a truck, except for the 25-cy containers (one loaded per truck).

Although a wider variety of packages may be used at the generator area and be acceptable at the disposal facility, these packaging assumptions represent a best value for packaging and a moderate cost for receiving and unloading the packages at the disposal facility.

Local Transportation. In order to support rail shipments to Energy*Solutions*, waste would need to be conveyed from the generator location to a rail siding. It is assumed that all intrasite shipments from the D&D location to a rail siding would use a dump truck or, in certain instances, a flatbed truck.

Using an assumption of roughly 20 cy per truck, it is assumed that 80,400 local truck trips would be needed to support the rail shipments to Energy*Solutions*.

Off-Site Transportation. The following assumptions were used in this FS. When full (considering the weight capacities of the containers and the transport vehicles), each container would be placed onto a dump truck or flatbed trailer at the generator area. To identify the waste types and associated hazards, the waste containers would be manifested and placarded according to RCRA, DOT, and DOE requirements before placement on the trucks.

For Alternative 3, most (85 percent) of the LLW and mixed waste is assumed to travel by rail to a commercial facility for disposal. PGE would be shipped to NNSS by truck. The assumed rail route to Energy*Solutions* involves two major railroads (Norfolk Southern Railroad and Union Pacific Railroad) and is about 1,820 miles long. The shipment would start at PORTS with Norfolk Southern, which provides rail service to PORTS. Improvements to the PORTS rail yards would be needed to support the loading operation and are included in this alternative.

Rail shipments are typically manifested from destination to destination, and rail companies may choose to make detours to pick up or deliver other railcars attached to the same train before delivering the waste to its destination. Actual waste transport miles may be greater than the estimated direct route mileage. This would not affect transportation costs, but may affect transportation risk.

Table 8.6 summarizes waste shipments from PORTS to the western United States.

Table 8.6. Alternative 3, Total Miles and Trips to Energy*Solutions* and NNSS

Truck Miles to NNSS	Truck Trips to NNSS	Railcar Miles to ES	Railcar Shipments to ES
42,799,000	9,727	49,919,000	13,714

ES = Energy*Solutions*
NNSS = Nevada National Security Site

The total number of actual train loads would depend on the number of railcars per train. It is assumed that 55 railcars would make up one unit train to Energy*Solutions*. The number of required railcars would vary depending on the rate of waste delivery to the rail spur loading area. Because the lease fee would be paid monthly, the number of railcars rented by DOE would change as the rate of waste generation changes.

Disposal. Energy*Solutions* would unload the gondolas and intermodals, transferring the waste to Energy*Solutions*' dedicated trucks; take it into the disposal cell; and empty it per approved procedures. The waste would be placed in the facility according to approved procedures similar to those described for the potential OSDC. Energy*Solutions* is required to perform an external health physics survey of the railcars and containers before shipment back to PORTS. Energy*Solutions* uses DOT limits for unrestricted (unlimited) release and restricted (limited) release.

Disposal fees at Energy*Solutions* depend on: (1) the classification of the waste (LLW disposal fees are much less than mixed waste fees), (2) the form of the waste (soil [EC-1] disposal fees are less than non-soil waste [EC-2] fees), (3) the packaging, and (4) the mode of transportation (disposal fees for bulk shipments by truck are less than for bulk rail shipments). It is conservatively assumed that all mixed waste would remain classified as mixed waste even after treatment to meet LDRs. The mixed waste disposal fees at Energy*Solutions*, which are used in the cost analysis for this alternative, are based on the tiered fee structure in an existing mixed waste disposal contract between DOE and Energy*Solutions*.

The NNSS disposal facility is directly funded by DOE/NNSA. Therefore, no chargeback or fee is applicable. However, to legitimately compare disposal alternatives, NNSS does have a value for their disposal capacity, and it is updated annually.

Pike Sanitation Landfill would receive construction and demolition debris and solid waste for disposal. A flat rate for disposal by the truckload is charged at this facility.

Management of Waste Exceeding Off-Site Disposal WAC. All waste disposed under the off-Site alternative would be required to satisfy the appropriate facility WAC. Some waste streams may be decontaminated to meet the WAC. Decontamination could consist of physical processes such as scabbling or even chemical processes such as dissolution. Most of this decontamination would be part of the decision for generating the waste. However, decontamination to change large volumes of waste from LLW or hazardous waste to merely construction and demolition debris or solid waste regulated under the Ohio Solid Waste regulations could be implemented under this alternative. The decontamination would be employed to meet the WAC of a lower protection disposal facility if it proves advantageous to the project.

If an off-Site facility that can accept a certain waste stream (even after decontamination) is not identified, that waste stream would require interim storage until treatment or disposal capacity becomes available. Based on projected contaminant data (see Section 4.2) and the WAC for the representative off-Site disposal facilities, it is assumed that all waste streams would satisfy appropriate off-Site disposal facility WAC.

It is possible, however, that some of the mixed waste or LLW would not meet the Energy*Solutions* WAC for radionuclides. The volume of waste exceeding Energy*Solutions* WAC for radionuclides would likely be a very small percentage of the total volume of LLW and mixed waste. It is also possible that other LLW/MLLW disposal facilities could accept the higher activity waste if it did not contain or could be treated to eliminate any RCRA or TSCA hazardous components. Because the expected volumes of such waste streams are small and the resulting cost differential between disposal options is also small, management of waste exceeding WAC is not analyzed in detail in this FS.

Recycling and/or Reuse. The recycling and/or reuse component and opportunities of this alternative are the same as those discussed for Alternative 2. DOE is committed to the recycling and/or reuse of materials generated through the D&D of the GDP facilities, in compliance with ARARs, irrespective of which remedial action alternative is selected. A commitment to recycling and/or reuse is therefore a component of the description of each of the remedial action alternatives. Prior to implementing recycling, DOE would evaluate and document the benefits (including disposal volume savings) against the additional costs of completing the action, implementing issues, and efforts with implementing associated policy issues. There can be costs associated with segregating and handling material, demonstrating the potentially recycled material is uncontaminated, or in decontaminating the material. DOE would evaluate the individual material and waste types throughout the implementation of the D&D and recycle and/or reuse materials as appropriate.

DOE has preliminarily identified up to 110,000 cy of materials for which it may pursue recycling and/or reuse, including some amount of copper, nickel, stainless steel, concrete, and aluminum. For purposes of the development, evaluation, and comparison of alternatives in this RI/FS, the amount of recycling and/or reuse is assumed to be the same across the various action-based alternatives and is therefore not a discriminator in the comparison of the alternatives.

To prepare candidate materials for recycle and/or reuse, a number of commonly applied techniques have been identified in the process building RI/FS, including, but not limited to, crushing, size reduction, segmentation, segregation, storage, decontamination, characterization, and construction and operation of facilities to conduct and/or support such activities. Those discrete, limited activities conducted to prepare the material for recycling and/or reuse are generally part of the Process Buildings and Complex Facilities D&D Evaluation Project. However, recycling and/or reuse of materials at PORTS also could require the use of storage and/or a large-scale centralized chemical and/or thermal treatment process (e.g., nickel decontamination and metal melting). In parallel with the RI/FS and follow-on remedial design and implementation, DOE would potentially conduct treatability or pre-design studies to support the technical and economic evaluations of the merits of applying such a large-scale centralized treatment facility. Because this RI/FS discusses potential technologies and because any selected recycling treatment option would be applicable to both alternatives and therefore impact-neutral to the remedy selection process, it is envisioned that a later decision by DOE to implement a large-scale centralized facility would not constitute a significant alteration to the selected waste disposition remedy from a cost, scope, or schedule perspective.

If a centralized treatment facility is deemed appropriate to support a Site-wide treatment or recycle and/or reuse initiative, such a facility would be a component of Alternative 3 of the Site-wide Waste Disposition Evaluation Project. Considered for use in such a facility, technologies may use a number of decontamination techniques such as manual cleaning, pressure washing, chemical rinsing, grit or CO_2 blasting, laser etching, size reduction, storage, or any other activities as necessary to achieve required release standards. Such recycling and/or treatment must meet the definition of D&D as provided by the DFF&O. If recycling and/or treatment efforts do not meet the definition of D&D, DOE will need to seek applicable permits and authorizations.

HIGHLIGHTS OF SECTION 8

- Three alternatives are developed: no action, on-Site disposal, and off-Site disposal.
- Numerous assumptions were generated to support the evaluation of alternatives. They will be revisited in subsequent phases of the project.
- A potential OSDC at Site D can accept up to 5 million cy of waste and fill material (total capacity); the on-Site disposal alternative includes off-Site disposal of some waste streams.
- The draft modeled WAC are developed for the greatest volume assumption and for all potential waste streams.
- There is plentiful capacity at off-Site disposal locations for both volumes.
- Recycling and/or reuse is a key component of each alternative and is the same in both.

NEXT STEP: SECTION 9 COMPLETES THE FS PHASE OF THE PROJECT

BY EVALUATING THE ALTERNATIVES

9. DETAILED ANALYSIS OF ALTERNATIVES

This section presents the detailed analysis of the no-action and on- and off-Site disposal alternatives described in Section 8. The detailed analysis evaluates the advantages and disadvantages of the range of alternatives to provide the basis for identifying the preferred alternative in the Proposed Plan and the selected remedy in the ROD.

The detailed analysis consists of individual and comparative analyses. After the evaluation criteria are introduced in Section 9.1, Section 9.2 provides the individual analysis and Section 9.3 provides the comparative analysis. Building on the detailed alternative descriptions, the individual analysis provides an in-depth evaluation of each alternative against the threshold and primary balancing criteria identified in the NCP (40 *CFR* 300.430) and DFF&O. Following the individual analysis, the comparative analysis highlights the key advantages, disadvantages, and tradeoffs among the alternatives.

The modifying criterion of community acceptance is not addressed in the detailed analysis because it relies on stakeholder participation and feedback to the Proposed Plan. The Proposed Plan, which documents the evaluation of remedial alternatives and presents the preferred alternative, will be issued for public review and comment subsequent to regulatory agency concurrence. Public comments on the Proposed Plan and any other components of the Administrative Record File will be addressed in the ROD. The state acceptance criterion will be addressed in the Proposed Plan.

9.1 CRITERIA FOR ANALYSIS

The nine CERCLA evaluation criteria are organized into threshold criteria, primary balancing criteria, and modifying criteria. As discussed in this section, NEPA values are also incorporated into this evaluation.

Threshold Criteria

These criteria are the basis for statutory findings that must be documented in the ROD, and the alternatives must meet the following criteria for implementation:

- Overall protection of human health and the environment
- Compliance with ARARs/TBCs or otherwise satisfy conditions for ARAR(s) waiver.

Primary Balancing Criteria

Primary balancing criteria address performance of the remedial alternative and verify that the alternative is realistic. The ability of alternatives to meet these criteria is evaluated in sufficient detail to enable decision makers to understand the significant aspects of each alternative and any uncertainties associated with the evaluation:

- Long-term effectiveness and permanence
- Reduction of contaminant toxicity, mobility, and volume through treatment
- Short-term effectiveness
- Implementability
- Cost.

Modifying Criteria
The viability of the preferred alternative is evaluated on the basis of the two modifying criteria:

- State acceptance
- Community acceptance.

Other Values
The irreversible and irretrievable use of resources is discussed. NEPA values are also evaluated outside of the CERCLA evaluation as an additional consideration. Issues related to sensitive resources such as wetlands, floodplains, T&E species, and cultural resources are primarily evaluated in the ARARs section that addresses the specific regulatory compliance drivers and needs that are associated with the sensitive resource. Therefore, those discussions will stay with the CERCLA criteria specifically through compliance with location-specific ARARs as well as through relevant discussions of environmental impacts under long-term and short-term effectiveness. Issues related to the impact on human welfare, including environmental justice, socioeconomics and land use, and cumulative impacts associated with NEPA, are covered under the NEPA values section.

9.1.1 CERCLA Criteria

9.1.1.1 Overall protection of human health and the environment

This evaluation criterion assesses each alternative's ability to protect human health and the environment and comply with project-specific RAOs.

The scope of this criterion is broad and reflects assessments discussed under other evaluation criteria, especially long-term effectiveness and permanence and short-term effectiveness. This criterion addresses how risks associated with each pathway would be eliminated, reduced, or mitigated through treatment, engineering controls, or institutional controls. It also evaluates impacts to the site resulting from implementation of the remedial action.

9.1.1.2 Compliance with ARARs/TBCs

This criterion addresses compliance with federal and state environmental requirements and facility siting requirements that are either legally applicable or relevant and appropriate. In certain cases, regulatory standards that address the proposed action or COCs may not exist. In such cases, nonpromulgated advisories, criteria, or guidance developed by EPA, other federal agencies, or states can be designated as potential requirements or TBCs. Other requirements that do not fall within EPA-established criteria for ARARs include DOE Orders that pertain only to DOE facilities. AEA requirements for management of DOE facility waste are incorporated into DOE Orders and developed under DOE AEA authority. Substantive requirements of DOE Orders serve as TBC requirements that, when specifically incorporated into a ROD, become enforceable standards.

ARARs that significantly impact compliance of an alternative include those related to Ohio's siting criteria for on-property disposal, the CAMU rule, RCRA disposal regulations, and various location-specific ARARs, which set forth the considerations and mitigation strategies that must be taken before the land is disturbed. Other key regulations concern transportation and packaging of various kinds of waste.

If an alternative cannot meet an ARAR, a determination can be made that a waiver may be appropriate if certain conditions are satisfied.

Appendix F contains the location- and action-specific ARARs/TBCs for the alternatives under consideration, along with the identification of any waivers that may be needed.

9.1.1.3 Long-term effectiveness and permanence

This criterion evaluates an alternative's ability to achieve overall reduction in risk to human health and the environment, and to provide sufficient long-term controls and reliability. It considers the degree to which the alternative provides sufficient engineering, operational, and institutional controls; the reliability of those controls to maintain exposures to human and environmental receptors within protective levels; and the uncertainties associated with the alternative over the long term. Long-term effectiveness and permanence is evaluated by examining the following issues:

- Magnitude of residual risk and uncertainties
- Adequacy and reliability of controls
- Long-term environmental impacts.

9.1.1.4 Reduction of toxicity, mobility, or volume through treatment

This criterion reflects the statutory preference for remedial action alternatives to substantially reduce toxicity, mobility, or volume of hazardous substances through treatment. It considers the extent to which alternatives can effectively and permanently fix, transform, or reduce the volume of waste materials and contaminated media. The evaluation also considers the amount of material treated; the magnitude, significance, and irreversibility of the given reduction; and the nature and quantity of treatment residuals.

9.1.1.5 Short-term effectiveness

This criterion addresses the impacts on human health and the environment posed by construction and implementation of the alternative. Potential impacts are examined, as well as appropriate mitigation measures for maintaining protectiveness for the community, workers, environmental receptors, and potentially sensitive resources. A major differentiator between the action alternatives is the distance required to transport the wastes. Therefore, a risk of accidents during transport is assessed. Short-term effectiveness is evaluated by examining the following issues:

- Protection of the community during remedial action
- Protection of the workers during remedial action
- Short-term environmental impacts
- Duration of remedial activities.

9.1.1.6 Implementability

This criterion examines the technical and administrative factors affecting implementation of an alternative and consists of three components:

- Administrative feasibility
- Technical feasibility
- Availability of services and materials.

Administrative feasibility addresses the need for coordination with other offices and agencies, including, for off-Site activities, the ability to obtain permits and regulatory agency approvals. Technical feasibility considers difficulties and uncertainties associated with construction and operation of a given technology, the reliability of the technology, the ease of undertaking additional future remedial actions, the ability to monitor effectiveness of remedial action, and the potential risk of exposure from an undetected release. Evaluation of the availability of services and materials includes consideration of the availability of necessary facilities, equipment, technologies, and specialists, and the effect of reasonable deviations on implementability. Especially important are the treatment, storage, and disposal capacities for the waste volumes.

9.1.1.7 Costs

Cost estimates developed to support the detailed analysis are based on feasibility-level scoping and are intended to aid in comparisons between alternatives. EPA guidance states that these estimates should have an accuracy of +50 to -30 percent (EPA 1988). The cost estimates for this FS are based on the scopes of work and assumptions provided in the detailed alternative descriptions in Section 8. No direct costs are associated with the no-action alternative. For the on- and off-Site disposal alternatives, the following costs are addressed:

- Capital costs (direct and indirect)
- S&M costs.

Capital costs include those expenditures required to initiate and perform a remedial action, mainly including design and construction costs. Capital costs consist of direct and indirect costs. Direct costs include construction material, labor, and equipment; service equipment; and utilities. Indirect costs include such elements as Title I and Title II engineering, Title III inspection, project integration, project administration, and management. Capital costs also include (1) long-distance transportation costs and fees paid to off-Site disposal facilities and (2) waste handling and placement, facility maintenance, and monitoring during on-Site disposal operations. Capital costs are incurred through shipment of the waste off Site and include capping of an on-Site disposal facility.

S&M costs are long-term costs that would occur after capping of an on-Site disposal facility, including security, maintenance, and monitoring costs. S&M costs for off-Site disposal are assumed to be included in the disposal fees paid to off-Site facilities. The unescalated S&M costs are presented as an annual cost for two phases, one when an active leachate treatment system is operational and one afterwards when the treatment system is converted to a passive system. Although a time frame for each phase is assumed for a present value calculation, these S&M costs are not added or escalated because any time limit is arbitrary. The annual costs give the decision makers the information they need without biasing the outcome with inaccurate schedule assumptions.

EPA (2000) suggests developing a site-specific period of analysis. For the purposes of this FS alternatives evaluation, a 1,000-year period is used for a present value analysis in the cost estimate to include all capital expenditures in all alternatives as well as the period of time that performance of a potential OSDC was evaluated. However, S&M for both alternatives would continue indefinitely after capping.

Capital costs are estimated as FY 2013 dollars. Project costs are discounted at 2 percent (Office of Management and Budget [OMB] 2010) to develop the present worth costs. No contingency costs are included.

9.1.1.8 State acceptance

This criterion measures the extent to which the State of Ohio through the Ohio EPA supports the proposed alternative being considered for remediation. This modifying criterion will be addressed in the Proposed Plan and ROD.

9.1.1.9 Community acceptance

This criterion measures the extent to which the community supports the proposed alternative. Because formal public comments will not be received until after the FS/Proposed Plan has been issued for review, this modifying criterion will be addressed in the Responsiveness Summary and ROD that will be prepared following the public comment period for the Proposed Plan.

9.1.2 Other Criteria

9.1.2.1 Irreversible and irretrievable commitment of resources

A commitment of resources is irreversible when the impact of the action limits the future options for that resource. An irreversible effect is one where the resource cannot be replaced in a reasonable time frame. Evaluation of the use of fuels, construction materials, land, sensitive resources, and other utilities is conducted.

9.1.2.2 NEPA values

As discussed in Section 9.1, most of the environmental NEPA values such as impacts on surface water, air, groundwater, etc. are addressed under the CERCLA criteria. There are unique NEPA values that are evaluated in these NEPA values sections. The first is the impact of an alternative on human welfare through an evaluation of environmental justice and socioeconomic impacts. This evaluation includes a discussion of jobs.

The Council on Environmental Quality (CEQ) regulations that implement the procedural provisions of NEPA define cumulative impacts as the “impact on the environment which results from the incremental impact of the action when added to past, present, and reasonably foreseeable future actions regardless of what agency (federal or nonfederal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.” (40 *CFR* 1508.7). The cumulative impacts analysis in this section is based on both the potential outcome of a D&D decision under the DFF&O for the PORTS buildings and each of the alternatives in this decision, as well as impacts from historical operations and the potential construction of several new industrial parks in the area.

9.2 INDIVIDUAL ANALYSIS OF ALTERNATIVES

The individual analysis evaluates each of the alternatives with respect to each criterion. The major differences between the alternatives are the disposal location of the generated waste. The no-action alternative has no disposal, Alternative 2 has a mixture of on-Site and off-Site disposal, and Alternative 3 has only off-Site disposal. Common to both action alternatives is the commitment by DOE to recycle and/or reuse waste streams at its discretion. During the development of alternatives (Section 8), a preliminary review of the potential waste streams was conducted to identify the material and volumes that may be candidates for recycling and/or reuse. Roughly 110,000 cy of primarily metals were identified as the representative volume for recycling and/or reuse. Therefore, the disposal volumes are reduced by 110,000 cy in each alternative.

ARARs for recycling and/or reuse and supporting facilities have been included in Appendix F, and all recycling and/or reuse ARARs will be met. Short-term effectiveness does take into consideration the reduction of 110,000 cy of waste volume on cell size and cost of off-Site disposal. However, implementability issues associated with the effort to sort and potentially treat material prior to recycling and/or reuse and any costs associated with facilities or preparatory actions would be the same in both action alternatives and therefore are not discriminating features.

9.2.1 Alternative 1 – No Action

Evaluation of the no-action alternative is required under the DFF&O and CERCLA (40 *CFR* 300.430[e][6]) to provide a basis for comparison with the action alternatives. Under the no-action scenario for this FS, a PORTS Site-wide strategy or infrastructure for coordinated waste disposal would not be implemented. Any waste would be left where generated, open to the environment.

9.2.1.1 CERCLA criteria analysis

9.2.1.1.1 Overall protection of human health and the environment

Under no action, there would be no overall protection of human health and the environment. Buildings would be left to degrade, generating waste that would be either left at the point of generation, moved out of the way, or potentially disposed, but not under any approved decision document. Releases to the environment from contaminants currently protected from the weather would occur. There are risks to human health and the environment both from releases of contaminants and from the physical hazards of uncontrolled access to degrading buildings and/or waste not being disposed. The evaluation of threats to human health show unacceptable on-PORTS risks to future industrial workers and future residents from a sudden release of contamination now encased in the process equipment or from gradual releases of contamination over time.

As shown in the streamlined evaluation of threats to human health (Section 5), the modeling effort in the preliminary WAC development activity and existing contaminant data in off-PORTS groundwater indicate that contaminants released to the environment on PORTS only slowly migrate at sufficient concentrations to be detected at levels of concern off PORTS. The greater threat is from future use of the buildings. Radionuclides (uranium isotopes, technetium), PCBs, metals, and asbestos could present a risk to future users of the buildings or PORTS as the buildings degrade.

Soon, the degrading buildings would increase the complexity and extent of future cleanup activities. This alternative would not support timely cleanup or release of portions of PORTS for beneficial use. The RAOs would not be met by the no-action alternative.

9.2.1.1.2 Compliance with ARARs/TBCs

Pursuant to the EPA Office of Solid Waste and Emergency Response (OSWER) document *ARARs Q's and A's: General Policy, RCRA, CWA, SDWA, Post-ROD Information, and Contingent Waivers* (OSWER Directive 9234.2-01FS) (EPA 1991), there are no ARARs for a no-action alternative; ARARs apply only to remedial actions taken under CERCLA. A no-action decision can only be made when no remedial action is necessary to reduce, control, or mitigate exposure because the plant is already protective of human health and the environment. If the no-action alternative meets the protectiveness threshold criteria, then compliance with ARARs is not pertinent to the selection of the no-action alternative.

9.2.1.1.3 Long-term effectiveness and permanence

There would be significant long-term adverse human health and environmental impacts under the no-action alternative.

Magnitude of residual risk and uncertainties. Remaining buildings and waste left across PORTS would cause an unacceptable risk to human health, safety, and the environment. As shown in the evaluation of threats to human health, both the future on-PORTS risks from contaminant exposure and migration and the future on-PORTS physical risks are unacceptable. The condition of the residual waste from building degradation is unknown. It could be moved, it could be left where generated, or it could be disposed. If left open to the environment, contaminants would migrate from waste and be able to migrate through runoff or groundwater flow, contaminating adjacent soil, surface water, or underlying groundwater. With no institutional controls, humans could be exposed to the contaminants by accessing the building or waste, or could be hurt or killed by falling building material or other accidents. The primary routes of exposure would be through incidental ingestion of soil or ingestion of underlying groundwater that had been contaminated. Radionuclides now safely contained in the process equipment are the greatest source of future on-PORTS risk through release to the environment.

Adequacy and reliability of controls. No controls are in place under the no-action alternative; therefore, the adequacy and reliability of controls is not relevant.

Long-term environmental effects. As described above in the magnitude of residual risk and uncertainties, the release of contaminants into the environment is possible under the no-action alternative. Migration of these contaminants into ecological habitat could have detrimental impacts on terrestrial and aquatic populations. Under the no-action alternative, ecological receptors such as birds, bats, and terrestrial biota would be susceptible to exposure from potential contaminants in or immediately adjacent to the buildings. Ecological receptors farther away would be susceptible through contaminant migration via rainwater infiltration into the buildings and subsequent runoff.

9.2.1.1.4 Reduction of toxicity, mobility, or volume through treatment

The no-action alternative has no reduction in toxicity, mobility, and volume of contaminated waste through treatment.

9.2.1.1.5 Short-term effectiveness

There would be short-term risks under the no-action alternative as S&M and security controls cease. Intruders or workers at PORTS who inadvertently access the degrading buildings could be injured or exposed to unacceptable levels of contamination.

9.2.1.1.6 Implementability

The no-action alternative is technically implementable. There are no material or equipment requirements and no resource needs. However, administratively, the cessation of S&M activities and security controls would be against DOE Orders for managing and safeguarding nuclear materials and therefore would not be implementable. The uncontrolled release of contaminants as the buildings degrade could cause storm water discharges that may exceed existing permit limits, causing notices of violation to be issued.

9.2.1.1.7 Cost

No cost would be directly associated with implementing the no-action alternative; however, the contamination of surrounding media resulting from the release of contaminants during building degradation could result in fines and penalties, as well as ultimately higher remediation costs.

9.2.1.2 Other criteria analysis

9.2.1.2.1 Irreversible and irretrievable commitment of resources

Under the no-action alternative, there are no commitments of resources such as land, energy, or materials of construction.

9.2.1.2.2 NEPA values

Socioeconomics and land use. A consequence of the no-action alternative would be the likely negative impact on reindustrialization efforts for the plant. Abandoned buildings and accumulating waste with no disposal outlet would be detrimental to efforts to reuse the plant. The continuing presence of contaminated buildings and facilities and their associated waste at PORTS would limit or preclude future development of PORTS land. Potential new jobs associated with such development would be lost. Eventually, a loss of population would occur as some unemployed workers and their families leave the ROI for new job opportunities. Therefore, implementation of the no-action alternative would likely result in adverse socioeconomic impacts on the population living in the four-county ROI.

No S&M of PORTS buildings and facilities and no waste disposal would occur under the no-action alternative. Consequently, on-PORTS workers that support these activities would no longer be needed. In turn, these direct job losses and the per capita incomes associated with them would likely result in the loss of indirect jobs in the local businesses that provide goods and services to PORTS workers and their families.

Environmental Justice. Under no action, there are no off-Site activities and no direct impact to any disadvantaged populations. There are no environmental justice issues (EO 12898).

Cumulative impacts. A cumulative impacts assessment was conducted in accordance with the guidance in *Considering Cumulative Effects Under the National Environmental Policy Act* (CEQ 1997). The assessment was based on both geographic (spatial) and time (temporal) considerations. The past, present, and reasonably foreseeable future actions considered in the cumulative impacts assessment are as follows:

- PORTS Project (past uranium enrichment and environmental management operations).

- New industrial park projects in the ROI: Sarah James Industrial Park and Gettles Industrial Park (Jackson County); Zahn’s Corner and Pike County Manufacturing Center (Pike County); Gateway Industrial Park (Ross County); and Ohio River Industrial Park, Haverhill Industrial Park, and the 522 Site (Scioto County). These multiple projects were considered collectively as “industrial parks.”

- Process Buildings and Complex Facilities D&D Evaluation Project. This is a separate DOE project devoted to determining the future of the process buildings and complex facilities at PORTS. This project has two alternatives. Alternative 1 is the no-action alternative under which no D&D would occur. Alternative 2 includes demolition of the buildings and man-made structures. For purposes of the cumulative impacts assessment, Alternative 2 was assumed to be selected.

Geographically, all of these actions are located within the four-county ROI for PORTS. Temporally, the PORTS Project is the only past action that was considered. The rest are present and reasonably foreseeable future actions that would coincide with the anticipated duration of the Site-wide Waste Disposition Evaluation Project.

The no-action alternative would have no cumulative impacts or only minimal cumulative impacts involving surface features, surface water hydrology, geology, population and socioeconomics, land use, transportation, ecology, and irreversible and irretrievable commitments of resources. Scioto County is already a nonattainment area for particulate air pollution ($PM_{2.5}$). Particulates and other airborne contaminants from the deterioration of PORTS buildings and facilities would combine with those from industries in the industrial parks and the increased vehicular traffic around both them and PORTS to further diminish local air quality. Contaminants from miscellaneous waste would eventually infiltrate into soil and groundwater, adding to the contamination already present (TCE) from past PORTS operations.

9.2.2 Alternative 2 – On-Site Disposal

The on-Site disposal alternative involves constructing an on-Site, mixed waste disposal facility at PORTS. Wastes not meeting an on-Site disposal facility's WAC would either be treated at PORTS, shipped off Site for treatment and/or disposal, or be stored pending the availability of treatment or disposal options. Some materials would be recycled and/or reused. Section 8.3 presents a detailed description of this alternative. Because a preferred location has not been chosen, analysis of the on-Site disposal option involves evaluating a potential OSDC at Site D, which represents a potential OSDC at any location of similar geology.

9.2.2.1 CERCLA criteria analysis

9.2.2.1.1 Overall protection of human health and the environment

The on-Site disposal alternative would meet risk-based RAOs and protect human health and the environment by placing future generated waste from the DFF&O (RC-1) into an engineered disposal cell, thereby isolating the wastes from the environment. Additional protection, if needed, would be provided indirectly by treatment of waste to meet the WAC for either on- or off-Site disposal facilities. Placement of wastes into an on-Site disposal facility would result in an overall net reduction of risks associated with the building/structure contamination at PORTS. Protection following capping would be maintained by performance-based design requirements for a potential OSDC and institutional controls such as deed restrictions and an Environmental Covenant.

Monitoring of potential migration pathways would allow evaluation of the effectiveness of waste containment and would provide advance warning of any releases so appropriate mitigation measures could be taken. The potential OSDC will be evaluated for 1,000 years. Environmental impacts at the disposal facility location would result from clearing, grading, construction, and operations. Flora and fauna would be impacted by the permanent commitment of land to the disposal facility.

Certain waste streams may be generated before a potential OSDC is operational, may not meet the WAC for an on-Site disposal facility, or be recycled and/or reused. Early waste streams, waste streams above the WAC that are more effectively handled off Site as opposed to treating on Site to meet the WAC, and material to be recycled and/or reused would be transported off Site for final disposition. It is assumed that 110,000 cy of material are recycled and/or reused (not disposed in a potential OSDC) and another 110,000 cy of waste are sent off Site, either to NNSS, a commercial industrial facility, or a commercial mixed waste facility for disposal.

Human-health and environmental exposures from transport of waste, disposal activities, generation and transport of fill, and storage would be maintained ALARA through compliance with ARARs/TBCs, including DOE Orders, and through health and safety plans developed in compliance with 29 *CFR* 1910.120(b)(4). Radiological risks would be minimized through implementation of the current radiological control program. Exposures to workers during excavation of contaminated fill, if implemented, would be controlled through DOE processes and procedures. Transportation risk would be minimized through selection of appropriate transport routes, compliance with DOT requirements, and adherence to project-specific transportation safety, spill prevention, and cleanup plans. These activities would minimize the likelihood of an accident as well as the severity of a release should an accident occur, maintaining exposures ALARA. Risk of a transportation accident causing injury or fatality is small because of the short distances traveled for the higher volumes of construction materials and the relatively lower volumes of material/waste transported long distances. Risks from exposure to gamma radiation during incident-free transport, vehicular accidents, and exposure to contaminants released during accidents are very low (Sections 9.2.2.1.5 and 9.2.3.1.5).

9.2.2.1.2 Compliance with ARARs/TBCs

The on-Site disposal alternative would comply with all but one location- and action-specific ARARs and pertinent TBC guidance, including DOE Orders (no chemical-specific ARARs were identified). A single waiver for the requirement to be 200 ft from any stream, as defined in *OAC* 3745-27-07, is needed. For purposes of this RI/FS, consolidation of DOE wastes for disposal at an on-Site disposal facility is assumed to be an on-Site action within the meaning of the CERCLA definition of "on-site" (40 *CFR* 300.400[e][1]).

Chemical-specific ARARs. Chemical-specific ARARs generally set cleanup or discharge limits for specific hazardous substances or contaminants. Because no specific media would be remediated under this action, no chemical-specific ARARs for contaminant cleanup levels would apply. Discharge or exposure limits for radiation from wastes disposed of at an on-Site facility or from treatment operations are addressed as action-specific ARARs or TBC guidance. NESHAP (40 *CFR* 61.92) standards limit exposure of the public to not more than 10 mrem of radiation per year. DOE Order 458.1 serves as TBC guidance for limiting the release of radionuclides into the environment. An on-Site disposal facility and on-Site treatment operations would meet these standards through control measures used to meet the ARARs/TBCs detailed in Section 8.2.

Location-specific ARARs. Location-specific ARARs/TBCs specify concentrations or impose restrictions on activities on the basis of sensitive resources present at the planned location. Location-specific ARARs/TBCs for this alternative were identified for the two final candidate locations that are being represented by Site D (Appendix F). Location-specific ARARs/TBCs do not include siting requirements associated with location selection and design of the facility; these are addressed under action-specific ARARs/TBCs. Location-specific ARARs associated with wetlands would be triggered for one of the locations, and ARARs for aquatic resources and cultural resources would be triggered for both locations. Two archaeological sites at Site D may require an additional cultural resources survey and potential mitigation measures if they are impacted by proposed waste disposition activities. No sites are anticipated to be impacted by constructing the haul road. DOE is evaluating impacts of the proposed actions for potential adverse effects on sensitive resources and is developing potential mitigation measures for any adverse effects where avoidance or minimization is not practicable.

Ohio EPA substantive requirements for a Section 401 Water Quality Certification would be triggered by a wetlands alteration, dredging, or debris removal from an aquatic resource, or the potential filling of any pond. In addition, 10 *CFR* 1022 requires that the impacts of any actions taken in wetlands be considered and avoided wherever possible. If an on-Site disposal alternative is chosen as the preferred alternative for waste disposal, a wetlands delineation and assessment would be completed at the selected location, and mitigation would be planned for any impacted wetlands. The wetland assessment would be used to formulate a wetland mitigation plan, if needed. Detailed evaluations of potential impacts on location resources and plans to minimize and mitigate any adverse impacts would be completed before initiation of any action.

Action-specific ARARs. Action-specific ARARs/TBCs for on-Site disposal address construction, operation, capping, and post-operations care of a potential OSDC. The variety of wastes disposed on Site under this alternative would trigger requirements for RCRA solid and hazardous waste, radiological waste, ACMs, and TSCA wastes. Action-specific ARARs include substantive requirements drawn from RCRA, TSCA, the CAA, and Ohio EPA regulations.

The AEA grants DOE authority for control of its nuclear materials and exempts it from licensing requirements under the NRC. DOE Order requirements for disposal of LLW were identified as TBC guidance and included as siting, design, and operating requirements. Cell design would incorporate an engineered barrier to limit radiological releases via any pathway to a maximum of 0.5 pCi/L above background at the facility boundary, including a double liner and leachate collection system to contain wastes and monitor cell performance. The DOE Order requirements include 24-hour security provisions for at least 30 years and prohibit such a facility from being constructed within a 100-year floodplain. A cell would be designed to be protective for 1,000 years as required by DOE Order 435.1-1.

Cell design would also incorporate ARAR requirements for a chemical landfill under TSCA to accommodate wastes containing PCBs at concentrations ≥ 50 ppm. Most TSCA requirements parallel those of RCRA, and in general, compliance with one set of design requirements implies compliance with the other. The conceptual design meets substantive requirements of both RCRA and TSCA regulations.

Other action-specific ARARs/TBCs address management of storm water runoff, fugitive dust emissions, treatment of leachate and decontamination wastewater, staging or treatment of the wastes during operations, waste storage pending disposal, cell capping, and post-operations maintenance and monitoring. These requirements would all be readily met. Appendix F contains a more detailed discussion of ARARs/TBCs for Alternative 2.

Required ARAR Waiver. The Ohio siting criterion under *OAC* 3745-27-07(H)(4)(d), which requires a setback of 200 ft for solid waste placement in a landfill facility from a stream, lake, or wetland, would need to be waived in accordance with the DFF&O and consistent with CERCLA Section 121(d) and 40 *CFR* 300.430(f)(1)(ii)(C)(2) for this on-Site disposal alternative.

Per the DFF&O, ARAR waivers must be specifically identified and be in accordance with the NCP, and must be agreed to by Ohio EPA in writing. Ohio EPA can relay its agreement with a waiver of an ARAR in either its concurrence with an applicable ROD, Action Memorandum, RD/RA Work Plan, Removal Action Work Plan, or a separate written correspondence.

The basis for this ARAR waiver would be the greater risk presented to human health and the environment posed by any attempt to move the footprint of a potential OSDC in any direction, or to place it at an entirely new study area to avoid the small portion of the unnamed intermittent stream in Study Area D that is within 200 ft of the current landfill waste placement footprint. Based upon the extensive engineering analysis and sensitive resource investigation completed as part of this FS, moving the cell footprint to avoid this small intermittent stream could cause even greater potential damage and violate ARARs associated with protecting more extensive and sensitive resources such as drinking water wells, a groundwater aquifer, sensitive resource wetlands, coldwater and exceptional warmwater habitat streams, and human residences, as well as violate ARARs related to federal depth-to-groundwater-table requirements and state property boundary line requirements. These issues are discussed further below and summarized in Table 9.1. Figure 9.1 shows the proximity of the proposed OSDC footprint, as currently designed, to regulated resources.

Table 9.1. Regulatory Waiver Impact of Moving Potential OSDC within Study Area D or to Another Study Area

Siting Requirement	Study Area/Compliance with Requirement			
	Study Area A	Study Area B	Study Area C	Study Area D
Within 1,000 ft of a water supply well or a developed spring unless one or more of the conditions listed in *OAC* 3745-27-07(H)(3)(c)(i) – (iv) is met. [*OAC* 3745-27-07(H)(3)(c)]	1,630 ft	6,110 ft	1,000 ft	1,595 ft
Above an unconsolidated aquifer system capable of sustaining a yield of 100 gpm for a 24-hour period to a well located within 1,000 ft of where solid waste is placed, unless deemed acceptable by Ohio EPA. [*OAC* 3745-27-07(H)(2)(d)]	[a]	[a]	[a]	[a]
Within 200 ft of a wetland [*OAC* 3745-27-07(H)(4)(d)] – distance from wetland is shown.	795 ft	0 – currently violates	1,295 ft	265 ft– if move cell south, may violate
Within 1,000 ft of a stream area designated by Ohio EPA as a coldwater or exceptional warmwater habitat. [*OAC* 3745-27-07(H)(4)(a)]	1,950 ft	570 ft[b]	2,085 ft	1,625 ft
Within 1,000 ft of a residence whose owner has not consented in writing to its location. [*OAC* 3745-27-07(H)(4)(c)]	1,380 ft	4,330 ft	760 ft – currently violates	1,000 ft – if move cell east, will violate
Within 300 ft of the landfill facility's property line, unless deemed acceptable by Ohio EPA. [*OAC* 3745-27-07(H)(4)(b)]	645 ft	3,095 ft	395 ft	At 500 ft; if move cell east, could potentially violate
Chemical waste (TSCA) landfill must be located above the historical high groundwater table; bottom of the landfill liner shall be at least 50 ft above the historical high water table. [40 *CFR* 761.75(b)(3)]	x	x	x[c]	Currently meets; if move cell from current footprint, may not meet

[a] Both Study Areas A and B overlie an unconsolidated aquifer system; the aquifer may or may not be capable of a sustained yield of 100 gpm for a 24-hour period. Study Areas C and D are not capable of a sustained yield of 100 gpm for a 24-hour period.

[b] Little Beaver Creek, which crosses PORTS, is formally classified pursuant to *OAC* 3745-1-09 (Table 9-1) as, among other uses, Warmwater Habitat. However, Ohio EPA's *Biological and Water Quality Study of the Portsmouth Gaseous Diffusion Plant Streams* (2006) states that Little Beaver Creek meets the criteria for warmwater habitat and portions may attain "exceptional warmwater habitat criteria." Only Study Area B lies within 1,000 ft of Little Beaver Creek. If Little Beaver Creek is formally reclassified to Exceptional Warmwater Habitat, then moving the OSDC to Study Area B would violate this siting restriction and impact a sensitive stream.

[c] Only a portion of Study Area C meets this requirement, limiting the size of the cell to 2.4 million cy.

x= does not meet

CFR = Code of Federal Regulations
OAC = Ohio Administrative Code
Ohio EPA = Ohio Environmental Protection Agency
OSDC = on-Site disposal cell
PORTS = Portsmouth Gaseous Diffusion Plant
TSCA = Toxic Substances Control Act of 1976

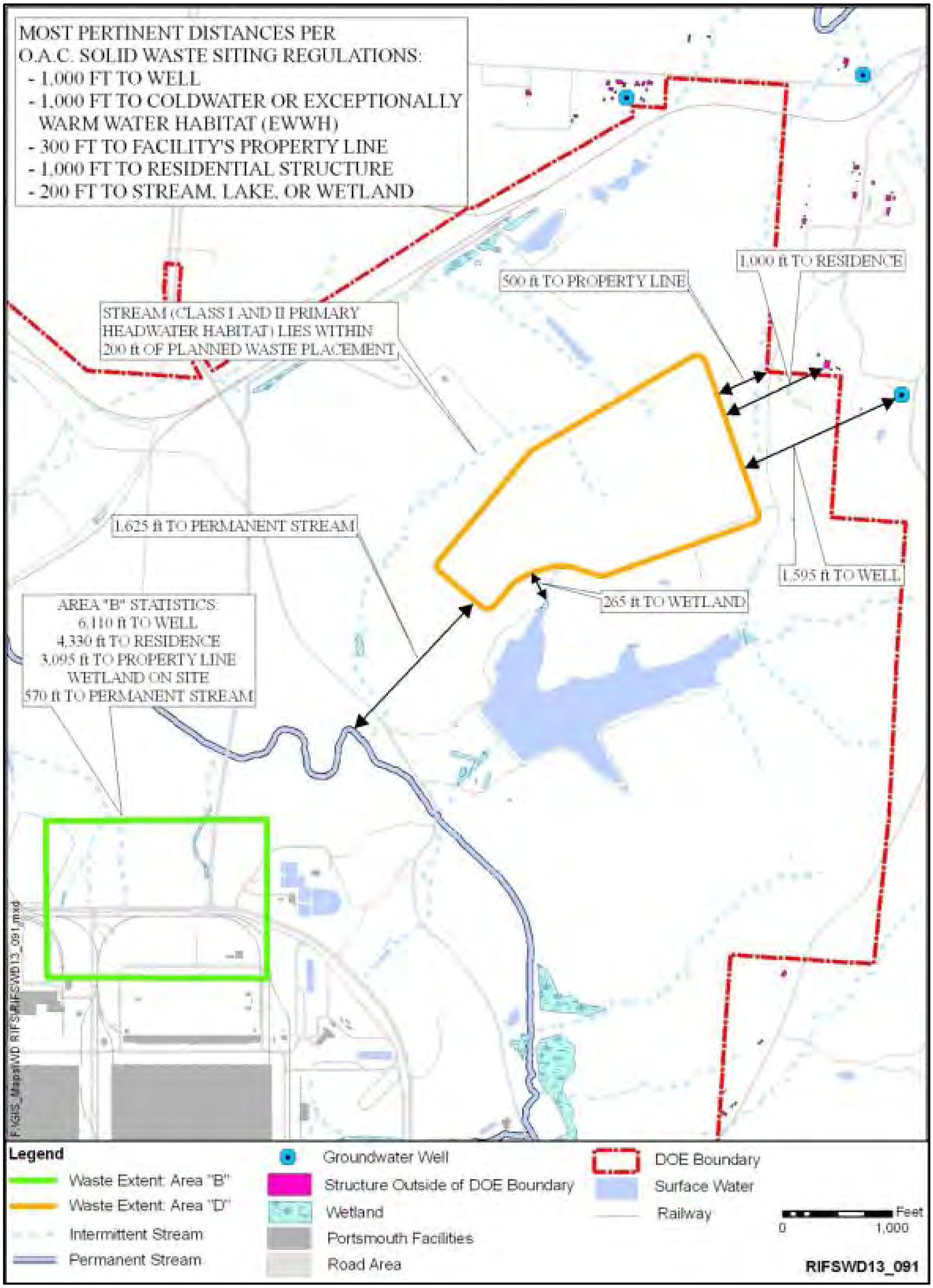


Figure 9.1. Proximity of Potential OSDC Waste Contents to *OAC*-Regulated Items

The Ohio siting requirements in *OAC* 3745-27-07(H)(3)(c) mandate that solid waste placed in a sanitary landfill cannot be placed within 1,000 ft of a water supply well or a developed spring unless one or more of the conditions listed in *OAC* 3745-27-07(H)(3)(c)(i) – (iv) is met. These conditions address situations where a well is used as a nonpotable water source and does not contaminate groundwater or where a hydrogeological barrier of some type can be established to prevent contamination of the well. As currently proposed, the footprint of a potential OSDC in Study Area D is within 1,595 ft of a water supply well. If the footprint is shifted east to avoid the intermittent stream on the location, the project may violate this siting requirement. Locating a potential OSDC at any of the other study areas would allow this ARAR to be met. Potentially contaminating a water supply well is a much greater risk than destroying or potentially contaminating an intermittent stream.

The regional aquifer, the Berea sandstone, is considered to be the “uppermost aquifer system” at Study Area D. The Berea typically has yields greater than 1 gpm and is often the target for installation of residential water supply wells in this area. *OAC* 3745-27-07(H)(2)(d) does not allow solid waste to be placed above an unconsolidated aquifer system capable of sustaining a yield of 100 gpm for a 24-hour period to a well located within 1,000 ft of where solid waste is placed, unless it is deemed acceptable by Ohio EPA. The average yield from the Berea within 1 mile of a potential OSDC at Study Area D is 1.2 gpm. Thus, it is not a sustainable yield subject to this requirement. Both Study Areas A and B overlie an unconsolidated aquifer system; the aquifer, however, may or may not be capable of a sustained yield of 100 gpm for a 24-hour period. Moving a potential OSDC to one of these locations poses the risk of contaminating an aquifer system that could be a potential source of drinking water and violating the ARAR that protects this resource.

Study Area D is within 265 ft of a sensitive wetland, and Study Area B has a wetland within its boundaries. Ohio regulations restrict placement of solid waste within 200 ft of a wetland (*OAC* 3745-27-07[H][4][d]). Study Area B is already in violation of this requirement, and the cell footprint in Study Area D, if moved south to avoid the intermittent stream, would also end up near or on a wetland area, destroying a far more sensitive and delicate resource than a small stretch of intermittent stream.

Ohio restricts the placement of solid waste within 1,000 ft of a stream area designated by Ohio EPA as a coldwater or exceptional warmwater habitat (*OAC* 3745-27-07[H][4][a]). Little Beaver Creek, which flows through PORTS, is formally classified pursuant to *OAC* 3745-1-09 (Table 9-1) as, among other uses, Warmwater Habitat. However, Ohio EPA’s *Biological and Water Quality Study of the Portsmouth Gaseous Diffusion Plant Streams* (2006) and DOE (2013b) state that portions of Little Beaver Creek may attain the “exceptional warmwater habitat criteria.” If Little Beaver Creek is formally reclassified to add the Exceptional Warmwater Habitat designation, then moving the potential OSDC to Study Area B would violate this siting restriction. The risk and ARAR violation this presents would only be encountered if a potential OSDC were relocated to Study Area B, because only Study Area B lies within 1,000 ft of Little Beaver Creek.

As currently sited, the placement of a potential OSDC within Study Area D is 1,000 ft from a residence. *OAC* 3745-27-07(H)(4)(c) mandates that solid waste cannot be placed within 1,000 ft of a residence whose owner has not consented in writing to its location. If the footprint of the cell is moved laterally to the east at all, the distance to this residence will be less than the required 1,000 ft and will be in violation of this requirement. Moving the cell to the proposed location at Study Area C would also be in violation because that location is less than 760 ft from a residence.

If the footprint of the OSDC is moved laterally to the east to avoid the intermittent stream, it may violate the state requirement that mandates the waste placement be at least 300 ft from the facility's property line, unless deemed acceptable by Ohio EPA (*OAC* 3745-27-07[H][4][b]). As currently sited, the facility is 500 ft from the property boundary. Potential locations at the other study areas meet this requirement.

Finally, TSCA requires that a chemical waste landfill must be located above the historical high groundwater table and that the bottom of the landfill liner be at least 50 ft above the historical high water table (40 *CFR* 761.75[b][3]). A potential OSDC, as currently sited, meets this requirement. Study Areas A and B cannot meet this requirement, so moving a cell to these locations would violate a more sensitive ARAR. Only a portion of Study Area C meets this requirement, limiting the amount of PCB-waste that can be disposed to 2.4 million cy.

9.2.2.1.3 Long-term effectiveness and permanence

For the on-Site disposal alternative, the long-term period is considered to begin when all candidate waste has been disposed of and the disposal cell has been covered with a final cap. The alternative also addresses the long-term effectiveness of the off-Site disposal locations used for disposal of a portion of the waste that does not meet the WAC or exceeds the capacity of the cell. This evaluation does not address the waste-generating remedial activities (including treatment under the generating decision document) or waste or residuals that would be left in place at remediation locations.

Magnitude of Residual Risk and Uncertainties

Under this alternative, candidate wastes, treated as appropriate, would be placed in a potential OSDC designed to isolate waste from the environment and significantly reduce the possibility of intrusion into the waste cell or migration of contaminants away from the facility, representing an overall collective decrease in residual risk. By design, meeting the facility WAC would ensure that the total ELCR from the cell would be $< 1\times10^{-5}$, and the total noncarcinogenic risk HI would be less than 1 to future residents living adjacent to the facility, and the underlying groundwater would be protected by ensuring MCLs are not exceeded.

Modeling to support draft modeled WAC selection illustrates that Site D has geologic characteristics that, in concert with the engineering design, do not allow for contaminants at unacceptable levels to migrate from the cell to beyond the waste boundary within a period of 1,000 years, assuming that the facility performs according to projections (DOE 2012a). Because the input parameters used for these calculations were based on the assumption that man-made materials would fail and are likely to overestimate actual future risks from disposed waste, the modeled results are inherently conservative.

Waste not meeting the on-Site disposal facility WAC would either be treated on Site, shipped to off-Site treatment/disposal facilities, or be stored by the generator pending availability of treatment or disposal options. Generally, any treatment would be covered under the generating decision documents. However, if centralized size reduction or decontamination equipment and materials are used, those activities would be part of this alternative and are considered to be effective in the long term for achieving the goals of meeting the WAC or requirements for recycling and/or reuse. Use of the correct equipment would provide the necessary size reduction. Decontamination efforts must be tied specifically to the contamination and waste or material type to be effective, but post-treatment sampling or surveying could be used to assure the goals of the treatment process are met.

If waste is treated or disposed off Site, the receiving facilities would be responsible for monitoring and maintenance to ensure the effectiveness of waste isolation, and acceptable risk levels would be achieved by compliance with existing permits and regulatory requirements. The magnitude of residual risk for off-Site disposal facilities is further addressed in Section 9.2.3.1.3.

Adequacy and Reliability of Controls

Site D of Alternative 2 has sufficient capacity to handle D&D waste (RC-1). As shown in Section 8, the capacity is at least 5 million cy of waste and soil required for disposal of waste, all of which can be disposed over stable bedrock.

The on-Site disposal alternative uses proven technologies to protect human health and the environment and meet risk-based RAOs and ARARs/TBCs. Reliance on proven technologies reduces the uncertainty associated with this alternative. The disposal facilities under this alternative incorporate three types of controls to ensure protectiveness: engineered controls, S&M, and institutional controls.

Engineered controls would be built into a potential OSDC to prevent exposure to contaminants and to prevent, detect, and mitigate contaminant releases. The FML and GCL components of the primary liner would control releases of leachate to groundwater for their design life, which is at least 200 years. The active leachate collection system above the primary liner and the leak detection system below would be effective until the volume of leachate generated is minimal and stable. Long-term control of leachate release would be provided by the secondary liner and geologic buffer and the passive leachate treatment system; these controls would last at least for their design life. An assessment was conducted to estimate the impact on adjacent surface water bodies if the leachate collection or treatment system were to fail and leachate were released directly into the environment. An estimated curie content in the waste in the cell, a TCE mass, and an estimated flow of future leachate (after capping) were used to estimate a concentration of contaminants in the leachate that could be released untreated from a potential OSDC. The entire volume of leachate was then assumed to directly discharge to Little Beaver Creek. Resultant estimated concentrations (see Appendix K for method and results) were significantly below recreational risk-based levels, and no impact to the surface water quality would occur, even under a failure scenario.

The disposal cell cap would prevent airborne releases and direct contact with or exposure to the waste or any contaminated fill. The thickness of the cap (10 ft) and the presence of the biointrusion layer would discourage inadvertent penetration by humans and would prevent or minimize damage from burrowing animals and tree roots. The disposal cell and cap would be designed to remain stable under expected environmental conditions, including possible erosion and earthquakes, for the foreseeable future. Aside from intentional human disturbance or major global climate changes, no credible scenarios for exposing human or ecological receptors to the waste have been identified.

Institutional controls would prevent access to the on-Site disposal facility and use of local groundwater. Institutional controls would continue for an indefinite period, and land use restrictions would be permanent. Monitoring to determine the effectiveness of the primary controls would continue indefinitely.

For those wastes that do not meet on-Site disposal facility WAC and are shipped off Site for disposal, the adequacy and reliability of controls would be acceptable, as discussed for the off-Site disposal alternative (Section 9.2.3.1.3).

Long-term Environmental Effects

For the purpose of this evaluation, long-term environmental effects are those impacts that may occur following capping of a potential OSDC. Long-term protection of ecological receptors from waste in a potential OSDC would be provided by engineered controls, S&M, and institutional controls. Specific components of long-term environmental impacts for the on-Site disposal alternative are addressed in the paragraphs that follow.

Air quality. Air emissions from construction, operation, and capping of the waste cell, centralized treatment, and contaminated fill borrow areas would cease upon completion of cell operation. Because of the generally stable nature of the waste being disposed and administrative requirements forbidding large volumes of biodegradable waste, little degradation is expected within a potential OSDC. The smaller volumes of wood may degrade. The amount of methane gas expected to be generated is considered small. Detailed calculations of the expected volumes of generated gas would be included with the design packages for the cell in order to determine any need for a gas collection system. No long-term impacts to air quality would be expected.

Surface water quality. A potential OSDC would be designed, constructed, and maintained to prevent releases of contaminants or nuisances such as turbidity that could adversely affect surface water quality. Eventually, erosion of the cell could expose waste, resulting in releases to surface water; however, the cell is designed to resist erosion with minimal maintenance, and only extensive erosion would breach containment. S&M of the cap, however, is planned to stop erosions before they could become extensive. Contaminant releases to groundwater from leachate migrating from the cell would be unlikely but could also eventually impact surface water quality. However, calculations presented in Appendix K illustrate that the impacts would be minimal, even under total failure of the leachate collection or treatment system. Fate and transport calculations used to calculate modeled WAC predict that even under conditions where the man-made liners are assumed to fail, the contaminants present in the cell would not reach surface water bodies at unacceptable levels within 1,000 years at either location (see Appendix I).

Any potential OSDC would also be sited in a manner as to minimize impacts to surface water streams. As shown in Section 2, there are no Class III stream segments within 200 ft of the waste disposal location. Construction of a potential OSDC and supporting infrastructure would impact some portion of Class I, Class II, and Class IIIA PHWH streams and some Class I and II stream segments would be permanently displaced. DOE is evaluating impacts of the proposed actions for potential adverse effects to the streams and is developing potential mitigation measures for any adverse effects where avoidance or minimization is not practicable.

Groundwater quality. Design, construction, and maintenance of a potential OSDC would prevent or minimize contaminant releases to groundwater. These control elements would include a multi-layer cap to minimize infiltration; synthetic and clay barriers in the cell liner, placed on a thick geologic formation; and institutional controls that would include monitoring and groundwater use restrictions. If releases were detected, mitigation measures would be implemented to protect human health and the environment. Long-term impacts to groundwater quality resulting from the implementation of this alternative are expected to be insignificant. Site D is located in ideal geologic conditions to minimize migration potential (Appendix D).

Terrestrial biotic resources. Regardless of the location selected, the land cover at the disposal cell would be altered from a woodland, shrub area with some forests to a grass habitat. Subsequent to cell capping, exposed and disturbed portions of the disposal facility and any borrow areas would be regraded and seeded with native vegetation. Wildlife species displaced by construction and operation activities would, to some degree, begin to occupy these areas again following capping. The species may be different from those originally present. Birds and small mammals in the surrounding area may forage in the disturbed area as the vegetative cover develops. Large mammals would continue to be excluded from the area by the access control fence. Because S&M would continue for an indefinite period, trees would be prevented from growing on the cell cover, but they would probably be allowed to grow between the fence line and the cell, providing a small area of relatively isolated forest habitat. Should S&M lapse, the disposal cell area would eventually progress toward an upland forest, and animals would reoccupy this small area. The biointrusion layer would discourage growth of deep-rooted trees, but would not prevent their establishment over the long term without continued maintenance. The cap integrity could be degraded by uprooting of trees, possibly exposing waste that might impact fauna through contaminant release.

Wetlands and aquatic resources. The potential for impacts to aquatic resources in the vicinity of the disturbed area, primarily the adjacent tributaries, would significantly decrease following capping of the disposal cell and restoration of borrow areas. Sediment retention basins would be removed, and site restoration could include wetland mitigation through restoration or replacement. Surface water would be routed around the waste cell and the impervious cap, and vegetative cover would be maintained indefinitely, increasing the volume of runoff water from the immediate area but preventing sediment loading of adjacent streams. Should S&M lapse, erosion of the cell would likely be minimal because of the relatively gentle slopes of either cell (6:1 side slope and 5 to 10 percent top slope), the riprap erosion protection on the sides, and the vegetative cover on the top. Aquatic resources near either location could be impacted by future contaminant releases from the cell to surface water, should such releases occur. Such releases are considered to be unlikely.

9.2.2.1.4 Reduction of toxicity, mobility, or volume through treatment

Although the on-Site disposal alternative does not directly establish waste treatment requirements, waste generators would generally be required to treat wastes as needed to meet disposal facility WAC before on-Site disposal. For portions of waste disposed off Site, treatment would be applied as needed either before shipment or at the receiving facilities. Solidification or stabilization of waste requiring such treatment would reduce contaminant mobility but could result in a volume increase. Additionally, there may be minor reductions of volumes through centralized size reduction or decontamination efforts at the potential OSDC. A potential OSDC itself would not reduce the mobility, toxicity, or volume of waste through treatment.

The anticipated use of contaminated fill (RC-2, RC-3) may result in the need to treat some of the excavated material to meet WAC at a potential OSDC. Treatment technologies resulting in either volatilization, dewatering, or stabilization of the contaminants likely would be used. Volatilization of contaminants results in a reduction in the volume of contamination, while stabilization results in a reduction of the mobility of the contaminants. Dewatering does not reduce the toxicity, mobility, or volume of contaminants. Any selected treatment system would meet all ARARs.

9.2.2.1.5 Short-term effectiveness

For purposes of this evaluation, “short-term” refers to the period of construction, operation, and capping of a potential OSDC, but does not include the period of post-operations care. This evaluation does not address removal activities, waste, or residuals that would be left in place at the remediation locations, or the risk associated with these elements at individual units being remediated at PORTS.

Protection of the Community during Remedial Action

For Alternative 2, potential risk to the public could result from transportation of hazardous and radioactive waste, operation of a potential OSDC, and windborne dispersion of contaminants. Risk to the public from obtaining fill, waste handling, and disposal activities at PORTS would be low because of the robust and conservative protective systems supporting all phases of operation. Public access would be restricted at on- and off-Site disposal facilities and at all waste generation, packaging, and handling locations. Selection of appropriate transport routes; compliance with DOT packaging and other requirements; and adherence to project-specific transportation safety and spill prevention, control, and countermeasures (SPCC) plans would minimize the likelihood of an accident and the severity of a release should an accident occur.

All waste handling and packaging activities would occur within controlled areas at remediation locations or at a potential OSDC. Most candidate waste streams would present only minor hazards and would be handled in limited quantities; this would ensure that, if a waste handling accident occurred, only minor risk would result. SPCC plans would be prepared and implemented to address any accidents. High-hazard wastes would be managed with additional institutional and physical safeguards. All packaging and handling activities would be conducted in accordance with ARARs/TBCs by trained personnel following an approved health and safety plan. Risks to the public from waste handling and packaging activities would be extremely low.

Vehicles that may impact the public include commuter vehicles and cell construction operation equipment being brought to and from the potential OSDC. During the phases of liner or cap construction at a potential OSDC, the construction would result in an additional 100 to 300 trucks/day on Shyville or Perimeter Road. Such trucks would be bringing rock, other material, or equipment to the construction location.

Waste transportation from PORTS remediation areas to a potential OSDC poses little or no risk to the community from radiation exposure during routine transportation, an increased possibility of vehicular accidents, and exposure to contaminants that might be released during accidents because the transportation would occur on Site. Bypasses would be constructed so on-PORTS worker traffic would have minimal interaction with the on-Site waste transportation efforts.

For cost estimating purposes and to evaluate potential transportation risks only, it is assumed that 26,200 in situ cy of the DFF&O waste generated would not meet an on-Site disposal facility's WAC and would be shipped by truck or rail to Energy*Solutions* in Utah. In addition, 53,000 cy (in situ volume) of PGE (such as converters and compressors) would be shipped by truck to NNSS, and 39,000 cy of solid or construction and demolition debris waste would be shipped to the Pike Sanitation Landfill facility. The risk associated with off-Site waste and construction material transport for both members of the public and transportation workers was assessed to determine the potential number of accidents resulting in injury or fatality. These risks are based on transportation distances from the vendor of construction materials to the construction location and from estimated distances from PORTS to off-Site disposal facilities. The total truck and rail car miles (numbers of trips times distance) are then multiplied by standard rates for truck and rail accidents across the United States (DOE 2002). One caveat to add is that although DOE does not keep separate accident rate statistics that can be used in this context, DOE has greater safety requirements of its drivers, and truck accidents from transporting waste are likely to be lower than those estimated by this method. However, this method is a valid representation of transportation of construction materials or of waste by rail and is sufficient for a comparison of waste transportation by truck by alternative. The risk associated with bringing in construction materials is so small that even an increase in cell capacity would not notably change the total risk of injury or fatality.

The risks of injury or fatality because of a transportation accident are shown in Table 9.2.

Table 9.2. Transportation Risks for Alternative 2

Alternative	Truck Injuries	Truck Fatalities	Rail Injuries	Rail Fatalities
D&D Waste (RC-1)	8.1	0.5	0.1	0.06
Construction materials	0.6	0.02	NA	NA

D&D = decontamination and decommissioning
RC = regulatory category
NA = not applicable

While there is some risk that an accident may happen, packaging requirements are so stringent that the chance of waste material being released during a transportation accident is small. Additionally, the small quantities of waste in a single shipment combined with the short time that any person could be exposed to a spill means that there is no unacceptable risk if an accident were to occur and the load was released from the package.

The potential could exist for community exposure to fugitive dust generated by construction of a potential OSDC and exposure to contaminants from the dispersion of waste by high winds during operation. During construction and operation, fugitive dust generation and other airborne emissions would be monitored. Engineering controls, such as the application of water or chemical dust suppressants and seeding of spoil piles and exposed soils, would be implemented to minimize fugitive dust emissions beyond the facility boundary.

Protection of Workers during Remedial Action

For the on-Site disposal alternative, the primary risks to workers would result from construction and waste handling (including size reduction, decontamination, and fill excavation and treatment), transportation, and disposal activities. These activities would be conducted by trained personnel in accordance with ARARs/TBCs, DOT regulations, DOE requirements, approved health and safety plans, and ALARA principles. The technologies used for size reduction are routinely used at PORTS but do carry risks associated with operating heavy equipment or using manual cutting tools. Decontamination operations may also have some risk through the exposure to contamination or treatment chemicals. Excavation of contaminated fill may increase risks through the excavation of landfills. The excavation of landfills can result in unexpected conditions such as the unearthing or release of previously containerized liquids. However, these risks are mitigated with appropriate project planning, use of PPE, and the use of lessons learned from the excavation of landfills and other activities at Fernald and Oak Ridge for conducting the work. Risk from exposure during disposal activities would be generally limited because the waste would meet a potential OSDC's WAC, which would include components for worker safety (developed during the design). Worker exposure would be further minimized by compliance with DOT and DOE waste packaging, transport, and handling requirements; the use of shielding and PPE; limits on driver work schedules; and other operational restrictions, such as spacing and distancing, to ensure that radiation doses to workers are kept below 5,000 mrem/year. The overall risk to workers for this alternative is low.

Technologies that result in the volatilization of contaminants may be used to treat fill material (RC-2, RC-3) that may not meet the WAC. Air in the area of any treatment system would be monitored for compliance with ARARs and to ensure the protection of workers in the area.

Short-term Environmental Effects

For the purposes of this evaluation, short-term environmental effects are those impacts associated with construction, operation, and capping activities. The short-term period is considered to end upon completion of the installation of the cell cap, projected for completion in FY 2024. For this alternative, the potential for short-term environmental impacts would be posed primarily by construction activities, spills during transportation and handling of wastes or leachate, releases during decontamination operations, impacts during fill excavation, other operational releases, and capping activities. Short-term environmental impacts would be minimized by use of best management practices, including engineered and administrative controls. Specific components of short-term environmental impacts for the on-Site disposal alternative are addressed in the following sections. Short-term impacts for off-Site disposal would be as discussed for Alternative 3.

The short-term environmental risk from transportation would arise primarily from the potential for spills during waste shipment and impacts to air quality resulting from commuter, construction, and operations traffic. Adverse environmental impacts in the event of a spill during waste transport would be minimal because wastes would not be in liquid form, waste volumes per shipment would be small, contaminant concentrations would be low for most waste streams, waste would be properly packaged, and SPCC plans would be quickly implemented if a spill occurred. Safeguards would be implemented to ensure protectiveness during waste transport. Leachate would be conveyed in piping with secondary containment where releases are possible.

Air quality. Potential impacts to air quality would result from exhaust emissions and the generation of particulate matter during construction, operation, and capping of a potential OSDC. Vehicular exhaust emissions would include carbon monoxide, CO_2, sulfur dioxide, and nitrogen dioxide. The peak in traffic would occur during the phases of construction, both of liners and caps, when there would be trucks transporting material, construction worker commuter vehicles, and heavy equipment movement both on Site and off Site. Local air quality could be impacted by vehicular exhaust and fugitive dust associated with the increased traffic required for implementation of the on-Site disposal alternative. Construction and operation of a potential OSDC would not result in a significant increase in the PORTS labor pool (most would just transfer from another PORTS project), so no overall notable increase in commuter traffic or associated increase in pollution would be expected.

With regard to greenhouse gas emissions associated with PORTS, a significant source of CO_2 is employee transportation vehicles. DOE estimated that the 2,700 existing employees on plant resulted in approximately 9,900 tons of CO_2 being emitted annually from employee vehicles (Section 3). In addition, in the 1950s, two coal-fired power generation plants (Kyger Creek in Ohio and Clifty Creek in Indiana) were originally dedicated to supplying electrical power to PORTS. Kyger Creek and Clifty Creek emitted approximately 16 million ton of CO_2 in 2006, based on generating approximately 16.2 million MWh of electricity (SourceWatch 2011a; SourceWatch 2011b; OVEC 2007). This equates to approximately 0.99 ton of CO_2 emitted per MWh. To support current annual electrical requirements at PORTS (approximately 250,000 MWh), approximately 247,500 ton of CO_2 are emitted. This amount, combined with the employee vehicle emissions, means the total existing CO_2 footprint of PORTS is approximately 257,400 ton per year. Appendix K provides calculations to illustrate that truck traffic moving waste and construction materials to a potential OSDC and truck and rail traffic moving waste to off-Site disposal facilities would result in an addition of 53,000 ton of CO_2 emissions over the course of the project. (These calculations do not include the emissions from heavy equipment that would be present at either the on-Site or off-Site disposal facility.) Assuming a 12-year project time frame, the additional CO_2 emissions from building and operating a potential OSDC are approximately 50 percent that of the commuter traffic and less than 2 percent of the total annual carbon footprint of PORTS.

The impacts of exhaust emission from the off-Site transportation of waste not meeting the on-Site disposal facility WAC would also be negligible because the truck loads would be sent over a long period of time (roughly a decade). Requirements for emission controls on the trucks should limit the impact from waste transportation. Impacts on air quality from traffic associated with construction, operation, and capping of a potential OSDC are addressed in the following paragraphs.

A greater potential for impacts to air quality would result from the increase in generation of fugitive dust by earthmoving activities such as during construction, during fill borrow operations, and from traffic on unpaved surfaces or during centralized treatment operations. During construction and operation, there would be significant earthmoving activities at the cell and borrow area. A number of large trucks, including tractor-trailer rigs, large dump trucks, and excavation equipment, would deliver soil and waste daily. The peak level of particulate emissions would be expected during the first 2 years of construction, when the majority of land clearing and fill activities take place. Clearing of land for a potential OSDC and expansion of the PORTS borrow area may result in fugitive dust being visible at facility boundaries. Operations at a borrow area or at an IMTA may release some contaminants into the air, but compliance with ARARs, such as Ohio EPA fugitive dust limits would ensure compliance with federal NAAQS.

Releases from clearing, excavation, construction, and soil removal/hauling would be locally confined at PORTS and would be temporary. Vehicles hauling borrow material would generally be traveling about 5 miles round trip for materials generally available at PORTS. For some materials provided by off-Site commercial vendors, round trip hauling could range between 10 and 200 miles. During construction and operation, fugitive dust generation and other airborne emissions from a potential OSDC would be monitored. Engineering controls, such as the application of water or chemical dust suppressants and seeding of spoil piles and exposed soils, could be implemented to minimize fugitive dust emissions. Particulate matter would be expected to fall out rather quickly because of the relatively large sizes of particles expected to be generated, thereby limiting the area subject to fugitive dust emissions.

Process options to treat potential fill may result in the volatilization of contaminants. Air quality in the vicinity of treatment operations would be monitored. Operating the treatment system in compliance with all air-quality ARARs would result in no unacceptable releases of contaminants to the air.

Surface water resources. A total of 14,335 linear ft of streams (Class I, II, and IIIA) would be directly impacted by construction of a potential OSDC and supporting infrastructure while additional lengths could be indirectly impacted from changes in water quality or quantity. DOE is evaluating impacts of the proposed actions for potential adverse effects to streams and is developing potential mitigation measures for any adverse effects where avoidance or minimization is not practicable.

To address impacts to streams, the proposed plan would contain proposed mitigation ratios that would be finalized in the ROD. A mitigation plan would be submitted to Ohio EPA during remedial design for approval or concurrence as applicable. Upon closure of the OSDC, much of the area would be recontoured for drainage following removal of requisite infrastructure, except for the area beneath the OSDC footprint.

Potential impacts to surface water resources could result from sediment loading to surface water bodies or migration of contaminants. Land clearing and construction activities would expose varying areas, depending on the location selected and the ultimate size of the facility. The potential impacts to surface water resources would be minimized by using standard erosion controls, such as siltation fences and buffer zones of natural riparian vegetation, during construction activities. Vegetation preserved in the riparian zone (adjacent to the tributaries) would serve as a filter strip for eroded soil, help prevent stream banks from eroding or slumping, and moderate water temperatures through shading. Grass would be planted in cleared areas to minimize the time soils are exposed, stabilize the soils, and control erosion. Some impacts to surface water would be expected.

Surface water runoff from uncontaminated areas of the waste cell would be controlled by sediment detention basins. These basins would prevent increased sediment discharge to the streams and even out discharge during storms. A perimeter ditch would be constructed around the waste cell to prevent surface run-on and direct the water to the sediment basins before release to local streams.

Potentially contaminated runoff from a potential OSDC, water used for decontamination, water from the leachate detection/collection system, contaminated runoff from an IMTA during storage, size reduction, or decontamination efforts, and other wastewater would be collected in storage tanks. This water would be sampled and conveyed to an appropriate treatment facility, as required. The potential for impact to surface water resources from migration of contaminants from a potential OSDC in groundwater would be exceedingly low because of engineered and active controls. Little or no overall short-term impacts to surface water resources would be expected from implementation of this alternative, with the exception of direct impacts to any water courses or wetlands displaced or eliminated by construction.

Potential impacts to surface water would be minimized by only constructing the portions of a potential OSDC that are planned to be used in the immediate future. By not having the entire cell open at one time, the amount of disturbed area would be minimized.

Erosion controls would be needed during any excavation of fill. If contaminated areas are sources of fill such as landfills (RC-3), the excavation during wet weather could result in the spread of contamination to nearby surface water resources if runoff is not controlled. However, the use of berms, vegetation, silt fences, etc. is common, and if weather conditions are not suitable for excavation, it would be halted. Likewise, if the fill were dewatered, the resultant liquid would be controlled and treated or sampled and shown to not exceed ARARs or other discharge requirements before discharge to adjacent surface water bodies.

Groundwater resources. Groundwater resources could be degraded in the short term by a surface spill or disposal cell leachate that migrates to groundwater. Contaminant sources include D&D waste, spills of oil and diesel fuel, releases from transportation or waste handling accidents, and accidental releases of leachate from the disposal cell. Compliance with an approved Erosion and Sedimentation Control Plan and an SPCC Plan would mitigate potential impacts from surface spills. Engineered controls and active controls, including the leachate collection system, would drastically reduce the potential for impact to groundwater resources that could result from contaminant migration from the disposal cell. Implementation of this alternative would result in few or no short-term impacts to groundwater resources.

Terrestrial biotic resources. Impacts to terrestrial biotic resources would result primarily from land clearing that would alter woodlands and shrubs to a disturbed area for the short term, as well as construction and operation activities and controls that would affect the abundance of animals and plant species adjacent to the disposal facility. Construction of a potential OSDC and support areas would require clearing substantial amounts of land. New haul road construction would impact additional land. As a worst-case scenario, this analysis assumes that all of these areas would be cleared within the first year of construction. Alternative construction sequences could be developed to minimize the area exposed at any one time. Clearing of woodlands and shrubs at either of the preferred locations, the haul road, and the PORTS borrow area would increase forest fragmentation. Forest and habitat loss would result, but the presence of surrounding forested areas would somewhat reduce the impact that clearing would have on habitat continuity at these locations. It is unlikely that excavation of fill would have significant impacts to terrestrial biota because most of the likely fill locations are already cleared.

Clearing operations for development of a potential OSDC would cause the direct loss of small animals. Also, many species of wildlife would be displaced from cleared areas and the surrounding forest habitat. Large mammals would be mostly excluded from controlled areas by access control fences. While additional forest-edge habitat would be created, cleared land over the cell would represent a long-term loss of forest habitat. Site clearing would be scheduled during the nonbreeding season of migratory birds to the extent practical to avoid impacting nests and eggs, as required by the Migratory Bird Treaty Act of 1918. Construction and operations activities and the associated noise and human presence would disturb wildlife species occupying habitats adjacent to the selected location. This could result in emigration of some sensitive species from the surrounding area, although many other species could probably adjust. To minimize disturbance to animal habitats, construction machinery would be kept in proper operating condition, and workers would be prevented from entering undisturbed areas delineated before construction.

Specific impacts on the terrestrial biotic communities would include loss of grassland and old-field successional regimes that provide browse and cover, and the loss of mixed hardwood/conifer forest. Forest clearing would directly impact portions of wildlife habitat areas. Various engineering and administrative controls would reduce impacts to these areas. Noise, the loss of adjacent forest habitat, and possibly dust and exhaust emissions may impact adjacent sensitive resources.

Radiation doses received from waste management activities by terrestrial biota would probably be similar to those received by humans. Although acceptable regulatory limits for radiation exposure to species other than humans have not been established, it is generally agreed that the limits established for humans are conservative for animal species. So long as exposure limits protective of humans are not exceeded, no significant radiological impact on biota populations would be expected from waste management activities.

To minimize impacts during construction, roads and utility corridors would be located in existing right-of-ways wherever possible. Areas not immediately required for construction of the waste cell would be seeded to minimize erosion. Following construction of the waste cell, the soil area would be regraded and planted with native vegetation.

Wetlands and aquatic resources. Several wetlands are present within or near the potential facility footprint of Site D (Appendix D). Study Area D including the haul road corridor, has 24 wetlands totaling 4.2 acres (see Figure 2.40). Only one of the wetlands is greater than 1 acre in size. Roughly 0.11 acres would be directly affected with another 2 acres worth of wetlands in Study Area D having the potential for impact during construction activities. There four recently identified wetlands near the haul road, just north of Perimeter Road. They are identified as W01, W02, W03, and W04 from DOE (2013b). There is a chance that these wetlands could be directly affected, depending on the final design of the haul road. Appropriate runoff and siltation controls would be implemented to minimize potential impacts to the wetlands not directly impacted during construction and operation. The fill locations have not yet been selected, and there is the potential that some wetlands may be located near a potential fill area. Before construction or excavation activities are begun, a mitigation plan would be developed.

There are no federal or state radiological standards for aquatic life. However, available evidence indicates that the potential for radiological impacts on such life would be negligible. The concentration of radionuclides released to the environment would not be expected to exceed the radiological limits established for human beings, and research indicates these limits are conservatively applicable for other species.

Of more concern would be impacts on aquatic flora and fauna during construction, operation, and capping of a potential OSDC as a result of sedimentation or oil spills from equipment. Erosion and runoff controls included in the facility design would largely protect aquatic resources from increased turbidity and siltation. Sediment, dust, oil, diesel fuel, gasoline, antifreeze, and other chemicals from construction activities and equipment could enter the aquatic environment if there were a release. Mitigation controls and quick remediation of all spills would minimize the amounts of these materials that are released.

Duration of Remedial Activities

For the on-Site disposal alternative, construction and disposal operations are assumed to continue approximately 10 years (depending on the annual funding). Disposal operations would be followed by a final 1- to 2-year capping period and then post-operations S&M and monitoring. This post-operations care would continue as long as the waste remains a potential threat to human health or the environment. The funding profile assumed was that available in early FY 2012. There is the potential that the schedule for implementing Alternative 2 could increase if annual funding is decreased. The major impact of this schedule extension is to costs and is discussed further in the cost evaluation.

9.2.2.1.6 Implementability

Implementation of Alternative 2 would entail meeting administrative and technical requirements for construction of a potential OSDC; waste packaging, handling, and transport; off-Site transportation and disposal; and interim storage of any waste not meeting the disposal facilities' WAC. This alternative is implementable because the administrative structure required for implementation is largely in place, the required technology is proven, and the services and materials required to implement the action, including an adequate body of vendors, are available.

Administrative Feasibility

The administrative feasibility of Alternative 2 would depend on meeting DOE administrative requirements, continued agreements by regulatory agencies in Utah and Nevada to receive PORTS waste, and possibly agreements by regulatory agencies in several states for the interstate shipment of waste to Utah and Nevada. While administratively feasible, implementation of the on-Site disposal alternative would present administrative challenges, as discussed below.

Under CERCLA 121(e)(1) and paragraph 9.a of the DFF&O, no permitting or licensing would be required for entirely on-Site disposal of DFF&O and CERCLA waste. A potential OSDC would be designed to meet all substantive requirements for a RCRA hazardous waste landfill and a TSCA chemical waste landfill, including associated State of Ohio regulations.

DOE Order 435.1-1 requires that a performance assessment be used to demonstrate that the performance objectives in the Order for disposal of radioactive wastes are met. For CERCLA sites, it is DOE policy to use the CERCLA process to demonstrate attainment of these human health and environmental protection performance objectives in lieu of a performance assessment.

Waste not meeting the on-Site disposal facility WAC would be shipped off Site. A review of state and federal regulations indicates that there are no provisions that would prohibit shipment of waste derived from PORTS to the receiving facilities. These facilities are appropriately licensed and qualified in accordance with 40 *CFR* 300.440, and administrative and substantive regulatory requirements for handling and disposing of waste would be met through compliance with the receiving facilities' permit requirements. The regulatory and administrative viability of off-Site waste transportation and disposal is indicated by past and current operations. Previous PORTS shipments to Energy*Solutions* and NNSS demonstrate that sustained waste shipment to these facilities is feasible.

The off-Site shipment and disposal of waste requires consideration of state equity issues. State equity, with respect to waste management, focuses on the balance of benefits associated with the activities that generate waste and the burden of resulting life cycle waste management activities. The States of Utah and Nevada, as well as those states that shipments would travel through on their way to Utah and Nevada, have historically agreed to the transport and disposal of DOE wastes. It is therefore likely that these governments would be receptive to continued operation. Challenges to the administrative feasibility of this alternative could result from future changes in state acceptance of waste transport and disposal. The administrative feasibility of off-Site disposal, including the issue of state equity, is discussed in greater detail in Section 9.2.3.1.6.

Use of contaminated soil as fill (RC-2, RC-3) may impact areas that have undergone final or interim action under the Ohio Consent Decree. Some of these areas could be landfills that have caps that would be removed if the underlying soil were used as a source of fill. Some of the areas of soil contamination have groundwater interim remedies including monitoring wells and other components in place that may be impacted by fill excavation activities. DOE would be required to seek and gain approval from Ohio EPA before undertaking any fill excavation activities that would impact such interim or final remedies. Completing this process with Ohio EPA would increase the administrative requirements for implementing Alternative 2. Following completion of any fill excavation activities, any follow-on evaluation or remedial activities for the area would be conducted in accordance with the Ohio Consent Decree.

Technical Feasibility

The technical feasibility of Alternative 2 depends on the implementability of waste disposal, treatment, transportation, storage, and supporting activities. The technology currently available for these components is proven and reliable for the waste projected to be generated at PORTS, resulting in a low degree of uncertainty for the implementation of this alternative. However, the construction of a large landfill has many challenges associated with (1) moving large quantities of native materials to prepare the area and install a liner or cap, (2) maintaining quality of the installed materials, and (3) the logistics of placing waste.

The planned design consists of liner construction below grade. This requires the removal and staging of very large quantities of native material. Major earthmoving activities are affected by availability of equipment, location of spoil areas, and the weather. The larger the quantity of material and the shorter the time frame, the more difficult the logistics become. Alternative 2 involves between 2 and 2.5 million cy of native spoils, increasing the difficulty of construction. Moving this material to the spoil area either takes large numbers of equipment pieces or a long time. There also needs to be adequate available space to place this material.

Installation of several liner and cap components must be completed under appropriate weather conditions to ensure their quality. Therefore, these activities are typically scheduled for drier times of the year. Should there be a small schedule delay before the installation, this small delay could result in a year-long delay to the following appropriate construction season. Large volumes of liner and cap materials are required, again adding to the logistical difficulties of coordinating trucks and equipment. Additionally, this installation requires certain expertise to ensure the required end result.

Finally, the actual operation of the cell and placement of the waste involve numerous logistical challenges. To limit subsidence, the waste must be placed and compacted. Material that could degrade must be placed across the cell to avoid differential settling. Soil must be placed around void spaces caused by waste (EC-2) in the cell, so the receipt of that waste (EC-2) at the cell must coincide with soil (EC-1). The large staging area would provide the necessary waste form, but there has to be careful consideration of which waste goes where. Despite these challenges, many segmented disposal cells have been constructed and are operating today, demonstrating their viability. The off-Site shipment and disposal component of the on-Site disposal alternative also represents a reliable, technically robust, and proven method of waste disposal. Off-Site facilities designated for waste not meeting a potential OSDC WAC are already permitted and in operation. Interim waste storage for waste meeting neither the on- nor off-Site disposal facility WAC can also be reliably achieved.

All release pathways at a potential OSDC would be monitored through leachate collection, leak detection monitoring, groundwater monitoring, and physical inspection of external cell conditions. Should releases to groundwater go undetected, groundwater in the immediate vicinity of the cell could be contaminated. The actual risk of exposure from such a release would be low.

Operations anticipated at the potential OSDC involve standard practices associated with heavy equipment operation. Size reduction through heavy equipment attachments or manual cutting has been implemented successfully at PORTS before. Equipment and labor resources are readily available. Decontamination efforts can increase the technical challenges, depending on the technology used. Some are simple such as brushing off contaminated dirt from beams or equipment. Others, such as chemical processes, are more complicated because of the need to collect secondary wastes and possibly handling corrosive or dangerous chemicals. However, these processes are still readily available and can be implemented with little construction activity.

The excavation of fill is technically feasible. If contaminated borrow areas are used, the greatest challenges are associated with excavating the landfills (RC-3). Additional soil would have to be excavated to provide sufficient fill to support placement of waste requiring fill (EC-2) that may be excavated from a landfill into a potential OSDC. An anomaly detection process including visual inspection would need to be put in place to ensure that no unacceptable waste is sent to a potential OSDC. Anomaly detection would slow down excavation efforts. Additionally, monitoring and engineering controls are needed to protect workers from unforeseen conditions, also slowing down production. But there are significant lessons learned from other DOE landfill excavation projects that can be used in planning the work.

For wastes shipped off Site, conditions are well known at the receiving facilities, and potential migration pathways are monitored to detect any contaminant releases and evaluate the effectiveness of waste confinement. Should a release at the Energy*Solutions* or NNSS facility go undetected, the risk of exposure would be small because there are few potential receptors in the vicinity of the facility, and no potable aquifer underlies the facility.

The only significant technical uncertainty relative to this alternative is the availability of treatment and disposal options for waste exceeding the off-Site facilities’ WAC. A technical challenge to implementability could ultimately result if significant volumes of waste were generated and no treatment or disposal options could be identified for them.

Availability of Services and Materials
Services and materials required for potential OSDC construction, off-Site disposal, treatment, storage, and supporting operations would be available for implementation of this alternative. Services and materials required for design, construction, and operation of the disposal cell are readily available, as are qualified personnel, specialists, and vendors. Construction would involve the use of standard construction equipment, trades, and materials. Many companies have successfully constructed disposal cells, and multiple bids could be expected for the procurements necessary to develop a potential OSDC. Landfill construction would occur in phases at either of the two locations. Only the needed capacity would be constructed. A potential OSDC at Site D can be constructed to a total capacity of 5 million cy while not changing any of the basic design parameters.

Large amounts of construction materials would be needed to build a potential OSDC. Nearly 2 million cy of rock, gravel, and soil are needed to construct a potential OSDC at Site D. There are vendors in the area that could provide this quantity of material in the time frame needed. A potential sand and gravel vendor is located approximately 5 miles from PORTS and runs a large-scale operation. Sand/gravel drainage material required for a potential OSDC base leachate collection system and final capping would be dredged and prepared on PORTS by this company. Initial visits indicate that there would be sufficient material of the necessary quality to meet the requirements of a potential OSDC. This facility would transport the material to the OSDC location.

A potential clay soil supplier is located approximately 10 miles from PORTS. They have a large volume of stockpiled clay soil material, and many thousands of cubic yards of material are still in-place. This clay material has been used in sanitary landfill operations and has met the specification requirements for a landfill base and leachate collection system. Material transportation to PORTS would have to be provided.

Permitted off-Site disposal facilities are available and have sufficient capacity to treat and dispose of the waste volume that is anticipated to exceed the potential on-Site disposal facility WAC. Because waste disposal services could be required for up to 10 years, some uncertainty is associated with the availability of these services for the duration of this alternative for commercial, non-DOE facilities. Issues associated with off-Site disposal are further addressed in Section 8.3.3.

Waste treatment and management facilities and services are available at PORTS, including the administrative infrastructure to support comprehensive waste handling and storage operations. There is also sufficient storage capacity for waste that cannot currently be treated and disposed of either on Site or off Site.

9.2.2.1.7 Cost

Estimated unescalated capital costs for Alternative 2 are $1,019 million (in FY 2013 dollars). Table 9.3 provides a breakdown of total unescalated project costs. Capital costs include those for constructing, operating (including leachate treatment during operation), and closing a potential OSDC, leachate treatment systems, support facilities, and a haul road. These costs include costs of excavating and transporting contaminated fill. Capital costs also include off-Site waste transportation and disposal. S&M costs are those long-term costs associated with maintaining and monitoring a closed landfill.

Table 9.3. Cost Estimates for the On-Site Disposal Alternative at PORTS

Project Cost Item	Cost
UNESCALATED CAPITAL COSTS	
Direct Costs for OSDC:	
Cell Construction	$273,280,000
Infrastructure Construction	$53,660,000
Interim Leachate Treatment System Construction	$4,760,000
Cell Operations	$158,440,000
Waste Transport to Cell	$30,440,000
Off-Site Shipment and Disposal	$154,370,000
Interim Leachate Treatment Operations	$8,490,000
Cell Maintenance during Construction	$1,920,000
Permanent Leachate Treatment System Construction	$740,000
Land Use Controls	$180,000
Total OSDC Direct Cost	**$686,000,000**

Table 9.3. Cost Estimates for the On-Site Disposal Alternative at PORTS (Continued)

Project Cost Item	Cost
UNESCALATED CAPITAL COSTS	
Indirect Costs for OSDC:	
Regulatory documents	$410,000
Predesign studies	$9,150,000
Remedial design	$34,600,000
Total OSDC Indirect Cost	**$44,200,000**
Direct/Indirect Costs for Other:	
Recyclables Staging	$14,530,000
Contaminated Fill (RC-2, RC-3)	$273,990,000
Total Other Direct/Indirect Cost	**$288,500,000**
TOTAL CAPITAL COST	**$1,019,000,000**
S&M COSTS	
Long-term S&M cost—initial annual costs	$670,000
Long-term S&M cost—eventual annual costs	$130,000
Capital Cost (Present Worth)	**$868,000,000**
S&M Cost (Present Worth)	**$14,000,000**
TOTAL PROJECT COST (PRESENT WORTH)	**$882,000,000**

OSDC = on-Site disposal cell
RC = regulatory category
S&M = surveillance and maintenance

The cost estimates are based on the estimating methodology described in Appendix L and the technical scope and assumptions for a potential OSDC conceptual design described in Section 8 and Appendix J. The costs are associated with constructing 3.9 million cy of disposal capacity. Post-operations S&M costs were also estimated, resulting in an initial $670,000 annual cost in FY 2013 dollars for monitoring and maintenance of a potential OSDC, decreasing to $130,000 annually once the passive leachate treatment system is operational. S&M costs associated with the off-Site disposal component of the on-Site disposal alternative are assumed to be included in the off-Site facilities' disposal fees. Included in the costs is the cost to excavate fill (RC-2, RC-3), treat the fill that cannot be disposed in a potential OSDC as is, and disposing of 3,900 cy of waste off Site.

A present value evaluation was performed by assuming a 1,000-year project duration. The 1,000-year duration was selected to account for the performance period assessed for Alternative 2. The total present worth cost for Alternative 2 is $882 million.

The following are additional assumptions that significantly affect total project costs:

- Fill borrow locations evaluated in the cost estimate are contaminated soil areas, including landfills (RC-3) and underlying soil associated with areas of groundwater contamination (RC-2). Any ARAR-compliant treatment costs are included.

- Davis-Bacon regulations regarding local prevailing wage rates would be in effect for all construction and operations.

- Profit, fees, overhead, staff size, and management efforts are based on rates consistent with the current D&D contractor.
- No contingency costs are added to the on-Site disposal alternative cost estimate.
- No costs for long-term storage and eventual disposal of any wastes not meeting the WAC for on-Site or off-Site disposal facilities are included.
- The costs and schedule are dependent on the funding allocated. As the schedule increases for Alternative 2, the total capital costs of the alternative increases because there are routine costs that are required to operate a potential OSDC, regardless of how much waste is disposed.

Additional details on the cost estimates are provided in Appendix L.

9.2.2.2 Other criteria analysis

9.2.2.2.1 Irreversible and irretrievable commitment of resources

There are short-term irreversible and irretrievable commitments associated with constructing and operating a potential OSDC and shipping wastes off Site that do not meet the WAC, including: fuel (5 million gal of diesel for trucks and trains) (Appendix K) and other nonrenewable energy resources; geologic resources such as gravel, rock, and soil (total of 2,500,000 cy); and manufactured cell components (synthetic liner material). In addition, fill is likely to be needed during operations to achieve the appropriate EC-1/EC-2 ratio to control subsidence as there is anticipated to be much more waste requiring fill (EC-2) than soil waste (EC-1) generated. The fill may be clean from on or off the Facility or may be from contaminated sources (RC-2, RC-3) on PORTS. Similar resources would be used at the receiving facility for off-Site disposal of wastes not meeting on-Site disposal facility WAC. Wastes sent to the off-Site facility would represent less than 1 percent of the developed disposal capacity at NNSS or Energy*Solutions*.

A potential OSDC would require a permanent commitment of land at PORTS. To support operation of a potential OSDC, as much as 320 acres may be initially cleared for both a potential OSDC and support areas. This would result in the loss of 160 forested acres out of nearly 1,400 acres on PORTS and associated habitat until a potential OSDC were closed and support areas could be restored to natural conditions. As long as the waste would remain in a potential OSDC, the land commitment would be irretrievable. Likewise, there would be an irreversible loss of habitat for wildlife and biota, including Indiana bat habitat, in the immediate area of a potential OSDC. There may be some impacts to wetlands and historic properties. DOE is evaluating impacts of the proposed actions for potential adverse effects to historic properties and wetlands and is developing potential mitigation measures for any adverse effects where avoidance or minimization is not practicable.

Likewise, clearing efforts during non-nesting seasons for birds and bats should lessen short-term impacts on these wildlife. Because of the engineering efforts and limits on the type of waste that could be placed, there should be no impact on other natural resources such as air, adjacent surface water (including fish), underlying groundwater, or nearby drinking water.

9.2.2.2.2 NEPA values

Socioeconomics and Land Use. EPA review of property value studies found there is no established correlation between property values and the location of a contaminated site. EPA found that most studies are ill-fitted to the task of identifying causal linkages between the price effects they evaluate and the impact of EPA cleanup actions. (See EPA, Superfund “What Does the Evidence Say About Property

Value Studies to Assess the Benefits of the Superfund Program" http://www.epa.gov/superfund/programs/recycle/effects/property.html).

While property price effects from a permanent on-Site disposal action are inconclusive, the short-term period impacts to adjacent land parcels, if any, from construction, operation, or final capping of a potential OSDC would be mitigated to the extent practicable. Noise from heavy equipment can often be heard some distance from a construction area. In addition, there would be noise and potentially dust generated from the transport of construction materials. Efforts would be undertaken to minimize noise during nonworking hours, to control dust through wetting roads and, if needed, covering truck loads, and to limit night-time operation that would require lighting. If night time construction would be needed, noise and lighting surveys would be conducted to assess any impact on off-PORTS residents and if mitigation efforts are appropriate. A visual study is underway to understand from where, if anywhere, in the community a closed OSDC would be visible.

The area of influence of a potential OSDC is the area that would be cleared or otherwise impacted by operations (sediment retention basins) where institutional controls would restrict access during operations or following capping. The cell footprint would be kept permanently cleared, representing a long-term impact on direct use of the land. At Site D, the area of influence is 320 acres in the short-term, with a cell footprint varying from 50 to 66 acres (see Appendix J). Approximately 100 acres of this area would not be available for alternate land uses in the long-term as a result of long-term institutional controls.

The land used for the disposal cell would be cleared and maintained, eliminating any forest cover in these areas. The spoils area would be planted with native vegetation after capping and, if not needed for other purposes, would be allowed to revert to forest. The surface facilities area and any fill borrow areas could be revegetated or allowed to revert to natural cover.

For the off-Site disposal component of the on-Site alternative, disposal of PORTS waste at the receiving facilities would have no long-term impacts to socioeconomics or land use in the vicinity of those locations. These facilities are already operating and are committed for the long term to waste disposal and supporting operations. The incremental increase of waste to these facilities from PORTS would not affect the existing long-term land use commitment, and would have little or no impact on the workforce required for operations and maintenance. No changes in local population or nearby industrial or commercial operations would be expected.

There would be a short-term socioeconomic impact associated with the hiring of workers for construction, operation, and capping of a potential OSDC. The workforce would vary with project phases and would likely come from the existing PORTS labor pool or from the local labor market, resulting in minimal, if any, influx of workers to the area. Likewise, the workers needed for operation of a potential OSDC would be drawn from the local workforce. It is estimated that an average of 209 local jobs from 2015 to 2025 would be needed to implement this alternative. The labor estimates are from the cost estimates for this effort (Appendix L). Some of these workers might come from existing PORTS activities and some might be new hires. There would be a small number of long-term jobs associated with the S&M of a potential capped OSDC.

Environmental Justice. EO 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations," requires agencies to identify and address disproportionately high and adverse human health or environmental effects its activities may have on minority and low-income populations. Although current assumptions suggest there would be no high and adverse human health or environmental impacts from constructing a potential OSDC, the actual circumstances would depend on specific choices made at the time of development of a potential OSDC. There is only one census tract near the plant where the minority population exceeds the percentage of minority populations for the state. Census Tract 0022, located in Scioto County, is located immediately south of Census Tract 9522 (location of PORTS) (U.S. Census Bureau 2011). No disproportionate effects on minority populations are anticipated; however, in the event adverse impacts occur, they are likely to have at least as much effect on populations that are in closer proximity to PORTS as on minority residents.

Many of the tracts in the ROI meet the definition of low-income populations, especially the tracts nearest PORTS in Pike County. However, these populations are also scattered among higher income populations. Any impacts that affect the low-income tracts are also likely to affect the higher income populations. Any health and environmental impacts that may occur to low-income populations are not expected to have a disproportionate effect. But no impacts to any populations are anticipated due to limited to no off-PORTS activities other than transportation.

Cumulative Impacts. Alternative 2 would have minimal cumulative impacts involving surface features, meteorology, surface water hydrology, geology, soil, hydrogeology, ecology, and irreversible and irretrievable commitments of resources. The design of a potential OSDC would prevent releases from the waste at unacceptable levels either to air, surface water, or groundwater. DOE processes and procedures as well as Ohio regulations would prevent releases of contamination during operation of a potential OSDC. Although historic activities at PORTS have had releases of contamination to the environment, there would be no additional contribution to this contamination from Alternative 2. The area where a potential OSDC most likely would be constructed, if selected, has not been impacted by historical contamination.

Short-term jobs would be added under Alternative 2, and the improved potential for reindustrialization on PORTS land could combine with the new off-PORTS industrial parks to create more jobs and income in the ROI, which would be beneficial cumulative impacts. Similarly, the remediation of PORTS and appropriate waste management, along with the development of the industrial parks, could collectively give more ROI land the potential for productive use. With regard to transportation, the commuter traffic at PORTS would combine with employment at the new industrial parks to increase peak daily traffic on U.S. Route 23, at the U.S. Route 23/State Route 32 intersection, and on other highways and roads in the ROI. Such cumulative increases in traffic volume at PORTS and in its vicinity could adversely impact road serviceability and driver safety, especially during peak daily traffic hours (early morning and late afternoon rush hours), but the impact would not be significant. The addition of a potential OSDC would not be expected to add to the contamination of environmental media at PORTS as a result of past operations. The additional carbon emissions are minimal compared to the emissions from the electrical power sources needed for current plant operations.

9.2.3 Alternative 3 – Off-Site Disposal

The off-Site disposal alternative involves transporting waste generated by DFF&O activities (RC-1) at PORTS to licensed or permitted off-Site disposal facilities, and disposal of the waste in those facilities. All volumes of waste are estimated to meet an off-Site disposal facility’s WAC. A detailed description of the off-Site disposal alternative is provided in Section 8.3.3.

9.2.3.1 CERCLA criteria analysis

9.2.3.1.1 Overall protection of human health and the environment

This alternative would protect human health and the environment and meet risk-based RAOs by removing D&D wastes (RC-1) generated at PORTS, transporting them off Site, and isolating them from the environment by disposal in engineered facilities. As appropriate, material would be recycled and/or reused.

Human health and the environment would be protected in the vicinity of the receiving facilities by disposing of contaminated material appropriately. Operation of these facilities is not likely to result in exposure to waste or releases to the environment because the facilities are designed, licensed, monitored, and maintained to ensure reliable waste containment. The addition of D&D waste (RC-1) from PORTS to these facilities would be protective because the waste would meet the WAC, which have been shown to be protective.

Worker risks from exposure during handling and preparation for transportation would be maintained to ALARA levels and comply with DOE Orders through implementation of engineering controls and health and safety plans developed in accordance with 29 *CFR* 1910.120(b)(4). The increased risk to transportation workers and the community from moving the waste within PORTS and off PORTS would be minimized by compliance with DOT requirements. The considerable transportation distances required for off-Site disposal would result in an increased potential for accidents that could result in injuries, fatalities, or containment releases. Transportation risks from vehicular accidents are detailed in Section 9.2.3.1.5.

9.2.3.1.2 Compliance with ARARs/TBCs

The actions included in the scope of the off-Site disposal alternative would comply with all ARARs and TBC guidance (identified in Appendix F). There are relatively few ARARs/TBCs for this alternative because there are no chemical- or location-specific ARARs after waste is removed from PORTS.

ARARs/TBCs for this alternative are limited to requirements associated with characterization, management, transportation, and disposal of waste. These requirements include packaging, labeling, recordkeeping, placarding, manifesting, and reporting under DOT and RCRA regulations (49 *CFR* 171-174 and 177; 40 *CFR* 261 through 273); TSCA (40 *CFR* 761); the CAA (40 *CFR* 61 and 82); Ohio EPA regulations; and DOE Orders 435.1-1, 458.1, and 460.1A, *Packaging and Transportation Safety*. As noted, only the substantive requirements apply to the entirely on-Site activities under this alternative (collection and preparation of the waste for off-Site transfer). DOE requirements to characterize and certify wastes before off-Site release would be triggered. Because DOE Order 435.1-1 specifies a preference for on-Site disposal of LLW, shipment to a commercial disposal facility would require an exemption. Similar exemptions have been routinely approved since DOE began using commercial disposal capacity in 1992.

The off-Site facilities used for this alternative would be appropriately licensed and qualified in accordance with 40 *CFR* 300.440, which requires the off-Site transfer of any hazardous substance, pollutant, or contaminant generated during CERCLA response actions to a treatment, storage, or disposal facility. This facility must comply with applicable federal and state laws and be approved by EPA for acceptance of CERCLA waste (see also the “Off-Site Rule” at 40 *CFR* 300.440 *et seq.*). Accordingly, DOE would verify with the appropriate EPA regional contact that any needed off-Site facility is acceptable for receipt of these D&D wastes (RC-1) before transfer; the waste would be required to meet the receiving facilities’ WAC. When wastes are transferred off Site, both administrative and substantive regulatory provisions of all legally applicable laws and regulations would need to be met. Accordingly, requirements for permitting, recordkeeping, assessments, or other nonsubstantive elements would be triggered. Administrative and substantive regulatory requirements would be met through the facility license or permit requirements. The owner/operator of the receiving facility would be responsible for all of its financial, operating, and post-operations requirements, including long-term S&M.

Plans that demonstrate compliance with ARARs will be referenced or included in follow-on design reports and will be submitted to Ohio EPA for review and concurrence.

9.2.3.1.3 Long-term effectiveness and permanence

For the off-Site disposal alternative, the long-term period is considered to begin when all candidate waste has been disposed off Site or, if needed, placed in appropriate storage facilities.

Magnitude of Residual Risk and Uncertainties

No residual risk from candidate waste would remain at PORTS subsequent to off-Site disposal of those wastes. At this time, there are no known waste streams that could not be disposed off Site, although the potential remains that some waste may not meet the off-Site facility WAC. The waste would be placed in off-Site engineered disposal facilities designed to isolate waste from the environment, significantly reducing the possibility of intrusion or the migration of contaminants away from the facility. For the portion of waste requiring treatment to meet facility WAC, the potential for contaminant mobility would be further reduced. The receiving facilities would be responsible for monitoring and maintenance to ensure the effectiveness of waste isolation. Acceptable risk levels would be achieved by compliance with existing licenses, permits, and regulatory requirements.

Different implications for long-term risk are associated with disposal at the representative off-Site disposal facilities. The Energy*Solutions* and NNSS facilities are located in an arid environment at a considerable distance from population centers. Low long-term risk to human health results from their remote location, very low precipitation, and the absence of a potable aquifer below the facilities. The municipal landfill in Pike County is also a representative disposal process option. This landfill is designed to isolate waste from the environment, but is located in a much more humid environment and is generally closer to human receptors. The greater amount of rainfall and proximity to human receptors create an environmental setting more conducive to contaminant mobilization and subsequent exposure than at western locations. However, long-term risk at the Pike Sanitation Landfill is low because of the restriction against disposal of hazardous or radioactive waste and the engineering and institutional controls at the facility.

Adequacy and Reliability of Controls

Under the off-Site disposal option, waste would be placed in licensed or permitted engineered disposal facilities that have been receiving wastes for a number of years and have operated in compliance with their permits and federal, state, and local regulations. Accordingly, reliance on specialized or unproven designs or procedures is not necessary to protect human health and the environment or meet risk-based RAOs over the long term. Reliance on proven technologies minimizes uncertainty associated with this alternative.

As part of the permitting process for disposal facilities, comprehensive studies are conducted to establish WAC based on the local environmental setting, site-specific conditions, and the proposed cell design. The WAC establish the waste types, waste forms, and specific contaminants and concentrations that can be disposed safely. The adequacy and reliability of controls for off-Site disposal would be ensured by meeting the WAC for the receiving facilities.

The containment systems at Energy*Solutions* and NNSS are designed to minimize the infiltration of precipitation that could mobilize contaminants. The arid climate and remote locations of the facilities allow the use of simple, durable designs and materials to effectively isolate the waste. This arid climate also contributes to the long-term reliability of the facilities' engineered features and reduces the required level of maintenance and frequency of repairs. The facilities' remote locations also lessen the chance for intrusion, thereby providing a natural enhancement to the effectiveness of institutional controls such as barriers and other security measures. The engineered and natural features at Energy*Solutions* and NNSS are expected to provide adequate and reliable safeguards over the long term. The total remaining capacity of each facility greatly exceeds the anticipated waste volumes from PORTS.

The Pike Sanitation Landfill, while proven successful over many years of operation, cannot accept LLW or hazardous waste, only solid waste. Most of the waste expected to be generated would require management for its radiological or hazardous waste content. The total landfill capacity is more than adequate to handle the 240,000 cy anticipated to be sent from PORTS.

Long-term Environmental Effects
For purposes of this evaluation, long-term environmental effects are those impacts that may be evident following receipt of the last shipment of waste off Site. Any potential environmental impacts associated with transportation, including air emissions and accidental release, would cease after this period. No long-term impacts to air quality, surface water, biota, wetlands, and aquatic or visual resources are anticipated at PORTS or in its vicinity from implementation of this alternative.

Potential long-term environmental impacts from the presence of PORTS wastes at the off-Site disposal facilities are expected to be minimal. These wastes would represent a relatively small portion of the total waste inventory, and the receiving facilities are designed to minimize long-term environmental impacts. No long-term impacts to air quality are expected from the inclusion of PORTS waste at the receiving facilities because emissions from vehicular use and construction activities for long-term monitoring and maintenance of the off-Site facilities would not increase.

9.2.3.1.4 Reduction of toxicity, mobility, or volume through treatment

Although the off-Site disposal alternative does not directly establish waste treatment requirements, wastes would be treated, as needed, before shipment or at the receiving facilities to meet WAC. The treatment of waste off Site at a disposal facility would result in the reduction of toxicity, mobility, or volume through treatment. The impacts of treating waste before packaging and shipment to off-Site disposal facilities are discussed in the documents for those projects generating waste.

9.2.3.1.5 Short-term effectiveness

Short-term effectiveness for the off-Site disposal alternative is evaluated for the period beginning with transport of the packaged waste at PORTS and ending with disposal of all candidate waste streams at the receiving facilities.

Protection of the Community during Remedial Action
Risk to the public from waste handling activities at PORTS would be extremely low. Public access would be restricted at waste handling locations. Activities would be governed by appropriate regulations and conducted by trained personnel. Risks at the receiving facilities would be controlled by compliance with permit requirements; access restrictions during disposal operations would minimize any impact to the community. For the off-Site disposal alternative, potential risk to the public would result only from shipment of hazardous and radioactive waste.

The risk of accidents from long-distance transportation of radioactive and mixed waste to Energy*Solutions* and NNSS by rail and truck and noncontaminated waste to the Pike Sanitation Landfill facility by truck has been calculated. Table 9.4 shows the risks of injury or fatality because of a transportation accident. The total potential injuries from off-Site transportation are estimated at 18.7 with the total potential fatalities estimated at 2.4. The truck estimates are thought to be estimated high because of the extra safety precautions DOE takes with transportation, which are not represented in the statistics.

Table 9.4. Projected Accident-related Injuries and Fatalities for the Off-Site Disposal Alternative

Transportation Method	Projected Accident-related Injuries	Projected Accident-related Fatalities
Truck to NNSS	15.9	0.9
Rail to Energy*Solutions*	2.8	1.5
Truck to Pike Sanitation Landfill	0.04	0.001

NNSS = Nevada National Security Site

While there is some risk that an accident may happen, packaging requirements are so stringent that the chance of waste material being released during a transportation accident would be small. Additionally, the small quantities of waste in a single shipment combined with the short time that any person could be exposed to a spill means that there would be no unacceptable risk if an accident were to occur and the load were to be released from the package.

Protection of workers during remedial action

The primary risks to workers for the off-Site disposal alternative would result from waste handling, waste transportation, and disposal activities. These activities would be conducted by trained personnel in accordance with ARARs/TBCs, DOT regulations, DOE requirements, approved health and safety plans, and ALARA principles. Radiation exposure would be minimized by compliance with DOT regulations and DOE requirements for waste packaging, as well as the use of shielding and limits on driver work schedules. Risk from disposal activities at the receiving facilities would be minimized by compliance with their permit requirements. The overall risk to workers for this alternative is low.

Local and long-distance transportation risks to truck drivers for this alternative are addressed above.

Short-term environmental effects

For this alternative, the primary short-term environmental risks would result from the potential for spills during transportation and handling. Adverse environmental impacts in the event of a spill would be minimal because wastes would not be in liquid form, waste volumes per shipment would be small, contaminant concentrations would be low for most waste streams, and response plans would be quickly implemented if a spill occurred.

The new facilities needed to support expanded rail shipments would be constructed at PORTS for the off-Site disposal alternative, and no short-term impacts on current or projected PORTS land use are anticipated. Accordingly, local surface water resources, biota, and archaeological resources would not be impacted. Potential environmental impacts on surface water, groundwater, terrestrial, wetlands, aquatic, cultural, and visual resources would exist primarily from the receiving facilities. Because these facilities are already operating and committed to waste disposal, the incremental increase of waste from PORTS would not result in significant additional short-term environmental impacts.

With regard to greenhouse gas emissions associated with PORTS, a significant source of CO_2 is employee transportation vehicles. DOE estimated that the 2,700 existing employees on PORTS resulted in approximately 9,900 ton of CO_2 emitted annually from employee vehicles (Section 3). In addition, to support current annual electrical requirements at PORTS (approximately 250,000 MWh), approximately

247,500 ton of CO_2 are emitted. This amount, combined with the employee vehicle emissions, means the total existing CO_2 footprint of PORTS is approximately 257,400 ton per year. Appendix K provides calculations to illustrate that truck traffic and rail traffic moving waste to off-Site disposal facilities would result in an addition of 91,000 ton of CO_2 emissions over the course of the project. (These calculations do not include the emissions from heavy equipment that would be present at the off-Site disposal facility.) Assuming a 20-year project time frame, the additional CO_2 emissions from building and operating a potential OSDC are roughly 50 percent of the commuter traffic and less than 3 percent of the total annual carbon footprint of PORTS.

Exhaust emissions from waste transportation vehicles would have a negligible impact at PORTS or along transportation corridors used for waste shipment. Waste transportation trucks operate under required emission controls. The use of railroads for transport of the largest volumes of waste would decrease vehicle emissions. Fugitive dust generated by truck travel on dirt or gravel access roads would be minimized by dust control measures at the generator areas, PORTS, and receiving facilities. The increase in noise levels along transportation routes would be inconsequential. Noise levels associated with activities at waste-generating areas and packaging and disposal facilities would be minimized by compliance with health and safety plans, which provide appropriate noise controls at these facilities.

Duration of Remedial Activities

Significant waste generation, transportation, and disposal activities are assumed to occur for 20 years, depending on the volume of material generated and the funding available. The funding profile assumed was that available in early FY 2012. There is the potential that the schedule for implementing Alternative 3 could increase if annual funding is decreased. The major impact of this schedule extension is to costs and is discussed further in the cost evaluation.

9.2.3.1.6 Implementability

This alternative is implementable. It would entail meeting administrative and technical requirements to coordinate the transportation and off-Site disposal of waste, and the continued availability of off-Site disposal capacity.

Administrative Feasibility

Implementation of this alternative would require compliance with state and federal regulations; compliance with licensing, permitting, and DOE administrative requirements; agreements by regulatory agencies in Utah and Nevada to receive waste; and possibly agreements by regulatory agencies in several states for the interstate shipment of waste to Utah and Nevada.

A review of state and federal regulations (addressed in Appendix F) indicates that there are no provisions that would prohibit shipment of waste derived from PORTS to the receiving facilities. These facilities are appropriately licensed or permitted and qualified per 40 *CFR* 300.440, and administrative and substantive regulatory requirements for handling and disposing of waste would be met through compliance with facility permit requirements. Shipment of waste from PORTS would require an exemption from the DOE Order 435.1-1 preference for on-site disposal. Similar exemptions have been routinely approved since DOE began using commercial disposal capacity in 1992.

PORTS has shipped waste to Pike Sanitation Landfill. Past D&D waste from PORTS administration buildings, known to be clean through process knowledge, has been shipped to this landfill. The primary challenge with shipping D&D waste to the local landfill is demonstrating that it does not need to be managed for its radiological and/or hazardous content and that it can be released from controls using the process set forth in DOE Order 458.1.

Agreements between and among states for the shipment and disposal of waste involve the issue of state equity, that is, the balance of benefits associated with activities that generate waste and the burden of resulting lifecycle waste management. Central to state equity issues are the elements of reciprocity, equitable federal allocation of monetary resources, and protection of human health and the environment. For example, stakeholders in Utah, states along the transportation route between Utah and Ohio, and other states that dispose of DOE wastes may assert that Ohio should retain the DOE waste generated from Ohio-based operations. Conversely, Ohio stakeholders may argue that all of this waste should not be disposed of within the state because it was generated by a federal agency, and all states have benefitted directly or indirectly from PORTS operations. It is DOE policy that state equity issues be addressed cooperatively with the states in appropriate public forums, primarily through the National Governors Association.

The regulatory and administrative viability of off-Site waste transportation and disposal is indicated by past and current operations. Previous PORTS shipments to Energy*Solutions* and NNSS demonstrate that sustained waste shipment to these facilities is feasible. The States of Utah and Nevada, as well as states along the transportation route between Ohio and Utah and Nevada, have historically agreed to the transport and disposal of DOE wastes. Therefore, it is likely that these states would not object to continued operations. Challenges to the administrative feasibility of this alternative could result from future changes in state acceptance of waste transport and disposal.

Technical Feasibility
The technical feasibility of the off-Site disposal alternative depends directly on the implementability of waste transportation, waste disposal, and supporting activities. All of these activities are done every day at DOE facilities, including PORTS. Technical feasibility indirectly depends on the implementability of treatment, storage, and other waste generator activities, again performed every day at PORTS. The implementability of the technologies currently available for these components is proven and reliable for most waste projected to be generated at PORTS, resulting in a low degree of uncertainty for the implementation of this alternative. It is expected that this alternative could be implemented without schedule delays resulting from technical complications. The only technical uncertainty relative to this alternative is the availability of treatment and disposal options for waste exceeding the off-Site facilities' WAC. If significant volumes of waste were generated and no treatment or disposal options could be identified for this waste, a technical challenge to implementability could ultimately result. Currently, all waste volumes are estimated to meet an off-Site disposal facility WAC.

Site conditions at the receiving facilities are well known, and potential migration pathways are monitored to detect any contaminant releases and evaluate the effectiveness of waste confinement. Should a release go undetected at the off-Site hazardous waste facilities, the risk of exposure would be slight because there are few potential receptors in the vicinity of the facilities and no potable water aquifers underlie the facilities.

Availability of Services and Materials
Services and materials required for waste transportation, treatment, storage, and disposal, as well as supporting construction activities for implementation of the off-Site disposal alternative, would be readily available. Rail and truck transportation have been used to ship PORTS waste in the past. Treatment services, anticipated to consist primarily of stabilization and solidification, are available at the receiving facilities. Treatment materials such as cement and fly ash would also be readily available. Waste management facilities and services are available at PORTS, including the administrative infrastructure to support comprehensive waste handling and storage operations. Supporting construction activities that may be required would involve the use of standard construction equipment, trades, and materials.

The Energy*Solutions* and NNSS facilities, the representative process options for off-Site disposal, are permitted to treat and dispose of most waste types, forms, and quantities expected to be generated by the remediation of PORTS. Both facilities currently accept comparable waste. Because waste disposal services would be required for only 18 to 20 years, the services currently provided are likely to be available for the duration of this alternative. Several other facilities are available to accept hazardous waste, and some facilities can accept LLW. However, at present, no facilities other than Energy*Solutions* and NNSS can accept mixed wastes. These other facilities can be considered during the design phase of this project to assure capacity and to implement a cost-effective remedy. At least one other mixed waste treatment/disposal facility has been proposed, but it has not received state or federal licenses to accept waste. State equity issues could affect the future availability of disposal services to support the off-Site disposal alternative. Disposal capability would have to be assessed throughout implementation of the alternative to determine the viability of continued cost-effective, reliable, and safe off-Site waste disposal.

9.2.3.1.7 Cost

The estimated total project unescalated capital cost is $1.4 billion in FY 2013 dollars. The present worth cost is $1.1 billion. Table 9.5 provides a breakdown of total project costs.

Table 9.5. Cost Estimates for the Off-Site Disposal Alternative at PORTS

Project Cost Item	Cost
UNESCALATED CAPITAL COSTS	
Direct Costs:	
Infrastructure Construction	$17,620,000
Recyclables Staging	$14,500,000
Off-Site Shipment and Disposal	$1,362,000,000
Total Direct Cost	**$1,394,000,000**
Indirect Costs:	
Regulatory Documents	$190,000
Remedial Design	$2,270,000
Total Indirect Cost	**$2,500,000**
TOTAL CAPITAL COST	**$1,397,000,000**
Capital Cost (Present Worth)	**$1,122,000,000**
S&M Cost (Present Worth)	**$0**
TOTAL PROJECT COST (PRESENT WORTH)	**$1,122,000,000**

S&M = surveillance and maintenance

Off-Site disposal alternative costs are based on the technical scope and assumptions described in Section 8.3. The cost estimates for the off-Site disposal alternative are based on the following additional assumptions:

- Costs for waste transport to Energy*Solutions* are based on rail transport, which is less costly than truck transport, and information received from a local transportation vendor. A 30-day round-trip duration for a unit train with 55 railcars and its associated containers is assumed. Mobilization/ demobilization fees for railcars and containers are assumed to be minimal and are not included. Any costs for capital improvements that could be needed at the truck-to-rail transfer facility or elsewhere are assumed to be included in the transportation fees.

- Disposal fees at Energy*Solutions* are based on FY 2011 contract rates with DOE escalated to FY 2013. Disposal fees consider actual as-shipped waste volumes. Energy*Solutions* disposal fees for certain waste forms are based on the total container volume, including any void space for under-filled containers.

- No contingency costs are added to the off-Site disposal alternative cost estimate.

- Wastes classified as mixed wastes at the generator area are assumed to be subject to mixed waste disposal fees at Energy*Solutions*, which are more than three to five times higher than LLW disposal fees. It is possible that treatment of mixed waste to meet RCRA LDRs could remove the hazardous characteristics of some mixed waste streams and that these wastes could then meet the WAC for LLW disposal at Energy*Solutions*. Therefore, the disposal fees at Energy*Solutions* for some mixed waste streams may be overestimated.

- No costs for long-term storage and eventual disposal of wastes not meeting the WAC for off-Site disposal facilities are included.

- The DOE contribution to long-term S&M costs at the off-Site facilities is assumed to be included in the disposal fee. It is assumed that these fees are used to set up a fund to account for future S&M costs. The contribution of the waste in this alternative to the long-term S&M costs at an off-Site disposal facility cannot be estimated.

- Indirect costs such as project management costs and development of health and safety plans are assumed to be included in vendor transportation and disposal fees, and no additional costs are included for the off-Site disposal alternative.

- The schedule is dependent on the funding allocated. However, there is very little cost dependency on schedule although there are some minor routine costs associated with storing recyclable materials.

Additional details on the cost estimates are provided in Appendix L.

9.2.3.2 Other criteria analysis

9.2.3.2.1 Irreversible and irretrievable commitment of resources

Waste packaging, handling, and transportation activities would require an irreversible and irretrievable commitment of fuel (8 million gal of diesel fuel) and other nonrenewable energy resources. Most of the waste packaging containers would be reused. Treatment of waste to meet receiving facility WAC would also require the commitment of stabilization/solidification agents such as cement and fly ash. An irreversible loss of geologic material such as gravel and borrow material would occur at the off-Site disposal facility.

Implementation of the off-Site disposal alternative would require the irreversible and irretrievable commitment of land at the disposal facilities. Land at the receiving facilities is already dedicated to waste disposal, and the addition of PORTS waste would not alter that level of commitment. Waste from this project would represent less than 10 percent of the total space currently available at Energy*Solutions* or NNSS. There would be no long-term commitment of land at PORTS or in its vicinity. Because of the location of most of the off-Site disposal facilities, there should be little to no impact on other natural resources such as fish, wildlife, biota, air, surface water, groundwater, or a drinking water supply.

9.2.3.2.2 NEPA values

Socioeconomics and Land Use. There would be no direct, long-term socioeconomic impacts to PORTS and its vicinity from activities associated with off-Site transportation of waste under this alternative. Potential long-term socioeconomic benefits could be realized from the potential release or reuse of land resulting from the remediation of PORTS.

Disposal of PORTS waste at the receiving facilities is not expected to have long-term socioeconomic or land use impacts in the vicinity of those facilities. These facilities are already operating and are committed for the long-term to waste disposal and supporting operations. The incremental increase of waste from PORTS in these facilities would not affect the existing long-term land use commitment and would have little or no impact on the workforce required for operation and maintenance. No changes in local population or nearby industrial or commercial operations would be expected.

Based on the cost estimate, approximately 40 local jobs on average from 2014 through 2030 have been estimated to be associated with loading waste onto trucks and railcars at PORTS. However, a large portion of the funds would be distributed to vendors outside of the local community, particularly to the off-Site disposal facilities. Only minimal infrastructure would be constructed for local facilities, and only minor modifications would be required for existing facilities. Because the receiving facilities are already operating, the manpower required to support facility infrastructure is already in place. The incremental increase in waste from PORTS could increase short-term manpower needs at these off-Site facilities.

Potential short-term socioeconomic benefits could be realized from the potential reuse of land resulting from the remediation of PORTS. The overall short-term impact on the local economy, population, or commercial and industrial environment depends on future specific remediation decisions.

Environmental Justice. EO 12898, “Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations,” requires agencies to identify and address disproportionately high and adverse human health or environmental effects its activities may have on minority and low-income populations. Although current assumptions suggest there would be no high and adverse human health or environmental impacts, the actual circumstances would depend on specific choices made at the time of transportation and disposal. There is only one census tract near the plant where the minority population exceeds the percentage of minority populations for the state (U.S. Census Bureau 2011). Census Tract 0022, located in Scioto County, is located immediately south of Census Tract 9522 (location of PORTS). No disproportionate effects on minority populations are anticipated; however, in the event adverse impacts occur, they are likely to have at least as much effect on populations that are in closer proximity to PORTS as on minority residents.

Many of the tracts in the ROI meet the definition of low-income populations, especially the tracts nearest the plant in Pike County. However, these populations are also scattered among higher income populations. Any impacts that affect the low-income tracts are also likely to affect the higher income populations. Any health and environmental impacts that may occur to low-income populations are not expected to have a disproportionate effect. But no impacts to any populations are anticipated due to limited off-Site activities other than transportation.

Cumulative Impacts. Alternative 3 would have minimal cumulative impacts involving surface features, meteorology, surface water hydrology, geology, soil, hydrogeology, ecology, and irreversible and irretrievable commitments of resources. Loading trucks or railcars could result in spills, but careful implementation of DOE processes and procedures, as well as following Ohio regulations, would prevent any contribution of environmental contamination. Once the D&D waste (RC-1) has been removed from

PORTS, there is no mechanism for a long-term impact to the environment at PORTS as a result of D&D waste.

Potential reindustrialization on PORTS land could combine with the new industrial parks to create more jobs and income in the ROI, which could be beneficial cumulative impacts. Similarly, the reuse of land at PORTS and the new industrial parks would collectively put more ROI land into productive use. With regard to transportation, an increase in waste transportation at PORTS would combine with employment at the new industrial parks and employment to support D&D to increase peak daily traffic on U.S. Route 23, at the U.S. Route 23/State Route 32 intersection, and on other highways and roads in the ROI. Such cumulative increases in traffic volume at PORTS and in its vicinity could adversely impact road serviceability and driver safety, especially during peak daily traffic hours (early morning and late afternoon rush hours). The emissions from trucks and trains transporting the waste to other locations would increase the carbon footprint of PORTS by roughly 3 percent.

9.3 COMPARATIVE ANALYSIS OF ALTERNATIVES

This comparative analysis evaluates the relative ability of the alternatives to meet the CERCLA evaluation criteria as well as the other criteria considered in the individual analysis. The no-action alternative is not considered to be protective, a threshold criterion. The on-Site disposal alternative would be less costly than the off-Site alternative, but parts of PORTS would have to be permanently dedicated to waste disposal, resulting in impacts on future land use and the environment. The off-Site disposal alternative would remove the wastes completely from PORTS, but long-distance waste transportation in the short term could result in more accidents and is expensive. Table 9.6 presents a summary of the comparative analysis.

Table 9.6. Comparative Analysis Summary

Evaluation Criteria	No-action Alternative	On-Site Disposal Alternative	Off-Site Disposal Alternative
Overall protection of human health and the environment	Not considered protective. Degrading buildings would release contaminants at levels of concern.	Considered protective. Greater protection in the short term because of decreased transportation risks. Equally protective as off-Site alternative for at least 1,000 years.	Considered protective. Equally protective as on-Site alternative for at least 1,000 years. Off Site could be more protective sometime after 1,000 years because of less rainfall.
Compliance with ARARs/TBCs	No ARARs (per EPA OSWER Directive 9234.2-01/FS-4, there are no ARARs for a no-action alternative).	Needs a waiver from *OAC* 3745-27-07(H)(4)(d). Meets all other ARARs.	Meets all ARARs/TBCs.
Long-term effectiveness and permanence	Not effective at protecting human health or the environment.	Very effective for 1,000 years. Permanent use of land-use restrictions and loss of ecological habitat at disposal cell.	Very effective for long-term. Land use at disposal facilities already committed. Waste volume represents small percentages of facility capacity.

Table 9.6. Comparative Analysis Summary (Continued)

Evaluation Criteria	No-action Alternative	On-Site Disposal Alternative	Off-Site Disposal Alternative
Reduction of toxicity, mobility, or volume through treatment. (Actions do not directly establish waste treatment requirements, but waste generators would be required to treat waste as needed before disposal.)	No reduction of toxicity, mobility, or volume.	Disposal facility would not provide any reduction of toxicity, mobility, or volume. Minor reductions through centralized size reduction or decontamination operations.	Disposal facility would not provide any reduction of toxicity, mobility, or volume except where treatment is used at off-Site disposal location to meet waste acceptance criteria.
Short-term effectiveness	No action means no short-term impacts, so effective in the short-term.	Some transportation risks from import of construction materials and transport of waste to NNSS. Some adverse environmental impacts at the on-Site facility from construction and operations, including fill excavation, but would be controlled by appropriate engineering and construction practices.	Transportation risks would increase significantly for the off-Site alternative over no action and over on-Site disposal. Only minor, incremental environmental impacts would occur at the existing off-Site facilities.
Implementability	No implementation required.	Administrative requirements are considered achievable. Construction, fill excavation, and operations are straightforward and readily implementable. Services and materials are readily available. A significant construction effort is still involved.	Administrative and technical requirements are implementable. Disposal relies on commercial facilities; continued availability is likely but uncertain. State equity issues may interfere with future availability.
Cost	No costs.	Present worth cost is $882 million.	Present worth cost is $1.1 billion.
Other Evaluation Criteria	Impact on adjacent land value from residual contamination. Adds to the historic contamination present.	Long-term commitment of 100 acres of land. Uses large volumes of geologic materials. Some socioeconomic benefit from local jobs.	Uses large volume of fuels. Some socioeconomic benefit from fewer but longer-lasting jobs.

ARAR = applicable or relevant and appropriate requirement
EPA = U.S. Environmental Protection Agency
NNSS = Nevada National Security Site
OAC = Ohio Administrative Code
OSWER = Office of Solid Waste and Emergency Response
TBC = to-be-considered

9.3.1 CERCLA Criteria Analysis

9.3.1.1 Overall protection of human health and environment

The no-action alternative is not considered to be protective. It allows the continued degradation of buildings and the accumulation of waste across the plant. This waste can be a future risk to on-PORTS receptors, both human and ecological. Both of the action alternatives are protective. Extensive engineering controls provide protection of human health and the environment, both in the short term and long term. The off-Site disposal alternative may be more protective over the long term (after at least 1,000 years) because Energy*Solutions* and NNSS, the representative disposal facilities for most wastes, are in an arid environment. Overall long-term protection provided by the on-Site alternative (Alternative 2) is acceptable as shown by the fate and transport modeling performed to evaluate modeled WAC for a potential OSDC and by assessing the impacts if the leachate collection/treatment system failed. The effectiveness of institutional controls in restricting actions always has some long-term uncertainty but is similar between on-Site and off-Site disposal.

Both action alternatives would require local and long-distance transportation of construction material and waste. The construction of a potential OSDC or the significant off-Site transport of waste would increase the probability of normal industrial or transportation accidents. Because of the greater volumes of waste shipped over long distances, transportation risks are greater for the off-Site alternative.

9.3.1.2 Compliance with ARARs/TBCs

No ARARs/TBCs are directly associated with the no-action alternative.

A potential OSDC would be designed to meet all ARARs/TBCs except for the siting requirement in *OAC* 3745-27-07(H)(4)(d). Section 8.2 demonstrated that no location on PORTS suitable for constructing a LLW disposal facility could meet all siting requirements or other ARARs. The representative location, Site D, meets most of them and lessens the impact on the environment. A waiver from the 200-ft distance from a stream is needed to ensure the protectiveness and cost-effectiveness of a potential OSDC. The justification for this waiver was provided in Section 9.2.2.1.2. Based on previous granting of numerous waivers at other locations across the nation, the requirement for such a waiver is considered administratively achievable. Certain location-specific ARARs could require mitigation of adverse impacts, but these impacts and requirements are expected to be minimal, and mitigation should be readily implementable.

The off-Site alternative would comply with all ARARs/TBCs (limited to requirements associated with on-Site activities in connection with the transportation of waste), assuming the disposal facilities are in compliance with their licenses and permits.

9.3.1.3 Long-term effectiveness and permanence

The no-action alternative is not effective at achieving RAOs. All of the action alternatives are very effective at protecting human health and the environment. The off-Site disposal alternative may offer a slightly higher level of long-term protectiveness because the climate and hydrogeology offer the highest potential for permanence of containment. Alternative 3 would remove 100 percent of the curies in the buildings while Alternative 2 would remove a smaller amount, but still the majority of curies, from PORTS by removing those waste streams that do not meet the WAC. On-Site disposal would be protective for at least 1,000 years (modeling indicates beyond 1,000 years) for those curies and other amounts of contaminants disposed. The wetter climate could be considered less protective than the arid off-PORTS climates, but the WAC and cell designs would accommodate the wetter climate.

Preventing exposure to contaminants placed in any disposal cell over the long term depends on the success of engineered barriers and institutional controls. A potential OSDC cover and intrusion barrier would be designed to discourage penetration of the cover by humans, burrowing animals, or tree roots. Institutional controls would restrict access and prohibit actions that could penetrate the cover and expose the waste. The effectiveness of the engineering and institutional controls would decrease after active maintenance ceases and sufficient time passes. However, barring extraordinary efforts to penetrate the cover, it should remain effective for hundreds to thousands of years. While the cover remains in place, migration of contaminants into groundwater and surface water is the only credible pathway for exposure. Modeling indicates that exposures would be within an acceptable risk range at the designated receptor locations downgradient of the disposal cell. This assumes that the disposal cell remains intact, it performs as predicted, and institutional controls adequately prevent unacceptable uses of the disposal location. However, calculations show that even if the leachate collection/treatment system fails, releases of leachate to the adjacent surface water bodies would not cause an unacceptable impact.

The off-Site disposal alternative also relies on institutional controls at the off-Site disposal facilities to prevent inadvertent intrusion. The engineered barriers to intrusion and waste migration at Energy*Solutions* and NNSS are similar to the barriers proposed for a potential OSDC in nature and reliability; therefore, the risk of direct exposure to the waste would be roughly similar for the on- and off-Site alternatives. Energy*Solutions* and NNSS, where most wastes (LLW, TSCA, and mixed wastes) would be disposed of, are in arid environments (far from population centers) that reduce the likelihood of contaminant migration or exposure via groundwater or surface water pathways.

Other than replacement of woodland habitat with grass and shrub habitat at the disposal cell, long-term environmental impacts from the on-Site alternative would be small. For the off-Site alternative, the long-term environmental impacts from the incremental increase in disposal volume at the existing facilities would be negligible.

Land use within the permanent institutional control boundary of a potential OSDC would be restricted. Other areas used during construction and operation could be released after facility capping.

9.3.1.4 Reduction of toxicity, mobility, or volume through treatment

The disposal alternatives evaluated do not directly treat waste, but some credit can be taken for the alternatives to reduce the toxicity, mobility, or volume through potential centralized size reduction or decontamination efforts. Generally, the reduction of toxicity, mobility, or volume for individual waste streams through treatment would be evaluated in project-specific decision documents. Treatment of each waste stream by the waste generator, as required to meet the WAC of the selected disposal facility, would be similar for the on- and off-Site alternatives and would reduce toxicity and mobility of contaminants.

9.3.1.5 Short-term effectiveness

The no-action alternative would present no specific short-term risks to the community or workers. The on-Site disposal alternative presents the greatest challenges to the PORTS area during remediation. Construction and operation of the on-Site disposal facility would present more worker and local community risk and impacts to human health and the environment than off-Site disposal, which does not involve extensive new construction. There would be significant truck traffic transporting construction and fill material to and from the potential OSDC location. Off-Site disposal would generate few local impacts and only minor, incremental impacts at the receiving disposal facility. Off-Site disposal would result in additional risk from long-distance transportation.

Under all the alternatives evaluated, risks to workers and the community from actions at the remediation locations and disposal facilities would be controlled through compliance with regulatory requirements and health and safety plans. Excavating fill borrow locations that contain landfills would increase the need for additional planning and oversight to control potential risk to workers. These risks would be similar and would be comparable to risks for industrial operations.

Short-term environmental impacts would be least for the no-action alternative, minimal for the off-Site disposal alternative, and greatest for the on-Site disposal alternative. Environmental impacts during implementation of the off-Site disposal alternative could result from a spill during transport and handling, but there is a low risk of a spill and only minor adverse impacts would result. Vehicles along the transportation corridor would cause an inconsequential increase in pollution and noise levels. The CO_2 emissions would increase for both alternatives but would be a small percentage of the current PORTS CO_2 emissions. The additional environmental impacts at the receiving off-Site disposal facilities would be negligible, over and above those caused by current and continuing operation of the facilities.

Construction and operation of the on-Site disposal facility would cause local, short-term environmental impacts typically associated with a large construction project. Sensitive human receptors (at residences, churches, and schools) would not be impacted because of the distance from these receptors. Disturbance of terrestrial resources would be expected, with land use resulting in temporary losses of habitat; destruction of small, limited-range animals; and displacement of wildlife adjacent to the construction areas. Direct impacts on wetlands, streams, and cultural resources would be small but present. These impacts would be mitigated in accordance with associated ARARs. No impact is expected to T&E species. A potential for releases to the environment during excavation of contaminated sources of fill would need to be assessed and controlled. As discussed previously, additional assessments of impacts on protected resources, if present, would be performed, and mitigation measures would be identified and implemented in consultation with the appropriate state or federal agencies.

The duration of disposal activities for the on- and off-Site disposal alternatives would be based on potential funding and on the logistics of moving waste. It is assumed to take 10 to 12 years to complete Alternative 2, while off-Site disposal of the same volume of waste is assumed to take 20 years based on the funding profile available in early FY 2012. A decrease in available funding would delay the operations of both alternatives comparably. The major impact from lower funding would be an increase in costs with the costs for Alternative 2 increasing faster than costs for Alternative 3. The cost impacts are discussed further in the Cost Evaluation section.

For all alternatives, the most significant risks to the public would result from waste transportation. Potential risks result from exposure to gamma radiation during normal (accident-free) transportation, exposure to radionuclides during accidents, and physical trauma associated with accidents (regardless of the waste being carried). The risk from exposure to radiation during transportation would be extremely low for both on- and off-Site disposal and is not a discriminating factor between the alternatives. However, because of the increased transportation miles, the risk would be inherently greater for Alternative 3. The additional risk of injury or fatality for the off-Site disposal alternative (over two times the number of potential injuries and a nearly five times higher number of potential fatalities than for Alternative 2) is the result of added transportation miles. Although the accident rate for rail is much less than for truck, the accidents are more serious with more fatalities per accident. The estimated fatalities are 0.55 for Alternative 2 and 2.4 for Alternative 3.

9.3.1.6 Implementability

All of the considered alternatives are implementable. All are administratively and technically feasible, although the on-Site component presents greater technical challenges. Services and materials for either action alternative are readily available, although the continued availability of the off-Site disposal capacity is uncertain.

All alternatives are administratively feasible. Development of a potential OSDC would require cooperation with and support from federal and state regulatory agencies, and must include public involvement. For those wastes exceeding a potential OSDC's WAC, administrative feasibility of off-Site shipment and disposal has been demonstrated by successful past shipments.

The off-Site disposal alternative is also administratively implementable. Agreements with state agencies for interstate shipment of waste, and with the States of Utah and Nevada for disposal of waste, have been made in the past, and future agreements may be obtainable. A DOE exemption from the requirement to dispose of LLW at the generation area or at another DOE facility could also be readily obtained.

The technical components of the on-Site disposal alternative would be straightforward to implement using existing and readily available technologies. Off-Site disposal would also be straightforward to implement.

Once the wastes are disposed of on Site or off Site, the need for additional actions in the future would be extremely unlikely. If required, additional actions would be difficult to implement or verify, and they would be very costly for either disposal alternative. The main difference between the on- and off-Site disposal alternatives is the requirement for construction of a potential OSDC versus the long-distance transport requirements for off-Site disposal. Both are readily implementable, but construction of a potential OSDC is more complex.

Services and materials needed for construction and operation of a potential OSDC, or for shipment and disposal of waste under the off-Site alternative, are readily available. Disposal capacity is available for waste that would not meet on-Site facility WAC, under the on-Site disposal alternative, and would require off-Site disposal. Storage capacity would be available for waste not meeting any facility's WAC. Disposal capacity is currently available at the representative off-Site disposal facilities. While several facilities would be available for the small volume of RCRA/TSCA hazardous waste in the candidate waste streams, Energy*Solutions* and NNSS are the only current facilities available that can accept mixed waste for disposal. Some other facilities could accept LLW, but no contracts are in place between these facilities and DOE-PORTS. In addition, there are other administrative impediments. The continued availability of any current commercial facilities for the duration of waste generation is likely. New commercial mixed waste disposal facilities may be developed.

Because of state equity issues, it is possible that public concerns regarding shipments outside of Ohio could affect the availability of off-Site disposal facilities. These concerns could be addressed through appropriate channels such as the National Governors Association and could affect off-Site transport or disposal of waste. The on-Site disposal alternative provides a greater level of certainty that long-term disposal capacity would be available.

9.3.1.7 Cost

Projected present worth costs for the on-Site disposal alternative are lower than the off-Site alternative costs (Table 9.5). Present worth costs, which were evaluated at 1,000 years to include the performance period assessed, are used for comparison between alternatives. There are no costs for the no-action alternative.

The present worth cost of on-Site disposal is estimated to be $882 million, and the present worth cost of off-Site disposal is estimated to be $1.1 billion. Annual S&M costs are associated with Alternative 2. Because DOE would incur these costs, they have been estimated. There are long-term S&M costs that would exist for the off-Site disposal alternative, but they are already factored into the disposal fee and, as such, cannot be estimated as S&M costs.

If the schedule were doubled, and even tripled, Alternative 2 would remain less expensive than Alternative 3, both with respect to capital costs and to present worth costs. A decision based on cost would remain the same. However, because there are set costs associated with operating a potential OSDC regardless of the quantity of waste received, the less waste that is received in a unit time, the more expensive per cy on-Site disposal would become. Comparable routine costs are insignificant in Alternative 3. If the schedule were increased by four to five times the current assumption, Alternative 3 would become less expensive than Alternative 2.

9.3.2 Other Criteria Analysis

9.3.2.1 Irreversible and irretrievable commitment of resources

Both alternatives use some resources that would be irreversible and irretrievable. A potential OSDC would require the use of nearly 320 acres of land that could not be used for other purposes in the near-term with 100 acres not ever available. Nearly 2.5 million cy of geologic resources would be used in the construction of a potential OSDC, and up to 2.3 million cy of soil may be used in the operation of a cell to provide an appropriate EC-1/EC-2 ratio. If a source of fill is selected that contains additional waste requiring fill (EC-2), the amount of fill would increase. Alternative 2 would require over 5 million gal of fuel for the trucks bringing construction materials on Site and removing some of the waste to off-Site disposal locations. Alternative 3 would require over 8 million gal of diesel fuel to transport the waste off Site.

9.3.2.2 NEPA values

There is the potential for long-term socioeconomic impacts from the presence of a potential OSDC at PORTS. A landfill could render nearby areas, both on the DOE property and off PORTS, less desirable for certain uses, depending on local acceptance. The 320 acres of land dedicated to a potential OSDC and support facilities would be only available for that use in the short-term, with 100 acres not available in the long-term. Removal of all waste from PORTS would not result in any negative long-term socioeconomic impacts.

The socioeconomic impacts in the short-term center around the jobs created by each alternative. Alternative 2 produces more jobs locally but for a shorter period of time (12 years). Based on the cost estimate, Alternative 3 produces fewer jobs locally but for a longer period of time (20 years). Local jobs have a positive impact on the surrounding economy. However, the remediation jobs, regardless of which alternative is selected, would not notably increase the total PORTS jobs over current levels.

Neither alternative has significant cumulative impacts to environmental resources when considered with past operations at PORTS as well as new construction in the area. A potential OSDC would be designed to not release contaminants to the environment at unacceptable levels, so there should be no contribution to on-PORTS contamination. The increased traffic on nearby roads resulting from either alternative is not thought to conflict with increased construction traffic at nearby industrial parks because of the existing light traffic on the roads and the small construction efforts at other locations. However, there may be some impacts to driver safety, especially during peak daily traffic hours.

9.3.3 Summary of Differentiating Criteria

Table 9.5 summarizes the similarities and differences among the alternatives. The no-action alternative is not protective and does not meet that threshold criterion.

For most of the evaluation criteria, the differences between on-Site and off-Site disposal are minor. Three key criteria differentiate between the on-Site and off-Site alternatives: (1) short-term transportation risk, (2) duration, and (3) cost.

The statistically-based number of injuries from an accident is 8.8 for Alternative 2 while the same risk is 18.7 for Alternative 3 (off-Site disposal). The statistically-based number of fatalities would be 0.55 for Alternative 2 and 2.4 for Alternative 3.

Alternative 3 could take almost two times as long to implement as Alternative 2. The logistics of moving the large quantity of waste across the country via railroad is more challenging than moving that amount of waste across PORTS.

The present worth costs for the on- and off-Site disposal alternatives are $0.882 billion and $1.1 billion, respectively.

9.4 EVALUATION OF IMPACTS/IMPLICATIONS OF CO-DISPOSAL OF NON-D&D WASTE (RC-2) FROM FUTURE OHIO CONSENT DECREE ACTIVITIES

Up to an estimated 710,000 cy of non-D&D waste (RC-2) from the clean-up of soils and groundwater may be generated at the Portsmouth GDP. Such potential waste streams are associated with environmental media cleanup activities to be conducted under the Ohio Consent Decree and for which DOE might seek exemptions under Ohio laws and regulations to allow placement of such waste stream in any potential OSDC that might be constructed as a result of the Site-Wide Waste Disposition Evaluation Project. The 710,000 cy is an estimate established for the purposes of conducting a complete and thorough evaluation of the alternatives. The actual volume of any non-D&D waste (RC-2) from future Ohio Consent Decree activities will be determined based on several factors. Although the decision supported by this RI/FS is not making a remediation or disposal decision for the potential RCRA material, it is appropriate to understand the impacts this waste may have on the waste disposition decision and, more specifically the WAC and cell design.

Should authorization to allow such waste to be placed in a potential OSDC be requested by DOE and granted by Ohio EPA, the non-D&D waste (RC-2) may be disposed in a potential OSDC. The WAC for a potential OSDC has considered contaminants that may be present in this non-D&D waste (RC-2), and the conceptual design of a potential OSDC has considered the presence and volume of this contamination to ascertain any potential impacts on the long-term effectiveness, short-term effectiveness, and implementability of Alternative 2. The same degree of long-term effectiveness is achieved even if the non-D&D waste (RC-2) is included because the WAC and design considered the potential presence of this waste. All of the transportation of the non-D&D waste (RC-2) would occur on PORTS, so there is no increase in transportation accidents and no new technology is needed to move more contaminated soil to a potential OSDC. Cost impacts are expected to be minor. The cost may increase slightly from constructing and closing additional capacity at the potential OSDC, as well as loading the additional volume into the cell, but these costs are lessened by the fact that soil disposal requires no size reduction and is easily transported to a potential OSDC. Depending on the volume and when the additional waste is generated, there may be no impact to the size of the potential OSDC, which would reduce any cost increase even further. Regardless, the 5 million cy of cell capacity contemplated in this RI/FS would more than adequately cover the maximum additional volume that might be generated under the Ohio Consent Decree (RC-2).

HIGHLIGHTS OF SECTION 9

- Both alternatives are protective of human health and the environment. A protective cell can be built on Site, and several protective disposal facilities exist off Site.
- Construction of a potential OSDC at Study Area D would require a waiver from *OAC* 3745-27-07(H)(4)(d) (200 ft from stream) and would impact 0.11 acres of wetlands and one archaeological site.
- Off-Site disposal removes most of the waste from the local community, consolidating it out west.
- Transporting waste off Site results in a notable increase in traffic accidents and associated impacts over on-Site disposal.
- Off-Site disposal is considerably more expensive and would take longer than on-Site disposal.
- On-Site disposal requires construction of a new disposal cell with large quantities of materials and a significant construction effort. Cell capacity is available for all waste expected to be generated during the cleanup of PORTS.

NEXT STEP: IDENTIFY THE PREFERRED REMEDY SO THE PROPOSED PLAN CAN BE ISSUED FOR FORMAL PUBLIC COMMENT

10. ANCILLARY BENEFITS OF ALTERNATIVE 2

In addition to the evaluation presented in Sections 1 through 9 of this RI/FS, DOE has analyzed Alternative 2 to determine whether there are ancillary programmatic benefits that might be associated with Alternative 2. DOE's analysis has identified several such ancillary benefits. The first such benefit is the potential ability to dispose on Site of non-D&D waste (RC-2, RC-4), as discussed earlier, that would otherwise require off-Site transport and disposal. For example, if the estimated 710,000 cy of non-D&D soil from the deferred units (RC-2) were required to be disposed off Site, it is estimated that 2.7 injuries and 1.45 fatalities may occur as a result of shipping this waste off Site. Sending 710,000 cy of waste off Site would add approximately $600 million to the cost of Alternative 3 which is currently $1.1 billion.

Another ancillary benefit associated with Alternative 2 would be the excavation and placement of contaminated soils into an engineered disposal facility for use as fill when excavation of such soils might not otherwise be required (e.g., potential excavation of landfills [RC-3] that have been compliantly closed under RCRA).

Finally, use of contaminated fill from areas of groundwater contamination (RC-2) may lower costs of remediating the groundwater and soils in the future, may expedite reaching Ohio Consent Decree cleanup levels, and could remove the need for long-term reliance on maintaining landfill caps, significantly lowering the long-term maintenance costs.

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DFF&O COMPLIANCE MATRICES

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Crosswalk between the DFF&O RI Outline and the Site-wide Waste Disposition Evaluation Project RI/FS Report

DFF&O Requirements for the RI (Outline E-1)	Equivalent Contents of the RI/FS Report
EXECUTIVE SUMMARY	**EXECUTIVE SUMMARY**
1.0 INTRODUCTION	**1.0 INTRODUCTION**
1. PURPOSE OF THE REPORT	**1.1. PURPOSE OF THE REPORT**
2. SITE BACKGROUND	**1.2. SITE BACKGROUND**
1.2.1. Site Description This Section should consist of the information in Sections 3.0 and 3.1 of the Preliminary Evaluation Report (PER), Section 1.1 of the RI/FS Work Plan, and Section 1 of the Sampling Plan for the Site-Wide Waste Disposition Evaluation project regarding the Site background and current Site conditions. (See Outlines A-1, B-1, and C-1, respectively in Appendices A, B, and C to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D)Project).	**1.2.1. Site Description**
1.2.2. Site History This Section should consist of the information in Sections 3.0 and 3.1 of the Preliminary Evaluation Report (PER), Section 1.1 of the RI/FS Work Plan, and Section 1 of the Sampling Plan for the Site-Wide Waste Disposition Evaluation project regarding the Site background and current Site conditions. (See Outlines A-1, B-1, and C-1, respectively in Appendices A, B, and C to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D)Project).	**1.2.2. Site History**
1.2.3. Previous Investigations This Section should consist of the information in Section 3.2 of the Preliminary Evaluation Report (PER), Section 1.2 of the RI/FS Work Plan, and Section 1.2 of the Sampling Plan for the Site-Wide Waste Disposition Evaluation project regarding the Site background and current Site conditions. (See Outlines A-1, B-1, and C-1, respectively in Appendices A, B, and C to the Generic Statement of Work for Remedial Investigations(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D)Project).	**2.1 PREVIOUS INVESTIGATIONS** This information has been moved to Section 2.1 for readability.

Crosswalk between the DFF&O RI Outline and the Sitewide Waste Disposition Evaluation Project RI/FS Report (Continued)

DFF&O Requirements for the RI (Outline E-1)	Equivalent Contents of the RI/FS Report
3. REPORT ORGANIZATION	**1.3. REPORT ORGANIZATION**
2.0 STUDY AREA INVESTIGATION As noted in the RI/FS Work Plan Outline and the Sampling Plan Outline for the Site-Wide Waste Disposition Evaluation Project, it is possible that not all of the field activities included in this Section will be required during the RI/FS and included in the Sampling Plan. For those field activities conducted as part of the RI/FS, relevant information provided in the corresponding section of the RI/FS Work Plan and the Sampling Plan and additional information developed or otherwise gathered during the RI should be included in the RI Report in the appropriate Section. This Section includes field activities conducted during the RI associated with Site characterization, including as appropriate and applicable physical and chemical monitoring of the following: **2.1.1. Surface Features (e.g., topographic mapping, natural and man-made features** **2.1.2. Waste Stream Investigations** **2.1.3. Meteorological Investigations** **2.1.4. Surface-water and Sediment Investigations** **2.1.5. Geological Investigations** **2.1.6. Human Population Surveys** **2.1.7. Interim Technical Memoranda** – related to field investigations as revised in response to Ohio EPA comments, if any, shall be included in an appendix and summarized in this section.	**2.0 STUDY AREA INVESTIGATION** This section has been enhanced to include a summary of relevant previous investigations (required in Section 1) to improve the readability of Section 1. Timing of field work to report did not allow separate submittals of Interim Technical Memoranda. **2.1 PREVIOUS INVESTIGATIONS** **2.1.1 Environmental Restoration** **2.1.2 Waste Disposition Planning** **2.1.3 Existing Study Area Data** **2.2 SITE-WIDE WASTE DISPOSITION INVESTIGATIONS** **2.2.1 Waste Stream Characterization** **2.2.2 Potential On-Site Disposal Study Area Characterization** **2.3 DEVIATIONS FROM THE SAMPLING PLAN** **2.4 QUALITY ASSURANCE/QUALITY CONTROL**
3.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA As noted in the RI/FS Work Plan Outline and the Sampling Plan Outline for the Site-Wide Waste Disposition Evaluation project, it is possible that not all of the field activities included in this Section will be required during the RI/FS and included in the Sampling Plan. For those field activities conducted as part of the RI/FS, relevant information provided in the corresponding section of the RI/FS Work Plan and the Sampling Plan and additional information developed or otherwise gathered during the RI should be included in the RI Report in the appropriate Section. This section includes the results of field activities conducted during the RI to determine physical characteristics, including as appropriate and applicable the following:	**3.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA** The origin of this section was the information presented in Section 3 of the PER. This section was enhanced to evaluate both historical information and new information to present an overall evaluation of the physical setting of the areas of interest for this waste disposition decision. More detailed characteristics of the study areas being considered for an OSDC are presented in Appendix D. **3.1 SURFACE FEATURES** **3.2 METEOROLOGY** **3.2.1 Regional Climatology** **3.2.2 Air Quality**

Crosswalk between the DFF&O RI Outline and the Sitewide Waste Disposition Evaluation Project RI/FS Report (Continued)

DFF&O Requirements for the RI (Outline E-1)	Equivalent Contents of the RI/FS Report
3.1.1. Surface Features **3.1.2. Meteorology** **3.1.3. Surface water hydrology** **3.1.4. Geology** **3.1.5 Soils** **3.1.6. Hydrogeology** **3.1.7. Demography and Land use** **3.1.8. Ecology**	**3.3 SURFACE WATER HYDROLOGY** **3.4 GEOLOGY** **3.5 SOIL** **3.6 HYDROGEOLOGY** **3.7 DEMOGRAPHY AND LAND USE** **3.8 ECOLOGY**
4.0 POTENTIAL THREAT TO HUMAN HEALTH, SAFETY AND THE ENVIRONMENT This Section should include a streamlined evaluation of the potential threat to human health, safety and the environment based on the information in Sections 3.3 and 3.4 of the Preliminary Evaluation Report (PER) for the Site-Wide Waste Disposition Evaluation project (See Outline A-1 in Appendix A to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D) Project). See also Section 5 of the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D) Project). In addition to the information from Sections 3.3 and 3.4 of the PER, the RI Report should include any additional information or analysis performed based on the results of the Site Characterization process.	**5.0 POTENTIAL THREAT TO HUMAN HEALTH, SAFETY, AND THE ENVIRONMENT** **5.1 POTENTIAL THREAT TO HUMAN HEALTH** **5.2 POTENTIAL THREAT TO ECOLOGICAL RECEPTORS**
4.1.1. Conclusions	The conclusions are included in the text of the main sections.

Crosswalk between the DFF&O RI Outline and the Sitewide Waste Disposition Evaluation Project RI/FS Report (Continued)

DFF&O Requirements for the RI (Outline E-1)	Equivalent Contents of the RI/FS Report
4.1.2. Data Limitations and Recommendations for Future Work Discuss data uncertainties/limitations and identify a description of any necessary additional investigation activities.	**5.3 RISK ASSESSMENT DATA LIMITATIONS AND RECOMMENDATIONS FOR FUTURE WORK** No additional work is recommended.
4.1.3. Revised Remedial Action Objectives This Section should include the information in Section 4.2 of the Preliminary Evaluation Report (PER) for the Site-Wide Waste Disposition Evaluation project. (See Outline A-1 in Appendix A to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D)Project), along with a discussion of any revisions or refinements to the Remedial Action Objectives set forth in the PER.	**5.4 REVISED RAOS** No refinements were made to the remedial action objectives.
5.0 REFERENCES	**11.0 REFERENCES**
6.0 TABLES AND FIGURES (At least one set of figures shall be no larger than 11” × 17”)	Tables and figures are embedded within the text.
7.0 APPENDICES Include as appropriate and applicable based on activities conducted during the Remedial Investigation. Examples may include: 1. Log Books 2. Soil Boring Logs 3. Test Pit/Trenching Logs 4. Soil Gas Probe Construction Diagrams 5 Monitoring Well Construction Diagrams 6. Sample Collection Logs 7. Private and public Well Records 8. Technical Memoranda on Field Activities 9. Analytical Data and QA/QC Evaluation Results 10. Detailed Modeling Reports	**APPENDIX A: ANALYTICAL SAMPLE RESULTS** **APPENDIX B: BORING AND WELL INSTALLATION LOGS** **APPENDIX C: GEOTECHNICAL AND GEOCHEMICAL SAMPLE RESULTS** **APPENDIX D: CHARACTERISTICS OF FINAL CANDIDATE LOCATIONS** **APPENDIX E: WASTE VOLUMES**

DFF&O = *The April 13, 2010 Director’s Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
Ohio EPA = Ohio Environmental Protection Agency
OSDC = on-Site disposal cell
QA = quality assurance
QC = quality control
RI/FS = remedial investigation/feasibility study

Crosswalk between the DFF&O FS Outline and the RI/FS Report
Site-wide Waste Disposition Evaluation Project

DFF&O Requirements for the FS (Outline G-1)	Equivalent Contents of the RI/FS Report
EXECUTIVE SUMMARY	**EXECUTIVE SUMMARY**
1.0 INTRODUCTION	**1.0 INTRODUCTION**
1.1 PURPOSE AND ORGANIZATION OF THE STUDY	**1.1 PURPOSE OF THE REPORT** **1.3 REPORT ORGANIZATION**
1.2 SITE BACKGROUND SUMMARY	**1.2 SITE BACKGROUND**
1.2.1 Site Description This Section should consist of appropriate information in Section 1.2.1.2.1 and 1.2.1.2.2 of the Remedial Investigation Report for the Site-Wide Waste Disposition Evaluation project (See Outline E-1 in Appendix E to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plan (Decontamination and Decommissioning (D&D) Project).	**1.2.1 Site Description**
1.2.2 Site History This Section should consist of appropriate information in Section 1.2.1.2.1 and 1.2.1.2.2 of the Remedial Investigation Report for the Site-Wide Waste Disposition Evaluation project (See Outline E-1 in Appendix E to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plan (Decontamination and Decommissioning (D&D) Project).	**1.2.2 Site History**
1.2.3 Results of Waste Stream Investigations This Section should consist of information in Section 3.0 of the Preliminary Evaluation Report (PER) for the Site-Wide Waste Disposition Evaluation project (See Outline A-1 in Appendix E to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plan (Decontamination and Decommissioning (D&D) Project), together with any additional information or analysis developed during a Remedial Investigation.	**2.2 SITE-WIDE WASTE DISPOSITION INVESTIGATIONS** This information has been enhanced through additional waste stream investigation data collection. The results are presented in Section 2 as required by Outline E-1.
1.2.4 Environmental Setting This information will only be required if the remedial alternatives being developed for consideration under the Site-Wide Waste Disposition Evaluation project include a potential OSDC. If required, this section should present the information developed during a Remedial Investigation regarding environmental setting.	**3.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA** An OSDC is under consideration. The environmental setting is described in Section 3, as required by Outline E-1.

Crosswalk between the DFF&O FS Outline and the RI/FS Report Sitewide Waste Disposition Evaluation Project (Continued)

DFF&O Requirements for the FS (Outline G-1)	Equivalent Contents of the RI/FS Report
1.2.5 Summary of Threat to Human Health, Safety and the Environment This Section should consist of a streamlined evaluation of the potential threat to human health, safety and the environment based on information in Section 4.0 of the Remedial Investigation Report for the Site-Wide Waste Disposition Evaluation projects (See Outline E-1 in Appendix E to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D) Project), together with any additional information or analysis developed during a Remedial Investigation.	**5.0 POTENTIAL THREAT TO HUMAN HEALTH, SAFETY, AND THE ENVIRONMENT** The threat to human health, safety, and the environment is presented in Section 5, as required by Outline E-1.
1.3 BASIS FOR PROJECTED WASTE STREAMS AND VOLUMES AND POTENTIAL UNCERTAINTIES This Section should consist of information in Section 3.0 of the Preliminary Evaluation Report (PER) for the Site-Wide Waste Disposition Evaluation projects (See Outline A-1 in Appendix A to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D) Project), together with any additional information or analysis developed during a Remedial Investigation.	**4.0 BASIS FOR PROJECTED WASTE STREAMS AND VOLUMES AND POTENTIAL UNCERTAINTIES** This is a stand-alone section because of the added information since the PER. Because the RI and FS are presented together, there is no need to summarize the information.
1.4 FEDERAL, STATE, AND LOCAL ARARS AND TBCs This Section shall identify existing Federal, State, and Local ARARs and TBCs and consist of a detailed list of ARARs and TBCs based on information in Section 4.3 of the Preliminary Evaluation Report (PER) for the Site-Wide Waste Disposition Evaluation projects (See Outline A-1 in Appendix A to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D) Project), together with any additional information, refinement, or analysis developed during the Remedial Investigation.	**7.2 CHEMICAL- AND LOCATION-SPECIFIC ARARS/TBCS** **8.2 SUMMARY OF ACTION-SPECIFIC ARARS/TBCS FOR EACH ALTERNATIVE** The ARARs are presented in two sections where they naturally fall in the process. The chemical and location-specific ARARs are presented at the beginning of Section 7 to support the development of RAOs. The action-specific ARARs are presented in Section 8.2, as required in Outline G-1, after the alternatives are developed.
1.5 PREMINARY REMEDIATION GOALS This Section should consist of information in Section 4.1 of the Preliminary Evaluation Report (PER) for the Site-Wide Waste Disposition Evaluation projects (See Outline A-1 in Appendix A to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion	This section is not needed. Because no environmental remediation is considered as part of this decision, decision-specific PRGs have not been developed. PRGs are contaminant-specific levels that help in an initial assessment of remediation alternatives.

Crosswalk between the DFF&O FS Outline and the RI/FS Report Sitewide Waste Disposition Evaluation Project (Continued)

DFF&O Requirements for the FS (Outline G-1)	Equivalent Contents of the RI/FS Report
Plant (Decontamination and Decommissioning (D&D) Project), together with any additional information, refinement, or analysis developed during a Remedial Investigation.	
2.0 PRELIMINARY IDENTIFICATION AND SCREENING OF WASTE DISPOSITION ALTERNATIVES	**7.0 PRELIMINARY IDENTIFICATION AND SCREENING OF WASTE DISPOSITION ALTERNATIVES**
2.1 INTRODUCTION	**7.1 INTRODUCTION**
2.2 REMEDIAL ACTION OBJECTIVES This Section should consist of information in Section 4.1.3 of the Remedial Investigation Report for the Site-Wide Waste Disposition Evaluation project (See Outline E-1 in Appendix E to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D) Project), together with any additional information, refinement or analysis developed during a Remedial Investigation.	**7.3 RAOS**
2.3 INITIAL IDENTIFICATION AND PRELIMINARY SCREENING OF WASTE DISPOSITION ALTERNATIVES (*includes AAD*) This Section is based on the Alternative Array Document described in Section 7.2 of the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies)for the Portsmouth Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D) Project. The AAD should be attached as an appendix to a Feasibility Study Report. This Section should also take into account information in Sections 4.4, 4.4.1, 4.4.2, and 4.4.3 of the Preliminary Evaluation Report (PER) for the Site-Wide Waste Disposition Evaluation project (See Outline A-1 in Appendix A to the Generic Statement of Work for Remedial Investigation(s)/Feasibility Study(ies) for the Portsmouth U.S. Gaseous Diffusion Plant (Decontamination and Decommissioning (D&D) Project), together with any additional information or analysis developed during a Remedial Investigation.	**7.4 INITIAL IDENTIFICATION AND PRELIMINARY SCREENING OF WASTE DISPOSITION ALTERNATIVES [*includes AAD*]** The AAD is presented as part of the FS. The AAD contains the technology screening, development of alternatives, and screening of alternatives. Because so few alternatives are under consideration, a step for development and screening of alternatives was not needed. Therefore, the AAD contains only a technology screening step and is therefore included in the FS directly instead of being submitted separately. The development and description of alternatives are presented in Section 8.
2.4 DRAFT WAC This Section will include a draft WAC if an alternative being considered includes a potential OSDC.	**7.5 WAC FOR REPRESENTATIVE WASTE DISPOSAL FACILITIES** Because there were four representative disposal process options, WAC for all four options are included in this section, and it was retitled to be more descriptive. The

Crosswalk between the DFF&O FS Outline and the RI/FS Report Sitewide Waste Disposition Evaluation Project (Continued)

DFF&O Requirements for the FS (Outline G-1)	Equivalent Contents of the RI/FS Report
	draft numerical WAC for a potential OSDC cannot be developed until the conceptual design of the cell is complete, Section 8. Therefore, Section 7.5 presents the approach for calculating WAC and Section 8 contains the results of the calculations.
3.0 FINAL DEVELOPMENT OF ALTERNATIVES	**8.0 FINAL DEVELOPMENT OF ALTERNATIVES**
3.1 DEVELOPMENT OF ALTERNATIVES TO BE PRESENTED IN PROPOSED PLAN AND RECORD OF DECISION	**8.1 DEVELOPMENT OF ALTERNATIVES** The title has been modified slightly although the content is the same as anticipated in the Outline.
3.2 SUMMARY OF ACTION-SPECIFIC ARARS FOR EACH ALTERNATIVE	**8.2 SUMMARY OF ACTION-SPECIFIC ARARS/TBCS FOR EACH ALTERNATIVE**
3.3 DETAILED DESCRIPTION OF ALTERNATIVES	**8.3 DETAILED DESCRIPTION OF ALTERNATIVES**
4.0 DETAILED ANALYSIS OF ALTERNATIVES	**9.0 DETAILED ANALYSIS OF ALTERNATIVES**
4.1 CRITERIA FOR ANALYSIS The nine CERCA evaluation criteria will be used to evaluate the remedial alternatives carried forward into the detailed analysis.	**9.1 CRITERIA FOR ANALYSIS**
4.2 INDIVIDUAL ANALYSIS OF ALTERNATIVES	**9.2 INDIVIDUAL ANALYSIS OF ALTERNATIVES** CERCLA criteria, NEPA values, as well as irreversible and irretrievable commitment of resources are evaluated.
4.3 COMPARATIVE ANALYSIS OF ALTERNATIVES	**9.3 COMPARATIVE ANALYSIS OF ALTERNATIVES**
5.0 ATTACHMENTS	**APPENDIX F: ARARs** **APPENDIX G: ENGINEERING STUDY OF PROCESS BUILDING EQUIPMENT SUBSIDENCE AVOIDANCE PROCESS OPTIONS** **APPENDIX H: FILL SOURCE EVALUATION FOR THE ON-SITE DISPOSAL COMPONENT OF ALTERNATIVE 2, THE COMBINED ON-SITE AND OFF-SITE DISPOSAL ALTERNATIVE** **APPENDIX I: DRAFT PERFORMANCE-BASED ACTIVITY AND CHEMICAL CONCENTRATION WASTE ACCEPTANCE DEVELOPMENT CRITERIA**

Crosswalk between the DFF&O FS Outline and the RI/FS Report Sitewide Waste Disposition Evaluation Project (Continued)

DFF&O Requirements for the FS (Outline G-1)	Equivalent Contents of the RI/FS Report
5.0 ATTACHMENTS (continued)	**APPENDIX J: ON-SITE DISPOSAL CELL CONCEPTUAL DESIGN FOR SITE D (ALTERNATIVE 2)** **APPENDIX K: METHODS AND RESULTS TO SUPPPORT INDIVIDUAL ANALYSES OF ALTERNATIVES** **APPENDIX L: COST ESTIMATE**
6.0 REFERENCES	**11.0 REFERENCES**

AAD = Alternative Array Document
ARAR = applicable or relevant and appropriate requirement
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
DFF&O = *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
NEPA = National Environmental Policy Act of 1969
OSDC = on-Site disposal cell
PRG = preliminary remediation goal
RAO = remedial action objective
RI/FS = remedial investigation/feasibility study
TBC = to-be-considered
WAC = waste acceptance criteria

Crosswalk between the Generic Statement of Work for Conducting Remedial Investigation(s) and Feasibility Study(ies) and the Sitewide Waste Disposition Evaluation Project RI/FS Report

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	RI/FS Report Section
1.0 Purpose	
This Generic Statement of Work (SOW) for Conducting Remedial Investigations and Feasibility Studies sets forth the generic requirements for initiating, conducting and documenting Remedial Investigations and Feasibility Studies (RI/FS) for the Site-Wide Waste Disposition Evaluation project, and the Process Buildings and the Complex Facilities Decontamination and Decommissioning (D&D) Evaluation projects listed in Attachment H to these Orders, at the Department of Energy (DOE) Portsmouth Site.	NA
The purpose of an RI is to determine the threat to human health, safety and the environment in relation to project activities at the Site. The RI process emphasizes appropriate data collection and Site characterization, and is generally performed concurrently and in an interactive fashion with the feasibility study process. The RI process includes sampling and monitoring, as necessary, and includes gathering of sufficient information to determine the necessity for remedial action and to support the evaluation of remedial alternatives for each Remedial Action project at the Site. The purpose of a FS is to develop and evaluate options for remedial action(s) to reduce or eliminate the threat to human health, safety and the environment. The Respondent shall gather enough information to develop and evaluate remedial alternatives to provide the Ohio Environmental Protection Agency (Ohio EPA) with the information needed to concur or approve, as applicable, with a remedy(ies). The RI and FS are conducted simultaneously and in an interactive manner to allow the information gathered during the RI to influence the development of remedial alternatives, which in turn affects data needs and the scope of the RI.	All
The RI/FS shall be performed in accordance with the requirements of the consensual Director’s Final Findings and Orders for the Site, referred to herein as “Orders”, and this SOW, and in a manner consistent with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), Final Rule (40 CFR Part 300). Respondent shall refer to appropriate sections of U.S. EPA’s Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA (EPA/540/G-89/004, October 1988) (U.S. EPA RI/FS Guidance) and other guidance that the Ohio EPA may use in conducting an RI/FS. A list of documents is provided as Attachment C to the Orders to provide direction and guidance for conducting investigations and developing and evaluating remedial action alternatives. The applicability of individual guidance will be determined by the scope of the response action and data needs as determined during the scoping phase. Sections of relevant guidance which further describe the RI/FS tasks are referenced throughout this SOW and appendices. Ohio EPA and/or Respondent may identify other relevant guidance to be used in connection with performance of the RI/FS as Work proceeds under the Orders. Respondent shall furnish all personnel, materials, and services needed or incidental to performing the RI/FS except as otherwise specified in the Orders.	NA

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	**RI/FS Report Section**
At the completion of a RI/FS for each Remedial Action project, the Respondent shall be responsible for the selection of a remedy and shall memorialize the selected remedy in a Record of Decision (ROD) for each Remedial Action project. The remedy selected by the Respondent shall be protective of human health and the environment, comply with applicable or relevant and appropriate requirements (ARARs) of federal and state environmental laws and regulations or satisfy the requirements of 42 U.S.C. Section 9621 and 40 CFR Section 300.430 pertaining to waiver or non-attainment of ARARs, be cost-effective, utilize permanent solutions and treatment technologies or resource recovery technologies to the maximum extent practicable, and address the preference for treatment as a principal element. The final RI and FS Reports for each Remedial Action project, as concurred with or approved, as applicable, by Ohio EPA, shall, with the administrative record, form the basis for selection of the remedy(ies) and provide the information needed to support development of the ROD(s).	All
Ohio EPA shall provide oversight of Respondent's activities throughout the RI/FS for each Remedial Action project, including field activities. Respondent shall support Ohio EPA's conduct of oversight activities.	NA
2.0 RI/FS Scoping	Completed
Scoping is the planning process for the RI/FS. Consistent with the Orders and preliminary Site-specific Objectives (SSOs), and in consultation with Ohio EPA, Respondent shall determine the specific project scope and prepare and submit for review and comment a Pre-investigation Evaluation Report (PER) for each Remedial Action project.	
2.1 Project Initiation Meeting (PIM) and Site Visit	Completed
2.2 Pre-investigation Evaluation Report (PER)	Completed
2.3 PER Elements	Completed
3.0 RI/FS Work Plan and Supporting Documents	
3.1 RI/FS Work Plan (U.S. EPA RI/FS Guidance Section 2.3.1) (SOW Appendix B, outlines B-1 and B-2)	Completed
3.2 Sampling Plan (SOW Appendix C, outlines C-1 and C-2)	Completed
3.3 Quality Assurance Project Plan (SOW Appendix D)	Completed
3.4 Health and Safety Plan (U.S. EPA RI/FS Guidance Section 2.3.3)	Completed

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	RI/FS Report Section
3.5 Waste/Contaminant or Site Characterization (SOW Appendix B, outlines B-1 and B-2)	Section 2
Consistent with the applicable outline in Appendix B of this SOW, Respondent shall conduct such investigations as are necessary to obtain data of sufficient quality and quantity to support each RI/FS and identification and evaluation of potential remedial action alternatives. Geophysical characterization methods, such as ground penetrating radar, magnetometry, tomography, or other electromagnetic methods shall be used as appropriate to gather data necessary to support the tasks associated with the RI/FS for the Site-Wide Waste Disposition Evaluation project and the Process Buildings and Complex Facilities D&D Evaluation projects. All sampling, analyses, and measurements shall be conducted in accordance with the concurred upon or approved, as applicable, QAPP and SP. All sampling and measurement locations shall be documented in a project-specific field log and identified on project maps. Respondent shall document the procedures used in making the above determinations. The following sections describe the characterization elements for the Site-Wide Waste Disposition Evaluation project and the Process Buildings and Complex Facilities D&D Evaluation projects.	
3.5.1 Site-Wide Waste Disposition Evaluation Project (SOW Appendix B, Section 1.0 of outline B-1) Consistent with Outline B-1 in Appendix B to this SOW, Respondent shall collect the following data:	
I. Anticipated Waste Streams A. Waste anticipated to be generated during performance of Work under the Orders	Section 2.2.1 and 4
B. Potential waste streams associated with environmental media cleanup activities to be conducted under the RCRA Consent Decree and for which DOE might seek exemptions under Ohio laws and regulations to allow placement of such waste streams in any OSDC that might be constructed as a result of the Site-Wide Waste Disposition Evaluation project. Information to be included with respect to I.A. and I.B., above, should include: a. Nature of anticipated waste streams (e.g., radioactive, mixed waste, hazardous waste, solid waste, radioactive TSCA, non-radioactive TSCA, etc.); b. Estimated quantity or volume, including basis for estimate; and c. Anticipated types of waste within each of the general waste stream categories (e.g., liquid, solid, rubble, equipment, etc.)	Section 4
3.5.2 Process Buildings and Complex Facilities D&D Evaluation Projects (SOW Appendix B, Section 1.0 of outline B-2)	NA
4.0 Environmental Setting The requirement to address the Environmental Setting shall only apply to the Site-Wide Waste Disposition Evaluation project and will only be required if an OSDC is anticipated to be evaluated as one of the remedial alternatives for that project. Consistent with Outline B-1 to Appendix B of this SOW, Respondent shall collect information to supplement and verify existing information on the environmental setting of the Site and surrounding the Site. Characterization of the environmental setting shall, as relevant and appropriate, include but not be limited to, regional hydrogeology, hydrogeology, subsurface soil and rock units, surface soils, surface water and sediment, land use, land cover, local climate and human and ecological receptors. Components to be addressed may include:	Section 3

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	**RI/FS Report Section**
I. Regional Hydrogeology Respondent shall describe the regional hydrogeology surround the Site, including:	Sections 3.4, 3.6, & Appendix D
A. Depth to bedrock;	Section 3.4, Appendix D
B. Hydrostratigraphic unit correlation (both map and profile view);	Section 3.6, Appendix D
C. Aquifer and aquitard delineation;	Section 3.6, Appendix D
D. Active and inactive residential, public, industrial, agricultural, and other production well locations within a four (4) mile radius of the Site;	Section 3.6, Appendix D
E. Well logs, with well construction details and average yield;	Appendix B
F. Average pumping rates for production wells;	Section 3.6
G. Ambient ground water quality characterization;	Section 3.6
H. Average depth to water;	Section 3.6
I. Seasonal variation in ground water flow direction;	Section 3.6
J. Recharge and discharge area identification;	Section 3.6
K. Source water protection area identification;	NA
L. Aquifer designation (e.g., federal Sole Source Aquifer; Drinking Water Source Water Protection Area);	Appendix D
M. Regional geomorphology and topography, including locations of surface water bodies and floodways. This description should include an analysis of any features that may influence the ground water flow system; and	Sections 3.1, 3.6, & Appendix D
N. Structural feature delineation, including bedding planes and fold, joint, and fracture trace orientation.	Section 3.4
II. Site Hydrogeology Respondent shall characterize hydrogeology for candidate locations for a potential OSDC based on data collected from bore holes, monitoring wells, piezometers, and laboratory and field tests. As appropriate, characterization shall include:	
A. An accurate classification and description of the consolidated and unconsolidated stratigraphic units beneath the Site, including: 1. Hydraulic conductivity (vertical and horizontal); 2. Porosity, effective porosity, and bulk density; 3. Rock and soil (ASTM 2488 and 2487) classification; 4. Grain size distribution (sieve and hydrometer) curves; 5. Moisture content; 6. The attenuation capacity and mechanisms of attenuation of the natural earth material and/or fill (i.e., ion exchange capacity, base saturation, organic carbon content, mineral content, soil sorptive capacity, storage capacity); and 7. pH;	Sections 3.4, 3.6, & Appendix D
B. Surface soils, including: 1. Soil Conservation Service soil classification; 2. Surface soil distribution; 3. Depth and profile; 4. Organic carbon; 5. pH; 6. Porosity (total, air-filled); 7. Bulk density; 8. Gravimetric soil moisture content; 9. Fraction of vegetative cover (of contaminated areas); 10. Ion exchange capacity; 11. Infiltration; and 12. Evapotranspiration	Section 3.5, Appendix D

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	RI/FS Report Section
C. A description of the local ground water flow regime, including:	
1. Identification of all aquitards and aquifer systems (hydrogeologic formations wholly or partially saturated and capable of transmitting flow);	Section 3.6
2. Identification of saturated zones;	Section 3.6
3. Identification of water table and potentiometric surface depth with degree of seasonal fluctuation;	Section 3.6
4. Identification of seasonal ground water flow direction for each aquifer system including water table and/or potentiometric surface contour maps for each significant zone of saturation;	Section 3.6, Appendix D
5. Quantification of flow rate throughout each aquifer system;	Section 3.6
6. Quantification of horizontal and vertical gradients;	Section 3.6, Appendix D
7. Quantification of infiltration rates through the unsaturated zone;	Section 3.6, Appendix D
8. Quantification of flow across and lateral to hydrostratigraphic units, including the degree of seepage and upward leakage;	Appendix I
9. Quantification of flow budget across the Site with identification of recharge and discharge areas;	Appendix I
10. Location of nearest hydraulic boundaries;	Section 3.6
11. Characterization of ambient ground water chemistry both upgradient and downgradient of the Site;	Section 2.1, Appendix D
12. Hydrostratigraphic cross sections depicting horizontal and lateral extent, depth, and thickness of units. Cross sections shall be developed both longitudinally and transverse to the dominant direction of flow across the Site. Cross sections shall include flow nets distinguishing vertical and horizontal components of flow across stratigraphic units; and	Section 3.6, Appendix D
13. Delineation of structural features, including orientation, density, and distribution.	Section 3.4
D. A description of man-made influences that may affect the hydrogeology of the Site, identifying:	
1. Active and inactive water supply and production wells with pumping schedules; and	NA
2. Man-made structures such as injection wells, pipelines, french drains, ditches, unlined and lined ponds, lagoons, septic tanks, NPDES permitted out falls, retention areas and utility lines.	Section 3.6
E. An area-specific description of the geomorphology. At a minimum this shall include:	
1. An analysis of any topographic feature that may influence the ground water flow system;	Section 3.3, Appendix D
2. A surface topography map depicting (at a minimum) streams, wetlands, topographic depressions and springs. The topographic map shall be constructed by a qualified professional and shall provide contour intervals at a level of detail appropriate for the Site-specific hydrogeologic investigation (e.g., two-foot intervals). The map shall depict the location of all borings, monitoring wells and cross sections.	Appendix D
F. The RI Report shall document the methods and procedures used to gather and evaluate the hyrogeologic data. These methods and procedures shall be in accordance with the RI/FS Work Plan concurred with or approved, as applicable, by Ohio EPA. Field methods may include but are not limited to: 1. Borehole characterization; 2. Ground water level measurements; 3. Ground water sampling; 4. Monitoring well and piezometer installation; 5. Aquifer testing (e.g., pump and slug testing) to determine the degree of hydraulic communication between hydrostratigraphic units and subsurface structure; 6. Remote sensing, including geophysical techniques to identify zones of saturation,	Section 2.2

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	**RI/FS Report Section**
hydrostratigraphic units, and subsurface structure;	
7. Ground water tracer testing to assist in determining migration pathways and hydraulic conductivity; and 8. Isotopic age dating of ground water to assist in migration identification.	
III. Surface Water and Sediment Respondent shall characterize relevant surface water bodies in the vicinity of the Site. As appropriate, such characterization shall include, but not be limited to:	
A. Description of the perennial and ephemeral surface water bodies including: 1. For lakes and estuaries: location, elevation, surface area, inflow, outflow, depth, temperature stratification and volume; 2. For impoundments: location, elevation, surface area, depth, volume, freeboard and purpose of impoundment; 3. For streams, ditches, drains, wetlands, and channels: location, hydraulic gradient, flow velocity, base flow, depth, width, bank height and slope, gaining and losing stream sections, seasonal fluctuations, stabilization of stream bed; description of stream banks; flood plain areas, and flood zones (i.e., 50 and 100 year events); area of drainage basin; 4. Drainage patterns/storm water runoff; 5. Degree of ground water seepage and/or recharge to surface water bodies; and 6. Any known discharges including those permitted by NPDES.	Section 3.3
B. Description of the chemical, physical and biological/biochemical characteristics of the surface water and sediments. This includes but is not limited to:	
1. Chemical (surface water and/or sediment) a) Total organic carbon (TOC); b) pH; c) Total dissolved solids; d) Total suspended solids; e) Biochemical oxygen demand (BOD); f) Conductivity; and g) Dissolved oxygen.	Section 3.3 Most NA
2. Physical (surface water and/or sediment) a) Temperature; b) Particle/grain size; c) Appearance/texture/odor/color; d) Organic matter deposition; e) Deposition area, patterns, and rates; and f) Thickness profile.	Section 3.3 Most NA
3. Biological/Biochemical a) Aquatic life use designation based on Ohio's Water Quality Standards2; b) Attainment status of water body; and c) Ohio wetland classification.	Sections 3.8.2, 3.8.3
4. The RI Report shall document the methods and procedures used to gather and evaluate the surface water and sediment data. These methods and procedures shall be in accordance with the RI/FS Work Plan concurred with or approved, as applicable, by Ohio EPA. Field methods may include but are not limited to: a) Drain tracer studies; b) Seepage meter installation and data acquisition; c) Stream piezometer installation and water level acquisition; and d) Stream weir gauge installation and data acquisition.	NA
IV. Local Climate Respondent shall provide relevant information characterizing the climate in the vicinity of the Site in general and at the time of the investigation(s). As appropriate, such information shall include, but not be limited to:	

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	RI/FS Report Section
A. Description of the following parameters: 1. Annual and monthly rainfall averages; 2. Monthly temperature averages and extremes; 3. Wind speed and direction; 4. Relative humidity/dew point; 5. Atmospheric pressure; 6. Evaporation data; 7. Development of inversions; and 8. Climate extremes that have been known to occur in the vicinity of the Site, including frequency of occurrence.	Section 3.2
B. A description of topographic or manmade features which may affect air flow or emission patterns, including: 1. Ridges, hills or mountain areas; 2. Canyons or valleys; 3. Surface water bodies; 4. Wind breaks and forests; 5. Buildings; and 6. Any other features that may affect air flow or emission patterns.	NA
V. Human receptors potentially exposed to Site-related contaminants: A. Human population data including demographics; B. Sensitive sub-populations; C. Populations served by surface water intakes or ground water wells; and D. Land use (e.g., residential, commercial, recreational).	Sections 3.7, 5.1
VI. Ecological receptors potentially exposed to Site-related contaminants, including: A. Terrestrial receptors; B. Aquatic receptors; and C. Special interest species (including Threatened and Endangered species).	Sections 3.8, 5.2
5.0 Threat to Human Health, Safety and the Environment (SOW Appendix E, Section 4.0 of outlines E-1 and E-2) Respondent shall prepare reports for the Site-Wide Waste Disposition Evaluation project and the Process Buildings and Complex Facilities D&D Evaluation projects consistent with the applicable outlines that appear as appendices to this SOW. Data collected for each Remedial Action project shall be sufficient to support a streamlined evaluation of threats to human health, safety and the environment as required by the applicable appendices to this SOW. Respondent shall collect any necessary data in accordance with a RI/FS Work Plan concurred with or approved, as applicable, by Ohio EPA and shall document the methods and procedures used during the investigation in each RI Report. Section 3.5 of this SOW summarizes the requirements for Waste/Contaminant and Site Characterization data that will be used in the streamlined evaluation.	
5.1 Site-Wide Waste Disposition Evaluation Project (SOW Appendices A and E, Sections 3.3 and 3.4 of outline A-1 and Section 4.0 of outline E-1) Respondent shall prepare a streamlined evaluation of the types of hazards typically associated with the anticipated waste streams sufficient to support evaluation of potential alternatives for Site-wide waste disposition. The streamlined risk evaluation shall utilize the data collected and assembled in accordance with Section 3.5 of this SOW. The streamlined risk evaluation shall discuss potential on-Site receptors (workers) and off-Site receptors (plant neighbors and other members of the public that might directly contact waste streams from the Site during and after on-Site disposal, and during off-Site transportation of waste), and environmental receptors.	Sections 5, 9.2.2.1.5, & 9.2.3.1.5
5.2 Process Buildings and Complex Facilities D&D Evaluation Projects (SOW Appendices A and E, Sections 3.3 and 3.4 of outline A-2 and Section 4.0 of outline E-2)	NA

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	RI/FS Report Section
6.0 Remedial Investigation Report (SOW Appendix E, outlines E-1 and E-2) Respondent shall submit for Ohio EPA review and concurrence or approval, as applicable, RI Reports for each Remedial Action project detailing the methods and results of the remedial investigations and the potential threats to human health, safety and the environment. The sample outlines for the RI Reports are provided in Appendix E of this SOW.	Sections 2 - 6
7.0 Developing and Screening of Remedial Alternatives (U.S. EPA RI/FS Guidance Chapter 4) (SOW Appendix G, Section 2.0 of outlines G-1 and G-2) Consistent with the applicable outline in Appendix G of this SOW, Respondent shall develop and screen remedial alternatives to arrive at an appropriate range of alternatives for detailed analysis for the Site-Wide Waste Disposition Evaluation project and the Process Buildings and Complex Facilities D&D Evaluation projects. The following activities are to be performed by Respondent as needed during the development and screening of remedial alternatives.	
7.1 Refine Remedial Action Objectives (U.S. EPA RI/FS Guidance Section 4.2.1) (SOW Appendix G, Section 2.2 of outlines G-1 and G-2) Consistent with the applicable outline in Appendix G of this SOW, Respondent shall further refine the RAOs identified during project scoping. The refined RAOs for each Remedial Action project shall be based on the results of the RI and, in the case of the Site-Wide Waste Disposition Evaluation project, and then Ohio EPA-approved WAC if an OSDC is evaluated as a possible remedial alternative. The RAOs also shall be consistent with Section 300.430 of the NCP. Respondent shall prepare and submit for review an Interim Technical Memorandum (ITM) identifying the refined RAOs for protection of human health and the environment and detailing the methods and procedures used to refine them. The refined RAOs shall be included in the Alternatives Array Document described below.	Section 7.3
7.2 Alternatives Array Document (U.S. EPA RI/FS Guidance Chapter 4) (SOW Appendix G, Section 2.3 of outlines G-1 and G-2) Consistent with the applicable outline in Appendix G of this SOW, Respondent shall prepare an Alternatives Array Document (AAD) for each Remedial Action project which documents the methods, rationale, and results of the alternatives development and the screening process. Respondent shall include an evaluation of whether the amount and type of data existing for each Remedial Action project at the Site will support the subsequent detailed analysis of the alternatives. Respondent shall assure identification of an appropriate range of viable alternatives for consideration in the detailed analysis. The final AAD shall be combined with the detailed analysis of alternatives to form the FS Report described in Section 8 and Appendix G of this SOW. The following sections summarize the requirements for conducting the alternatives screening process and provide the required contents of the AAD as it pertains to the Site-Wide Waste Disposition Evaluation project and the Process Buildings and Complex Facilities D&D Evaluation projects.	Sections 7 and 8

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	**RI/FS Report Section**
I. Technologies Screening (Section 4.2.2 through 4.2.5.3 of the U.S. EPA RI/FS Guidance) A. Develop General Response Actions (U.S. EPA RI/FS Guidance 4.2.2) Respondent shall refine the general response actions initially identified during project scoping. General response actions shall be identified describing actions, singly or in combination, to satisfy the RAOs. B. Identify anticipated waste/contaminant streams for each Remedial Action project area at the Site and, for the Site-Wide Waste Disposition Evaluation Project only, establish preliminary criteria for waste/contaminant acceptance if an OSDC is anticipated to be evaluated as a possible remedial alternative under the Site-Wide Waste Disposition Evaluation Project. (U.S. EPA RI/FS Guidance 4.2.3). Respondent shall identify areas or volumes of waste/contaminants to which general response actions may apply, taking into account requirements for protectiveness as identified in the RAOs, Site conditions, and the nature and extent of contamination (Section 4.2.3 of the U.S. EPA RI/FS Guidance). C. Identify, Screen, and Document Remedial Technologies (U.S. EPA RI/FS Guidance 4.2.4) Respondent shall identify, screen and evaluate remedial technologies applicable to each general response action to eliminate those that cannot be technically implemented based on contaminant types and concentrations and/or Site characteristics. Decisions made during the remedial technology screening shall be documented for inclusion in the Alternatives Array Document.	Section 7.4
D. Evaluate and Document Process Options (U.S. EPA RI/FS Guidance 4.2.5) As appropriate, process options for each surviving technology type shall be identified and evaluated on the basis of effectiveness, implementability, and cost as those criteria are defined in Section 4.2.5 of the U.S. EPA RI/FS Guidance. Respondent shall select and retain, wherever appropriate and possible, one or more representative process options for each implementable technology type. The evaluation should focus on effectiveness factors at this stage with less effort directed as the implementability and cost factors. Identifying and screening process options shall be documented for inclusion in the Alternatives Array Document. Respondent shall consider the NCP's preference for treatment over conventional containment or land disposal approaches.	Section 7.4
II. Alternatives Array Document (U.S. EPA RI/FS Guidance 4.2.6) Respondent shall submit for review and comment an AAD for each Remedial Action project consisting of the following:	
A. Assemble and Document Alternatives Respondent shall assemble the selected representative technologies into remedial alternatives. Each alternative should comprehensively address the Site-specific PRGs, RAOs, and ARARs. Each alternative shall describe the locations of the Site affected; approximate volumes of any wastes/contaminants to be removed or treated; and any other information needed to adequately describe the alternative and document the logic behind each specific remedial alternative.	Section 8.1

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	**RI/FS Report Section**
B. Conduct and Document the Screening Evaluation of Each Alternative Respondent may perform, or Ohio EPA may require, that the assembled alternatives undergo a screening process based on short and long term aspects of effectiveness, implementability, and relative cost as those criteria are defined in Section 4.3 of the U.S. EPA RI/FS Guidance. Screening of the alternatives is generally performed when there are many feasible alternatives available for detailed analysis. The screening may be conducted to assure that only those alternatives with the most favorable composite evaluation of all factors are retained for further analysis, while at the same time preserving an appropriate range of remedial options. Prior to conducting a screening of alternatives, Respondent shall further define the alternatives such that design considerations for technologies and the ability of the alternatives to satisfy the RAOs are described. The purpose shall be to ensure that a basis exists for evaluating and comparing the alternatives before proceeding with the alternative screening step (Section 4.3.1 of the U.S. EPA RI/FS Guidance). Respondent shall prepare a summary of the assembled remedial alternatives and their related ARARs, specifically including an analysis of how siting criteria contained in Ohio Administrative Code (OAC) Chapters 3745-27 and 3745-50 will be met and provide the reasoning employed in the alternative screening. The alternatives summary shall be submitted with the AAD.	NA
III. Post-screening Considerations At the conclusion of the alternative screening phase, or if no screening is needed, Respondent shall determine if the amount and type of data existing for the Remedial Action project area will support the detailed analysis of the surviving remedial alternatives (Section 4.3.3.3 of the U.S. EPA RI/FS Guidance). Specifically, Respondent shall consider whether any additional field investigation or treatability testing is necessary prior to proceeding with the detailed analysis of alternatives. If Respondent determines that additional data or treatability testing is needed, Respondent shall document the determination, the specific types of data needed; and the time frame for obtaining the data in the AAD. If Ohio EPA concurs with or approves, as applicable, Respondent's determinations, Respondent shall, in accordance with the Orders, submit for review and concurrence or approval, as applicable, an addendum to the RI/FS Work Plan and supporting documents and/or a treatability study work plan for obtaining the additional data. Should Ohio EPA determine, based on review of the AAD, that additional data is needed to perform the detailed analysis of alternatives, Ohio EPA shall notify Respondent of the need for additional data, and Respondent may either submit for review and concurrence or approval, as applicable, an addendum to the RI/FS Work Plan and supporting documents and/or a Treatability Study Work Plan to obtain the additional data or dispute the Ohio EPA determination pursuant to the provisions of the Orders.	NA

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	RI/FS Report Section
Respondent shall begin to develop and evaluate a range of remedial alternatives during RI/FS scoping (Section 1.0 and Appendix A of this SOW; Section 2.2.3 of the U.S. EPA RI/FS Guidance). Respondent shall continue to develop and evaluate the remedial alternatives initially developed during project scoping as RI data become available. With the exception of the "no action" alternative, all alternatives under consideration must, at a minimum, ensure protection of human health and the environment and comply with the applicable or relevant and appropriate requirements of state and federal laws and regulations or satisfy the requirements of 42 U.S.C. Section 9621 and 40 CFR Section 300.430 pertaining to waiver or non-attainment of ARARs. Consistent with Section VI (Performance of the Work By Respondent) of the Orders, if an OSDC is evaluated as a possible remedial alternative under the Site-Wide Waste Disposition Evaluation project, Respondent shall evaluate at least one alternative or sub-alternative that is fully ARARs compliant, with no ARARs waived.	Section 8.1
8.0 Treatability Studies (SOW Appendix F outlines F-1 and F-2)	NA
9.0 Feasibility Study Report (U.S. EPA RI/FS Guidance Section 5.5); (SOW Appendix G, outlines G-1 and G-2) Once Ohio EPA and Respondent have determined that sufficient data exist to proceed, Respondent shall conduct a detailed analysis of the alternatives surviving the screening process to provide the information needed for selection of a remedy for each Remedial Action project area. If an alternative providing for an OSDC is carried forward for detailed analysis, the FS Report shall include a draft WAC. The detailed analysis shall consist of an individual analysis of each alternative against the nine CERCLA evaluation criteria followed by a comparative analysis of the alternatives using the same evaluation criteria as the basis for comparison. Respondent shall prepare and submit an FS Report for each Remedial Action project for review and concurrence or approval, as applicable. The final AAD shall be incorporated into the FS (SOW Appendix G, Section 2.3 of outlines G-1 and G-2). In addition, Respondent will refer to Appendix G of this SOW for an outline of the FS Report format and required report content. The detailed analysis of remedial alternatives shall consist of the following elements:	Sections 7 - 9
I. Detailed Description of Each Alternative (U.S. EPA RI/FS Guidance Sections 6.2.1 to 6.2.4) The detailed narrative description of each alternative shall include at a minimum:	
A. Description of each technology component;	Sections 8.3.2 and 8.3.3
B. Refinement of the volumes and/or areas of contaminated media to be addressed;	Section 4
C. Special engineering considerations required to implement the alternative, (e.g., pilot treatment facility or additional studies needed to proceed with final remedial design);	Section 8.3.2.1.2
D. Operation, maintenance and monitoring requirements, including the WAC (WAC requirement would only be applicable if an alternative including consideration of an OSDC was included under the Site-Wide Waste Disposition Evaluation project);	Sections 8.3.2.1.4 and 8.3.2.1.5
E. Temporary storage requirements;	Sections 8.3.2.1.1 and 8.3.2.1.5
F. Health and safety requirements related to implementation and operation and maintenance of the alternative, including on- and off-Site worker and general public health and safety considerations;	Section 8.3.2.1.5
G. An analysis of how the alternative could be phased into individual operations and a discussion of how these operations could best be implemented to produce significant environmental improvement;	Section 8.3.2.1.3

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H. A review of any off-Site treatment or disposal facilities and transportation needs to ensure compliance with the Resource Conservation and Recovery Act, TSCA, and state requirements; and	Sections 8.3.2.1.9 and 8.3.3
I. An analysis of the projected performance and expected results of the alternative with emphasis on potential for further future release of hazardous substances.	Sections 9.2.2.1.1 and 9.2.3.1.1
II. National Environmental Policy Act (NEPA) Considerations Respondent shall incorporate NEPA considerations into the CERCLA process as appropriate during evaluation of the remedial action alternatives.	Sections 9.2 and 9.3
III. Apply the Nine CERCLA Evaluation Criteria and Document the Individual Alternative Analysis Respondent shall apply the nine evaluation criteria described below to each individual alternative. Respondent shall document the decision making process and the results of the individual analysis of alternatives.	Section 9.2 and 9.3
A. Overall Protection of Human Health, Safety and the Environment. Respondent shall assess the alternatives to determine if they can adequately protect human health, safety and the environment from unacceptable risks posed by hazardous substances, pollutants or contaminants present at the project area by eliminating, reducing or controlling exposures to levels established during development of remediation goals. This is a threshold requirement and the primary objective of the remediation program.	Sections 9.2.1.1.1, 9.2.2.1.1, and 9.2.3.1.1
B. Compliance with Applicable or Relevant and Appropriate Requirements. Respondent shall assess the alternatives to determine if they attain applicable or relevant and appropriate standards, criteria and requirements of federal, state, and local laws or satisfy the criteria for ARARs waiver(s) or non-attainment as set forth in 42 U.S.C. Section 9621 and 40 CFR Section 300.430. This is also a threshold requirement. Consistent with Section VI (Performance of the Work by Respondent) of the Orders, if an OSDC is evaluated as a possible remedial alternative under the Site-Wide Waste Disposition Evaluation project, Respondent shall evaluate at least one alternative or sub-alternative that is fully ARARs compliant, with no ARARs waived.	Sections 9.2.1.1.2, 9.2.2.1.2, and 9.2.3.1.2
C. Long-term Effectiveness and Permanence. Respondent shall assess the alternatives for the long-term effectiveness and permanence they afford, along with the degree of certainty that the alternative will prove successful. Factors that shall be considered, if appropriate and/or applicable to an alternative, include the following: 1. Nature and magnitude of residual risk; potential for exposure of human and environmental receptors; concentrations of hazardous substances, pollutants or contaminant remaining after implementing the remedial alternative, considering the persistence, toxicity, mobility and propensity to bio-accumulate such hazardous substances and their constituents (see Risk Assessment Guidance for Superfund (RAGS), Part C); 2. The type, degree and adequacy of long-term management required for untreated substances and treatment residuals, including engineering controls (such as containment technologies), institutional controls, monitoring and operation and maintenance; 3. Long-term reliability of the engineering and institutional controls, including uncertainties associated with land disposal of untreated hazardous substances, pollutants, contaminants, and treatment residuals, and; 4. Potential need for replacement of the remedy, and the continuing need for repairs to maintain the performance of the remedy.	Sections 9.2.1.1.3, 9.2.2.1.3, and 9.2.3.1.3

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D. Reduction of Toxicity, Mobility or Volume through Treatment Respondent shall assess the degree to which alternatives employ treatment that reduces toxicity, mobility or volume of contaminants. If Respondent determines that the NCP preference for such treatment is not appropriate and/or applicable to an alternative, Respondent shall provide an explanation for that determination. Where appropriate, Respondent shall identify alternatives which, at a minimum, address the principal threats posed by the Site through treatment. Factors that shall be considered, if appropriate and/or applicable to an alternative, include the following: 1. The treatment or recycling processes the alternatives employ and materials they will treat; 2. The amount of hazardous substances, pollutants or contaminants that will be destroyed, treated, or recycled; 3. The degree of expected reduction in toxicity, mobility, or volume of the waste/contaminants due to treatment or recycling and the specifications of which reduction(s) are occurring; 4. The degree to which the treatment is irreversible; 5. The type and quantity of residuals that will remain following treatment, considering the persistence, toxicity, mobility and propensity to bio-accumulate; 6. The degree to which treatment will reduce the inherent hazards posed by the principal threats at the Site; and 7. The degree to which the treatment processes employed will reduce the transfer of contaminants between environmental media.	Sections 9.2.1.1.4, 9.2.2.1.4, and 9.2.3.1.4
E. Short-term Effectiveness Respondent shall assess the short-term impacts of the alternatives during the construction and implementation phase, and until the objectives of a Remedial Action have been met. Factors that shall be considered, if appropriate and/or applicable, include the following: 1. Short-tem risks that may be posed to the community during construction and implementation of an alternative and until the RAOs have been met; 2. Potential impacts on workers during remedial action and until the objectives of remedial action have been met, the effectiveness and reliability of protective measures; 3. Potential environmental impacts that may result from the remedial action and the effectiveness and reliability of mitigative measures during implementation and until the objectives of the remedial action have been met; and 4. Time until response action objectives are achieved	Sections 9.2.1.1.5, 9.2.2.1.5, and 9.2.3.1.5
F. Implementability Respondent shall assess the technical and administrative feasibility of implementing the alternatives. Factors that shall be considered, if appropriate and/or applicable, include the following: 1. Technical Feasibility: a) Degree of difficulty or uncertainty associated with construction and operation of the alternative; b) Expected operational reliability of the alternative; c) Ease of undertaking additional remedial action(s); and d) Ability to monitor the effectiveness of the remedy.	Sections 9.2.1.1.6, 9.2.2.1.6, and 9.2.3.1.6

Generic SOW for Conducting Remedial Investigation(s)and Feasibility Study(ies)	RI/FS Report Section
2. Administrative Feasibility: Activities needed to coordinate implementation of the remedy with state, local, and federal agencies 3. Feasibility of Obtaining Services and Materials: a) Capacity and location of adequate treatment, storage, and disposal services; b) Availability of necessary equipment and specialists and provisions to ensure any necessary additional resources; c) Availability of services and materials; and d) Availability of prospective technologies.	
G. Cost The types of costs that shall be assessed, if appropriate and/or applicable, include the following: 1. Direct and indirect capital costs, including contingency and fees; 2. Annual operation and maintenance costs; and 3. Net present value of capital and O&M costs.	Sections 9.2.1.1.7, 9.2.2.1.7, and 9.2.3.1.7
H. Community Acceptance This criterion shall be addressed by Respondent throughout the conduct of each RI/FS and during the public comment period for each Proposed Plan and should include analysis of community input to identify which components of the alternatives local government and other interested persons in the community support, have reservations about, or oppose.	Section 9.1.1.9
I. State Acceptance Each FS Report should indicate that this criterion will be addressed in the Record of Decision following publication of the Proposed Plan and completion of the public comment period.	Section 9.1.1.8
IV. Compare Alternatives Against Each Other and Document the Comparison of Alternatives (U.S. EPA RI/FS Guidance Sections 6.2.5 and 6.2.6) At the conclusion of the individual analysis of alternatives, Respondent shall perform a comparative analysis between the alternatives. That is, each alternative will be compared against the others using the nine CERCLA evaluation criteria as a basis of comparison. Respondent shall document the decision making process and the results of the comparative analysis of alternatives for inclusion in the FS.	Section 9.3

AAD = Alternatives Array Document
ARAR = applicable or relevant and appropriate requirement
ASTM = American Society for Testing and Materials
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR = Code of Federal Regulations
D&D = decontamination and decommissioning
ITM = Interim Technical Memorandum
NA = not applicable
NCP = National Oil and Hazardous Substances Pollution Contingency Plan
NEPA = National Environmental Policy Act of 1969
NPDES = National Pollutant Discharge Elimination System
O&M = operation and maintenance
OAC = Ohio Administrative Code
Ohio EPA = Environmental Protection Agency
OSDC = on-Site disposal cell
PRG = preliminary remediation goal
QAPP = Quality Assurance Project Plan
RI/FS = remedial investigation/feasibility study
RAO = remedial action objective
ROD = Record of Decision
SOW = statement of work
SP = sampling plan
TSCA = Toxic Substances Control Act of 1976
U.S. EPA = U.S. Environmental Protection Agency
WAC = waste acceptance criteria

APPENDIX A: ANALYTICAL SAMPLE RESULTS

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Field log books, sample collection logs, and other appropriate quality assurance/quality control data related to analytical data in this appendix are maintained in the project records.

The following analytical data qualifiers were used for reporting analytical results (codes typically contained in the RSLTQUAL field):

Inorganic Analysis

B	This qualifier is used when the value was less than the Contract Required Detection Limit or Required Reporting Limit specified, but greater than or equal to the Instrument Detection Limit/Method Detection Limit
U	The analyte was analyzed for but not detected.
J	This qualifier indicates an estimated value.
E	The reported value is estimated because of the presence of interference. An explanatory note must be included under comments.
M	Duplicate injection precision was not met.
N	Spiked sample recovery was not within control limits.

Organic Analysis

U	Indicates compound was analyzed for but not detected.
J	This qualifier indicates an estimated value. It is used under the following circumstances: (1) when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed and (2) when the mass spectral and retention time data indicate the presence of a compound that meets the pesticide/PCB identification criteria, and the result is less than the contract-required quantitation limit, but greater than zero.
B	This qualifier is used when the analyte is found in the associated blank as well as in the sample.
E	This qualifier identifies compounds whose concentrations exceed the calibration range of the gas chromatograph/mass spectrometer instrument for that specific analysis.
Y	This qualifier indicates matrix spike/matrix spike duplicate recovery and/or relative percent difference (RPD) failed to meet acceptance criteria.

Radionuclide Analysis

B	Method blank was not statistically different from sample at a 95 percent level of confidence.
U	Compound was analyzed for but not detected.
J	This qualifier indicates an estimated value.
X	Other specific qualifiers may be required to properly define the results.

D	Sample is statistically different from duplicate at a 95 percent level of confidence.
L	Expected and measured value for laboratory control sample is statistically different at a 95 percent level of confidence.
M	Expected and measured value for matrix spike is statistically different at a 95 percent level of confidence.

The following validation qualifiers were assigned by the data validators:

N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
U	Analyte or compound was considered not detected above the reported detection limit.
J	Analyte or compound was identified; the associated numerical value is approximated.
UJ	Analyte or compound not detected above the reported detection limit, and the reported detection limit is approximated because of quality deficiency.
R	Result is not usable for its intended purpose, so data are of “information only” quality and should be supplemented with additional data for decision making.
XV	Data were not validated; refer to the RSLTQUAL field which may contain more information.
XZ	Data validation performed but no validation qualifier were applied; refer to the RSLTQUAL field which may contain more information.
=	Data were validated; however, no qualifier was added.

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
25-1-2	25-1-2-S	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	JU	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	2,4-D	0.01	mg/L	U	UJ		0.01	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Actinium-227	1270	pCi/g	U	U	6350	11600	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Actinium-228	10.1	pCi/g	U	U	11.6	24.3	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Alpha activity	-0.152	pCi/g	U	U	11.8	22.6	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Americium-241	-0.0923	pCi/g	U	U	0.804	1.38	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Americium-241	0.0142	pCi/g	U	U	0.04	0.0762	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Americium-242	-0.0202	pCi/g	U	U	0.0905	0.218	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Americium-243	-0.0203	pCi/g	U	U	0.0908	0.219	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Antimony-125	-0.524	pCi/g	U	U	3.94	7.28	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Arsenic	0.0159	mg/L	U	U		0.0159	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Barium	0.0145	mg/L		=		0.000283	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Barium-133	-0.359	pCi/g	U	U	1.8	3.07	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Berkelium-247	-0.057	pCi/g	U	U	0.114	0.42	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Beryllium	0.421	µg/g	U	U		0.421	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Beryllium-7	-3	pCi/g	U	U	13.5	24.4	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Beta activity	289	pCi/g		=	27.7	19.8	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Bismuth-211	-17	pCi/g	U	U	31.8	51.3	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Bismuth-212	27.5	pCi/g	U	U	31.1	64.6	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Bismuth-214	-6.74	pCi/g	U	U	5.74	8.25	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Cadmium	0.0018	mg/L	B	J		0.000322	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Cadmium-109	-1.78	pCi/g	U	U	9.25	15.4	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.0667	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Californium-251	-0.0571	pCi/g	U	U	0.114	0.421	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Cerium-141	-0.482	pCi/g	U	U	1.1	1.93	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Cerium-144	-0.949	pCi/g	U	U	4.33	7.74	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Cesium-134	-0.172	pCi/g	U	U	1.92	3.48	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Cesium-137	-0.546	pCi/g	U	U	2.43	4.31	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Chromium	0.000854	mg/L	U	U		0.000854	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Cobalt-57	0.0779	pCi/g	U	U	0.542	0.903	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Cobalt-60	1.91	pCi/g	U	U	3.53	7.39	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Copper	0.000525	mg/L	U	U		0.000525	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Curium-243/244	-0.0161	pCi/g	U	U	0.03222	0.08673	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Curium-245/246	-0.0404	pCi/g	U	U	0.0809	0.218	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Curium-247	-0.0299	pCi/g	U	U	0.04454	0.1197	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Curium-248	-0.00769	pCi/g	U	U	0.01537	0.0566	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Curium-250	0.000573	pCi/g	U	U	1.62	0.827	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Cyclohexanone	1	mg/L	JU	UJ		1	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Francium-223	0.171	pCi/g	JU	U	0.934	1.65	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Hexachlorobutadiene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Iodine-129	1.31	pCi/g	JU	U	4.9	8.81	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Krypton-85	-598	pCi/g	U	U	546	790	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Lead	0.0122	mg/L	B	U		0.00699	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Lead-210	-5.85	pCi/g	JU	U	7.67	12.7	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Lead-211	-17	pCi/g	U	U	31.8	51.4	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Lead-212	-0.372	pCi/g	U	U	2.55	3.44	2/22/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
25-1-2	25-1-2-S	SOLID	SZ	Lead-214	-0.0017	pCi/g	U	U	5.06	8.84	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	m,p-cresol	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Manganese-54	-0.241	pCi/g	U	U	2.67	4.77	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Neptunium-237	0.0173	pCi/g	U	U	0.0245	0.0234	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Niobium-95	-0.0605	pCi/g	U	U	2.66	4.79	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	PCB-1016	0.5	µg/g	U	UJ		0.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	PCB-1221	0.5	µg/g	U	UJ		0.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	PCB-1232	0.5	µg/g	U	UJ		0.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	PCB-1242	0.5	µg/g	U	UJ		0.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	PCB-1248	0.5	µg/g	U	UJ		0.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	PCB-1254	0.5	µg/g	U	UJ		0.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	PCB-1260	0.5	µg/g	U	UJ		0.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	PCB-1268	0.5	µg/g	U	UJ		0.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Pct-Uranium-235	177	wt %	U	J	0	0	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Pentachlorophenol	0.2	mg/L	U	UJ		0.2	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Plutonium-238	-0.0172	pCi/g	U	U	0.0244	0.0801	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Plutonium-239/240	0.00000862	pCi/g	U	U	0.0244	0.0635	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Plutonium-242	-0.0518	pCi/g	U	U	0.104	0.279	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Plutonium-244	0.0259	pCi/g	U	U	0.0519	0.0703	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Polonium-210	-4850	pCi/g	U	U	269000	404000	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Polonium-211	-47.6	pCi/g	U	U	320	578	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Polonium-211m	-1.98	pCi/g	U	U	320	589	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Potassium-40	-30.3	pCi/g	U	U	61.2	112	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Protactinium-231	-0.217	pCi/g	U	U	42.6	74.7	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Protactinium-233	1.68	pCi/g	U	U	2.62	4.65	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Protactinium-234	2.54	pCi/g	U	U	18.9	37.4	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Protactinium-234m	54.5	pCi/g	U	U	320	636	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Radium-223	-1.6	pCi/g	U	U	6.18	10.6	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Radium-224	-18.2	pCi/g	U	U	20.9	32.8	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Radium-226	-0.0017	pCi/g	JU	U	5.06	8.84	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Radium-228	10.1	pCi/g	JU	U	11.6	24.3	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Radon-219	2.89	pCi/g	U	U	17.5	31.2	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Radon-220	-123	pCi/g	U	U	1620	2940	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Radon-222	1100	pCi/g	U	U	3010	5300	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Ruthenium-103	-0.198	pCi/g	U	U	1.59	2.92	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Ruthenium-106	11	pCi/g	U	U	16.9	34.2	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Selenium	0.0339	mg/L	B	J		0.0224	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Silver	0.00253	mg/L	U	U		0.00253	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Silvex	0.01	mg/L	U	UJ		0.01	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Tantalum-182	-0.524	pCi/g	U	U	9.82	18.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Technetium-99	407	pCi/g		=	15.9	11.4	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thallium-207	163	pCi/g	U	U	933	1860	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thallium-207m	0.624	pCi/g	U	U	2.62	5.28	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thallium-208	0.217	pCi/g	U	U	2.8	4.49	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thorium-227	-1.79	pCi/g	U	U	4.77	8.1	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thorium-228	-86.2	pCi/g	U	U	277	479	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thorium-228	0.158	pCi/g	J	UJ	0.0796	0.0771	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thorium-230	0.141	pCi/g		UJ	0.0685	0.0225	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thorium-230	-59.6	pCi/g	U	U	75.6	122	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thorium-231	-0.34	pCi/g	U	U	5.33	8.96	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.0225	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thorium-232	-84	pCi/g	U	U	163	223	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Thorium-234	-0.645	pCi/g	U	U	8.83	12.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Toxaphene	0.04	mg/L	U	UJ		0.04	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Uranium-232	0	pCi/g	U	U	0	0.0545	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Uranium-233	-196	pCi/g	U	U	374	634	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Uranium-233	0.0116	mg/kg	NU	U		0.0116	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Uranium-233/234	1.02	pCi/g		=	0.349	0.341	2/22/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
25-1-2	25-1-2-S	SOLID	SZ	Uranium-234	-48	pCi/g	JU	U	248	427	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Uranium-235	0.028	pCi/g	U	UJ	0.056	0.0759	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Uranium-235	0.598	pCi/g	U	U	1.52	2.32	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Uranium-236	-0.0251	pCi/g	U	UJ	0.0503	0.185	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Uranium-238	0.0000453	pCi/g	U	U	0.0906	0.21	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Uranium-238	189	pCi/g	U	U	516	927	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Ytterbium-169	2.3	pCi/g	U	U	4.49	7.63	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Zinc	0.0098	mg/L	B	U		0.00163	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Zinc-65	-2.22	pCi/g	U	U	6.78	12.2	2/22/2011	REG	USEC Data
25-1-2	25-1-2-S	SOLID	SZ	Zirconium-95	-4.54	pCi/g	U	U	4.07	5.95	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	JU	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	2,4-D	0.01	mg/L	U	UJ		0.01	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Actinium-227	-3910	pCi/g	U	U	5070	7740	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Actinium-228	0.431	pCi/g	U	U	3.88	7.62	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Alpha activity	529	pCi/g	U	UJ	548	11.8	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Americium-241	1.45	pCi/g	U	U	2.15	3.57	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Americium-241	0.00000656	pCi/g	U	U	0.0186	0.0483	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Americium-242	-0.146	pCi/g	U	U	0.11	0.314	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Americium-243	-0.147	pCi/g	U	U	0.111	0.315	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Antimony-125	0.841	pCi/g	U	U	1.74	3.35	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Arsenic	0.0179	mg/L	B	J		0.0159	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Barium	0.0329	mg/L		=		0.000283	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Barium-133	-0.237	pCi/g	U	U	0.68	1.13	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.16	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Beryllium	0.37	µg/g	U	U		0.37	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Beryllium-7	5.97	pCi/g	U	U	5.97	11.8	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Beta activity	220000	pCi/g		=	453	8.31	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Bismuth-211	3.21	pCi/g	U	U	13.2	23.6	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Bismuth-212	11.3	pCi/g	U	U	12.4	25.8	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Bismuth-214	-1.77	pCi/g	U	U	2.17	3.26	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Cadmium	0.008	mg/L		=		0.000322	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Cadmium-109	-2.76	pCi/g	U	U	18.6	27.5	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Californium-249	-0.0762	pCi/g	U	U	0.088	0.274	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.16	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Cerium-141	1.25	pCi/g	U	U	0.86	1.44	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Cerium-144	5.04	pCi/g	U	U	3.77	6.8	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Cesium-134	0.105	pCi/g	U	U	0.591	1.15	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Cesium-137	-0.375	pCi/g	U	U	0.696	1.2	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Chromium	0.829	mg/L		=		0.000854	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Cobalt-57	0.137	pCi/g	U	U	0.578	0.926	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Cobalt-60	-0.644	pCi/g	U	U	0.866	1.36	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Copper	0.222	mg/L		=		0.000525	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Curium-243/244	-0.0149	pCi/g	U	U	0.02987	0.0804	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Curium-245/246	-0.104	pCi/g	U	U	0.0933	0.274	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.02504	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Curium-248	0.0214	pCi/g	U	UJ	0.0247	0.01932	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Curium-250	-0.591	pCi/g	U	U	1.18	0.854	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Cyclohexanone	1	mg/L	JU	UJ		1	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Francium-223	1.89	pCi/g	JU	U	2.63	4.39	2/22/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
25-1-2	25-1-2-T	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Hexachlorobutadiene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Iodine-129	-3.95	pCi/g	JU	U	14.6	24.3	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Krypton-85	-300	pCi/g	U	U	207	272	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Lead	0.0918	mg/L		U		0.00699	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Lead-210	10.9	pCi/g	JU	U	22.3	37.2	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Lead-211	3.5	pCi/g	U	U	13.3	23.7	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Lead-212	-0.668	pCi/g	U	U	1.08	1.41	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Lead-214	2.61	pCi/g	U	U	2.4	3.79	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	m,p-cresol	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Manganese-54	-0.356	pCi/g	U	U	0.802	1.37	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Neptunium-237	4.56	pCi/g		=	0.374	0.0563	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Niobium-95	-0.444	pCi/g	U	U	0.958	1.63	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	PCB-1016	0.49	µg/g	U	UJ		0.49	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	PCB-1221	0.49	µg/g	U	UJ		0.49	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	PCB-1232	0.49	µg/g	U	UJ		0.49	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	PCB-1242	0.49	µg/g	U	UJ		0.49	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	PCB-1248	0.49	µg/g	U	UJ		0.49	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	PCB-1254	0.49	µg/g	U	UJ		0.49	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	PCB-1260	0.49	µg/g	U	UJ		0.49	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	PCB-1268	0.49	µg/g	U	UJ		0.49	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Pct-Uranium-235	45.3	wt %		J	0	0	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Pentachlorophenol	0.2	mg/L	U	UJ		0.2	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Plutonium-238	0.0611	pCi/g		J	0.0483	0.0562	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Plutonium-239/240	0.137	pCi/g		=	0.0716	0.0708	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Plutonium-242	0.0552	pCi/g	U	U	0.156	0.297	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.0747	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Polonium-210	-75500	pCi/g	U	U	110000	144000	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Polonium-211	122	pCi/g	U	U	140	275	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Polonium-211m	131	pCi/g	U	U	137	273	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Potassium-40	-22.1	pCi/g	U	U	24.3	42.2	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Protactinium-231	-19.1	pCi/g	U	U	20.5	28	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Protactinium-233	5.86	pCi/g		=	1.72	1.82	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Protactinium-234	1.13	pCi/g	U	U	7.74	15.3	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Protactinium-234m	19.1	pCi/g	U	U	147	284	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Radium-223	0.111	pCi/g	U	U	2.8	4.9	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Radium-224	-3.13	pCi/g	U	U	8.01	13.6	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Radium-226	2.61	pCi/g	JU	U	2.4	3.79	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Radium-228	0.431	pCi/g	JU	U	3.88	7.62	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Radon-219	-3.46	pCi/g	U	U	7.6	12.4	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Radon-220	75.4	pCi/g	U	U	519	990	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Radon-222	-223	pCi/g	U	U	1120	1890	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Ruthenium-103	-0.0663	pCi/g	U	U	0.648	1.19	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Ruthenium-106	-2.13	pCi/g	U	U	6.83	12.1	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Selenium	0.0224	mg/L	U	U		0.0224	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Silver	0.00253	mg/L	U	U		0.00253	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Silvex	0.01	mg/L	U	UJ		0.01	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Tantalum-182	0.974	pCi/g	U	U	3.85	7.57	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Technetium-99	303000	pCi/g		J	2090	37	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thallium-207	-231	pCi/g	U	U	308	525	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thallium-207m	-0.0463	pCi/g	U	U	1.26	2.38	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thallium-208	0.0408	pCi/g	U	U	1.06	1.67	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thorium-227	1.01	pCi/g	U	U	2.02	3.62	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thorium-228	-21.7	pCi/g	U	U	128	222	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thorium-228	0.133	pCi/g	J	UJ	0.0605	0.0464	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thorium-230	134	pCi/g	U	U	187	308	2/22/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
25-1-2	25-1-2-T	SOLID	SZ	Thorium-230	22.5	pCi/g		=	0.753	0.0465	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thorium-231	17.2	pCi/g		=	2.77	15.7	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thorium-232	0.0189	pCi/g	U	UJ	0.0218	0.0171	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thorium-232	62.9	pCi/g	U	U	288	469	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Thorium-234	2.63	pCi/g	U	U	15.7	25.6	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Toxaphene	0.04	mg/L	U	UJ		0.04	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Uranium-232	-0.0415	pCi/g	U	U	0.144	0.386	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Uranium-233	-136	pCi/g	U	U	1140	1890	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Uranium-233	0.0222	mg/kg	U	U		0.0222	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Uranium-233/234	311	pCi/g		=	8.43	0.992	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Uranium-234	-24.9	pCi/g	JU	U	714	1180	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Uranium-235	15.8	pCi/g		J	2.12	0.653	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Uranium-235	13.3	pCi/g		=	1.23	1.03	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Uranium-236	1.33	pCi/g		J	0.606	0.465	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Uranium-238	3.98	pCi/g		=	0.979	0.528	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Uranium-238	268	pCi/g	U	U	1510	2510	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Ytterbium-169	-3	pCi/g	U	U	4.18	6.46	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Zinc	0.0561	mg/L		U		0.00163	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Zinc-65	-1.78	pCi/g	U	U	2.52	4.2	2/22/2011	REG	USEC Data
25-1-2	25-1-2-T	SOLID	SZ	Zirconium-95	0.096	pCi/g	U	U	1.77	3.32	2/22/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	JU	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	2,4-D	0.01	mg/L	U	UJ		0.01	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Actinium-227	4250	pCi/g	U	U	6710	12500	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Actinium-228	1.15	pCi/g	U	U	9.72	19.2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Alpha activity	4.89	pCi/g	U	U	13	23	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Americium-241	0.472	pCi/g	U	U	0.869	1.56	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Americium-241	0.00803	pCi/g	U	U	0.0161	0.0218	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Americium-242	0.0000625	pCi/g	U	U	0.102	0.224	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Americium-243	0.0000627	pCi/g	U	U	0.103	0.225	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Antimony-125	-0.272	pCi/g	U	U	3.94	7.34	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Arsenic	0.0318	mg/L	U	U		0.0318	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Barium	0.0088	mg/L		=		0.000566	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Barium-133	-0.829	pCi/g	U	U	1.95	3.19	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Berkelium-247	-0.293	pCi/g	U	U	0.262	0.77	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Beryllium	0.404	µg/g	U	U		0.404	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Beryllium-7	-11.3	pCi/g	U	U	12.4	20.1	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Beta activity	168	pCi/g		J	22.6	20.2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Bismuth-211	-8.23	pCi/g	U	U	32.2	54.4	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Bismuth-212	14.3	pCi/g	U	U	34	65.9	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Bismuth-214	-7.96	pCi/g	U	U	5.77	7.95	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Cadmium	0.005	mg/L	B	J		0.000644	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Cadmium-109	6.46	pCi/g	U	U	9.36	16.6	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Californium-249	-0.0253	pCi/g	U	U	0.0507	0.187	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Californium-251	-0.294	pCi/g	U	U	0.263	0.772	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Cerium-141	-0.522	pCi/g	U	U	1.14	2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Cerium-144	-0.654	pCi/g	U	U	4.22	7.58	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Cesium-134	-0.282	pCi/g	U	U	1.9	3.44	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Cesium-137	2.16	pCi/g	U	U	2.5	5.05	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Chromium	0.0076	mg/L	B	J		0.00171	2/24/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
25-2-2	25-2-2-S	SOLID	SZ	Cobalt-57	0.107	pCi/g	U	U	0.495	0.835	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Cobalt-60	-1.92	pCi/g	U	U	3.3	5.55	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Copper	0.00105	mg/L	U	U		0.00105	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Curium-243/244	-0.00912	pCi/g	U	U	0.03164	0.01968	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Curium-245/246	-0.0416	pCi/g	U	U	0.0833	0.224	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Curium-247	-0.0564	pCi/g	U	U	0.07492	0.1792	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Curium-248	0.0524	pCi/g	U	U	0.04934	0.06418	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.314	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Cyclohexanone	1	mg/L	JU	UJ		1	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Francium-223	0.22	pCi/g	JU	U	0.915	1.63	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Hexachlorobutadiene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Iodine-129	-4.66	pCi/g	JU	U	4.93	8.09	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Krypton-85	-666	pCi/g	U	U	551	777	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Lead	0.014	mg/L	U	U		0.014	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Lead-210	4.69	pCi/g	JU	U	8.04	14.6	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Lead-211	-8.42	pCi/g	U	U	32.2	54.3	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Lead-212	1.11	pCi/g	U	U	2.65	3.74	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Lead-214	0.836	pCi/g	U	U	5.16	9.12	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	m,p-cresol	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Manganese-54	1.24	pCi/g	U	U	2.3	4.65	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Neptunium-237	-0.0569	pCi/g	U	U	0.0657	0.158	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Niobium-95	0.926	pCi/g	U	U	2.74	5.18	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	PCB-1016	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	PCB-1221	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	PCB-1232	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	PCB-1242	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	PCB-1248	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	PCB-1254	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	PCB-1260	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	PCB-1268	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Pct-Uranium-235	99.6	wt %	U	J	0	0	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Pentachlorophenol	0.2	mg/L	U	UJ		0.2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Plutonium-238	0.0189	pCi/g	U	U	0.0268	0.0257	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Plutonium-239/240	0.00000946	pCi/g	U	U	0.0268	0.0696	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Plutonium-242	-0.0362	pCi/g	U	U	0.126	0.337	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Plutonium-244	0.0363	pCi/g	U	U	0.0725	0.0983	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Polonium-210	-140000	pCi/g	U	U	274000	369000	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Polonium-211	88.1	pCi/g	U	U	333	630	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Polonium-211m	182	pCi/g	U	U	330	643	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Potassium-40	-32	pCi/g	U	U	61.2	112	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Protactinium-231	24.8	pCi/g	U	U	46	81.2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Protactinium-233	-0.518	pCi/g	U	U	2.54	4.35	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Protactinium-234	7.02	pCi/g	U	U	15.1	33	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Protactinium-234m	151	pCi/g	U	U	406	801	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Radium-223	0.397	pCi/g	U	U	5.97	10.6	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Radium-224	-28.2	pCi/g	U	U	22.9	32.7	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Radium-226	0.836	pCi/g	JU	U	5.16	9.12	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Radium-228	1.15	pCi/g	JU	U	9.72	19.2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Radon-219	-1.7	pCi/g	U	U	17.9	31	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Radon-220	-772	pCi/g	U	U	1350	2310	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Radon-222	1150	pCi/g	U	U	3070	5410	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Ruthenium-103	2.04	pCi/g	U	U	1.67	3.41	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Ruthenium-106	-14.4	pCi/g	U	U	19.3	31.8	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Selenium	0.0494	mg/L	B	J		0.0448	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Silver	0.00506	mg/L	U	U		0.00506	2/24/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
25-2-2	25-2-2-S	SOLID	SZ	Silvex	0.01	mg/L	U	UJ		0.01	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Tantalum-182	3.33	pCi/g	U	U	7.55	16.1	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Technetium-99	198	pCi/g		=	12.5	12.2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thallium-207	-324	pCi/g	U	U	1060	1940	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thallium-207m	-1.07	pCi/g	U	U	3.51	6.31	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thallium-208	-0.297	pCi/g	U	U	2.62	4.01	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thorium-227	-5.3	pCi/g	U	U	5.03	7.67	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thorium-228	89.1	pCi/g	U	U	279	506	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thorium-228	0.0935	pCi/g	J	UJ	0.0659	0.0863	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thorium-230	0.158	pCi/g		J	0.0675	0.0195	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thorium-230	-70.4	pCi/g	U	U	72.5	115	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thorium-231	2.56	pCi/g	U	U	4.82	8.53	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thorium-232	-30.3	pCi/g	U	U	163	226	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thorium-232	0.00000718	pCi/g	U	U	0.0203	0.0529	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Thorium-234	-2.81	pCi/g	U	U	8.98	12.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Toxaphene	0.04	mg/L	U	UJ		0.04	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Uranium-232	0.0207	pCi/g	U	U	0.0716	0.152	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Uranium-233	87.5	pCi/g	U	U	376	676	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Uranium-233	0.0124	mg/kg	U	U		0.0124	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Uranium-233/234	0.42	pCi/g		=	0.231	0.206	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Uranium-234	-61.1	pCi/g	JU	U	265	454	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Uranium-235	0.0345	pCi/g	U	UJ	0.0691	0.0936	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Uranium-235	-0.659	pCi/g	U	U	1.54	2.24	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Uranium-236	0	pCi/g	U	UJ	0	0.084	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Uranium-238	0	pCi/g	U	U	0	0.0757	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Uranium-238	51.6	pCi/g	U	U	511	903	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Ytterbium-169	-1.35	pCi/g	U	U	4.71	7.54	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Zinc	0.0134	mg/L	B	U		0.00326	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Zinc-65	-2.22	pCi/g	U	U	4.92	8.83	2/24/2011	REG	USEC Data
25-2-2	25-2-2-S	SOLID	SZ	Zirconium-95	-3.41	pCi/g	U	U	5.63	9.36	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	JU	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	2,4-D	0.01	mg/L	U	UJ		0.01	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Actinium-227	-2850	pCi/g	U	U	3600	5470	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Actinium-228	5.02	pCi/g	U	U	3.9	8.98	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Alpha activity	201	pCi/g		=	58.1	11.9	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Americium-241	-0.194	pCi/g	U	U	0.878	1.46	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Americium-241	0.0128	pCi/g	U	U	0.018	0.0173	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Americium-242	0.0455	pCi/g	U	U	0.0909	0.167	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Americium-243	0.0457	pCi/g	U	U	0.0912	0.168	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Antimony-125	-0.404	pCi/g	U	U	1.73	3.15	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Arsenic	0.718	mg/L		=		0.0159	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Barium	0.0148	mg/L		=		0.000283	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Barium-133	0.119	pCi/g	U	U	0.738	1.31	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.174	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Beryllium	0.381	µg/g	U	U		0.381	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Beryllium-7	0.822	pCi/g	U	U	5.31	10.1	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Beta activity	22800	pCi/g		=	150	8.8	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Bismuth-211	-2.36	pCi/g	U	U	14.7	24.9	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Bismuth-212	7.49	pCi/g	U	U	15.1	29.3	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Bismuth-214	-1.12	pCi/g	U	U	2.55	4.09	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Cadmium	0.000322	mg/L	U	U		0.000322	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Cadmium-109	-14.9	pCi/g	U	U	8.32	12.3	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.0749	2/24/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
25-2-2	25-2-2-T	SOLID	SZ	Californium-251	-0.0641	pCi/g	U	U	0.128	0.472	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Cerium-141	0.923	pCi/g	U	U	0.66	1.14	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Cerium-144	-0.193	pCi/g	U	U	2.41	4.29	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Cesium-134	-0.271	pCi/g	U	U	0.821	1.44	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Cesium-137	0.547	pCi/g	U	U	1.04	2.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Chromium	1.42	mg/L		=		0.000854	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Cobalt-57	0.154	pCi/g	U	U	0.331	0.548	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Cobalt-60	-0.903	pCi/g	U	U	1.51	2.52	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Copper	0.106	mg/L		=		0.000525	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Curium-243/244	0.00726	pCi/g	U	U	0.01452	0.08485	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Curium-245/246	0.0228	pCi/g	U	U	0.0787	0.167	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Curium-247	0.009	pCi/g	U	U	0.04014	0.08334	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Curium-248	0	pCi/g	U	U	0	0.01878	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.342	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Cyclohexanone	1	mg/L	JU	UJ		1	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Francium-223	0.0226	pCi/g	JU	U	1.04	1.75	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Hexachlorobutadiene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Iodine-129	4.09	pCi/g	JU	U	5.75	9.95	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Krypton-85	-302	pCi/g	U	U	222	298	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Lead	0.0496	mg/L	B	U		0.00699	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Lead-210	-1.2	pCi/g	JU	U	8.82	14.8	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Lead-211	-1.88	pCi/g	U	U	14.7	25.1	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Lead-212	-0.739	pCi/g	U	U	1.19	1.58	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Lead-214	0.0449	pCi/g	U	U	2.08	3.66	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	m,p-cresol	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Manganese-54	0.633	pCi/g	U	U	1.05	2.11	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Neptunium-237	0.428	pCi/g		=	0.11	0.0697	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Niobium-95	-0.128	pCi/g	U	U	1.01	1.82	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	PCB-1016	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	PCB-1221	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	PCB-1232	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	PCB-1242	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	PCB-1248	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	PCB-1254	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	PCB-1260	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	PCB-1268	0.5	µg/g	U	UJ		0.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Pct-Uranium-235	49.8	wt %		J	0	0	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Pentachlorophenol	0.2	mg/L	U	UJ		0.2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Plutonium-238	0.0194	pCi/g	U	U	0.0289	0.0475	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Plutonium-239/240	0.0452	pCi/g		=	0.0342	0.0175	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Plutonium-242	-0.0289	pCi/g	U	U	0.1	0.269	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Plutonium-244	-0.0289	pCi/g	U	U	0.0578	0.213	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Polonium-210	1820	pCi/g	U	U	118000	179000	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Polonium-211	-62.5	pCi/g	U	U	131	226	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Polonium-211m	18.6	pCi/g	U	U	130	244	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Potassium-40	-19.9	pCi/g	U	U	24.7	44	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Protactinium-231	-1.1	pCi/g	U	U	17.7	30.9	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Protactinium-233	0.822	pCi/g	U	U	1.26	2.2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Protactinium-234	3.17	pCi/g	U	U	7.63	15.9	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Protactinium-234m	33	pCi/g	U	U	123	253	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
25-2-2	25-2-2-T	SOLID	SZ	Radium-223	1.15	pCi/g	U	U	3.09	5.44	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Radium-224	-6.57	pCi/g	U	U	9.39	15.2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Radium-226	0.0449	pCi/g	JU	U	2.08	3.66	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Radium-228	5.02	pCi/g	JU	U	3.9	8.98	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Radon-219	2.55	pCi/g	U	U	9.16	16.2	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Radon-220	-142	pCi/g	U	U	611	1100	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Radon-222	775	pCi/g	U	U	1310	2330	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Ruthenium-103	-0.0588	pCi/g	U	U	0.586	1.09	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Ruthenium-106	3.01	pCi/g	U	U	8.81	16.7	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Selenium	0.0224	mg/L	U	U		0.0224	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Silver	0.00253	mg/L	U	U		0.00253	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Silvex	0.01	mg/L	U	UJ		0.01	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Tantalum-182	-1.5	pCi/g	U	U	4.61	8.21	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Technetium-99	30500	pCi/g		J	213	10.5	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thallium-207	-348	pCi/g	U	U	405	676	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thallium-207m	0.695	pCi/g	U	U	0.938	2.11	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thallium-208	1.42	pCi/g	U	UJ	0.424	1.38	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thorium-227	0.318	pCi/g	U	U	2.21	3.89	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thorium-228	1.34	pCi/g	U	U	122	217	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thorium-228	0.0826	pCi/g	J	UJ	0.0454	0.0405	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thorium-230	26.5	pCi/g		=	0.765	0.0405	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thorium-230	65	pCi/g	U	U	78.2	133	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thorium-231	17	pCi/g		=	3.51	7.4	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thorium-232	21.3	pCi/g	U	U	128	203	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thorium-232	0.022	pCi/g	U	UJ	0.022	0.0149	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Thorium-234	2.62	pCi/g	U	U	6.93	11.1	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Toxaphene	0.04	mg/L	U	UJ		0.04	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Uranium-232	-0.0856	pCi/g	U	U	0.121	0.398	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Uranium-233	-45.7	pCi/g	U	U	457	773	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Uranium-233	0.0121	mg/kg	U	U		0.0121	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Uranium-233/234	259	pCi/g		=	7.73	0.692	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Uranium-234	184	pCi/g	JU	U	294	501	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Uranium-235	12.2	pCi/g		J	1.86	0.193	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Uranium-235	13.7	pCi/g		=	1.35	0.933	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Uranium-236	1.47	pCi/g		J	0.612	0.173	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Uranium-238	2.7	pCi/g		=	0.788	0.156	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Uranium-238	-43.6	pCi/g	U	U	592	995	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Ytterbium-169	1.94	pCi/g	U	U	2.63	4.41	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Zinc	0.0315	mg/L		U		0.00163	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Zinc-65	1.27	pCi/g	U	U	3.01	6.01	2/24/2011	REG	USEC Data
25-2-2	25-2-2-T	SOLID	SZ	Zirconium-95	-0.842	pCi/g	U	U	2.33	4.02	2/24/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	JU	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	2,4-D	0.01	mg/L	U	UJ		0.01	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Actinium-227	-16300	pCi/g	U	U	13900	23200	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Actinium-228	15.6	pCi/g	U	U	24.5	50.3	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Alpha activity	2.53	pCi/g	U	U	13.2	24.7	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Americium-241	-0.348	pCi/g	U	U	1.84	2.91	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Americium-241	0.0237	pCi/g	U	UJ	0.0274	0.0214	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Americium-242	0.0222	pCi/g	U	U	0.117	0.238	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Americium-243	0.0222	pCi/g	U	U	0.117	0.239	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Antimony-125	3.75	pCi/g	U	U	8.97	17.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Arsenic	0.0318	mg/L	U	U		0.0318	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Barium	0.0108	mg/L		=		0.000566	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Barium-133	1.24	pCi/g	U	U	4.09	7.28	2/15/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-2-2	27-2-2-S	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Berkelium-247	-0.0621	pCi/g	U	U	0.124	0.458	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Beryllium	0.4	µg/g	U	U		0.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Beryllium-7	-17.9	pCi/g	U	U	31.5	54.3	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Beta activity	108	pCi/g		=	20.3	21.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Bismuth-211	18	pCi/g	U	U	62.7	114	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Bismuth-212	43.1	pCi/g	U	U	67.4	136	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Bismuth-214	-9.98	pCi/g	U	U	12.9	19.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Cadmium	0.000644	mg/L	U	U		0.000644	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Cadmium-109	-3.69	pCi/g	U	U	19.9	33.2	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Californium-249	-0.0537	pCi/g	U	U	0.0759	0.249	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Californium-251	-0.0623	pCi/g	U	U	0.125	0.459	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Cerium-141	1.73	pCi/g	U	U	2.37	4.44	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Cerium-144	-5.22	pCi/g	U	U	9.02	15.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Cesium-134	-0.256	pCi/g	U	U	4.38	7.96	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Cesium-137	3.56	pCi/g	U	U	4.47	9.32	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Chromium	0.21	mg/L		=		0.00171	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Cobalt-57	-0.679	pCi/g	U	U	1.1	1.72	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Cobalt-60	-3.71	pCi/g	U	U	6.78	11.6	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Copper	0.00105	mg/L	U	U		0.00105	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.0244	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Curium-245/246	0.0221	pCi/g	U	U	0.0987	0.205	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Curium-247	-0.0111	pCi/g	U	U	0.0589	0.134	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Curium-248	0.0344	pCi/g	U	U	0.0421	0.0632	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Curium-250	0.623	pCi/g	U	UJ	1.25	0.332	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Cyclohexanone	1	mg/L	JU	UJ		1	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Francium-223	-0.916	pCi/g	JU	U	1.88	3.18	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Hexachlorobutadiene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Iodine-129	-5.03	pCi/g	JU	U	10.8	18.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Krypton-85	-733	pCi/g	U	U	1190	1850	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Lead	0.014	mg/L	U	U		0.014	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Lead-210	-1.49	pCi/g	JU	U	15.6	27.2	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Lead-211	18	pCi/g	U	U	62.7	114	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Lead-212	-2.88	pCi/g	U	U	5.75	7.46	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Lead-214	12.5	pCi/g	U	U	12	19.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	m,p-cresol	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Manganese-54	2.27	pCi/g	U	U	5.26	10.3	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Neptunium-237	0.0000103	pCi/g	U	U	0.029	0.0756	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Niobium-95	-4.42	pCi/g	U	U	4.96	7.72	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	PCB-1016	0.51	µg/g	U	UJ		0.51	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	PCB-1221	0.51	µg/g	U	UJ		0.51	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	PCB-1232	0.51	µg/g	U	UJ		0.51	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	PCB-1242	0.51	µg/g	U	UJ		0.51	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	PCB-1248	0.51	µg/g	U	UJ		0.51	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	PCB-1254	0.51	µg/g	U	UJ		0.51	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	PCB-1260	0.51	µg/g	U	UJ		0.51	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	PCB-1268	0.51	µg/g	U	UJ		0.51	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Pct-Uranium-235	9.09	wt %	U	J	0	0	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Pentachlorophenol	0.4	mg/L	U	UJ		0.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Plutonium-238	0	pCi/g	U	U	0	0.0278	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Plutonium-239/240	-0.0205	pCi/g	U	U	0.0289	0.0951	2/15/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-2-2	27-2-2-S	SOLID	SZ	Plutonium-242	0.0302	pCi/g	U	U	0.105	0.222	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Plutonium-244	0.0000302	pCi/g	U	U	0.0853	0.222	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Polonium-210	-20400	pCi/g	U	U	550000	804000	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Polonium-211	-295	pCi/g	U	U	639	1110	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Polonium-211m	-439	pCi/g	U	U	660	1110	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Potassium-40	-101	pCi/g	U	U	128	228	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Protactinium-231	-92.2	pCi/g	U	U	108	154	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Protactinium-233	-7.1	pCi/g	U	U	7.02	9.28	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Protactinium-234	6.47	pCi/g	U	U	46.9	91.3	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Protactinium-234m	-511	pCi/g	U	U	680	1140	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Radium-223	4.95	pCi/g	U	U	14.2	25.3	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Radium-224	-47.8	pCi/g	U	U	46.2	69.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Radium-226	12.5	pCi/g	JU	U	12	19.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Radium-228	15.6	pCi/g	JU	U	24.5	50.3	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Radon-219	9.29	pCi/g	U	U	39.5	70.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Radon-220	341	pCi/g	U	U	3060	5770	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Radon-222	-5800	pCi/g	U	U	6590	10300	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Ruthenium-103	-1.95	pCi/g	U	U	4.07	7.07	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Ruthenium-106	2.89	pCi/g	U	U	41.1	76.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Selenium	0.0448	mg/L	U	U		0.0448	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Silver	0.00506	mg/L	U	U		0.00506	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Silvex	0.01	mg/L	U	UJ		0.01	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Tantalum-182	8.09	pCi/g	U	U	21.1	42.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Technetium-99	172	pCi/g		=	11.7	11.9	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thallium-207	475	pCi/g	U	U	2010	4040	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thallium-207m	-2.22	pCi/g	U	U	6.1	11.1	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thallium-208	-5.99	pCi/g	U	U	6.19	8.46	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thorium-227	-5.15	pCi/g	U	U	10.6	17.7	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thorium-228	89.5	pCi/g	U	U	618	1110	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thorium-228	0.0775	pCi/g	J	UJ	0.0537	0.057	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thorium-230	31.5	pCi/g	U	U	166	271	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thorium-230	0.0699	pCi/g	U	U	0.0676	0.102	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thorium-231	2.21	pCi/g	U	U	10.3	17.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thorium-232	632	pCi/g	JU	UJ	612	402	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thorium-232	0.00776	pCi/g	U	U	0.0346	0.0719	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Thorium-234	34.3	pCi/g		J	16.9	21.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Toxaphene	0.04	mg/L	U	UJ		0.04	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Uranium-232	0	pCi/g	U	U	0	0.0615	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Uranium-233	351	pCi/g	U	U	864	1560	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Uranium-233	0.013	mg/kg	U	U		0.013	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Uranium-233/234	1.76	pCi/g		=	0.452	0.311	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Uranium-234	-80.1	pCi/g	JU	U	554	956	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Uranium-235	-1.94	pCi/g	U	U	3.36	4.84	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Uranium-235	0.0959	pCi/g	U	UJ	0.111	0.0866	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Uranium-236	0.0574	pCi/g	U	UJ	0.0811	0.0778	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Uranium-238	159	pCi/g	U	U	1040	1850	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Uranium-238	0.155	pCi/g		J	0.127	0.0701	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Ytterbium-169	-2.21	pCi/g	U	U	10.2	16.5	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Zinc	0.008	mg/L	B	U		0.00326	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Zinc-65	-9.83	pCi/g	U	U	14.5	24.3	2/15/2011	REG	USEC Data
27-2-2	27-2-2-S	SOLID	SZ	Zirconium-95	-5.77	pCi/g	U	U	10.6	17.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	JU	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	2,4-D	0.01	mg/L	U	UJ		0.01	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-2-2	27-2-2-T	SOLID	SZ	Actinium-227	14600	pCi/g	JU	UJ	3070	13000	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Actinium-228	1.17	pCi/g	U	U	4.88	9.45	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Alpha activity	9390	pCi/g		=	193	11.5	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Americium-241	6.91	pCi/g	JU	UJ	2.87	2.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Americium-241	0.0108	pCi/g	U	U	0.0153	0.0146	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Americium-242	0.0411	pCi/g	U	U	0.0822	0.151	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Americium-243	0.0413	pCi/g	U	U	0.0825	0.152	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Antimony-125	0.473	pCi/g	U	U	1.97	3.69	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Arsenic	0.926	mg/L		=		0.0318	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Barium	0.014	mg/L		=		0.000566	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Barium-133	-0.185	pCi/g	U	U	0.825	1.39	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Berkelium-247	0.0000578	pCi/g	U	U	0.164	0.426	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Beryllium	0.381	µg/g	U	U		0.381	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Beryllium-7	0.541	pCi/g	U	U	6.59	12.1	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Beta activity	42500	pCi/g		=	201	8.31	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Bismuth-211	3.77	pCi/g	U	U	17.2	29.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Bismuth-212	5.32	pCi/g	U	U	15.8	29.5	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Bismuth-214	-2.27	pCi/g	U	U	2.71	4.21	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Cadmium	0.000644	mg/L	U	U		0.000644	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Cadmium-109	20.6	pCi/g	U	U	22.2	29.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.0677	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Californium-251	0.000058	pCi/g	U	U	0.164	0.427	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Cerium-141	17	pCi/g	JU	UJ	2.3	3.21	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Cerium-144	-3.05	pCi/g	U	U	6	10.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Cesium-134	-0.393	pCi/g	U	U	0.958	1.65	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Cesium-137	0.391	pCi/g	U	U	1.25	2.3	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Chromium	0.312	mg/L		=		0.00171	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Cobalt-57	5.98	pCi/g	JU	UJ	1.37	1.36	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Cobalt-60	-0.0622	pCi/g	U	U	1.22	2.36	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Copper	0.0904	mg/L		=		0.00105	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Curium-243/244	-0.00613	pCi/g	U	U	0.0123	0.0452	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Curium-245/246	0.0411	pCi/g	U	U	0.0581	0.0557	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.0206	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Curium-248	0.0117	pCi/g	U	U	0.0166	0.0159	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Curium-250	0.58	pCi/g	U	UJ	1.16	0.309	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Cyclohexanone	1	mg/L	JU	UJ		1	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Francium-223	0.189	pCi/g	JU	U	1.99	3.07	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Hexachlorobutadiene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Iodine-129	-2.26	pCi/g	JU	U	9.35	15.7	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Krypton-85	-190	pCi/g	U	U	245	381	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Lead	0.0226	mg/L	B	U		0.014	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Lead-210	-5.73	pCi/g	JU	U	15.2	25.2	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Lead-211	3.55	pCi/g	U	U	17.1	29.7	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Lead-212	-0.234	pCi/g	U	U	1.17	1.68	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Lead-214	-1.03	pCi/g	U	U	2.56	4.19	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	m,p-cresol	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Manganese-54	-0.363	pCi/g	U	U	1.32	2.26	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Neptunium-237	0.516	pCi/g		=	0.152	0.16	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Niobium-95	0.818	pCi/g	U	U	1.37	2.57	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	PCB-1016	0.52	µg/g	U	UJ		0.52	2/15/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-2-2	27-2-2-T	SOLID	SZ	PCB-1221	0.52	µg/g	U	UJ		0.52	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	PCB-1232	0.52	µg/g	U	UJ		0.52	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	PCB-1242	0.52	µg/g	U	UJ		0.52	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	PCB-1248	0.52	µg/g	U	UJ		0.52	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	PCB-1254	0.52	µg/g	U	UJ		0.52	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	PCB-1260	0.52	µg/g	U	UJ		0.52	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	PCB-1268	0.52	µg/g	U	UJ		0.52	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Pct-Uranium-235	15	wt %		J	0	0	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Pentachlorophenol	0.4	mg/L	U	UJ		0.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Plutonium-238	0.0154	pCi/g	U	U	0.0376	0.0713	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Plutonium-239/240	0.115	pCi/g		=	0.0737	0.0922	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Plutonium-242	0.000184	pCi/g	U	U	0.212	0.432	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Plutonium-244	0.0614	pCi/g	U	U	0.123	0.226	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Polonium-210	-10300	pCi/g	U	U	133000	208000	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Polonium-211	15.2	pCi/g	U	U	154	281	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Polonium-211m	-34.2	pCi/g	U	U	152	269	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Potassium-40	6.98	pCi/g	U	U	26.7	52	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Protactinium-231	-13.6	pCi/g	U	U	23.7	37.2	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Protactinium-233	8.78	pCi/g	JU	UJ	1.86	2.14	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Protactinium-234	7.38	pCi/g	U	U	0.0823	20.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Protactinium-234m	490	pCi/g	U	U	232	495	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Radium-223	-2.51	pCi/g	U	U	3.31	5.01	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Radium-224	-2.98	pCi/g	U	U	10.1	17.2	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Radium-226	-1.03	pCi/g	JU	U	2.56	4.19	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Radium-228	1.17	pCi/g	JU	U	4.88	9.45	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Radon-219	1.75	pCi/g	U	U	9.11	15.9	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Radon-220	-203	pCi/g	U	U	727	1280	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Radon-222	-204	pCi/g	U	U	1340	2280	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Ruthenium-103	0.28	pCi/g	U	U	0.799	1.5	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Ruthenium-106	-3.05	pCi/g	U	U	9.52	16.6	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Selenium	0.0448	mg/L	U	U		0.0448	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Silver	0.00506	mg/L	U	U		0.00506	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Silvex	0.01	mg/L	U	UJ		0.01	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Tantalum-182	4.76	pCi/g	U	U	4.63	9.66	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Technetium-99	72000	pCi/g		J	504	16.3	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thallium-207	-83.1	pCi/g	U	U	471	869	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thallium-207m	3.48	pCi/g	U	U	1.89	3.99	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thallium-208	-0.169	pCi/g	U	U	1.3	2.08	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thorium-227	-3.63	pCi/g	U	U	2.55	3.59	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thorium-228	140	pCi/g	U	U	152	273	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thorium-228	0.571	pCi/g		=	0.112	0.0559	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thorium-230	-45.3	pCi/g	U	U	170	277	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thorium-230	16.2	pCi/g		=	0.581	0.0383	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thorium-231	431	pCi/g		=	7.04	16.6	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thorium-232	5040	pCi/g	JU	UJ	470	396	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thorium-232	0.0000104	pCi/g	U	U	0.0208	0.0482	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Thorium-234	273	pCi/g		=	2.86	21.4	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Toxaphene	0.04	mg/L	U	UJ		0.04	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Uranium-232	1.23	pCi/g	U	UJ	1.42	1.11	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Uranium-233	872	pCi/g	U	U	749	1280	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Uranium-233	1.18	mg/kg	U	U		1.18	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Uranium-233/234	12700	pCi/g		=	164	1.43	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Uranium-234	10100	pCi/g	J	J	944	843	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Uranium-235	458	pCi/g		=	4.66	1.67	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Uranium-235	555	pCi/g		J	38.1	4.8	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Uranium-236	42.8	pCi/g		J	10	1.59	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Uranium-238	145	pCi/g	U	U	1140	1760	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Uranium-238	527	pCi/g		=	33.4	3.88	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Ytterbium-169	0.143	pCi/g	U	U	6.46	10.2	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Zinc	0.0228	mg/L	B	U		0.00326	2/15/2011	REG	USEC Data
27-2-2	27-2-2-T	SOLID	SZ	Zinc-65	-2.07	pCi/g	U	U	2.75	4.54	2/15/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-2-2	27-2-2-T	SOLID	SZ	Zirconium-95	-0.599	pCi/g	U	U	2.69	4.67	2/15/2011	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	2,4-D	0.008	mg/L	U	UJ		0.008	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Actinium-227	-32900	pCi/g	U	U	24800	39600	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Actinium-228	1.47	pCi/g	U	U	10.3	16	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Alpha activity	-7.47	pCi/g	U	U	29.9	60	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Americium-241	7.69	pCi/g	U	U	19.2	32.9	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Americium-241	0	pCi/g	U	U	0	0.0486	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Americium-242	-0.0145	pCi/g	U	U	0.0771	0.175	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Americium-243	-0.0146	pCi/g	U	U	0.0774	0.176	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Antimony-125	-4.33	pCi/g	U	U	5.27	8.48	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Arsenic	0.02	mg/L	U	U		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Barium	0.014	mg/L		=		0.000822	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Barium-133	-38.8	pCi/g	U	U	6.85	4.15	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.111	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Beryllium	0.443	µg/g	U	U		0.443	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Beryllium-7	1	pCi/g	U	U	15.2	24.8	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Beta activity	248	pCi/g		=	47.2	46.8	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Bismuth-211	8.98	pCi/g	U	U	42.6	70.6	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Bismuth-212	-27.2	pCi/g	U	U	32.4	44.1	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Bismuth-214	-3.88	pCi/g	U	U	7.04	12.2	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Cadmium	0.000596	mg/L	U	U		0.000596	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Cadmium-109	-29	pCi/g	U	U	70.3	117	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Californium-249	-0.0177	pCi/g	U	U	0.0354	0.13	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Californium-251	-0.0411	pCi/g	U	U	0.0822	0.303	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Cerium-141	3.33	pCi/g	U	U	4.2	6.88	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Cerium-144	-4.84	pCi/g	U	U	18.2	29.6	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Cesium-134	-41	pCi/g	U	U	3.11	2.7	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Cesium-137	-3.23	pCi/g	U	U	1.79	2.87	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Chromium	0.11	mg/L		=		0.00194	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Cobalt-57	-0.206	pCi/g	U	U	2.4	3.93	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Cobalt-60	-0.269	pCi/g	U	U	1.56	2.61	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Copper	0.00208	mg/L	U	U		0.00208	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Curium-243/244	0.0204	pCi/g	U	U	0.0408	0.0553	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Curium-245/246	-0.0291	pCi/g	U	U	0.0412	0.135	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Curium-247	0.0252	pCi/g	U	U	0.0504	0.0684	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Curium-248	0.0584	pCi/g	U	UJ	0.0674	0.0527	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Curium-250	0.000411	pCi/g	U	U	1.16	0.596	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Cyclohexanone	1	mg/L	U	UJ		1	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Francium-223	-15.7	pCi/g	JU	U	53.8	91.9	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Iodine-129	-574	pCi/g	JU	U	1930	3250	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Krypton-85	-1170	pCi/g	U	U	424	685	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Lead	0.0087	mg/L	U	U		0.0087	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Lead-210	-7.37	pCi/g	JU	U	747	1290	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Lead-211	8.64	pCi/g	U	U	42.6	70.6	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Lead-212	-9.23	pCi/g	U	U	5.35	7.71	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Lead-214	-9.68	pCi/g	U	U	12.7	17.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Manganese-54	-2.16	pCi/g	U	U	1.98	2.7	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Neptunium-237	0.0521	pCi/g	U	U	0.115	0.208	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Niobium-95	3.04	pCi/g	U	U	1.82	3.16	12/29/2010	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-2	27-3-2-S	SOLID	SZ	PCB-1016	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	PCB-1221	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	PCB-1232	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	PCB-1242	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	PCB-1248	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	PCB-1254	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	PCB-1260	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	PCB-1268	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Pct-Uranium-235	0	wt %	U	J	0	0	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Plutonium-238	0.0521	pCi/g	U	UJ	0.0602	0.0471	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Plutonium-239/240	0.0174	pCi/g	U	U	0.0348	0.0471	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Plutonium-242	-0.0173	pCi/g	U	U	0.0347	0.128	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Plutonium-244	0.0174	pCi/g	U	U	0.0347	0.047	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Polonium-210	-78900	pCi/g	U	U	140000	229000	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Polonium-211	-96.6	pCi/g	U	U	276	468	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Polonium-211m	-57.5	pCi/g	U	U	278	473	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Potassium-40	-2.65	pCi/g	U	U	61.1	117	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Protactinium-231	-63.9	pCi/g	U	U	77.7	126	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Protactinium-233	-3.18	pCi/g	U	U	4.37	7.12	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Protactinium-234	-2.5	pCi/g	U	U	12.4	20.3	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Protactinium-234m	21	pCi/g	U	U	255	378	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Radium-223	5.16	pCi/g	U	U	14.7	21	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Radium-224	-117	pCi/g	U	U	59.9	76.4	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Radium-226	-9.68	pCi/g	JU	U	12.7	17.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Radium-228	1.47	pCi/g	JU	U	10.3	16	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Radon-219	6.16	pCi/g	U	U	24.1	40	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Radon-220	-116	pCi/g	U	U	1360	2320	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Radon-222	-6320	pCi/g	U	U	3380	4670	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Ruthenium-103	0.647	pCi/g	U	U	1.74	2.86	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Ruthenium-106	-11.5	pCi/g	U	U	14.9	24.8	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Selenium	0.0474	mg/L	U	U		0.0474	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Silver	0.00596	mg/L	U	U		0.00596	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Silvex	0.008	mg/L	U	UJ		0.008	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Tantalum-182	91.7	pCi/g	U	U	8.17	15.7	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Technetium-99	186	pCi/g		J	9.35	7.83	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thallium-207	-283	pCi/g	U	U	779	1020	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thallium-207m	-0.492	pCi/g	U	U	2.14	3.14	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thallium-208	1.46	pCi/g	U	U	2.79	4.3	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thorium-227	-35.7	pCi/g	U	U	12.3	17.2	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thorium-228	-124	pCi/g	U	U	700	1190	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thorium-228	0.0317	pCi/g	U	U	0.11	0.233	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thorium-230	-103	pCi/g	U	U	1150	1940	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thorium-230	0.19	pCi/g	U	U	0.179	0.233	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thorium-231	2.07	pCi/g	U	U	51.5	69.8	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thorium-232	217	pCi/g	U	U	2680	3520	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thorium-232	0.0316	pCi/g	U	U	0.0633	0.0857	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Thorium-234	-79.3	pCi/g	U	U	150	193	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Toxaphene	0.008	mg/L	U	UJ		0.008	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Uranium-232	0.0679	pCi/g	U	U	0.235	0.499	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Uranium-233	-22700	pCi/g	U	U	78700	135000	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Uranium-233	0.0124	mg/kg	U	U		0.0124	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Uranium-233/234	6.39	pCi/g		=	1.76	1.79	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Uranium-234	-5890	pCi/g	JU	U	10300	17500	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Uranium-235	0.314	pCi/g	U	U	4.48	5.98	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Uranium-235	0.000107	pCi/g	U	UJ	0.301	0.784	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Uranium-236	-0.0956	pCi/g	U	UJ	0.191	0.704	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Uranium-238	-23000	pCi/g	U	U	32900	55700	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Uranium-238	0.518	pCi/g	U	U	0.645	1.04	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Ytterbium-169	3.56	pCi/g	U	U	17.9	29.4	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Zinc	0.0418	mg/L	B	U		0.0152	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Zinc-65	-58.4	pCi/g	U	U	5.47	5.66	12/29/2010	REG	USEC Data
27-3-2	27-3-2-S	SOLID	SZ	Zirconium-95	-3.72	pCi/g	U	U	3.73	6.08	12/29/2010	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-2	27-3-2-SA	SOLID	SZ	1,4-Dichlorobenzene	0.0016	mg/L	JU	UJ		0.0016	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	2,4,5-Trichlorophenol	0.0022	mg/L	JU	UJ		0.0022	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	2,4,6-Trichlorophenol	0.0014	mg/L	JU	UJ		0.0014	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	2,4-Dinitrotoluene	0.0084	mg/L	JU	UJ		0.0084	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	2-Methylphenol	0.0049	mg/L	JU	UJ		0.0049	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	Hexachlorobenzene	0.0033	mg/L	JU	UJ		0.0033	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	Hexachlorobutadiene	0.017	mg/L	JU	UJ		0.017	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	Hexachloroethane	0.011	mg/L	JU	UJ		0.011	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	m+p Methylphenol	0.0013	mg/L	JU	UJ		0.0013	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	Nitrobenzene	0.0041	mg/L	JU	UJ		0.0041	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	Pentachlorophenol	0.005	mg/L	JU	UJ		0.005	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	Pyridine	0.0057	mg/L	JU	UJ		0.0057	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SA	SOLID	SZ	Total Cresols	0.0013	mg/L	JU	UJ		0.0013	12/29/2010	REG	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	2,4-D	0.008	mg/L	U	UJ		0.008	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Actinium-227	44500	pCi/g	U	U	32900	54100	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Actinium-228	0.826	pCi/g	U	U	13.6	21.1	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Alpha activity	-13	pCi/g	U	U	37.4	76.8	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Americium-241	-5.62	pCi/g	U	U	25.2	42.8	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Americium-241	0.0479	pCi/g	U	U	0.0677	0.0648	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Americium-242	0.0392	pCi/g	U	U	0.0554	0.0531	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Americium-243	0.0393	pCi/g	U	U	0.0556	0.0533	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Antimony-125	3.23	pCi/g	U	U	6.92	11.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Arsenic	0.02	mg/L	U	U		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Barium	0.0322	mg/L		=		0.000822	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Barium-133	-47.4	pCi/g	U	U	8.53	5.64	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.15	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Beryllium	0.424	µg/g	U	U		0.424	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Beryllium-7	-3.85	pCi/g	U	U	20.1	32.7	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Beta activity	180	pCi/g		=	51.6	61.8	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Bismuth-211	-32.1	pCi/g	U	U	55.8	90.7	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Bismuth-212	-45.8	pCi/g	U	U	42	55.9	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Bismuth-214	-11.7	pCi/g	U	U	9.38	16.1	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Cadmium	0.000596	mg/L	U	U		0.000596	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Cadmium-109	-21.2	pCi/g	U	U	91.9	153	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Californium-249	-0.0238	pCi/g	U	U	0.0476	0.175	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.15	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Cerium-141	-0.844	pCi/g	U	U	5.63	9.13	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Cerium-144	-11.8	pCi/g	U	U	24.2	39.2	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Cesium-134	-54	pCi/g	U	U	4.15	3.69	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Cesium-137	-2.79	pCi/g	U	U	2.38	3.89	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Chromium	0.0228	mg/L		=		0.00194	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Cobalt-57	-0.581	pCi/g	U	U	3.21	5.26	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Cobalt-60	-2	pCi/g	U	U	2.11	3.42	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Copper	0.00208	mg/L	U	U		0.00208	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.0738	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Curium-245/246	0.0196	pCi/g	U	U	0.0392	0.0531	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Curium-247	0.0337	pCi/g	U	U	0.117	0.248	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Curium-248	0.208	pCi/g	U	U	0.18	0.241	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.295	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Cyclohexanone	1	mg/L	U	UJ		1	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Francium-223	-42.3	pCi/g	JU	U	71.6	122	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Iodine-129	-234	pCi/g	JU	U	2510	4330	12/29/2010	FD	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-2	27-3-2-SD	SOLID	SZ	Krypton-85	-2050	pCi/g	U	U	571	903	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Lead	0.0136	mg/L	B	U		0.0087	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Lead-210	284	pCi/g	JU	U	990	1710	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Lead-211	-32	pCi/g	U	U	55.8	90.8	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Lead-212	-9.53	pCi/g	U	U	7.01	10.4	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Lead-214	8.94	pCi/g	U	U	16.6	23.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Manganese-54	-2.56	pCi/g	U	U	2.62	3.6	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Neptunium-237	0	pCi/g	U	U	0	0.0584	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Niobium-95	5.41	pCi/g	U	UJ	2.4	4.22	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	PCB-1016	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	PCB-1221	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	PCB-1232	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	PCB-1242	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	PCB-1248	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	PCB-1254	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	PCB-1260	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	PCB-1268	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Pct-Uranium-235	3.76	wt %	U	J	0	0	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Plutonium-238	0.0951	pCi/g	U	UJ	0.0951	0.0644	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Plutonium-239/240	-0.0475	pCi/g	U	U	0.095	0.256	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Plutonium-242	-0.0474	pCi/g	U	U	0.0949	0.256	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Plutonium-244	-0.0474	pCi/g	U	U	0.0949	0.256	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Polonium-210	-51600	pCi/g	U	U	188000	311000	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Polonium-211	407	pCi/g	U	U	365	638	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Polonium-211m	442	pCi/g	U	U	364	639	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Potassium-40	4.02	pCi/g	U	U	81	156	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Protactinium-231	-79.6	pCi/g	U	U	102	165	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Protactinium-233	-0.946	pCi/g	U	U	5.75	9.59	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Protactinium-234	3.74	pCi/g	U	U	16.4	27.3	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Protactinium-234m	164	pCi/g	U	U	334	500	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Radium-223	2.55	pCi/g	U	U	19.3	27.6	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Radium-224	-57.6	pCi/g	U	U	75.2	105	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Radium-226	8.94	pCi/g	JU	U	16.6	23.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Radium-228	0.826	pCi/g	JU	U	13.6	21.1	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Radon-219	5.09	pCi/g	U	U	32	53	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Radon-220	-114	pCi/g	U	U	1800	3080	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Radon-222	-9440	pCi/g	U	U	4490	6180	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Ruthenium-103	-0.313	pCi/g	U	U	2.34	3.8	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Ruthenium-106	-7.83	pCi/g	U	U	19.7	33.1	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Selenium	0.0474	mg/L	U	U		0.0474	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Silver	0.0068	mg/L	B	U		0.00596	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Silvex	0.008	mg/L	U	UJ		0.008	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Tantalum-182	116	pCi/g	U	U	10.8	20.7	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Technetium-99	145	pCi/g		J	10	10.1	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thallium-207	-28.2	pCi/g	U	U	1030	1380	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thallium-207m	0.694	pCi/g	U	U	2.81	4.17	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thallium-208	-1.65	pCi/g	U	U	3.66	5.52	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thorium-227	-57.2	pCi/g	U	U	17.4	22.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thorium-228	51	pCi/g	U	U	926	1580	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thorium-228	0.0000644	pCi/g	U	U	0.105	0.231	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thorium-230	563	pCi/g	U	U	1480	2530	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thorium-230	0.0000645	pCi/g	U	U	0.105	0.232	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thorium-231	-15.1	pCi/g	U	U	68.1	92	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thorium-232	-773	pCi/g	U	U	3540	4610	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thorium-232	0.0215	pCi/g	U	U	0.0744	0.158	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Thorium-234	-76	pCi/g	U	U	198	256	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Toxaphene	0.008	mg/L	U	UJ		0.008	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Uranium-232	-0.197	pCi/g	U	U	0.394	1.06	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Uranium-233	46300	pCi/g	U	U	106000	183000	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Uranium-233	0.011	mg/kg	U	U		0.011	12/29/2010	FD	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-2	27-3-2-SD	SOLID	SZ	Uranium-233/234	6.78	pCi/g		=	1.67	0.279	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Uranium-234	-233	pCi/g	JU	U	13800	23500	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Uranium-235	-2.13	pCi/g	U	U	5.9	7.79	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Uranium-235	0.254	pCi/g	U	UJ	0.359	0.344	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Uranium-236	0.000114	pCi/g	U	UJ	0.322	0.838	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Uranium-238	-34300	pCi/g	U	U	43900	74200	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Uranium-238	1.03	pCi/g		=	0.711	0.755	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Ytterbium-169	-7.48	pCi/g	U	U	23.9	39	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Zinc	0.0712	mg/L	B	U		0.0152	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Zinc-65	-74.7	pCi/g	U	U	7.2	7.64	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SD	SOLID	SZ	Zirconium-95	0.617	pCi/g	U	U	4.8	8.1	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	1,4-Dichlorobenzene	0.0016	mg/L	JU	UJ		0.0016	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	2,4,5-Trichlorophenol	0.0022	mg/L	JU	UJ		0.0022	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	2,4,6-Trichlorophenol	0.0014	mg/L	JU	UJ		0.0014	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	2,4-Dinitrotoluene	0.0083	mg/L	JU	UJ		0.0083	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	2-Methylphenol	0.0049	mg/L	JU	UJ		0.0049	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	Hexachlorobenzene	0.0033	mg/L	JU	UJ		0.0033	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	Hexachlorobutadiene	0.016	mg/L	JU	UJ		0.016	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	Hexachloroethane	0.01	mg/L	JU	UJ		0.01	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	m+p Methylphenol	0.0012	mg/L	JU	UJ		0.0012	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	Nitrobenzene	0.004	mg/L	JU	UJ		0.004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	Pentachlorophenol	0.005	mg/L	JU	UJ		0.005	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	Pyridine	0.0056	mg/L	JU	UJ		0.0056	12/29/2010	FD	USEC Data
27-3-2	27-3-2-SDA	SOLID	SZ	Total Cresols	0.0012	mg/L	JU	UJ		0.0012	12/29/2010	FD	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	2,4-D	0.008	mg/L	U	UJ		0.008	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Actinium-227	-1030	pCi/g	U	U	8240	11900	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Actinium-228	1.68	pCi/g	U	U	2.77	4.35	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Alpha activity	2780	pCi/g		=	251	41	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Americium-241	2.45	pCi/g	U	U	6.98	11.4	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Americium-241	0.104	pCi/g	U	U	0.0833	0.112	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Americium-242	0.02	pCi/g	U	U	0.0399	0.0735	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Americium-243	0.0201	pCi/g	U	U	0.0401	0.0737	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Antimony-125	-0.634	pCi/g	U	U	1.42	2.31	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Arsenic	0.0886	mg/L	*B	J		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Barium	0.0148	mg/L		=		0.000822	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Barium-133	-9.99	pCi/g	U	U	1.78	1.13	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Berkelium-247	0.0563	pCi/g	U	U	0.0795	0.0762	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Beryllium	0.434	µg/g	U	U		0.434	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Beryllium-7	0.262	pCi/g	U	U	4.13	6.75	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Beta activity	177000	pCi/g		J	860	31.1	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Bismuth-211	-0.734	pCi/g	U	U	11.3	18.6	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Bismuth-212	-6.49	pCi/g	U	U	8.52	11.6	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Bismuth-214	-1	pCi/g	U	U	1.88	3.27	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Cadmium	0.000596	mg/L	U	U		0.000596	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Cadmium-109	-4.9	pCi/g	U	U	35	41.2	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Californium-249	0.0486	pCi/g	U	UJ	0.0486	0.0329	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Californium-251	0.0564	pCi/g	U	U	0.113	0.208	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Cerium-141	9.37	pCi/g	JU	UJ	1.51	2.31	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Cerium-144	-0.205	pCi/g	U	U	5.63	9.17	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Cesium-134	-11.3	pCi/g	U	U	0.841	0.709	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Cesium-137	-0.745	pCi/g	U	U	0.478	0.771	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Chromium	0.333	mg/L		=		0.00194	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Cobalt-57	0.493	pCi/g	U	U	0.773	1.27	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Cobalt-60	-0.317	pCi/g	U	U	0.403	0.658	12/29/2010	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-2	27-3-2-T	SOLID	SZ	Copper	0.203	mg/L		=		0.00208	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Curium-243/244	0.0000237	pCi/g	U	U	0.0474	0.11	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Curium-245/246	-0.00996	pCi/g	U	U	0.0346	0.0927	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Curium-247	-0.0146	pCi/g	U	U	0.0507	0.136	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Curium-248	0	pCi/g	U	U	0	0.0307	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.15	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Cyclohexanone	1	mg/L	U	UJ		1	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Francium-223	0.38	pCi/g	JU	U	17.9	30.6	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Iodine-129	-371	pCi/g	JU	U	650	1030	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Krypton-85	-364	pCi/g	U	U	117	187	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Lead	0.0698	mg/L	B	U		0.0087	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Lead-210	-82	pCi/g	JU	U	240	410	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Lead-211	-0.895	pCi/g	U	U	11.3	18.6	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Lead-212	-2.94	pCi/g	U	U	1.48	2.09	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Lead-214	0.84	pCi/g	U	U	3.33	4.74	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Manganese-54	-0.542	pCi/g	U	U	0.531	0.73	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Neptunium-237	2.96	pCi/g		=	0.375	0.0323	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Niobium-95	1.41	pCi/g	U	UJ	0.498	0.88	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	PCB-1016	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	PCB-1221	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	PCB-1232	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	PCB-1242	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	PCB-1248	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	PCB-1254	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	PCB-1260	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	PCB-1268	0.5	µg/g	U	UJ		0.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Pct-Uranium-235	8.11	wt %		J	0	0	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Plutonium-238	0.0906	pCi/g	U	U	0.0932	0.139	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Plutonium-239/240	0.711	pCi/g		=	0.195	0.0952	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Plutonium-242	0.0000129	pCi/g	U	U	0.0365	0.0951	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Plutonium-244	0.0129	pCi/g	U	U	0.0447	0.0951	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Polonium-210	-20400	pCi/g	U	U	39200	64300	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Polonium-211	31.9	pCi/g	U	U	75.3	130	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Polonium-211m	50.9	pCi/g	U	U	75.1	130	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Potassium-40	13.7	pCi/g	U	UJ	17	5.83	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Protactinium-231	-9.5	pCi/g	U	U	20.6	34	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Protactinium-233	3.84	pCi/g		=	1.38	1.94	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Protactinium-234	1.67	pCi/g	U	U	3.29	5.52	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Protactinium-234m	163	pCi/g		=	53.6	82.7	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Radium-223	2.4	pCi/g	U	U	3.96	5.65	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Radium-224	-17.2	pCi/g	U	U	15.3	21.1	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Radium-226	0.84	pCi/g	JU	U	3.33	4.74	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Radium-228	1.68	pCi/g	JU	U	2.77	4.35	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Radon-219	-3.27	pCi/g	U	U	6.53	10.7	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Radon-220	-182	pCi/g	U	U	364	615	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Radon-222	-1650	pCi/g	U	U	909	1260	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Ruthenium-103	-0.275	pCi/g	U	U	0.479	0.767	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Ruthenium-106	0.771	pCi/g	U	U	3.98	6.79	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Selenium	0.0474	mg/L	U	U		0.0474	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Silver	0.00596	mg/L	U	U		0.00596	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Silvex	0.008	mg/L	U	UJ		0.008	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Tantalum-182	23	pCi/g	U	U	2.18	4.16	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Technetium-99	272000	pCi/g		J	1870	25.7	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thallium-207	-54.4	pCi/g	U	U	209	278	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thallium-207m	1.37	pCi/g	U	UJ	0.786	0.91	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thallium-208	-0.0201	pCi/g	U	U	0.745	1.14	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thorium-227	-9.48	pCi/g	U	U	3.33	4.66	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thorium-228	-148	pCi/g	U	U	190	320	12/29/2010	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-2	27-3-2-T	SOLID	SZ	Thorium-228	0.0275	pCi/g	U	U	0.11	0.206	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thorium-230	122	pCi/g	U	U	425	687	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thorium-230	21.2	pCi/g		=	1.08	0.193	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thorium-231	54.3	pCi/g		=	4.33	25.2	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thorium-232	957	pCi/g	U	U	976	1250	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thorium-232	0.0411	pCi/g	U	UJ	0.0474	0.0371	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Thorium-234	53.7	pCi/g	U	U	1.76	67.5	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Toxaphene	0.008	mg/L	U	UJ		0.008	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Uranium-232	-0.199	pCi/g	U	U	0.891	2.15	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Uranium-233	9940	pCi/g	U	U	25400	43500	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Uranium-233	0.153	mg/kg	U	U		0.153	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Uranium-233/234	2510	pCi/g		=	47.2	2.39	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Uranium-234	1790	pCi/g	JU	U	3480	5980	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Uranium-235	68.2	pCi/g		=	2.15	1.54	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Uranium-235	93.3	pCi/g		J	10.1	0.742	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Uranium-236	5.16	pCi/g		J	2.25	0.666	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Uranium-238	3680	pCi/g	U	U	10800	18600	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Uranium-238	171	pCi/g		=	12.3	0.6	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Ytterbium-169	4.41	pCi/g	U	U	5.56	9.15	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Zinc	0.167	mg/L		U		0.0152	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Zinc-65	-15.2	pCi/g	U	U	1.46	1.55	12/29/2010	REG	USEC Data
27-3-2	27-3-2-T	SOLID	SZ	Zirconium-95	-0.668	pCi/g	U	U	0.973	1.6	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	1,4-Dichlorobenzene	0.0016	mg/L	JU	UJ		0.0016	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	2,4,5-Trichlorophenol	0.0023	mg/L	JU	UJ		0.0023	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	2,4,6-Trichlorophenol	0.0014	mg/L	JU	UJ		0.0014	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	2,4-Dinitrotoluene	0.0085	mg/L	JU	UJ		0.0085	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	2-Methylphenol	0.005	mg/L	JU	UJ		0.005	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	Hexachlorobenzene	0.0034	mg/L	JU	UJ		0.0034	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	Hexachlorobutadiene	0.017	mg/L	JU	UJ		0.017	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	Hexachloroethane	0.011	mg/L	JU	UJ		0.011	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	m+p Methylphenol	0.0013	mg/L	JU	UJ		0.0013	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	Nitrobenzene	0.0042	mg/L	JU	UJ		0.0042	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	Pentachlorophenol	0.0051	mg/L	JU	UJ		0.0051	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	Pyridine	0.0058	mg/L	JU	UJ		0.0058	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TA	SOLID	SZ	Total Cresols	0.0013	mg/L	JU	UJ		0.0013	12/29/2010	REG	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	2,4-D	0.008	mg/L	U	UJ		0.008	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Actinium-227	-1170	pCi/g	U	U	6780	9770	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Actinium-228	-0.558	pCi/g	U	U	2.27	3.48	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Alpha activity	2720	pCi/g		=	191	34.7	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Americium-241	-3.55	pCi/g	U	U	5.79	8.75	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Americium-241	0.0833	pCi/g		=	0.0555	0.0251	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Americium-242	-0.00797	pCi/g	U	U	0.016	0.0587	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Americium-243	-0.00801	pCi/g	U	U	0.016	0.059	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Antimony-125	0.863	pCi/g	U	U	1.17	1.95	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Arsenic	0.0928	mg/L	B	J		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Barium	0.0176	mg/L		=		0.000822	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Barium-133	-8.87	pCi/g	U	U	1.56	0.938	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.0609	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Beryllium	0.411	µg/g	U	U		0.411	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Beryllium-7	-0.469	pCi/g	U	U	3.35	5.46	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Beta activity	107000	pCi/g		J	607	25.6	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Bismuth-211	-1.69	pCi/g	U	U	9.35	15.4	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Bismuth-212	-2.72	pCi/g	U	U	7.08	9.76	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Bismuth-214	-1.27	pCi/g	U	U	1.54	2.67	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Cadmium	0.0016	mg/L	B	J		0.000596	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Cadmium-109	16.1	pCi/g	U	U	27.6	32.9	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Californium-249	0.0291	pCi/g	U	UJ	0.0336	0.0263	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.0611	12/29/2010	FD	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-2	27-3-2-TD	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Cerium-141	7.77	pCi/g	JU	UJ	1.25	1.92	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Cerium-144	-1.09	pCi/g	U	U	4.58	7.45	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Cesium-134	-7.99	pCi/g	U	U	0.642	0.598	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Cesium-137	-0.461	pCi/g	U	U	0.398	0.65	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Chromium	0.333	mg/L		=		0.00194	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Cobalt-57	0.61	pCi/g	U	U	0.625	1.03	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Cobalt-60	0.122	pCi/g	U	U	0.345	0.593	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Copper	0.232	mg/L		=		0.00208	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Curium-243/244	0.0316	pCi/g	U	UJ	0.0365	0.0285	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Curium-245/246	0.000016	pCi/g	U	U	0.0319	0.0741	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Curium-247	0.0391	pCi/g	U	UJ	0.0451	0.0353	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Curium-248	0.0101	pCi/g	U	U	0.0201	0.0272	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.12	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Cyclohexanone	1	mg/L	U	UJ		1	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Francium-223	-9.59	pCi/g	JU	U	14.1	23.8	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Iodine-129	-475	pCi/g	JU	U	576	818	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Krypton-85	-268	pCi/g	U	U	95.3	154	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Lead	0.085	mg/L	B	U		0.0087	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Lead-210	-129	pCi/g	JU	U	192	326	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Lead-211	-1.72	pCi/g	U	U	9.35	15.4	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Lead-212	-2.46	pCi/g	U	U	1.21	1.71	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Lead-214	0.327	pCi/g	U	U	2.75	3.92	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Manganese-54	-0.418	pCi/g	U	U	0.444	0.616	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Neptunium-237	1.3	pCi/g		=	0.212	0.0234	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Niobium-95	1.05	pCi/g	U	UJ	0.419	0.736	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	PCB-1016	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	PCB-1221	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	PCB-1232	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	PCB-1242	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	PCB-1248	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	PCB-1254	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	PCB-1260	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	PCB-1268	0.5	µg/g	U	UJ		0.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Pct-Uranium-235	7.15	wt %		J	0	0	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Plutonium-238	0.177	pCi/g		=	0.0811	0.0252	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Plutonium-239/240	0.41	pCi/g		=	0.124	0.0252	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Plutonium-242	0.0093	pCi/g	U	U	0.0186	0.0252	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Plutonium-244	0.0093	pCi/g	U	U	0.0186	0.0252	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Polonium-210	-11600	pCi/g	U	U	31400	51800	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Polonium-211	26.5	pCi/g	U	U	61.1	105	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Polonium-211m	33.3	pCi/g	U	U	61.1	106	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Potassium-40	-6.41	pCi/g	U	U	13.4	25.6	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Protactinium-231	-9.43	pCi/g	U	U	16.9	27.8	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Protactinium-233	1.36	pCi/g	U	U	1.04	1.68	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Protactinium-234	1.29	pCi/g	U	U	2.72	4.56	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Protactinium-234m	186	pCi/g		=	54.2	68.5	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Radium-223	0.0557	pCi/g	U	U	3.23	4.62	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Radium-224	-11.2	pCi/g	U	U	12.5	17.4	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Radium-226	0.327	pCi/g	JU	U	2.75	3.92	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Radium-228	-0.558	pCi/g	JU	U	2.27	3.48	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Radon-219	2.12	pCi/g	U	U	5.32	8.84	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Radon-220	35.5	pCi/g	U	U	298	511	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Radon-222	-1740	pCi/g	U	U	744	1020	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Ruthenium-103	0.175	pCi/g	U	U	0.397	0.653	12/29/2010	FD	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-2	27-3-2-TD	SOLID	SZ	Ruthenium-106	0.616	pCi/g	U	U	3.19	5.45	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Selenium	0.0474	mg/L	U	U		0.0474	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Silver	0.00596	mg/L	U	U		0.00596	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Silvex	0.008	mg/L	U	UJ		0.008	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Tantalum-182	20.2	pCi/g	U	U	1.84	3.51	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Technetium-99	167000	pCi/g		J	1170	17.8	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thallium-207	-53	pCi/g	U	U	173	228	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thallium-207m	1.56	pCi/g	U	UJ	0.735	0.8	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thallium-208	-0.118	pCi/g	U	U	0.606	0.92	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thorium-227	-8.72	pCi/g	U	U	2.8	3.76	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thorium-228	70.9	pCi/g	U	U	154	264	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thorium-228	0.126	pCi/g		UJ	0.0719	0.0661	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thorium-230	-33.5	pCi/g	U	U	352	532	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thorium-230	10.7	pCi/g		=	0.625	0.135	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thorium-231	52.1	pCi/g		=	4.23	19.4	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thorium-232	1290	pCi/g	JU	U	922	928	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thorium-232	-0.00895	pCi/g	U	U	0.0401	0.0966	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Thorium-234	72.3	pCi/g		=	2.32	52	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Toxaphene	0.008	mg/L	U	UJ		0.008	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Uranium-232	-0.162	pCi/g	U	U	0.726	1.75	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Uranium-233	15300	pCi/g	U	U	20700	34900	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Uranium-233	0.154	mg/kg	U	U		0.154	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Uranium-233/234	2400	pCi/g		=	40.8	1.28	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Uranium-234	2510	pCi/g	JU	U	2730	4710	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Uranium-235	60.3	pCi/g		=	1.88	1.25	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Uranium-235	83.9	pCi/g		J	8.5	1.58	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Uranium-236	3.66	pCi/g		J	1.68	0.522	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Uranium-238	-1730	pCi/g	U	U	8520	14600	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Uranium-238	175	pCi/g		=	11	0.47	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Ytterbium-169	1.43	pCi/g	U	U	4.58	7.49	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Zinc	0.0914	mg/L	B	U		0.0152	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Zinc-65	-11.8	pCi/g	U	U	1.18	1.29	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TD	SOLID	SZ	Zirconium-95	-1.28	pCi/g	U	U	0.838	1.34	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	1,4-Dichlorobenzene	0.0013	mg/L	JU	UJ		0.0013	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	2,4,5-Trichlorophenol	0.0018	mg/L	JU	UJ		0.0018	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	2,4,6-Trichlorophenol	0.0011	mg/L	JU	UJ		0.0011	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	2,4-Dinitrotoluene	0.0067	mg/L	JU	UJ		0.0067	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	2-Methylphenol	0.0039	mg/L	JU	UJ		0.0039	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	Hexachlorobenzene	0.0027	mg/L	JU	UJ		0.0027	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	Hexachlorobutadiene	0.013	mg/L	JU	UJ		0.013	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	Hexachloroethane	0.0084	mg/L	JU	UJ		0.0084	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	m+p Methylphenol	0.001	mg/L	JU	UJ		0.001	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	Nitrobenzene	0.0033	mg/L	JU	UJ		0.0033	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	Pentachlorophenol	0.004	mg/L	JU	UJ		0.004	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	Pyridine	0.0045	mg/L	JU	UJ		0.0045	12/29/2010	FD	USEC Data
27-3-2	27-3-2-TDA	SOLID	SZ	Total Cresols	0.001	mg/L	JU	UJ		0.001	12/29/2010	FD	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	JU	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	2,4-D	0.01	mg/L	U	UJ		0.01	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Actinium-227	-4050	pCi/g	U	U	6380	11100	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Actinium-228	3.91	pCi/g	U	U	9.65	19.7	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Alpha activity	0.838	pCi/g	U	U	11.9	22.9	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Americium-241	0.127	pCi/g	U	U	0.801	1.41	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Americium-241	0.0246	pCi/g	U	U	0.0302	0.0453	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Americium-242	0.0404	pCi/g	U	U	0.0988	0.187	2/17/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-4	27-3-4-S	SOLID	SZ	Americium-243	0.0406	pCi/g	U	U	0.0992	0.188	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Antimony-125	2.91	pCi/g	U	U	4.22	8.27	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Arsenic	0.0318	mg/L	U	U		0.0318	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Barium	0.034	mg/L		=		0.000566	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Barium-133	0.923	pCi/g	U	U	1.98	3.52	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Berkelium-247	-0.0567	pCi/g	U	U	0.197	0.528	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Beryllium	0.388	µg/g	U	U		0.388	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Beryllium-7	14.1	pCi/g	U	U	12.6	25.8	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Beta activity	109	pCi/g		=	19.1	19.7	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Bismuth-211	34	pCi/g	U	U	33.2	62.9	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Bismuth-212	15.1	pCi/g	U	U	33.1	64.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Bismuth-214	-7.56	pCi/g	U	U	5.49	7.53	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Cadmium	0.000644	mg/L	U	U		0.000644	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Cadmium-109	0.755	pCi/g	U	U	8.97	15.3	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Californium-249	0.0246	pCi/g	U	U	0.0491	0.0665	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Californium-251	-0.0569	pCi/g	U	U	0.197	0.529	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Cerium-141	0.553	pCi/g	U	U	1.11	2.04	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Cerium-144	1.59	pCi/g	U	U	4.24	7.82	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Cesium-134	0.651	pCi/g	U	U	1.75	3.4	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Cesium-137	1.48	pCi/g	U	U	2.11	4.31	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Chromium	0.0666	mg/L		=		0.00171	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Cobalt-57	-0.607	pCi/g	U	U	0.563	0.843	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Cobalt-60	-0.116	pCi/g	U	U	2.39	4.81	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Copper	0.00105	mg/L	U	U		0.00105	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Curium-243/244	-0.021	pCi/g	U	U	0.0243	0.0754	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Curium-245/246	-0.0403	pCi/g	U	U	0.0807	0.217	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Curium-247	-0.0433	pCi/g	U	U	0.0458	0.122	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Curium-248	0.0201	pCi/g	U	UJ	0.0232	0.0181	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Curium-250	0.571	pCi/g	U	U	1.98	0.825	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Cyclohexanone	1	mg/L	JU	UJ		1	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Endrin	0.0004	mg/L	U	UJ		0.0004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Francium-223	0.00927	pCi/g	JU	U	0.841	1.48	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Heptachlor	0.0004	mg/L	U	UJ		0.0004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Hexachlorobutadiene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Iodine-129	0.0623	pCi/g	JU	U	4.8	8.49	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Krypton-85	-851	pCi/g	U	U	544	708	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Lead	0.0142	mg/L	B	U		0.014	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Lead-210	3.58	pCi/g	JU	U	7.12	13	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Lead-211	34.3	pCi/g	U	U	33.2	63	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Lead-212	0.335	pCi/g	U	U	2.59	3.61	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Lead-214	1.22	pCi/g	U	U	5.02	8.89	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Lindane	0.0004	mg/L	U	UJ		0.0004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	m,p-cresol	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Manganese-54	-0.305	pCi/g	U	U	2.55	4.55	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Neptunium-237	-0.00914	pCi/g	U	U	0.041	0.0987	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Niobium-95	1.09	pCi/g	U	U	2.06	4.16	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	PCB-1016	0.5	µg/g	U	UJ		0.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	PCB-1221	0.5	µg/g	U	UJ		0.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	PCB-1232	0.5	µg/g	U	UJ		0.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	PCB-1242	0.5	µg/g	U	UJ		0.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	PCB-1248	0.5	µg/g	U	UJ		0.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	PCB-1254	0.5	µg/g	U	UJ		0.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	PCB-1260	0.5	µg/g	U	UJ		0.5	2/17/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-4	27-3-4-S	SOLID	SZ	PCB-1268	0.5	µg/g	U	UJ		0.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Pct-Uranium-235	17.3	wt %	U	J	0	0	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Pentachlorophenol	0.4	mg/L	U	UJ		0.4	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Plutonium-238	0.0183	pCi/g	U	U	0.0259	0.0248	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Plutonium-239/240	0.0183	pCi/g	U	U	0.0366	0.0673	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Plutonium-242	-0.137	pCi/g	U	U	0.145	0.387	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Plutonium-244	-0.0275	pCi/g	U	U	0.0549	0.202	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Polonium-210	-64600	pCi/g	U	U	279000	408000	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Polonium-211	21.3	pCi/g	U	U	291	546	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Polonium-211m	-29.8	pCi/g	U	U	296	541	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Potassium-40	-43.6	pCi/g	U	U	58.8	105	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Protactinium-231	12.7	pCi/g	U	U	41.8	74.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Protactinium-233	0.995	pCi/g	U	U	2.58	4.6	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Protactinium-234	0.438	pCi/g	U	U	17.6	34.6	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Protactinium-234m	153	pCi/g	U	U	335	687	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Radium-223	-2.02	pCi/g	U	U	5.65	9.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Radium-224	-9.96	pCi/g	U	U	21.6	36.2	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Radium-226	1.22	pCi/g	JU	U	5.02	8.89	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Radium-228	3.91	pCi/g	JU	U	9.65	19.7	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Radon-219	-11.9	pCi/g	U	U	18.1	28.7	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Radon-220	138	pCi/g	U	U	1460	2720	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Radon-222	-233	pCi/g	U	U	2910	4960	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Ruthenium-103	0.252	pCi/g	U	U	1.46	2.8	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Ruthenium-106	0.497	pCi/g	U	U	18.4	34	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Selenium	0.0448	mg/L	U	U		0.0448	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Silver	0.00506	mg/L	U	U		0.00506	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Silvex	0.01	mg/L	U	UJ		0.01	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Tantalum-182	7.36	pCi/g	U	U	9.58	20.2	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Technetium-99	77.4	pCi/g		=	8.64	10.8	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thallium-207	-560	pCi/g	U	U	958	1680	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thallium-207m	0.728	pCi/g	U	U	2.98	5.87	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thallium-208	-1.62	pCi/g	U	U	2.73	3.97	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thorium-227	-6.92	pCi/g	U	U	4.96	6.92	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thorium-228	-60.3	pCi/g	U	U	273	477	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thorium-228	0.165	pCi/g	J	UJ	0.0985	0.0936	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thorium-230	0.242	pCi/g		UJ	0.117	0.0937	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thorium-230	38.7	pCi/g	U	U	75.2	135	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thorium-231	1.96	pCi/g	U	U	4.6	8.09	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thorium-232	18.5	pCi/g	U	U	166	241	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thorium-232	0.0127	pCi/g	U	UJ	0.0254	0.0344	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Thorium-234	0.224	pCi/g	U	U	8.97	12.9	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Toxaphene	0.04	mg/L	U	UJ		0.04	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Uranium-232	0	pCi/g	U	U	0	0.056	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Uranium-233	-112	pCi/g	U	U	370	637	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Uranium-233	0.0122	mg/kg	U	U		0.0122	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Uranium-233/234	0.447	pCi/g		=	0.222	0.183	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Uranium-234	-73.7	pCi/g	JU	U	245	418	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Uranium-235	0.138	pCi/g	U	U	1.46	2.17	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Uranium-235	0.153	pCi/g		J	0.137	0.083	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Uranium-236	0.055	pCi/g	U	UJ	0.0778	0.0745	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Uranium-238	0.124	pCi/g		J	0.111	0.0672	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Uranium-238	-375	pCi/g	U	U	497	820	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Ytterbium-169	-1.83	pCi/g	U	U	4.66	7.39	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Zinc	0.0086	mg/L	B	U		0.00326	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Zinc-65	-0.557	pCi/g	U	U	6.13	11.6	2/17/2011	REG	USEC Data
27-3-4	27-3-4-S	SOLID	SZ	Zirconium-95	2.12	pCi/g	U	U	5.24	10.1	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	1,1-Dichloroethene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	1,2-Dichloroethane	0.02	mg/L	JU	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-4	27-3-4-T	SOLID	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	2,4-D	0.01	mg/L	U	UJ		0.01	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	2-Butanone	0.5	mg/L	U	UJ		0.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Actinium-227	1180	pCi/g	U	U	4160	6750	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Actinium-228	1.5	pCi/g	U	U	4.28	8.58	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Alpha activity	475	pCi/g		=	256	11.9	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Americium-241	-0.275	pCi/g	U	U	1.53	2.53	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Americium-241	-0.00599	pCi/g	U	U	0.0269	0.0647	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Americium-242	-0.271	pCi/g	U	U	0.172	0.432	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Americium-243	-0.272	pCi/g	U	U	0.172	0.433	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Antimony-125	-0.176	pCi/g	U	U	1.62	3	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Arsenic	0.313	mg/L	B	J		0.159	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Barium	0.015	mg/L	B	J		0.00283	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Barium-133	0.902	pCi/g	U	U	0.796	1.41	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Benzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Berkelium-247	-0.117	pCi/g	U	U	0.166	0.545	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Beryllium	0.392	µg/g	U	U		0.392	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Beryllium-7	-2.89	pCi/g	U	U	5.46	9.49	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Beta activity	104000	pCi/g		=	315	8.48	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Bismuth-211	-0.0437	pCi/g	U	U	14	24.2	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Bismuth-212	-3.74	pCi/g	U	U	12.3	21.7	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Bismuth-214	-1.8	pCi/g	U	U	2.45	3.78	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Cadmium	0.00322	mg/L	U	U		0.00322	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Cadmium-109	-7.16	pCi/g	U	U	13.1	19.2	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.0687	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Californium-251	-0.118	pCi/g	U	U	0.166	0.547	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Carbon disulfide	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Carbon tetrachloride	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Cerium-141	1.35	pCi/g	JU	UJ	0.761	1.3	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Cerium-144	1.43	pCi/g	U	U	3	5.39	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Cesium-134	0.0481	pCi/g	U	U	0.819	1.51	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Cesium-137	0.584	pCi/g	U	U	0.93	1.85	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Chlordane	0.004	mg/L	U	UJ		0.004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Chlorobenzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Chloroform	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Chromium	0.025	mg/L	B	J		0.00854	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Cobalt-57	-0.213	pCi/g	U	U	0.439	0.69	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Cobalt-60	0.334	pCi/g	U	U	1.26	2.58	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Copper	0.017	mg/L	B	J		0.00525	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Curium-243/244	-0.0205	pCi/g	U	U	0.0237	0.0736	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Curium-245/246	-0.0624	pCi/g	U	U	0.11	0.273	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Curium-247	0.0339	pCi/g	U	U	0.0414	0.0623	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Curium-248	0.0196	pCi/g	U	UJ	0.0226	0.0177	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Curium-250	-0.588	pCi/g	U	U	1.18	0.852	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Cyclohexanone	1	mg/L	JU	UJ		1	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Endrin	0.0006	mg/L		NJ		0.0004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Francium-223	-1.06	pCi/g	JU	U	1.88	3.09	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Heptachlor	0.0007	mg/L		NJ		0.0004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Heptachlor epoxide	0.0004	mg/L	U	UJ		0.0004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Hexachlorobutadiene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Iodine-129	5.18	pCi/g	JU	U	10.4	17.6	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Krypton-85	-50.6	pCi/g	U	U	200	290	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Lead	0.0699	mg/L	U	U		0.0699	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Lead-210	4.49	pCi/g	JU	U	15.9	26.6	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Lead-211	-0.0431	pCi/g	U	U	14	24.2	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Lead-212	-0.824	pCi/g	U	U	1.09	1.35	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Lead-214	0.628	pCi/g	U	U	1.99	3.54	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Lindane	0.0005	mg/L		NJ		0.0004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	m,p-cresol	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Manganese-54	0.134	pCi/g	U	U	0.88	1.68	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	2/17/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-4	27-3-4-T	SOLID	SZ	Methoxychlor	0.0004	mg/L	U	UJ		0.0004	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Neptunium-237	1.03	pCi/g		=	0.188	0.137	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Niobium-95	0.146	pCi/g	U	U	0.847	1.62	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	PCB-1016	0.51	µg/g	U	UJ		0.51	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	PCB-1221	0.51	µg/g	U	UJ		0.51	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	PCB-1232	0.51	µg/g	U	UJ		0.51	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	PCB-1242	0.51	µg/g	U	UJ		0.51	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	PCB-1248	0.51	µg/g	U	UJ		0.51	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	PCB-1254	0.51	µg/g	U	UJ		0.51	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	PCB-1260	0.51	µg/g	U	UJ		0.51	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	PCB-1268	0.51	µg/g	U	UJ		0.51	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Pct-Uranium-235	33.6	wt %		J	0	0	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Pentachlorophenol	0.4	mg/L	U	UJ		0.4	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Plutonium-238	0.0872	pCi/g		=	0.0581	0.0674	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Plutonium-239/240	0.189	pCi/g		=	0.0769	0.0534	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Plutonium-242	0.0334	pCi/g	U	U	0.176	0.358	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Plutonium-244	0.0666	pCi/g	U	U	0.0942	0.0902	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Polonium-210	-96400	pCi/g	U	U	112000	140000	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Polonium-211	50	pCi/g	U	U	116	227	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Polonium-211m	34.8	pCi/g	U	U	121	232	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Potassium-40	-16.1	pCi/g	U	U	24.8	44.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Protactinium-231	-6.53	pCi/g	U	U	18.3	30.4	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Protactinium-233	1.03	pCi/g	U	U	1.3	2.21	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Protactinium-234	3.12	pCi/g	U	U	7.27	15.2	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Protactinium-234m	-5.19	pCi/g	U	U	114	223	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Radium-223	-0.536	pCi/g	U	U	2.86	4.9	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Radium-224	-6.33	pCi/g	U	U	8.45	13.6	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Radium-226	0.628	pCi/g	JU	U	1.99	3.54	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Radium-228	1.5	pCi/g	JU	U	4.28	8.58	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Radon-219	1.43	pCi/g	U	U	8.27	14.5	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Radon-220	-461	pCi/g	U	U	583	960	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Radon-222	1710	pCi/g	U	UJ	1840	1340	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Ruthenium-103	-0.262	pCi/g	U	U	0.592	1.04	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Ruthenium-106	-2.2	pCi/g	U	U	6.81	12.1	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Selenium	0.224	mg/L	U	U		0.224	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Silver	0.0253	mg/L	U	U		0.0253	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Silvex	0.01	mg/L	U	UJ		0.01	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Tantalum-182	3.3	pCi/g	U	U	3.72	8.04	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Technetium-99	159000	pCi/g		J	1110	25.8	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Tetrachloroethene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thallium-207	252	pCi/g	U	U	378	802	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thallium-207m	0.185	pCi/g	U	U	1.09	2.16	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thallium-208	-0.841	pCi/g	U	U	1.21	1.77	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thorium-227	-1.74	pCi/g	U	U	2.15	3.44	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thorium-228	-126	pCi/g	U	U	124	197	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thorium-228	0.0964	pCi/g	J	UJ	0.0455	0.0145	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thorium-230	-91.7	pCi/g	U	U	138	223	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thorium-230	17.8	pCi/g		=	0.619	0.0577	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thorium-231	16.5	pCi/g		=	2.9	11.3	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thorium-232	0.00535	pCi/g	U	U	0.0107	0.0145	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thorium-232	-4.95	pCi/g	U	U	211	342	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Thorium-234	60.3	pCi/g	U	UJ	5.49	18.4	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Toxaphene	0.04	mg/L	U	UJ		0.04	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Trichloroethene	0.02	mg/L	U	UJ		0.02	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Uranium-232	-0.0833	pCi/g	U	U	0.118	0.387	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Uranium-233	-118	pCi/g	U	U	822	1370	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Uranium-233	0.0112	mg/kg	*NU	U		0.0112	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Uranium-233/234	317	pCi/g		=	7.94	0.649	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Uranium-234	618	pCi/g	JU	U	510	860	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Uranium-235	15.3	pCi/g		=	1.3	0.959	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Uranium-235	15.3	pCi/g		J	1.94	0.45	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Uranium-236	1.65	pCi/g		J	0.601	0.149	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Uranium-238	5.69	pCi/g		=	1.07	0.364	2/17/2011	REG	USEC Data

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
27-3-4	27-3-4-T	SOLID	SZ	Uranium-238	267	pCi/g	U	U	1060	1780	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Vinyl chloride	0.01	mg/L	U	UJ		0.01	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Ytterbium-169	0.519	pCi/g	U	U	3.21	5.18	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Zinc	0.021	mg/L	B	U		0.0163	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Zinc-65	0.6	pCi/g	U	U	2.58	5.09	2/17/2011	REG	USEC Data
27-3-4	27-3-4-T	SOLID	SZ	Zirconium-95	0.786	pCi/g	U	U	1.68	3.4	2/17/2011	REG	USEC Data
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Americium-241	0.01131	pCi/g	U	U	0.01196	0.01664	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Americium-242m	-0.001816	pCi/g	U	U	0.006298	0.01689	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Americium-243	-0.001823	pCi/g	U	U	0.006322	0.01695	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Arsenic	1.26	mg/kg	U			1.26	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Barium	0.137	mg/kg	U			0.137	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Berkelium-247	0.005125	pCi/g	U	U	0.01025	0.01389	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Beryllium	0.182	mg/kg	U			0.182	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Cadmium	0.234	mg/kg	U			0.234	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.005998	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Californium-251	0.00514	pCi/g	U	U	0.01028	0.01393	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Cesium-137	-0.1363	pCi/g	U	U	0.2785	0.4605	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Chromium	4.01	mg/kg	U			4.01	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Cobalt-60	0.02139	pCi/g	U	U	0.2268	0.3951	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.006975	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Curium-245/246	-0.001818	pCi/g	U	U	0.003635	0.01339	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.008626	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Curium-248	0.004913	pCi/g	U	U	0.006948	0.006657	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.02739	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Lead	1.9	mg/kg	B			0.928	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Mercury	0.00576	mg/kg	U			0.00576	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Neptunium-237	0.003994	pCi/g	U	U	0.005648	0.005411	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Pct-Uranium-235	15.68	wt %		J	0	0	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Plutonium-238	0.003982	pCi/g	U	U	0.005631	0.005396	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Plutonium-239/240	1.989E-06	pCi/g	U	U	0.005629	0.01465	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Plutonium-242	0.005968	pCi/g	U	UJ	0.006891	0.005391	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Plutonium-244	0.003978	pCi/g	U	U	0.005626	0.005391	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Protactinium-231	1.476	pCi/g	U	U	12.13	20.27	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Protactinium-234m	1.055	pCi/g	U	U	38.32	56.94	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Selenium	1.39	mg/kg	U			1.39	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Silver	4.19	mg/kg	U			4.19	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Technetium-99	798	pCi/g		=	15.7	5.42	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Thorium-228	-0.004053	pCi/g	U	U	0.005731	0.01882	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Thorium-230	0.00203	pCi/g	U	U	0.00406	0.005502	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Thorium-231	-2.437	pCi/g	U	U	6.626	11.03	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Thorium-232	0.004053	pCi/g	U	U	0.005732	0.005492	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Thorium-234	4.031	pCi/g	U	U	26.58	40.64	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Total Uranium	3.103	µg/g		J	0	0.04934	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Uranium-232	0.007116	pCi/g	U	UJ	0.007116	0.004821	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Uranium-233/234	24.12	pCi/g		=	0.4508	0.02966	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Uranium-235	1.051	pCi/g		J	0.1045	0.007034	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Uranium-235/234	126	%		J	0	0	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Uranium-236	0.1352	pCi/g		J	0.0355	0.006316	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-3	SOLID	SZ	Uranium-238	0.887	pCi/g		=	0.08373	0.01545	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Americium-241	0.2433	pCi/sample	U	UJ	0.2809	0.2198	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Americium-242m	0.1312	pCi/sample	U	U	0.1855	0.1777	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Americium-243	0.1317	pCi/sample	U	U	0.1862	0.1784	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Berkelium-247	0	pCi/sample	U	U	0	0.5006	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Californium-249	0	pCi/sample	U	U	0	0.2162	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Californium-251	0	pCi/sample	U	U	0	0.502	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Cesium-137	-10.16	pCi/sample	U	U	19.24	31.78	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Cobalt-60	11.52	pCi/sample	U	U	16.48	29.37	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Curium-243/244	-0.09213	pCi/sample	U	U	0.3196	0.8569	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Curium-245/246	-0.06551	pCi/sample	U	U	0.131	0.4825	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Curium-247	0.3425	pCi/sample	U	UJ	0.3954	0.3094	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Curium-248	0.2644	pCi/sample	U	U	0.3939	0.6482	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Curium-250	1.854	pCi/sample	U	UJ	3.708	0.9873	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Neptunium-237	13.2	pCi/sample		=	1.911	0.5047	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Pct-Uranium-235	19.33	wt %		J	0	0	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Plutonium-238	0.09911	pCi/sample	U	U	0.3429	0.7285	16-Sep-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Plutonium-239/240	0.198	pCi/sample	U	U	0.28	0.2683	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Plutonium-242	0.09891	pCi/sample	U	U	0.1978	0.268	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Plutonium-244	0.09891	pCi/sample	U	U	0.1978	0.268	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Protactinium-231	-513.9	pCi/sample	U	U	837.9	1375	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Protactinium-234m	-3400	pCi/sample	U	U	2642	3726	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Technetium-99	645000	pCi/sample		=	4510	141	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Thorium-228	-0.1427	pCi/sample	U	U	0.2017	0.6626	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Thorium-230	1.715	pCi/sample		=	0.8084	0.8579	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Thorium-231	17.25	pCi/sample	U	U	469.6	786.1	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Thorium-232	0.1427	pCi/sample	U	U	0.2018	0.1933	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Thorium-234	-1647	pCi/sample	U	U	1856	2791	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Total Uranium	423.8	µg/sample		J	0	0.7381	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Uranium-232	0	pCi/sample	U	U	0	0.1715	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Uranium-233/234	3624	pCi/sample		=	33.31	0.7104	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Uranium-235	177	pCi/sample		J	8.176	0.2559	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Uranium-235/234	141	%		J	0	0	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Uranium-236	17.97	pCi/sample		J	2.469	0.2297	16-Sep-13	REG	
X326-25-1-2-2	B26CP2510202-4	WIPE	SW	Uranium-238	116	pCi/sample		=	5.717	0.207	16-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Americium-241	0.008016	pCi/g	U	U	0.01134	0.01086	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Americium-242m	-0.00294	pCi/g	U	U	0.0102	0.02735	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Americium-243	-0.002952	pCi/g	U	U	0.01024	0.02745	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Arsenic	0.823	mg/kg	U			0.823	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Barium	0.0891	mg/kg	U			0.0891	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Berkelium-247	0.0083	pCi/g	U	U	0.0166	0.02249	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Beryllium	0.119	mg/kg	U			0.119	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Cadmium	0.153	mg/kg	U			0.153	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Californium-249	-0.003581	pCi/g	U	U	0.007162	0.02637	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Californium-251	0.008323	pCi/g	U	U	0.01665	0.02256	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Cesium-137	-0.1373	pCi/g	U	U	0.1578	0.2579	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Chromium	80.8	mg/kg				2.61	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Cobalt-60	-0.08461	pCi/g	U	U	0.1286	0.2162	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Curium-243/244	0.009129	pCi/g	U	U	0.01824	0.03357	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Curium-245/246	-0.002943	pCi/g	U	U	0.005887	0.02168	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.01529	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Curium-248	0.008707	pCi/g	U	U	0.01231	0.0118	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.04436	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Lead	0.978	mg/kg	B			0.605	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Mercury	0.0061	mg/kg				0.00376	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Neptunium-237	0.0515	pCi/g		UJ	0.02641	0.02229	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Pct-Uranium-235	30.14	wt %		J	0	0	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Plutonium-238	9.122E-06	pCi/g	U	U	0.02581	0.06718	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Plutonium-239/240	-0.009121	pCi/g	U	U	0.01824	0.06718	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Plutonium-242	-0.01822	pCi/g	U	U	0.02577	0.08467	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Plutonium-244	0.009121	pCi/g	U	U	0.01824	0.02472	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Protactinium-231	4.754	pCi/g	U	U	6.827	11.39	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Protactinium-234m	-15.31	pCi/g	U	U	22.9	31.32	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Selenium	0.906	mg/kg	U			0.906	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Silver	2.73	mg/kg	U			2.73	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Technetium-99	353	pCi/g		=	8.21	3.88	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Thorium-228	0.006692	pCi/g	U	U	0.01337	0.0246	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Thorium-230	1.319	pCi/g		=	0.1336	0.03107	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Thorium-231	1.293	pCi/g	U	U	3.805	6.376	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Thorium-232	-0.003338	pCi/g	U	U	0.006676	0.02458	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Thorium-234	-6.315	pCi/g	U	U	15.44	22.58	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Total Uranium	0.3512	µg/g		J	0	0.0303	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Uranium-232	3.055E-06	pCi/g	U	U	0.008643	0.02249	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Uranium-233/234	4.691	pCi/g		=	0.243	0.02312	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Uranium-235	0.2287	pCi/g		J	0.05954	0.0105	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Uranium-235/234	141	%		J	0	0	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Uranium-236	0.02784	pCi/g		UJ	0.01969	0.009431	11-Sep-13	REG	
X326-25-1-2-2	B26CV2510202-5	SOLID	SZ	Uranium-238	0.0842	pCi/g		UJ	0.03024	0.008498	11-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Americium-241	0.1037	pCi/g		UJ	0.04731	0.04648	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Americium-242m	-0.003273	pCi/g	U	U	0.01135	0.03044	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Americium-243	-0.003285	pCi/g	U	U	0.0114	0.03056	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Arsenic	0.00219	mg/L	U			0.00219	12-Sep-13	REG	

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Arsenic	0.932	mg/kg	U			0.932	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Barium	0.000237	mg/L	U			0.000237	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Barium	0.101	mg/kg	U			0.101	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02504	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Beryllium	0.135	mg/kg	U			0.135	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Cadmium	0.000406	mg/L	JU			0.000406	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Cadmium	0.173	mg/kg	U			0.173	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Californium-249	0.00399	pCi/g	U	U	0.007979	0.01081	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.02511	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Cesium-137	-0.2532	pCi/g	U	U	0.9252	1.612	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Chromium	0.0407	mg/L	B			0.00695	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Chromium	106	mg/kg				2.96	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Cobalt-60	0.207	pCi/g	U	U	0.7105	1.453	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Curium-243/244	-0.004907	pCi/g	U	U	0.01702	0.04564	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Curium-245/246	-0.00327	pCi/g	U	U	0.01466	0.03529	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Curium-247	0.02432	pCi/g	U	UJ	0.02432	0.01648	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Curium-248	0.01877	pCi/g	U	UJ	0.01877	0.01272	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Curium-250	0.09265	pCi/g	U	UJ	0.1853	0.04938	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Lead	0.0148	mg/L	B			0.00161	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Lead	2	mg/kg	B			0.685	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Mercury	0.004	mg/L	U			0.004	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Mercury	0.00426	mg/kg	U			0.00426	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Neptunium-237	0.01155	pCi/g	U	U	0.01721	0.02833	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Pct-Uranium-235	25.03	wt %		J	0	0	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Plutonium-238	0.01152	pCi/g	U	UJ	0.0133	0.0104	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Plutonium-239/240	-0.003831	pCi/g	U	U	0.01329	0.03564	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Plutonium-242	0.01534	pCi/g	U	UJ	0.01534	0.01039	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.01039	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Protactinium-231	7.564	pCi/g	U	U	37.08	65.58	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Protactinium-234m	-27.18	pCi/g	U	U	97.69	186.7	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Selenium	0.00241	mg/L	U			0.00241	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Selenium	1.03	mg/kg	U			1.03	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Silver	0.00727	mg/L	U			0.00727	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Silver	3.09	mg/kg	U			3.09	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Technetium-99	229	pCi/g		=	7.82	5.26	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Thorium-228	-0.00716	pCi/g	U	U	0.01433	0.03857	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Thorium-230	1.019	pCi/g		=	0.121	0.009725	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Thorium-231	2.121	pCi/g	U	U	21.39	37.16	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Thorium-232	0.003586	pCi/g	U	U	0.0124	0.02636	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Thorium-234	13.14	pCi/g	U	U	76.72	136.8	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Total Uranium	4.848	µg/g		J	0	0.03301	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Uranium-232	0.003501	pCi/g	U	U	0.01562	0.03243	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Uranium-233/234	46.98	pCi/g		=	0.8022	0.03177	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Uranium-235	2.622	pCi/g		J	0.2105	0.01144	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Uranium-235/234	161	%		J	0	0	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Uranium-236	0.4626	pCi/g		J	0.08376	0.01027	12-Sep-13	REG	
X326-25-1-2-2	B26UP2510202-7	SOLID	SZ	Uranium-238	1.24	pCi/g		=	0.123	0.009258	12-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Americium-241	0.008501	pCi/g	U	UJ	0.009816	0.007679	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Americium-242m	-0.002319	pCi/g	U	U	0.004639	0.01708	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Americium-243	-0.002328	pCi/g	U	U	0.004657	0.01715	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Arsenic	1.69	mg/kg	U			1.69	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Barium	0.182	mg/kg	U			0.182	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.01772	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Beryllium	0.243	mg/kg	U			0.243	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Cadmium	0.313	mg/kg	U			0.313	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.007655	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.01777	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Cesium-137	-0.07371	pCi/g	U	U	0.3196	0.5313	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Chromium	40.1	mg/kg	B			5.35	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Cobalt-60	0.107	pCi/g	U	U	0.2747	0.4803	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Curium-243/244	0.006451	pCi/g	U	U	0.009123	0.008741	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Curium-245/246	0.00000232	pCi/g	U	U	0.006564	0.01708	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Curium-247	0.003989	pCi/g	U	U	0.007977	0.01081	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Curium-248	0.01231	pCi/g	U	UJ	0.01231	0.008342	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.09491	09-Sep-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Lead	2.62	mg/kg	B			1.24	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Mercury	0.0077	mg/kg	U			0.0077	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Neptunium-237	0.002776	pCi/g	U	U	0.005552	0.007523	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Pct-Uranium-235	53.51	wt %		J	0	0	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Plutonium-238	0.005536	pCi/g	U	U	0.007829	0.007502	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Plutonium-239/240	2.766E-06	pCi/g	U	U	0.007826	0.02037	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Plutonium-242	0.002765	pCi/g	U	U	0.005531	0.007494	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Plutonium-244	-0.002763	pCi/g	U	U	0.005525	0.02035	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Protactinium-231	7.742	pCi/g	U	U	13.97	23.33	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Protactinium-234m	83.36	pCi/g		UJ	29.65	53.91	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Selenium	1.86	mg/kg	U			1.86	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Silver	5.6	mg/kg	U			5.6	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Technetium-99	14.8	pCi/g		=	4.54	6.9	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Thorium-228	-0.01247	pCi/g	U	U	0.01498	0.03748	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Thorium-230	0.29	pCi/g		=	0.05386	0.006776	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Thorium-231	16.13	pCi/g		UJ	3.924	13.19	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.006764	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Thorium-234	27	pCi/g	U	U	31.76	47.26	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Total Uranium	10.51	µg/g		J	0	0.02819	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Uranium-232	0.004808	pCi/g	U	U	0.0068	0.006515	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Uranium-233/234	269.5	pCi/g		=	1.775	0.02713	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Uranium-235	12.15	pCi/g		J	0.4185	0.009771	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Uranium-235/234	130	%		J	0	0	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Uranium-236	0.9777	pCi/g		J	0.1125	0.008773	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-3	SOLID	SZ	Uranium-238	1.73	pCi/g		=	0.1203	0.007905	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Americium-241	0.2261	pCi/sample	U	U	0.3369	0.5544	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Americium-242m	-0.06051	pCi/sample	U	U	0.2099	0.5628	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Americium-243	-0.06074	pCi/sample	U	U	0.2107	0.565	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Berkelium-247	0	pCi/sample	U	U	0	0.4628	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Californium-249	0.2213	pCi/sample	U	UJ	0.2555	0.1999	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Californium-251	0	pCi/sample	U	U	0	0.4641	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Cesium-137	-1.42	pCi/sample	U	U	8.481	14.12	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Cobalt-60	2.85	pCi/sample	U	U	7.087	12.4	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Curium-243/244	-0.08569	pCi/sample	U	U	0.1714	0.6311	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Curium-245/246	-0.1211	pCi/sample	U	U	0.1713	0.5628	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Curium-247	0.1062	pCi/sample	U	U	0.3673	0.7804	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Curium-248	0.3274	pCi/sample	U	UJ	0.3274	0.2218	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Curium-250	0	pCi/sample	U	U	0	0.9128	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Neptunium-237	6.19	pCi/sample		=	1.277	0.4746	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Pct-Uranium-235	62.46	wt %		J	0	0	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Plutonium-238	0.2959	pCi/sample	U	UJ	0.3417	0.2673	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Plutonium-239/240	0.09873	pCi/sample	U	U	0.3415	0.7257	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Plutonium-242	-0.1969	pCi/sample	U	U	0.2784	0.9146	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Plutonium-244	0.1971	pCi/sample	U	U	0.2787	0.267	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Protactinium-231	-178.8	pCi/sample	U	U	365.3	601.7	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Protactinium-234m	-368.1	pCi/sample	U	U	1224	1698	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Technetium-99	68000	pCi/sample		J	476	47.6	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Thorium-228	0.2521	pCi/sample	U	U	0.3565	0.3415	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Thorium-230	61.82	pCi/sample		=	5.586	0.3419	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Thorium-231	464.4	pCi/sample		UJ	68.69	349	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Thorium-232	-0.2515	pCi/sample	U	U	0.5034	1.355	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Thorium-234	-394.6	pCi/sample	U	U	847.7	1250	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Total Uranium	486.2	µg/sample		J	0	0.7053	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Uranium-232	0.566	pCi/sample		UJ	0.3773	0.1704	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Uranium-233/234	14670	pCi/sample		=	65.52	0.6789	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Uranium-235	656.2	pCi/sample		J	15.39	0.2445	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Uranium-235/234	129	%		J	0	0	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Uranium-236	34.67	pCi/sample		J	3.352	0.2195	09-Sep-13	REG	
X326-25-2-2-2	B26CP2520202-4	WIPE	SW	Uranium-238	66.5	pCi/sample		=	3.525	0.1978	09-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Americium-241	0.03144	pCi/g	U	U	0.03849	0.05782	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Americium-242m	-0.008383	pCi/g	U	U	0.01186	0.03895	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Americium-243	-0.008415	pCi/g	U	U	0.0119	0.0391	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Arsenic	7.89	mg/kg	B			2.19	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Barium	5.68	mg/kg				0.0443	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Berkelium-247	-0.0118	pCi/g	U	U	0.04092	0.1097	03-Sep-13	REG	

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Beryllium	0.0412	mg/kg	U			0.0412	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Cadmium	3.1	mg/kg				0.101	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01383	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Californium-251	-0.01183	pCi/g	U	U	0.04103	0.11	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Cesium-137	-0.09721	pCi/g	U	U	0.1079	0.1762	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Chromium	9.25	mg/kg				0.184	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Cobalt-60	0.08959	pCi/g	U	U	0.09023	0.1613	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Curium-243/244	-0.03574	pCi/g	U	U	0.04379	0.1172	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Curium-245/246	-0.008383	pCi/g	U	U	0.01186	0.03895	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Curium-247	-0.02209	pCi/g	U	U	0.04422	0.119	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Curium-248	0.02561	pCi/g	U	UJ	0.02957	0.02314	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.06317	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Lead	0.458	mg/kg	U			0.458	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Mercury	0.00521	mg/kg	U			0.00521	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Neptunium-237	-0.004447	pCi/g	U	U	0.008894	0.03275	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Pct-Uranium-235	43.09	wt %	U	J	0	0	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Plutonium-238	0.01332	pCi/g	U	UJ	0.01538	0.01203	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Plutonium-239/240	0	pCi/g	U	U	0	0.01203	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Plutonium-242	-0.00886	pCi/g	U	U	0.01253	0.04116	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Plutonium-244	0.00000443	pCi/g	U	U	0.01254	0.03263	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Protactinium-231	-0.05274	pCi/g	U	U	4.609	7.676	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Protactinium-234m	-10.22	pCi/g	U	U	15.63	21.37	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Selenium	2.47	mg/kg	B			1.18	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Silver	0.964	mg/kg	B			0.5	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Technetium-99	47	pCi/g		J	2.5	2.31	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Thorium-228	0.00468	pCi/g	U	U	0.03088	0.061	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Thorium-230	1.594	pCi/g		=	0.1783	0.08767	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Thorium-231	-2.43	pCi/g	U	U	3.083	4.295	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Thorium-232	-0.009296	pCi/g	U	U	0.01315	0.04319	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Thorium-234	-0.1033	pCi/g	U	U	10.96	15.56	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Total Uranium	0.05319	µg/g	U	U	0	0.1305	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Uranium-232	0	pCi/g	U	U	0	0.01128	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Uranium-233/234	1.686	pCi/g		=	0.1793	0.08685	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Uranium-235	0.04953	pCi/g		UJ	0.03302	0.01491	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Uranium-235/234	84.9	%		J	0	0	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Uranium-236	4.937E-06	pCi/g	U	UJ	0.01397	0.03636	03-Sep-13	REG	
X326-25-2-2-2	B26CV2520202-5	SOLID	SZ	Uranium-238	0.01337	pCi/g	U	U	0.02355	0.04133	03-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Americium-241	0.01167	pCi/g	U	UJ	0.01348	0.01054	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Americium-242m	0.01039	pCi/g	U	U	0.01831	0.03213	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Americium-243	0.01043	pCi/g	U	U	0.01838	0.03226	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Arsenic	0.0032	mg/L	B			0.00219	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Arsenic	0.948	mg/kg	U			0.948	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Barium	0.000237	mg/L	U			0.000237	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Barium	0.103	mg/kg	U			0.103	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02642	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Beryllium	0.137	mg/kg	U			0.137	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Cadmium	0.0006	mg/L	BJ			0.000406	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Cadmium	0.176	mg/kg	U			0.176	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Californium-249	-0.004207	pCi/g	U	U	0.008414	0.03098	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Californium-251	0.009778	pCi/g	U	U	0.01956	0.0265	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Cesium-137	-0.1075	pCi/g	U	U	0.1815	0.2988	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Chromium	0.0317	mg/L	B			0.00695	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Chromium	120	mg/kg				3.01	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Cobalt-60	0.1678	pCi/g	U	U	0.1524	0.2732	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Curium-243/244	0.008862	pCi/g	U	U	0.01771	0.03259	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Curium-245/246	0.003465	pCi/g	U	U	0.01199	0.02547	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Curium-247	0.02191	pCi/g	U	UJ	0.02191	0.01484	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Curium-248	0.01268	pCi/g	U	UJ	0.01464	0.01145	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1785	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Lead	0.015	mg/L	B			0.00161	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Lead	3.16	mg/kg	B			0.697	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Mercury	0.004	mg/L	U			0.004	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Mercury	0.00433	mg/kg	U			0.00433	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Neptunium-237	-0.01173	pCi/g	U	U	0.02071	0.05131	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Pct-Uranium-235	34.06	wt %		J	0	0	04-Sep-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Plutonium-238	0.01172	pCi/g	U	U	0.02066	0.03625	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Plutonium-239/240	7.804E-06	pCi/g	U	U	0.01561	0.03625	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Plutonium-242	-0.00778	pCi/g	U	U	0.02466	0.05499	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Plutonium-244	3.898E-06	pCi/g	U	U	0.01103	0.02871	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Protactinium-231	3.669	pCi/g	U	U	7.777	13	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Protactinium-234m	0.7484	pCi/g	U	U	26.92	38.04	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Selenium	0.00241	mg/L	U			0.00241	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Selenium	1.04	mg/kg	U			1.04	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Silver	0.00727	mg/L	U			0.00727	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Silver	3.15	mg/kg	U			3.15	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Technetium-99	137	pCi/g		=	5.67	4.47	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Thorium-228	0.00001527	pCi/g	U	U	0.02494	0.0548	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Thorium-230	1.336	pCi/g		=	0.1657	0.03751	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Thorium-231	-0.1919	pCi/g	U	U	4.32	7.216	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Thorium-232	0.005095	pCi/g	U	U	0.01762	0.03745	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Thorium-234	-0.2803	pCi/g	U	U	17.82	26.23	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Total Uranium	0.1364	µg/g		J	0	0.1295	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Uranium-232	0.003253	pCi/g	U	U	0.01125	0.02391	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Uranium-233/234	2.702	pCi/g		=	0.2103	0.03777	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Uranium-235	0.1004	pCi/g		UJ	0.04708	0.03693	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Uranium-235/234	107	%		J	0	0	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Uranium-236	0.03605	pCi/g		UJ	0.02549	0.01221	04-Sep-13	REG	
X326-25-2-2-2	B26UP2520202-7	SOLID	SZ	Uranium-238	0.0308	pCi/g	U	U	0.0247	0.03769	04-Sep-13	REG	
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Americium-241	0.000437	pCi/g	U	U	0.001508	0.003204	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Americium-242	-0.00107	pCi/g	U	U	0.001886	0.004674	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Americium-243	-0.00107	pCi/g	U	U	0.001894	0.004692	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Arsenic	44.1	mg/kg		=		3.5	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Barium	2.34	mg/kg	U	U		2.34	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Berkelium-247	0.00101	pCi/g	U	U	0.00201	0.002724	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Beryllium	1.02	mg/kg	U	U		1.02	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Cadmium	35.4	mg/kg		=		2.41	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Californium-249	0.000434	pCi/g	U	U	0.000868	0.001176	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Californium-251	0.00101	pCi/g	U	U	0.002015	0.00273	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Cesium-137	-0.0869	pCi/g	U	U	0.08826	0.1427	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Chromium	569	mg/kg		=		8.99	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Cobalt-60	0.033	pCi/g	U	U	0.07475	0.1315	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Curium-243/244	0.000991	pCi/g	U	U	0.001402	0.001343	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Curium-245/246	-0.000713	pCi/g	U	U	0.001426	0.003838	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Curium-247	-0.000611	pCi/g	U	U	0.002121	0.00569	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Curium-248	0.000474	pCi/g	U	U	0.001638	0.00348	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Curium-250	-0.0202	pCi/g	U	U	0.02847	0.01839	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Lead	132	mg/kg		=		2.51	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Mercury	0.132	mg/kg	U	UJ		0.132	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Neptunium-237	0.00291	pCi/g	U	U	0.003076	0.004278	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Pct-Uranium-235	69.4	wt %		J	0	0	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Plutonium-238	0.000581	pCi/g	U	U	0.002008	0.004265	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Plutonium-239/240	-0.000579	pCi/g	U	U	0.002592	0.006238	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Plutonium-242	-0.000726	pCi/g	U	U	0.001453	0.00391	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Plutonium-244	-0.000363	pCi/g	U	U	0.001258	0.003373	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Protactinium-231	-2.47	pCi/g	U	U	3.847	6.107	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Protactinium-234m	5.08	pCi/g	U	U	12.1	18.07	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Selenium	4.82	mg/kg	U	U		4.82	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Silver	17.3	mg/kg	U	U		17.3	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Technetium-99	224	pCi/g		J	2.391	0.362	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Thorium-228	0.0188	pCi/g		=	0.005991	0.004055	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Thorium-230	1.95	pCi/g		=	0.05848	0.00525	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Thorium-231	5.96	pCi/g		UJ	0.7809	3.594	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Thorium-232	0.00219	pCi/g		UJ	0.001952	0.001183	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Thorium-234	11.5	pCi/g		UJ	0.4801	9.757	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Total Uranium	5.155	µg/g		J	0	0.264	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Uranium-232	0.0183	pCi/g	U	U	0.03655	0.04953	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Uranium-233/234	221	pCi/g		=	4.035	0.1352	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Uranium-235	7.73	pCi/g		J	0.8445	0.2439	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Uranium-235/234	101	%		J	0		13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Uranium-236	0.733	pCi/g		J	0.2638	0.219	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-3-2-2	B26CP2530202-3	SOLID	SZ	Uranium-238	1.03	pCi/g		=	0.2745	0.0497	13-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Americium-241	0.226	pCi/sample	U	UJ	0.2614	0.2045	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Americium-242	-0.126	pCi/sample	U	U	0.2512	0.6763	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Americium-243	-0.126	pCi/sample	U	U	0.2522	0.6789	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Berkelium-247	0.000177	pCi/sample	U	U	0.5005	1.303	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Californium-249	0.153	pCi/sample	U	U	0.2163	0.2072	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Californium-251	0.000177	pCi/sample	U	U	0.5019	1.306	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Cesium-137	-4.867	pCi/sample	U	U	7.657	12.51	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Cobalt-60	0.4292	pCi/sample	U	U	6.517	11.3	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Curium-243/244	0.172	pCi/sample	U	U	0.2429	0.2328	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Curium-245/246	-0.0627	pCi/sample	U	U	0.2176	0.5835	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Curium-247	0.212	pCi/sample	U	U	0.3004	0.2878	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Curium-248	0.246	pCi/sample	U	UJ	0.284	0.2221	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Curium-250	0	pCi/sample	U	U	0	0.9463	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Neptunium-237	5.88	pCi/sample		=	1.319	0.9203	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Pct-Uranium-235	78	wt %		J	0	0	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Plutonium-238	0.0651	pCi/sample	U	U	0.1302	0.1765	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Plutonium-239/240	0.0000651	pCi/sample	U	U	0.1841	0.4791	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Plutonium-242	-0.257	pCi/sample	U	U	0.3631	0.9053	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Plutonium-244	-0.0642	pCi/sample	U	U	0.1283	0.4726	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Protactinium-231	96.27	pCi/sample	U	U	334	550.4	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Protactinium-234m	-505.8	pCi/sample	U	U	1201	1627	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Technetium-99	396000	pCi/sample		=	2780	105	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Thorium-228	8.13	pCi/sample	U	U	6.771	9.679	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Thorium-230	2280	pCi/sample		=	82.12	5.442	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Thorium-231	2640	pCi/sample		=	111	373.8	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Thorium-232	8.12	pCi/sample		UJ	4.897	2.001	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Thorium-234	-161.4	pCi/sample	U	U	880.2	1262	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Total Uranium	172	µg/sample		J	0	3.995	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Uranium-232	0.000324	pCi/sample	U	U	0.9319	2.425	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Uranium-233/234	7990	pCi/sample		=	102	5.887	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Uranium-235	290	pCi/sample		J	21.59	2.948	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Uranium-235/234	105	%		J	0		13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Uranium-236	13.3	pCi/sample		J	4.377	0.975	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CP2530202-4	WIPE	SW	Uranium-238	31.4	pCi/sample		=	6.385	0.8785	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Americium-241	0.02823	pCi/g	U	U	0.04205	0.0692	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Americium-242m	0.00803	pCi/g	U	U	0.02778	0.05902	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Americium-243	0.008061	pCi/g	U	U	0.02789	0.05925	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Arsenic	1.1	mg/L				0.00839	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Arsenic	145	mg/kg	B			21.8	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Barium	0.0054	mg/L	J			0.00017	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Barium	61.4	mg/kg				0.442	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Berkelium-247	-0.02257	pCi/g	U	U	0.04515	0.1663	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Beryllium	0.411	mg/kg	U			0.411	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Cadmium	0.000386	mg/L	U			0.000386	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Cadmium	1	mg/kg	U			1	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Californium-249	-0.01949	pCi/g	U	U	0.03901	0.105	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Californium-251	-0.02264	pCi/g	U	U	0.04528	0.1667	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Cesium-137	-0.473	pCi/g	U	U	0.9272	1.572	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Chromium	1.06	mg/L				0.000708	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Chromium	65.3	mg/kg				1.84	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Cobalt-60	0.8282	pCi/g	U	U	1.195	2.601	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Curium-243/244	0.03212	pCi/g	U	UJ	0.03709	0.02901	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Curium-245/246	0.008022	pCi/g	U	U	0.01604	0.02174	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Curium-247	0.05296	pCi/g	U	UJ	0.05296	0.03588	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Curium-248	0.01022	pCi/g	U	U	0.02043	0.02769	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1208	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Lead	0.00176	mg/L	U			0.00176	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Lead	4.58	mg/kg	U			4.58	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Mercury	0.004	mg/L	U			0.004	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Mercury	0.052	mg/kg	U			0.052	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Neptunium-237	0.09303	pCi/g		UJ	0.062	0.07195	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Pct-Uranium-235	79.97	wt %		J	0	0	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Plutonium-238	0.01546	pCi/g	U	U	0.02186	0.02095	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Plutonium-239/240	0.06184	pCi/g		UJ	0.04888	0.05687	22-Aug-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Plutonium-242	7.715E-06	pCi/g	U	U	0.02183	0.05681	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Plutonium-244	7.715E-06	pCi/g	U	U	0.02183	0.05681	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Protactinium-231	7.287	pCi/g	U	U	18.74	33.36	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Protactinium-234m	-107.6	pCi/g	U	U	139.1	231.7	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Selenium	0.0094	mg/L	B			0.00452	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Selenium	11.8	mg/kg	U			11.8	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Silver	0.0028	mg/L	B			0.00192	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Silver	5	mg/kg	U			5	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Technetium-99	48400	pCi/g		=	338	33.7	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Thorium-228	0.09164	pCi/g		UJ	0.0648	0.03103	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Thorium-230	49.22	pCi/g		=	1.503	0.08435	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Thorium-231	55.69	pCi/g		=	4.708	7.131	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.03101	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Thorium-234	88.45	pCi/g		=	4.156	14.64	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Total Uranium	23.85	µg/g		J	0	0.1517	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Uranium-232	0	pCi/g	U	U	0	0.03723	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Uranium-233/234	810.4	pCi/g		=	7.142	0.1158	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Uranium-235	41.21	pCi/g		J	1.789	0.0526	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Uranium-235/234	147	%		J	0	0	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Uranium-236	4.287	pCi/g		J	0.5467	0.04723	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-1	SOLID	SZ	Uranium-238	4.271	pCi/g		=	0.5179	0.04255	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Americium-241	0.005919	pCi/g	U	U	0.02048	0.04351	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Americium-242m	0.003276	pCi/g	U	U	0.01133	0.02408	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Americium-243	0.003288	pCi/g	U	U	0.01137	0.02417	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Arsenic	6.38	mg/kg	B			1.74	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Barium	4.45	mg/kg				0.0352	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02498	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Beryllium	0.0414	mg/kg	B			0.0327	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Cadmium	6.3	mg/kg				0.08	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01079	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.02505	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Cesium-137	-0.08807	pCi/g	U	U	0.07306	0.1092	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Chromium	16.6	mg/kg				0.147	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Cobalt-60	-0.01725	pCi/g	U	U	0.09238	0.1715	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Curium-243/244	-0.01345	pCi/g	U	U	0.01902	0.06248	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Curium-245/246	0.003272	pCi/g	U	U	0.006545	0.008868	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Curium-247	0.01665	pCi/g	U	U	0.02354	0.02256	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Curium-248	0.01285	pCi/g	U	U	0.01817	0.01741	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Curium-250	0.09242	pCi/g	U	UJ	0.1848	0.04927	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Lead	2.94	mg/kg	B			0.365	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Mercury	0.00414	mg/kg	U			0.00414	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Neptunium-237	3.371E-06	pCi/g	U	U	0.00954	0.02483	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Pct-Uranium-235	52.83	wt %	U	J	0	0	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Plutonium-238	0.01346	pCi/g	U	UJ	0.01346	0.009119	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Plutonium-239/240	0	pCi/g	U	U	0	0.009119	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Plutonium-242	0.006723	pCi/g	U	U	0.009508	0.00911	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Plutonium-244	-0.003358	pCi/g	U	U	0.006717	0.02473	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Protactinium-231	-1.646	pCi/g	U	U	1.472	2.124	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Protactinium-234m	6.347	pCi/g	U	U	11.52	23.19	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Selenium	1.68	mg/kg	B			0.936	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Silver	0.539	mg/kg	B			0.398	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Technetium-99	200	pCi/g		J	4.4	1.89	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Thorium-228	-0.003901	pCi/g	U	U	0.007801	0.02872	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Thorium-230	0.2267	pCi/g		=	0.06054	0.02875	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Thorium-231	0.0361	pCi/g	U	U	0.1591	0.2705	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.01057	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Thorium-234	-0.01476	pCi/g	U	U	0.3704	0.5465	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Total Uranium	0.01703	µg/g	U	UJ	0	0.09234	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Uranium-232	0.003226	pCi/g	U	U	0.006451	0.008741	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Uranium-233/234	0.5593	pCi/g		=	0.09452	0.02898	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Uranium-235	0.01943	pCi/g	U	UJ	0.01943	0.01317	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Uranium-235/234	100	%		J	0	0	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Uranium-236	0.004362	pCi/g	U	UJ	0.008725	0.01182	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2	SOLID	SZ	Uranium-238	0.003935	pCi/g	U	U	0.01361	0.02892	22-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Americium-241	0.01192	pCi/g	U	U	0.01686	0.01615	22-Aug-13	FD	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Americium-242m	-0.0102	pCi/g	U	U	0.01178	0.03663	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Americium-243	-0.01024	pCi/g	U	U	0.01183	0.03677	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Arsenic	6.96	mg/kg	B			1.75	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Barium	4.73	mg/kg				0.0354	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02599	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Beryllium	0.0329	mg/kg	U			0.0329	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Cadmium	7.24	mg/kg				0.0805	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01122	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Californium-251	0.01924	pCi/g	U	U	0.0272	0.02606	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Cesium-137	0.002253	pCi/g	U	U	0.06655	0.1236	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Chromium	18.1	mg/kg				0.148	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Cobalt-60	-0.02609	pCi/g	U	U	0.07162	0.1307	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Curium-243/244	-0.006779	pCi/g	U	U	0.01356	0.04993	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Curium-245/246	-0.003401	pCi/g	U	U	0.006803	0.02505	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.02274	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Curium-248	0.01295	pCi/g	U	U	0.01832	0.01755	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.05126	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Lead	3.29	mg/kg	B			0.367	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Mercury	0.00417	mg/kg	U			0.00417	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Neptunium-237	-0.009609	pCi/g	U	U	0.0111	0.0345	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Pct-Uranium-235	98.49	wt %	U	J	0	0	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Plutonium-238	0.006398	pCi/g	U	U	0.01279	0.02353	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Plutonium-239/240	0	pCi/g	U	U	0	0.008665	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Plutonium-242	-0.003191	pCi/g	U	U	0.006382	0.0235	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Plutonium-244	-0.003191	pCi/g	U	U	0.006382	0.0235	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Protactinium-231	-0.6875	pCi/g	U	U	1.417	2.326	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Protactinium-234m	5.151	pCi/g	U	U	9.525	19.87	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Selenium	3.65	mg/kg	B			0.942	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Silver	0.4	mg/kg	U			0.4	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Technetium-99	197	pCi/g		=	4.4	1.87	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Thorium-228	-0.01121	pCi/g	U	U	0.01294	0.04023	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Thorium-230	0.1797	pCi/g		=	0.05701	0.04905	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Thorium-231	-0.01188	pCi/g	U	U	0.1664	0.2764	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Thorium-232	0.01868	pCi/g		UJ	0.01671	0.01013	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Thorium-234	-0.1301	pCi/g	U	U	0.3713	0.5352	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Total Uranium	0.008429	µg/g	U	UJ	0	0.03535	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Uranium-232	0.00344	pCi/g	U	U	0.00688	0.009323	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Uranium-233/234	0.4035	pCi/g		=	0.07728	0.02675	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Uranium-235	0.01794	pCi/g	U	UJ	0.01794	0.01215	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Uranium-235/234	129	%		J	0	0	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Uranium-236	0.004031	pCi/g	U	UJ	0.01394	0.02963	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-2D	SOLID	SZ	Uranium-238	0	pCi/g	U	U	0	0.009832	22-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Americium-241	-0.007604	pCi/g	U	U	0.01521	0.056	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Americium-242m	0.01318	pCi/g	U	UJ	0.01522	0.01191	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Americium-243	0.01323	pCi/g	U	UJ	0.01528	0.01195	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Arsenic	13.2	mg/kg	B			2.27	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Barium	6.25	mg/kg				0.046	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.03354	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Beryllium	0.0428	mg/kg	U			0.0428	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Cadmium	2.38	mg/kg				0.104	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01448	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.03363	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Cesium-137	-0.03186	pCi/g	U	U	0.09673	0.1686	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Chromium	16.3	mg/kg				0.192	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Cobalt-60	0.01985	pCi/g	U	U	0.1301	0.256	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Curium-243/244	0.008664	pCi/g	U	U	0.01733	0.02348	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Curium-245/246	0.004393	pCi/g	U	U	0.008786	0.01191	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.02903	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Curium-248	8.261E-06	pCi/g	U	U	0.02337	0.06083	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Curium-250	0.1238	pCi/g	U	UJ	0.2477	0.06614	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Lead	0.476	mg/kg	U			0.476	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Mercury	0.00541	mg/kg	U			0.00541	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Neptunium-237	0.004722	pCi/g	U	U	0.009444	0.0128	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Pct-Uranium-235	59.51	wt %		J	0	0	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Plutonium-238	0.009418	pCi/g	U	U	0.01332	0.01276	21-Aug-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Plutonium-239/240	0	pCi/g	U	U	0	0.01276	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Plutonium-242	0.0000047	pCi/g	U	U	0.0133	0.03461	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.01275	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Protactinium-231	0.4659	pCi/g	U	U	1.827	3.247	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Protactinium-234m	7.709	pCi/g	U	U	11.66	25.02	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Selenium	4.41	mg/kg	B			1.22	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Silver	0.568	mg/kg	B			0.52	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Technetium-99	54.2	pCi/g		=	2.74	2.47	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Thorium-228	0	pCi/g	U	U	0	0.01237	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Thorium-230	1.358	pCi/g		=	0.1591	0.04918	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Thorium-231	0.6374	pCi/g		UJ	0.2009	0.3533	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Thorium-232	0.00913	pCi/g	U	U	0.01825	0.03357	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Thorium-234	-0.0004951	pCi/g	U	U	0.4904	0.7279	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Total Uranium	0.08669	µg/g		J	0	0.04625	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Uranium-232	-0.004313	pCi/g	U	U	0.008627	0.03177	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Uranium-233/234	2.188	pCi/g		=	0.2049	0.04415	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Uranium-235	0.1115	pCi/g		J	0.05115	0.0159	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Uranium-235/234	147	%		J	0	0	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Uranium-236	0.01581	pCi/g	U	UJ	0.02355	0.03876	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5	SOLID	SZ	Uranium-238	0.01899	pCi/g	U	UJ	0.01899	0.01286	21-Aug-13	REG	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Americium-241	0.007524	pCi/g	U	U	0.01505	0.02039	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Americium-242m	-0.004631	pCi/g	U	U	0.009262	0.03411	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Americium-243	-0.004649	pCi/g	U	U	0.009297	0.03424	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Arsenic	11	mg/kg	B			2.37	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Barium	6.65	mg/kg				0.0481	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.03539	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Beryllium	0.0447	mg/kg	U			0.0447	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Cadmium	3.79	mg/kg				0.109	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01528	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Californium-251	-0.01308	pCi/g	U	U	0.02616	0.09635	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Cesium-137	-0.01323	pCi/g	U	U	0.0876	0.1587	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Chromium	11.6	mg/kg				0.2	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Cobalt-60	0.01712	pCi/g	U	U	0.103	0.2148	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Curium-243/244	-0.008556	pCi/g	U	U	0.01711	0.06301	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Curium-245/246	0	pCi/g	U	U	0	0.01256	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Curium-247	0.03177	pCi/g	U	UJ	0.03669	0.0287	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Curium-248	0	pCi/g	U	U	0	0.02215	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.06979	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Lead	0.498	mg/kg	U			0.498	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Mercury	0.00566	mg/kg	U			0.00566	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Neptunium-237	0	pCi/g	U	U	0	0.01243	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Pct-Uranium-235	63.2	wt %		J	0	0	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Plutonium-238	0.009147	pCi/g	U	U	0.01294	0.01239	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Plutonium-239/240	0.004573	pCi/g	U	U	0.009146	0.01239	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Plutonium-242	4.565E-06	pCi/g	U	U	0.01292	0.03361	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Plutonium-244	0.009137	pCi/g	U	U	0.01292	0.01238	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Protactinium-231	0.08929	pCi/g	U	U	1.959	3.418	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Protactinium-234m	11.26	pCi/g	U	U	13.29	28.66	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Selenium	1.67	mg/kg	B			1.28	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Silver	1.02	mg/kg	B			0.543	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Technetium-99	51.3	pCi/g		=	2.75	2.56	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Thorium-228	-0.004837	pCi/g	U	U	0.009674	0.03561	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Thorium-230	1.425	pCi/g		=	0.1667	0.03565	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Thorium-231	0.5846	pCi/g		UJ	0.186	0.3541	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.01311	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Thorium-234	0.09105	pCi/g	U	U	0.4975	0.7427	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Total Uranium	0.1176	µg/g		J	0	0.06156	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Uranium-232	0.004643	pCi/g	U	U	0.009285	0.01258	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Uranium-233/234	2.708	pCi/g		=	0.2329	0.01357	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Uranium-235	0.1606	pCi/g		J	0.06535	0.04544	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Uranium-235/234	171	%		J	0	0	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Uranium-236	0.01109	pCi/g	U	UJ	0.01568	0.01503	21-Aug-13	FD	
X326-25-3-2-2	B26CV2530202-5D	SOLID	SZ	Uranium-238	0.02498	pCi/g		UJ	0.02234	0.01354	21-Aug-13	FD	
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Americium-241	0.0157	pCi/g	U	U	0.02216	0.02123	13-Sep-11	REG	DEPOSIT; TRANSFER#_______________F-CAN#_______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Americium-242	0.00000604	pCi/g	U	U	0.0171	0.04449	13-Sep-11	REG	DEPOSIT; TRANSFER#_______________F-CAN#_______________

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STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Americium-243	0.00000607	pCi/g	U	U	0.01716	0.04466	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Arsenic	167	µg/g		=		8.05	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Barium	23.2	µg/g		=		0.184	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Berkelium-247	0.0341	pCi/g	U	U	0.04818	0.04616	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Beryllium	0.281	µg/g	U	U		0.281	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Cadmium	963	µg/g		=		0.917	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Californium-249	0.00736	pCi/g	U	U	0.01471	0.01994	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Californium-251	0.0342	pCi/g	U	U	0.04832	0.04629	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Cesium-137	-0.5315	pCi/g	U	U	1.538	2.533	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Chromium	2230	µg/g		=		0.948	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Cobalt-60	0.1862	pCi/g	U	U	1.295	2.251	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Curium-243/244	0.00892	pCi/g	U	U	0.01784	0.02417	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Curium-245/246	-0.00604	pCi/g	U	U	0.01208	0.04449	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Curium-247	0.011	pCi/g	U	U	0.02206	0.02989	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Curium-248	0.034	pCi/g	U	UJ	0.03404	0.02306	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Curium-250	0.17	pCi/g	U	UJ	0.3396	0.09104	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Lead	115000	µg/g		=		8.09	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Mercury	0.55	µg/g		J		0.194	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Neptunium-237	9.88	pCi/g		=	0.504	0.07677	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Pct-Uranium-235	66.1	wt %		J	0	0	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Plutonium-238	0.00638	pCi/g	U	U	0.02208	0.04692	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Plutonium-239/240	0.0446	pCi/g	U	U	0.03825	0.04692	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Plutonium-242	0	pCi/g	U	U	0	0.01774	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.01774	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Protactinium-231	138.6	pCi/g	U	UJ	98.57	123.2	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Protactinium-234m	614.4	pCi/g		=	59.83	256	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Selenium	7.26	µg/g	UW	UJ		7.26	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Silver	2510	µg/g		=		2.71	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Technetium-99	2020000	pCi/g		J	14200	143	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Thorium-228	20	pCi/g		=	3.831	1.325	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Thorium-230	2650	pCi/g		=	43.69	1.674	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Thorium-231	9580	pCi/g		=	47.96	196.6	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Thorium-232	2.34	pCi/g		UJ	1.394	1.325	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Thorium-234	-135.9	pCi/g	U	U	451.3	697.8	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Total Uranium	9320	µg/g		J	0	144.8	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Uranium-232	12.2	pCi/g	U	U	24.39	33.04	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Uranium-233/234	421000	pCi/g		=	5030	161.5	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Uranium-235	13300	pCi/g		J	993.3	50.19	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Uranium-235/234	91.5	%		J	0		13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Uranium-236	665	pCi/g		J	210.4	45.07	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26DP2530202-4	SOLID	SZ	Uranium-238	1920	pCi/g		=	339	40.61	13-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Americium-241	0.008786	pCi/g	U	U	0.0392	0.08139	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Americium-242m	0.01382	pCi/g	U	UJ	0.01596	0.01249	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Americium-243	0.01388	pCi/g	U	UJ	0.01602	0.01254	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Arsenic	14.2	mg/kg	B			2.47	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Barium	6.35	mg/kg				0.05	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Berkelium-247	0.01298	pCi/g	U	U	0.02596	0.03518	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Beryllium	0.265	mg/kg	B			0.0464	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Cadmium	7.58	mg/kg				0.113	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01519	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Californium-251	0.01302	pCi/g	U	U	0.02604	0.03528	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Cesium-137	-0.00299	pCi/g	U	U	0.09785	0.1792	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Chromium	12	mg/kg				0.208	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Cobalt-60	-0.03979	pCi/g	U	U	0.1273	0.2301	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Curium-243/244	-0.009971	pCi/g	U	U	0.01994	0.07343	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Curium-245/246	0.004608	pCi/g	U	U	0.009216	0.01249	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Curium-247	0.03704	pCi/g	U	U	0.05519	0.09081	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Curium-248	0	pCi/g	U	U	0	0.02581	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Curium-250	0.1297	pCi/g	U	UJ	0.2593	0.06938	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Lead	2.35	mg/kg	B			0.517	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Mercury	0.00588	mg/kg	U			0.00588	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Neptunium-237	0.004785	pCi/g	U	U	0.02135	0.04433	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Pct-Uranium-235	77.92	wt %		J	0	0	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Plutonium-238	4.757E-06	pCi/g	U	U	0.01346	0.03503	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Plutonium-239/240	0.004762	pCi/g	U	U	0.009523	0.0129	15-Aug-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Plutonium-242	-0.004747	pCi/g	U	U	0.01647	0.04416	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.01289	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Protactinium-231	-0.8193	pCi/g	U	U	2.098	3.485	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Protactinium-234m	-2.079	pCi/g	U	U	15.73	29.11	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Selenium	4.67	mg/kg	B			1.33	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Silver	1.15	mg/kg	B			0.564	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Technetium-99	78.2	pCi/g		=	3.28	2.61	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Thorium-228	-0.01015	pCi/g	U	U	0.02032	0.05468	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Thorium-230	1.592	pCi/g		=	0.1817	0.05474	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Thorium-231	0.5065	pCi/g		UJ	0.1672	0.4134	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Thorium-232	0.01524	pCi/g	U	UJ	0.01759	0.01376	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Thorium-234	0.1235	pCi/g	U	U	0.5342	0.8058	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Total Uranium	0.2681	µg/g		J	0	0.1597	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Uranium-232	-0.009707	pCi/g	U	U	0.01373	0.0451	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Uranium-233/234	11.78	pCi/g		=	0.5076	0.04018	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Uranium-235	0.4514	pCi/g		J	0.1103	0.01826	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Uranium-235/234	111	%		J	0	0	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Uranium-236	0.0242	pCi/g	U	UJ	0.02963	0.04451	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7	SOLID	SZ	Uranium-238	0.04906	pCi/g	U	U	0.03929	0.05059	15-Aug-13	REG	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Americium-241	0	pCi/g	U	U	0	0.02359	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Americium-242m	0.004603	pCi/g	U	U	0.02053	0.04264	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Americium-243	0.00462	pCi/g	U	U	0.02061	0.0428	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Arsenic	11.3	mg/kg	B			2.47	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Barium	5.92	mg/kg				0.0501	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Berkelium-247	0.02589	pCi/g	U	U	0.05174	0.0952	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Beryllium	0.0589	mg/kg	B			0.0465	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Cadmium	7.04	mg/kg				0.114	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Californium-249	0.005588	pCi/g	U	U	0.01118	0.01514	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Californium-251	0.02596	pCi/g	U	U	0.05189	0.09547	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Cesium-137	0.0262	pCi/g	U	U	0.1001	0.1902	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Chromium	11	mg/kg				0.209	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Cobalt-60	-0.05581	pCi/g	U	U	0.1056	0.1814	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Curium-243/244	0.009909	pCi/g	U	U	0.01982	0.02685	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Curium-245/246	0.004598	pCi/g	U	U	0.01591	0.0338	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Curium-247	-0.02447	pCi/g	U	U	0.04898	0.1318	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Curium-248	0.009456	pCi/g	U	U	0.01891	0.02563	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Curium-250	0.1294	pCi/g	U	UJ	0.2587	0.06916	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Lead	1.8	mg/kg	B			0.518	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Mercury	0.00589	mg/kg	U			0.00589	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Neptunium-237	-0.01509	pCi/g	U	U	0.01742	0.05416	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Pct-Uranium-235	44.42	wt %		J	0	0	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Plutonium-238	0.005025	pCi/g	U	U	0.01738	0.03693	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Plutonium-239/240	5.015E-06	pCi/g	U	U	0.01419	0.03693	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Plutonium-242	-0.01503	pCi/g	U	U	0.01735	0.05396	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Plutonium-244	0.005014	pCi/g	U	U	0.01003	0.01359	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Protactinium-231	1.337	pCi/g	U	U	2.025	3.663	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Protactinium-234m	10.51	pCi/g	U	U	13.61	29.18	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Selenium	4.48	mg/kg	B			1.33	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Silver	0.854	mg/kg	B			0.566	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Technetium-99	64.2	pCi/g		=	3.07	2.66	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Thorium-228	0.02165	pCi/g	U	UJ	0.02165	0.01467	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Thorium-230	1.436	pCi/g		=	0.1771	0.03987	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Thorium-231	0.4762	pCi/g		UJ	0.1659	0.3727	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.01466	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Thorium-234	0.1939	pCi/g	U	U	0.5168	0.7813	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Total Uranium	0.1726	µg/g		J	0	0.05179	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Uranium-232	-0.004713	pCi/g	U	U	0.009426	0.03471	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Uranium-233/234	4.544	pCi/g		=	0.3124	0.01455	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Uranium-235	0.1656	pCi/g		J	0.06625	0.01795	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Uranium-235/234	105	%		J	0	0	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Uranium-236	0.01785	pCi/g	U	UJ	0.02061	0.01612	15-Aug-13	FD	
X326-25-3-2-2	B26UP2530202-7D	SOLID	SZ	Uranium-238	0.04288	pCi/g		UJ	0.03032	0.01453	15-Aug-13	FD	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Americium-241	0.007781	pCi/g	U	U	0.011	0.01805	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Americium-242m	3.299E-06	pCi/g	U	U	0.0066	0.01532	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Americium-243	3.311E-06	pCi/g	U	U	0.006625	0.01538	02-Oct-13	REG	

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Arsenic	1.15	mg/kg	U			1.15	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Barium	0.125	mg/kg	U			0.125	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.0126	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Beryllium	0.211	mg/kg	B			0.166	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Cadmium	0.214	mg/kg	U			0.214	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.005442	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.01264	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Cesium-137	-0.2991	pCi/g	U	U	0.219	0.3458	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Chromium	37.9	mg/kg				3.66	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Cobalt-60	0.0154	pCi/g	U	U	0.183	0.3127	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Curium-243/244	-0.002211	pCi/g	U	U	0.004422	0.01628	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Curium-245/246	4.948E-06	pCi/g	U	U	0.008083	0.01776	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Curium-247	0.005477	pCi/g	U	U	0.01094	0.02014	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Curium-248	0.00000211	pCi/g	U	U	0.005971	0.01554	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.02485	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Lead	10.4	mg/kg				0.848	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Mercury	0.00527	mg/kg	U			0.00527	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Neptunium-237	0.00308	pCi/g	U	U	0.006156	0.01133	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Pct-Uranium-235	57.92	wt %		J	0	0	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Plutonium-238	0.003072	pCi/g	U	U	0.006139	0.0113	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Plutonium-239/240	0.004605	pCi/g	U	UJ	0.005318	0.00416	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Plutonium-242	0.00307	pCi/g	U	U	0.007511	0.01424	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Plutonium-244	-0.003064	pCi/g	U	UJ	0.004333	0.01424	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Protactinium-231	2.872	pCi/g	U	U	7.595	11.83	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Protactinium-234m	17.21	pCi/g	U	U	33.46	44.8	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Selenium	1.27	mg/kg	U			1.27	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Silver	3.83	mg/kg	U			3.83	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Technetium-99	86	pCi/g		J	3.29	2.51	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Thorium-228	-0.007083	pCi/g	U	U	0.01327	0.02955	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Thorium-230	0.254	pCi/g		=	0.04365	0.02133	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Thorium-231	-1.852	pCi/g	U	U	6.864	9.335	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Thorium-232	0.001773	pCi/g	U	U	0.003546	0.004805	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Thorium-234	13.27	pCi/g	U	U	22.51	31.21	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Total Uranium	0.8771	µg/g		J	0	0.01777	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Uranium-232	-0.001679	pCi/g	U	U	0.005825	0.01562	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Uranium-233/234	23.51	pCi/g		J	0.4162	0.01355	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Uranium-235	1.098	pCi/g		J	0.09989	0.006159	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Uranium-235/234	135	%		J	0	0	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Uranium-236	0.1245	pCi/g		J	0.03187	0.00553	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3	SOLID	SZ	Uranium-238	0.132	pCi/g		=	0.0257	0.004982	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3B	LIQUID	NW	PCB-1016	0.00105	mg/kg	U			0.000351	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3B	LIQUID	NW	PCB-1221	0.00105	mg/kg	U			0.000351	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3B	LIQUID	NW	PCB-1232	0.00105	mg/kg	U			0.000351	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3B	LIQUID	NW	PCB-1242	0.00105	mg/kg	U			0.000351	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3B	LIQUID	NW	PCB-1248	0.00105	mg/kg	U			0.000351	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3B	LIQUID	NW	PCB-1254	0.00105	mg/kg	U			0.000351	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3B	LIQUID	NW	PCB-1260	0.00105	mg/kg	U			0.000351	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3B	LIQUID	NW	PCB-1268	0.00105	mg/kg	U			0.000351	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3B	LIQUID	NW	Polychlorinated biphenyl	0.00105	mg/kg	U			0.000351	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	1,2,4-Trichlorobenzene	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	1,2-Dichlorobenzene	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	1,2-Diphenylhydrazine	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	1,3-Dichlorobenzene	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	1,4-Dichlorobenzene	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2,4,5-Trichlorophenol	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2,4,6-Trichlorophenol	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2,4-Dichlorophenol	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2,4-Dinitrophenol	361	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2,4-Dinitrotoluene	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2,6-Dinitrotoluene	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2-Chloronaphthalene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2-Chlorophenol	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2-Methyl-4,6-dinitrophenol	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2-Methylphenol	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	2-Nitrophenol	180	µg/kg	U			54.1	15-Oct-13	REG	

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	4-Bromophenyl phenyl ether	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	4-Chloro-3-methylphenol	180	µg/kg	U			72.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	4-Chlorophenyl phenyl ether	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	4-Nitrophenol	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Acenaphthene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Acenaphthylene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Anthracene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Benz(a)anthracene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Benzo(a)pyrene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Benzo(b)fluoranthene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Benzo(ghi)perylene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Benzo(k)fluoranthene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Bis(2-chloroethoxy)methane	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Bis(2-chloroethyl) ether	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Bis(2-ethylhexyl)phthalate	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Butyl benzyl phthalate	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Chrysene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Dibenz(a,h)anthracene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Diethyl phthalate	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Di-n-butyl phthalate	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Di-n-octylphthalate	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Diphenylamine	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Fluoranthene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Fluorene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Hexachlorobenzene	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Hexachlorobutadiene	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Hexachlorocyclopentadiene	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Hexachloroethane	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Indeno(1,2,3-cd)pyrene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Isophorone	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	m,p-cresol	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Naphthalene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Nitrobenzene	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	N-Nitrosodimethylamine	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	N-Nitroso-di-n-propylamine	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Pentachlorophenol	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Phenanthrene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Phenol	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Pyrene	18	µg/kg	U			5.41	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3C	LIQUID	NW	Pyridine	180	µg/kg	U			54.1	15-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Americium-241	0.01264	pCi/g	U	U	0.01083	0.01328	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Americium-242m	0	pCi/g	U	U	0	0.004026	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Americium-243	0	pCi/g	U	U	0	0.004042	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Arsenic	1.3	mg/kg	B			1.06	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Barium	0.482	mg/kg	B			0.114	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Berkelium-247	4.181E-06	pCi/g	U	U	0.01183	0.03079	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Beryllium	0.385	mg/kg	B			0.152	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Cadmium	0.196	mg/kg	U			0.196	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.004898	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Californium-251	4.193E-06	pCi/g	U	U	0.01186	0.03088	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Cesium-137	-0.2142	pCi/g	U	U	0.1982	0.3158	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Chromium	3.35	mg/kg	U			3.35	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Cobalt-60	0.06442	pCi/g	U	U	0.1555	0.27	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Curium-243/244	0.002055	pCi/g	U	U	0.004109	0.005568	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Curium-245/246	0.001487	pCi/g	U	U	0.005145	0.01093	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Curium-247	0.01017	pCi/g	U	U	0.01244	0.01869	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Curium-248	0.007843	pCi/g	U	UJ	0.007843	0.005313	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.02237	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Lead	4.19	mg/kg	B			0.776	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Mercury	0.00482	mg/kg	U			0.00482	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Neptunium-237	0.00524	pCi/g	U	U	0.007807	0.01285	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Pct-Uranium-235	52.33	wt %		J	0	0	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Plutonium-238	-0.003479	pCi/g	U	U	0.00492	0.01616	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Plutonium-239/240	-0.001738	pCi/g	U	U	0.006028	0.01616	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Plutonium-242	0.001743	pCi/g	U	U	0.007776	0.01615	02-Oct-13	FD	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Plutonium-244	0.006958	pCi/g	U	UJ	0.006958	0.004714	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Protactinium-231	-3.528	pCi/g	U	U	7.338	10.83	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Protactinium-234m	9.321	pCi/g	U	U	30.15	40.96	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Selenium	1.16	mg/kg	U			1.16	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Silver	3.5	mg/kg	U			3.5	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Technetium-99	161	pCi/g		J	4.47	2.57	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Thorium-228	0.005431	pCi/g	U	UJ	0.006271	0.004904	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Thorium-230	0.2573	pCi/g		=	0.04378	0.01682	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Thorium-231	-3.711	pCi/g	U	U	6.344	8.514	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Thorium-232	-0.003613	pCi/g	U	U	0.00511	0.01679	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Thorium-234	-1.769	pCi/g	U	U	20.51	28.15	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Total Uranium	0.659	µg/g		J	0	0.0448	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Uranium-232	0.006374	pCi/g	U	UJ	0.006374	0.004318	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Uranium-233/234	17.96	pCi/g		J	0.3506	0.01259	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Uranium-235	0.7451	pCi/g		J	0.07954	0.01553	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Uranium-235/234	120	%		J	0	0	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Uranium-236	0.06065	pCi/g		J	0.0221	0.01395	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3D	SOLID	SZ	Uranium-238	0.111	pCi/g		=	0.02371	0.01256	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3E	LIQUID	NW	PCB-1016	0.00102	mg/kg	U			0.000338	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3E	LIQUID	NW	PCB-1221	0.00102	mg/kg	U			0.000338	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3E	LIQUID	NW	PCB-1232	0.00102	mg/kg	U			0.000338	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3E	LIQUID	NW	PCB-1242	0.00102	mg/kg	U			0.000338	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3E	LIQUID	NW	PCB-1248	0.00102	mg/kg	U			0.000338	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3E	LIQUID	NW	PCB-1254	0.00102	mg/kg	U			0.000338	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3E	LIQUID	NW	PCB-1260	0.00102	mg/kg	U			0.000338	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3E	LIQUID	NW	PCB-1268	0.00102	mg/kg	U			0.000338	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3E	LIQUID	NW	Polychlorinated biphenyl	0.00102	mg/kg	U			0.000338	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	1,2,4-Trichlorobenzene	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	1,2-Dichlorobenzene	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	1,2-Diphenylhydrazine	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	1,3-Dichlorobenzene	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	1,4-Dichlorobenzene	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2,4,5-Trichlorophenol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2,4,6-Trichlorophenol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2,4-Dichlorophenol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2,4-Dinitrophenol	357	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2,4-Dinitrotoluene	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2,6-Dinitrotoluene	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2-Chloronaphthalene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2-Chlorophenol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2-Methyl-4,6-dinitrophenol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2-Methylphenol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	2-Nitrophenol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	4-Bromophenyl phenyl ether	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	4-Chloro-3-methylphenol	179	µg/kg	U			71.4	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	4-Chlorophenyl phenyl ether	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	4-Nitrophenol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Acenaphthene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Acenaphthylene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Anthracene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Benz(a)anthracene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Benzo(a)pyrene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Benzo(b)fluoranthene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Benzo(ghi)perylene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Benzo(k)fluoranthene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Bis(2-chloroethoxy)methane	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Bis(2-chloroethyl) ether	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Bis(2-ethylhexyl)phthalate	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Butyl benzyl phthalate	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Chrysene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Dibenz(a,h)anthracene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Diethyl phthalate	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Di-n-butyl phthalate	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Di-n-octylphthalate	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Diphenylamine	179	µg/kg	U			53.6	15-Oct-13	FD	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Fluoranthene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Fluorene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Hexachlorobenzene	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Hexachlorobutadiene	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Hexachlorocyclopentadiene	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Hexachloroethane	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Indeno(1,2,3-cd)pyrene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Isophorone	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	m,p-cresol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Naphthalene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Nitrobenzene	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	N-Nitrosodimethylamine	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	N-Nitroso-di-n-propylamine	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Pentachlorophenol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Phenanthrene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Phenol	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Pyrene	17.9	µg/kg	U			5.36	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-3F	LIQUID	NW	Pyridine	179	µg/kg	U			53.6	15-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Americium-241	0.2835	pCi/sample	U	UJ	0.347	0.5213	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Americium-242m	0.0641	pCi/sample	U	U	0.286	0.5938	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Americium-243	0.06434	pCi/sample	U	U	0.2871	0.5961	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Berkelium-247	0	pCi/sample	U	U	0	0.4883	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Californium-249	0	pCi/sample	U	U	0	0.2109	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Californium-251	0	pCi/sample	U	U	0	0.4897	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Cesium-137	-5.217	pCi/sample	U	U	8.302	13.4	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Cobalt-60	-3.993	pCi/sample	U	U	6.819	11.34	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Curium-243/244	0	pCi/sample	U	U	0	0.2185	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Curium-245/246	-0.1278	pCi/sample	U	U	0.1807	0.5938	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Curium-247	0.00009963	pCi/sample	U	U	0.2819	0.7337	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Curium-248	0.07696	pCi/sample	U	U	0.1539	0.2086	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Curium-250	1.826	pCi/sample	U	UJ	3.651	0.9631	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Neptunium-237	0.1908	pCi/sample	U	UJ	0.2203	0.1723	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Pct-Uranium-235	63.49	wt %		J	0	0	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Plutonium-238	0.2536	pCi/sample	U	UJ	0.2536	0.1718	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Plutonium-239/240	0.1268	pCi/sample	U	U	0.1793	0.1718	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Plutonium-242	0.06341	pCi/sample	U	U	0.2194	0.4661	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Plutonium-244	0.06334	pCi/sample	U	U	0.1267	0.1717	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Protactinium-231	-39.45	pCi/sample	U	U	280.9	454.9	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Protactinium-234m	1267	pCi/sample	U	U	1357	1700	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Technetium-99	9250	pCi/sample		J	136	36.8	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Thorium-228	-0.2053	pCi/sample	U	U	0.3625	0.8978	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Thorium-230	6.312	pCi/sample		J	1.316	0.1859	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Thorium-231	-37.51	pCi/sample	U	U	262.2	359	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Thorium-232	0.06848	pCi/sample	U	U	0.137	0.1856	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Thorium-234	-351.3	pCi/sample	U	U	854.1	1165	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Total Uranium	75.38	µg/sample		J	0	2.153	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Uranium-232	0.00006421	pCi/sample	U	U	0.1817	0.4729	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Uranium-233/234	2121	pCi/sample		=	26.46	0.8877	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Uranium-235	103.4	pCi/sample		J	6.495	0.7489	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Uranium-235/234	141	%		J	0	0	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Uranium-236	18.83	pCi/sample		J	2.623	0.2477	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4	WIPE	SW	Uranium-238	10	pCi/sample		J	1.447	0.6058	02-Oct-13	REG	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Americium-241	1.16	pCi/sample		UJ	0.615	0.5333	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Americium-242m	0.06063	pCi/sample	U	U	0.1213	0.1643	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Americium-243	0.06086	pCi/sample	U	U	0.1217	0.1649	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Berkelium-247	0.1708	pCi/sample	U	U	0.3416	0.4628	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Californium-249	0	pCi/sample	U	U	0	0.1999	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Californium-251	0.1713	pCi/sample	U	U	0.3425	0.4641	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Cesium-137	-10.08	pCi/sample	U	U	8.251	13.09	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Cobalt-60	-4.203	pCi/sample	U	U	6.609	10.97	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Curium-243/244	0.08259	pCi/sample	U	U	0.2857	0.607	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Curium-245/246	0	pCi/sample	U	U	0	0.1643	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Curium-247	0.4081	pCi/sample	U	UJ	0.4081	0.2765	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Curium-248	0.07874	pCi/sample	U	U	0.1575	0.2134	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Curium-250	1.733	pCi/sample	U	UJ	3.465	0.9128	02-Oct-13	FD	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Neptunium-237	0.127	pCi/sample	U	U	0.3587	0.6825	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Pct-Uranium-235	45.53	wt %		J	0	0	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Plutonium-238	0.06331	pCi/sample	U	U	0.219	0.4654	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Plutonium-239/240	-0.06319	pCi/sample	U	U	0.1264	0.4654	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Plutonium-242	0.4425	pCi/sample	U	U	0.4555	0.6799	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Plutonium-244	0.1264	pCi/sample	U	U	0.1787	0.1712	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Protactinium-231	-57.66	pCi/sample	U	U	285.6	458.3	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Protactinium-234m	1589	pCi/sample	U	UJ	617.4	1496	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Technetium-99	2340	pCi/sample		J	64.9	37.2	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Thorium-228	0.08389	pCi/sample	U	U	0.3743	0.7769	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Thorium-230	34.69	pCi/sample		J	3.41	0.2271	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Thorium-231	117.6	pCi/sample	U	U	263.8	362.1	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Thorium-232	0.00008357	pCi/sample	U	U	0.2365	0.6154	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Thorium-234	-6.721	pCi/sample	U	U	857.6	1183	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Total Uranium	85.7	µg/sample		J	0	1.019	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Uranium-232	0.1795	pCi/sample	U	UJ	0.2072	0.1621	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Uranium-233/234	2050	pCi/sample		=	25.99	0.2232	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Uranium-235	84.31	pCi/sample		J	5.86	0.7474	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Uranium-235/234	119	%		J	0	0	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Uranium-236	8.756	pCi/sample		J	1.806	0.6711	02-Oct-13	FD	
X326-25-4-2-2	B26CP2540202-4E	WIPE	SW	Uranium-238	16.3	pCi/sample		J	2.035	0.2227	02-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Americium-241	0.0226	pCi/g	U	U	0.03368	0.05543	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Americium-242m	-0.006662	pCi/g	U	U	0.01332	0.04907	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Americium-243	-0.006687	pCi/g	U	U	0.01337	0.04925	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Arsenic	0.00219	mg/L	U			0.00219	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Arsenic	15	mg/kg	B			9.14	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Barium	0.518	mg/L				0.000237	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Barium	0.989	mg/kg	U			0.989	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.05091	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Beryllium	1.32	mg/kg	U			1.32	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Cadmium	0.000406	mg/L	JU			0.000406	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Cadmium	1.69	mg/kg	U			1.69	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02199	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.05105	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Cesium-137	0.1586	pCi/g	U	U	0.9616	1.371	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Chromium	2.64	mg/L				0.00695	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Chromium	111	mg/kg	B			29	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Cobalt-60	0.08157	pCi/g	U	U	0.7028	1.204	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Curium-243/244	0.0343	pCi/g	U	UJ	0.0343	0.02324	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Curium-245/246	0.006669	pCi/g	U	U	0.01334	0.01807	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Curium-247	0.0000106	pCi/g	U	U	0.02998	0.07802	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Curium-248	0.0164	pCi/g	U	U	0.02315	0.02218	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1004	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Lead	0.036	mg/L				0.00161	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Lead	9.18	mg/kg	B			6.72	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Mercury	0.0247	mg/kg				0.0209	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Mercury	0.004	mg/L	U			0.004	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Neptunium-237	3.34	pCi/g		=	0.3127	0.07777	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Pct-Uranium-235	86.25	wt %		J	0	0	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Plutonium-238	0.04865	pCi/g	U	UJ	0.04608	0.0645	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Plutonium-239/240	0.1668	pCi/g		J	0.07352	0.0645	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Plutonium-242	0.02082	pCi/g	U	UJ	0.02404	0.01881	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.01881	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Protactinium-231	-16.62	pCi/g	U	U	32.91	48.04	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Protactinium-234m	102.2	pCi/g	U	U	137.7	179.8	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Selenium	0.00241	mg/L	U			0.00241	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Selenium	10.1	mg/kg	U			10.1	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Silver	0.00727	mg/L	U			0.00727	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Silver	30.3	mg/kg	U			30.3	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Technetium-99	130000	pCi/g		J	908	32.9	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Thorium-228	0.05876	pCi/g	U	U	0.08303	0.1362	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Thorium-230	33.83	pCi/g		J	1.411	0.1364	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Thorium-231	31.35	pCi/g	U	U	6.427	40.79	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Thorium-232	-0.01464	pCi/g	U	U	0.05078	0.1362	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Thorium-234	-2.932	pCi/g	U	U	95.05	134.3	10-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Total Uranium	26.37	µg/g		J	0	0.07858	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Uranium-232	0.05646	pCi/g		UJ	0.03993	0.01913	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Uranium-233/234	1256	pCi/g		J	6.398	0.02209	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Uranium-235	49.15	pCi/g		J	1.406	0.02724	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Uranium-235/234	113	%		J	0	0	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Uranium-236	3.457	pCi/g		J	0.3533	0.02446	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1	SOLID	SZ	Uranium-238	1.59	pCi/g		J	0.1369	0.02204	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1B	LIQUID	NW	PCB-1016	0.012	mg/kg	U			0.00401	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1B	LIQUID	NW	PCB-1221	0.012	mg/kg	U			0.00401	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1B	LIQUID	NW	PCB-1232	0.012	mg/kg	U			0.00401	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1B	LIQUID	NW	PCB-1242	0.012	mg/kg	U			0.00401	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1B	LIQUID	NW	PCB-1248	0.012	mg/kg	U			0.00401	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1B	LIQUID	NW	PCB-1254	0.012	mg/kg	U			0.00401	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1B	LIQUID	NW	PCB-1260	0.012	mg/kg	U			0.00401	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1B	LIQUID	NW	PCB-1268	0.012	mg/kg	U			0.00401	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1B	LIQUID	NW	Polychlorinated biphenyl	0.012	mg/kg	U			0.00401	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	1,2,4-Trichlorobenzene	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	1,2-Dichlorobenzene	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	1,2-Diphenylhydrazine	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	1,3-Dichlorobenzene	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	1,4-Dichlorobenzene	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2,4,5-Trichlorophenol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2,4,6-Trichlorophenol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2,4-Dichlorophenol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2,4-Dinitrophenol	3100	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2,4-Dinitrotoluene	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2,6-Dinitrotoluene	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2-Chloronaphthalene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2-Chlorophenol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2-Methyl-4,6-dinitrophenol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2-Methylphenol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	2-Nitrophenol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	4-Bromophenyl phenyl ether	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	4-Chloro-3-methylphenol	1550	µg/kg	U			620	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	4-Chlorophenyl phenyl ether	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	4-Nitrophenol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Acenaphthene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Acenaphthylene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Anthracene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Benz(a)anthracene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Benzo(a)pyrene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Benzo(b)fluoranthene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Benzo(ghi)perylene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Benzo(k)fluoranthene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Bis(2-chloroethoxy)methane	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Bis(2-chloroethyl) ether	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Bis(2-ethylhexyl)phthalate	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Butyl benzyl phthalate	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Chrysene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Dibenz(a,h)anthracene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Diethyl phthalate	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Di-n-butyl phthalate	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Di-n-octylphthalate	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Diphenylamine	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Fluoranthene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Fluorene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Hexachlorobenzene	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Hexachlorobutadiene	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Hexachlorocyclopentadiene	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Hexachloroethane	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Indeno(1,2,3-cd)pyrene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Isophorone	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	m,p-cresol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Naphthalene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Nitrobenzene	1550	µg/kg	U			465	22-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	N-Nitrosodimethylamine	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	N-Nitroso-di-n-propylamine	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Pentachlorophenol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Phenanthrene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Phenol	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Pyrene	155	µg/kg	U			46.5	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1C	LIQUID	NW	Pyridine	1550	µg/kg	U			465	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	1,2-Diphenylhydrazine	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	1,4-Dichlorobenzene	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	2,4,5-Trichlorophenol	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	2,4,6-Trichlorophenol	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	2,4-Dinitrophenol	0.0556	mg/L	U			0.0139	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	2,4-Dinitrotoluene	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	2,6-Dinitrotoluene	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	2-Methyl-4,6-dinitrophenol	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	2-Methylphenol	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Acenaphthene	0.00278	mg/L	U			0.000833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Acenaphthylene	0.00278	mg/L	U			0.000833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Anthracene	0.00278	mg/L	U			0.000833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Benz(a)anthracene	0.00278	mg/L	U			0.000833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Benzo(a)pyrene	0.00278	mg/L	U			0.000833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Benzo(ghi)perylene	0.00278	mg/L	U			0.000833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Benzo(k)fluoranthene	0.00278	mg/L	U			0.000833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Di-n-octylphthalate	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Fluoranthene	0.00278	mg/L	U			0.000833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Fluorene	0.00278	mg/L	U			0.000833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Hexachlorobenzene	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Hexachlorobutadiene	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Hexachloroethane	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	m,p-cresol	0.0278	mg/L	U			0.0103	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Pentachlorophenol	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1D	LIQUID	NW	Pyridine	0.0278	mg/L	U			0.00833	22-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Americium-241	0.1314	pCi/g		UJ	0.06569	0.02225	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Americium-242m	0.03721	pCi/g		UJ	0.03328	0.02017	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Americium-243	0.03735	pCi/g		UJ	0.0334	0.02024	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Arsenic	0.00219	mg/L	U			0.00219	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Arsenic	12.2	mg/kg	B			10.2	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Barium	0.311	mg/L				0.000237	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Barium	1.11	mg/kg	U			1.11	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.0568	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Beryllium	1.48	mg/kg	U			1.48	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Cadmium	0.0013	mg/L	BJ			0.000406	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Cadmium	1.9	mg/kg	U			1.9	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Californium-249	0.0181	pCi/g	U	U	0.0256	0.02453	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Californium-251	0.04204	pCi/g	U	U	0.05945	0.05696	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Cesium-137	-0.7397	pCi/g	U	U	0.981	1.578	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Chromium	2.92	mg/L				0.00695	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Chromium	127	mg/kg	B			32.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Cobalt-60	0.35	pCi/g	U	U	0.7886	1.368	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Curium-243/244	0.05609	pCi/g	U	U	0.05287	0.06877	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Curium-245/246	0.02232	pCi/g	U	UJ	0.02578	0.02017	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Curium-247	-0.01155	pCi/g	U	U	0.02309	0.08504	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Curium-248	0.06244	pCi/g	JU	UJ	0.0472	0.02417	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Curium-250	0.431	pCi/g	U	UJ	0.6095	0.112	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Lead	0.0343	mg/L				0.00161	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Lead	7.52	mg/kg	U			7.52	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Mercury	0.0234	mg/kg	U			0.0234	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Mercury	0.004	mg/L	U			0.004	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Neptunium-237	3.12	pCi/g		=	0.3069	0.08896	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Pct-Uranium-235	83.49	wt %		J	0	0	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Plutonium-238	0.2128	pCi/g		J	0.07903	0.01989	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Plutonium-239/240	0.9466	pCi/g		J	0.168	0.05399	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Plutonium-242	7.324E-06	pCi/g	U	U	0.02072	0.05394	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Plutonium-244	7.324E-06	pCi/g	U	U	0.02072	0.05394	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Protactinium-231	-13.21	pCi/g	U	U	34.94	53.67	10-Oct-13	FD	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Protactinium-234m	189.3	pCi/g	U	UJ	74.04	171.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Selenium	0.00241	mg/L	U			0.00241	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Selenium	11.3	mg/kg	U			11.3	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Silver	0.00727	mg/L	U			0.00727	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Silver	34	mg/kg	U			34	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Technetium-99	153000	pCi/g		J	1070	37.9	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Thorium-228	0.1693	pCi/g		UJ	0.09051	0.03277	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Thorium-230	66.28	pCi/g		J	1.792	0.08907	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Thorium-231	76.65	pCi/g		UJ	10.72	47.19	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Thorium-232	0.01211	pCi/g	U	U	0.05402	0.1122	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Thorium-234	-20.86	pCi/g	U	U	107.4	151.8	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Total Uranium	44.24	µg/g		J	0	0.124	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Uranium-232	0.1109	pCi/g		UJ	0.0709	0.08876	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Uranium-233/234	1961	pCi/g		J	8.893	0.09362	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Uranium-235	79.81	pCi/g		J	1.993	0.09154	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Uranium-235/234	118	%		J	0	0	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Uranium-236	7.864	pCi/g		J	0.5928	0.03027	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1E	SOLID	SZ	Uranium-238	3.05	pCi/g		J	0.222	0.02728	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1F	LIQUID	NW	PCB-1016	0.00599	mg/kg	U			0.00199	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1F	LIQUID	NW	PCB-1221	0.00599	mg/kg	U			0.00199	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1F	LIQUID	NW	PCB-1232	0.00599	mg/kg	U			0.00199	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1F	LIQUID	NW	PCB-1242	0.00599	mg/kg	U			0.00199	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1F	LIQUID	NW	PCB-1248	0.00599	mg/kg	U			0.00199	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1F	LIQUID	NW	PCB-1254	0.00599	mg/kg	U			0.00199	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1F	LIQUID	NW	PCB-1260	0.00599	mg/kg	U			0.00199	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1F	LIQUID	NW	PCB-1268	0.00599	mg/kg	U			0.00199	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1F	LIQUID	NW	Polychlorinated biphenyl	0.00599	mg/kg	U			0.00199	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	1,2,4-Trichlorobenzene	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	1,2-Dichlorobenzene	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	1,2-Diphenylhydrazine	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	1,3-Dichlorobenzene	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	1,4-Dichlorobenzene	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2,4,5-Trichlorophenol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2,4,6-Trichlorophenol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2,4-Dichlorophenol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2,4-Dinitrophenol	4440	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2,4-Dinitrotoluene	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2,6-Dinitrotoluene	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2-Chloronaphthalene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2-Chlorophenol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2-Methyl-4,6-dinitrophenol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2-Methylphenol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	2-Nitrophenol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	4-Bromophenyl phenyl ether	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	4-Chloro-3-methylphenol	2220	µg/kg	U			889	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	4-Chlorophenyl phenyl ether	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	4-Nitrophenol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Acenaphthene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Acenaphthylene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Anthracene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Benz(a)anthracene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Benzo(a)pyrene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Benzo(b)fluoranthene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Benzo(ghi)perylene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Benzo(k)fluoranthene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Bis(2-chloroethoxy)methane	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Bis(2-chloroethyl) ether	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Bis(2-ethylhexyl)phthalate	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Butyl benzyl phthalate	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Chrysene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Dibenz(a,h)anthracene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Diethyl phthalate	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Di-n-butyl phthalate	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Di-n-octylphthalate	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Diphenylamine	2220	µg/kg	U			667	22-Oct-13	FD	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Fluoranthene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Fluorene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Hexachlorobenzene	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Hexachlorobutadiene	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Hexachlorocyclopentadiene	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Hexachloroethane	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Indeno(1,2,3-cd)pyrene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Isophorone	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	m,p-cresol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Naphthalene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Nitrobenzene	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	N-Nitrosodimethylamine	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	N-Nitroso-di-n-propylamine	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Pentachlorophenol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Phenanthrene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Phenol	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Pyrene	222	µg/kg	U			66.7	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1G	LIQUID	NW	Pyridine	2220	µg/kg	U			667	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	1,2-Diphenylhydrazine	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	1,4-Dichlorobenzene	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	2,4,5-Trichlorophenol	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	2,4,6-Trichlorophenol	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	2,4-Dinitrophenol	0.0513	mg/L	U			0.0128	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	2,4-Dinitrotoluene	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	2,6-Dinitrotoluene	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	2-Methyl-4,6-dinitrophenol	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	2-Methylphenol	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Acenaphthene	0.00256	mg/L	U			0.000769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Acenaphthylene	0.00256	mg/L	U			0.000769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Anthracene	0.00256	mg/L	U			0.000769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Benz(a)anthracene	0.00256	mg/L	U			0.000769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Benzo(a)pyrene	0.00256	mg/L	U			0.000769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Benzo(ghi)perylene	0.00256	mg/L	U			0.000769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Benzo(k)fluoranthene	0.00256	mg/L	U			0.000769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Di-n-octylphthalate	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Fluoranthene	0.00256	mg/L	U			0.000769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Fluorene	0.00256	mg/L	U			0.000769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Hexachlorobenzene	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Hexachlorobutadiene	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Hexachloroethane	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	m,p-cresol	0.0256	mg/L	U			0.00949	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Pentachlorophenol	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-1H	LIQUID	NW	Pyridine	0.0256	mg/L	U			0.00769	22-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Americium-241	0.01279	pCi/g	U	UJ	0.01279	0.008665	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Americium-242m	0.005338	pCi/g	U	U	0.007549	0.007233	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Americium-243	0.005358	pCi/g	U	U	0.007578	0.00726	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Arsenic	0.714	mg/kg	U			0.714	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Barium	0.0772	mg/kg	U			0.0772	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02037	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Beryllium	0.103	mg/kg	U			0.103	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Cadmium	0.132	mg/kg	U			0.132	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.008799	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.02043	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Cesium-137	-0.1434	pCi/g	U	U	0.1331	0.212	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Chromium	33.4	mg/kg				2.27	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Cobalt-60	0.0264	pCi/g	U	U	0.1104	0.19	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.009863	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Curium-245/246	0	pCi/g	U	U	0	0.007233	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.0122	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Curium-248	0.003473	pCi/g	U	U	0.006947	0.009413	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Curium-250	0.1548	pCi/g	U	UJ	0.2189	0.04018	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Lead	5.9	mg/kg				0.525	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Mercury	0.00326	mg/kg	U			0.00326	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Neptunium-237	-0.002776	pCi/g	U	U	0.005552	0.02044	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Pct-Uranium-235	43.16	wt %		J	0	0	10-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Plutonium-238	0.002771	pCi/g	U	U	0.005542	0.007509	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Plutonium-239/240	2.768E-06	pCi/g	U	U	0.007833	0.02039	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Plutonium-242	-0.002765	pCi/g	U	U	0.005531	0.02037	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Plutonium-244	-0.002763	pCi/g	U	U	0.009583	0.0257	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Protactinium-231	-0.07453	pCi/g	U	U	4.52	7.389	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Protactinium-234m	16.1	pCi/g	U	U	21.52	28.05	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Selenium	0.785	mg/kg	U			0.785	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Silver	2.37	mg/kg	U			2.37	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Technetium-99	69.2	pCi/g		J	2.28	1.49	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Thorium-228	6.386E-06	pCi/g	U	U	0.01278	0.02966	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Thorium-230	0.2175	pCi/g		=	0.05275	0.008668	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Thorium-231	-1.496	pCi/g	U	U	4.241	5.743	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Thorium-232	0.003196	pCi/g	U	U	0.01106	0.02349	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Thorium-234	-2.661	pCi/g	U	U	13.76	18.78	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Total Uranium	0.04503	µg/g		J	0	0.02736	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Uranium-232	-0.005012	pCi/g	U	U	0.007088	0.02329	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Uranium-233/234	0.8171	pCi/g		=	0.0963	0.007689	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Uranium-235	0.042	pCi/g		UJ	0.02425	0.009485	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Uranium-235/234	149	%		J	0	0	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Uranium-236	0.003143	pCi/g	U	UJ	0.006285	0.008516	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2	SOLID	SZ	Uranium-238	0.01133	pCi/g	U	UJ	0.01133	0.007673	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2B	SOLID	SZ	PCB-1016	0.00274	mg/kg	U	U		0.000912	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2B	SOLID	SZ	PCB-1221	0.00274	mg/kg	U	U		0.000912	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2B	SOLID	SZ	PCB-1232	0.00274	mg/kg	U	U		0.000912	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2B	SOLID	SZ	PCB-1242	0.00274	mg/kg	U	U		0.000912	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2B	SOLID	SZ	PCB-1248	0.00274	mg/kg	U	U		0.000912	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2B	SOLID	SZ	PCB-1254	0.00865	mg/kg		J		0.000912	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2B	SOLID	SZ	PCB-1260	0.0045	mg/kg		J		0.000912	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2B	SOLID	SZ	PCB-1268	0.00274	mg/kg	U	U		0.000912	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2B	SOLID	SZ	Polychlorinated biphenyl	0.0131	mg/kg		J		0.000912	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	1,2,4-Trichlorobenzene	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	1,2-Dichlorobenzene	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	1,2-Diphenylhydrazine	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	1,3-Dichlorobenzene	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	1,4-Dichlorobenzene	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2,4,5-Trichlorophenol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2,4,6-Trichlorophenol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2,4-Dichlorophenol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2,4-Dinitrophenol	109	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2,4-Dinitrotoluene	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2,6-Dinitrotoluene	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2-Chloronaphthalene	5.47	µg/kg	U	U		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2-Chlorophenol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2-Methyl-4,6-dinitrophenol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2-Methylphenol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	2-Nitrophenol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	4-Bromophenyl phenyl ether	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	4-Chloro-3-methylphenol	54.7	µg/kg	U	U		21.9	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	4-Chlorophenyl phenyl ether	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	4-Nitrophenol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Acenaphthene	5.47	µg/kg	U	U		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Acenaphthylene	5.47	µg/kg	U	U		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Anthracene	5.47	µg/kg	U	U		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Benz(a)anthracene	9.46	µg/kg	J	J		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Benzo(a)pyrene	16.1	µg/kg		J		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Benzo(b)fluoranthene	50.7	µg/kg	J	J		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Benzo(ghi)perylene	26.8	µg/kg		J		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Benzo(k)fluoranthene	16.1	µg/kg		J		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Bis(2-chloroethoxy)methane	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Bis(2-chloroethyl) ether	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Bis(2-ethylhexyl)phthalate	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Butyl benzyl phthalate	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Chrysene	13.1	µg/kg	J	J		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Dibenz(a,h)anthracene	5.47	µg/kg	U	U		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Diethyl phthalate	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Di-n-butyl phthalate	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Di-n-octylphthalate	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Diphenylamine	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Fluoranthene	6.12	µg/kg	J	J		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Fluorene	5.47	µg/kg	U	U		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Hexachlorobenzene	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Hexachlorobutadiene	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Hexachlorocyclopentadiene	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Hexachloroethane	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Indeno(1,2,3-cd)pyrene	27.6	µg/kg	J	J		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Isophorone	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	m,p-cresol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Naphthalene	5.47	µg/kg	U	U		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Nitrobenzene	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	N-Nitrosodimethylamine	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	N-Nitroso-di-n-propylamine	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Pentachlorophenol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Phenanthrene	5.47	µg/kg	U	UJ		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Phenol	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Pyrene	7.76	µg/kg	J	J		1.64	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2C	SOLID	SZ	Pyridine	54.7	µg/kg	U	U		16.4	10-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Americium-241	0.02001	pCi/g	U	U	0.01715	0.02103	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Americium-242m	2.543E-06	pCi/g	U	U	0.007196	0.01873	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Americium-243	2.553E-06	pCi/g	U	U	0.007223	0.0188	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Arsenic	0.705	mg/kg	U			0.705	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Barium	0.0763	mg/kg	U			0.0763	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Berkelium-247	0.00717	pCi/g	U	U	0.01434	0.01943	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Beryllium	0.225	mg/kg	B			0.102	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Cadmium	0.131	mg/kg	U			0.131	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.008392	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Californium-251	0.00719	pCi/g	U	U	0.01438	0.01949	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Cesium-137	-0.1266	pCi/g	U	U	0.1345	0.2152	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Chromium	36.5	mg/kg				2.24	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Cobalt-60	-0.02562	pCi/g	U	U	0.1114	0.188	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Curium-243/244	0.003254	pCi/g	U	U	0.006508	0.008818	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Curium-245/246	0.002545	pCi/g	U	U	0.005091	0.006898	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Curium-247	-0.00402	pCi/g	U	U	0.008039	0.02961	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Curium-248	0.003105	pCi/g	U	U	0.006211	0.008415	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Curium-250	-0.07382	pCi/g	U	U	0.1476	0.104	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Lead	6.08	mg/kg				0.518	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Mercury	0.00322	mg/kg	U			0.00322	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Neptunium-237	0.002438	pCi/g	U	U	0.004876	0.006607	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Pct-Uranium-235	42.53	wt %	U	J	0	0	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Plutonium-238	0.004862	pCi/g	U	U	0.006876	0.006588	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Plutonium-239/240	0.02188	pCi/g		UJ	0.01459	0.006588	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Plutonium-242	0.007291	pCi/g	U	U	0.01285	0.02254	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Plutonium-244	0.002429	pCi/g	U	U	0.004857	0.006582	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Protactinium-231	-2.249	pCi/g	U	U	4.918	7.335	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Protactinium-234m	5.608	pCi/g	U	U	19.78	26.69	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Selenium	0.776	mg/kg	U			0.776	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Silver	2.34	mg/kg	U			2.34	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Technetium-99	81.6	pCi/g		J	2.45	1.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Thorium-228	0.002971	pCi/g	U	U	0.01775	0.03552	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Thorium-230	0.1985	pCi/g		J	0.0513	0.03556	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Thorium-231	-4.778	pCi/g	U	U	4.369	5.643	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Thorium-232	0.005914	pCi/g	U	U	0.008363	0.008013	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Thorium-234	-0.8321	pCi/g	U	U	13.72	18.86	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Total Uranium	0.02183	µg/g	U	UJ	0	0.02613	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Uranium-232	-0.01079	pCi/g	U	U	0.01527	0.03808	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Uranium-233/234	0.7887	pCi/g		=	0.09247	0.007345	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Uranium-235	0.02006	pCi/g		UJ	0.01638	0.009061	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Uranium-235/234	73.5	%		J	0	0	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Uranium-236	0.01801	pCi/g		UJ	0.01471	0.008136	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2D	SOLID	SZ	Uranium-238	0.00541	pCi/g	U	U	0.007651	0.00733	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2E	SOLID	SZ	PCB-1016	0.000546	mg/kg	U	U		0.000182	10-Oct-13	FD	

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-2E	SOLID	SZ	PCB-1221	0.000546	mg/kg	U	U		0.000182	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2E	SOLID	SZ	PCB-1232	0.000546	mg/kg	U	U		0.000182	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2E	SOLID	SZ	PCB-1242	0.000546	mg/kg	U	U		0.000182	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2E	SOLID	SZ	PCB-1248	0.000546	mg/kg	U	U		0.000182	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2E	SOLID	SZ	PCB-1254	0.00409	mg/kg		J		0.000182	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2E	SOLID	SZ	PCB-1260	0.00208	mg/kg		J		0.000182	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2E	SOLID	SZ	PCB-1268	0.000546	mg/kg	U	U		0.000182	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2E	SOLID	SZ	Polychlorinated biphenyl	0.00618	mg/kg		J		0.000182	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	1,2,4-Trichlorobenzene	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	1,2-Dichlorobenzene	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	1,2-Diphenylhydrazine	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	1,3-Dichlorobenzene	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	1,4-Dichlorobenzene	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2,4,5-Trichlorophenol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2,4,6-Trichlorophenol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2,4-Dichlorophenol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2,4-Dinitrophenol	110	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2,4-Dinitrotoluene	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2,6-Dinitrotoluene	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2-Chloronaphthalene	5.51	µg/kg	U	U		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2-Chlorophenol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2-Methyl-4,6-dinitrophenol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2-Methylphenol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	2-Nitrophenol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	4-Bromophenyl phenyl ether	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	4-Chloro-3-methylphenol	55.1	µg/kg	U	U		22	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	4-Chlorophenyl phenyl ether	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	4-Nitrophenol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Acenaphthene	5.51	µg/kg	U	U		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Acenaphthylene	5.51	µg/kg	U	U		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Anthracene	5.51	µg/kg	U	U		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Benz(a)anthracene	113	µg/kg		=		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Benzo(a)pyrene	119	µg/kg		=		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Benzo(b)fluoranthene	356	µg/kg	J	J		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Benzo(ghi)perylene	143	µg/kg		=		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Benzo(k)fluoranthene	121	µg/kg		=		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Bis(2-chloroethoxy)methane	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Bis(2-chloroethyl) ether	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Bis(2-ethylhexyl)phthalate	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Butyl benzyl phthalate	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Chrysene	207	µg/kg	J	J		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Dibenz(a,h)anthracene	5.51	µg/kg	U	U		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Diethyl phthalate	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Di-n-butyl phthalate	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Di-n-octylphthalate	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Diphenylamine	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Fluoranthene	137	µg/kg		=		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Fluorene	5.51	µg/kg	U	U		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Hexachlorobenzene	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Hexachlorobutadiene	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Hexachlorocyclopentadiene	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Hexachloroethane	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Indeno(1,2,3-cd)pyrene	153	µg/kg	J	J		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Isophorone	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	m,p-cresol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Naphthalene	5.51	µg/kg	U	U		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Nitrobenzene	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	N-Nitrosodimethylamine	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	N-Nitroso-di-n-propylamine	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Pentachlorophenol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Phenanthrene	12.1	µg/kg	J	J		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Phenol	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Pyrene	162	µg/kg	J	J		1.65	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-2F	SOLID	SZ	Pyridine	55.1	µg/kg	U	U		16.5	10-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Americium-241	0.006803	pCi/g	U	U	0.009621	0.009219	07-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Americium-242m	-0.003073	pCi/g	U	U	0.01378	0.03317	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Americium-243	-0.003085	pCi/g	U	U	0.01383	0.0333	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Arsenic	0.856	mg/kg	U			0.856	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Barium	0.0926	mg/kg	U			0.0926	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02353	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Beryllium	0.123	mg/kg	U			0.123	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Cadmium	0.159	mg/kg	U			0.159	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Californium-249	0.00375	pCi/g	U	U	0.0075	0.01016	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.0236	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Cesium-137	-0.2179	pCi/g	U	U	0.1587	0.2505	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Chromium	35.4	mg/kg				2.72	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Cobalt-60	0.05469	pCi/g	U	U	0.1288	0.2236	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.01049	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Curium-245/246	-0.006153	pCi/g	U	U	0.01509	0.03701	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Curium-247	0.004793	pCi/g	U	U	0.01658	0.03523	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Curium-248	0.003695	pCi/g	U	U	0.007391	0.01001	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Curium-250	0.00008851	pCi/g	U	U	0.2505	0.126	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Lead	7.46	mg/kg				0.629	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Mercury	0.00589	mg/kg				0.00391	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Neptunium-237	0.006919	pCi/g	U	UJ	0.009785	0.009375	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Pct-Uranium-235	71.64	wt %		J	0	0	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Plutonium-238	0.006903	pCi/g	U	U	0.0138	0.02538	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Plutonium-239/240	0.00345	pCi/g	U	U	0.006899	0.009349	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Plutonium-242	0.003457	pCi/g	U	U	0.01823	0.03708	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Plutonium-244	0.003446	pCi/g	U	U	0.006892	0.009339	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Protactinium-231	-1.598	pCi/g	U	U	5.632	8.888	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Protactinium-234m	22.77	pCi/g	U	U	26.42	33.76	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Selenium	0.942	mg/kg	U			0.942	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Silver	2.84	mg/kg	U			2.84	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Technetium-99	125	pCi/g		J	3.25	1.75	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Thorium-228	0.00354	pCi/g	U	U	0.02114	0.04231	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Thorium-230	2.936	pCi/g		J	0.2038	0.02596	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Thorium-231	-1.026	pCi/g	U	U	5.083	6.926	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Thorium-232	0.003526	pCi/g	U	U	0.0122	0.02592	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Thorium-234	0.2874	pCi/g	U	U	16.5	22.61	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Total Uranium	0.4873	µg/g		J	0	0.04079	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Uranium-232	0.005844	pCi/g	U	U	0.008265	0.007919	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Uranium-233/234	16.19	pCi/g		J	0.4614	0.008909	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Uranium-235	0.7543	pCi/g		J	0.1112	0.02984	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Uranium-235/234	135	%		J	0	0	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Uranium-236	0.08376	pCi/g		J	0.03784	0.0338	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5	SOLID	SZ	Uranium-238	0.0521	pCi/g		=	0.01937	0.008891	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5B	SOLID	SZ	PCB-1016	0.00347	mg/kg	U	U		0.00115	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5B	SOLID	SZ	PCB-1221	0.00347	mg/kg	U	U		0.00115	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5B	SOLID	SZ	PCB-1232	0.00347	mg/kg	U	U		0.00115	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5B	SOLID	SZ	PCB-1242	0.00347	mg/kg	U	U		0.00115	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5B	SOLID	SZ	PCB-1248	0.00347	mg/kg	U	U		0.00115	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5B	SOLID	SZ	PCB-1254	0.00347	mg/kg	U	U		0.00115	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5B	SOLID	SZ	PCB-1260	0.00347	mg/kg	U	U		0.00115	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5B	SOLID	SZ	PCB-1268	0.00347	mg/kg	U	U		0.00115	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5B	SOLID	SZ	Polychlorinated biphenyl	0.00347	mg/kg	U	U		0.00115	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	1,2,4-Trichlorobenzene	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	1,2-Dichlorobenzene	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	1,2-Diphenylhydrazine	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	1,3-Dichlorobenzene	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	1,4-Dichlorobenzene	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2,4,5-Trichlorophenol	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2,4,6-Trichlorophenol	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2,4-Dichlorophenol	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2,4-Dinitrophenol	134	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2,4-Dinitrotoluene	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2,6-Dinitrotoluene	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2-Chloronaphthalene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2-Chlorophenol	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2-Methyl-4,6-dinitrophenol	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2-Methylphenol	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	2-Nitrophenol	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	4-Bromophenyl phenyl ether	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	4-Chloro-3-methylphenol	67.1	µg/kg	U	U		26.8	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	4-Chlorophenyl phenyl ether	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	4-Nitrophenol	67.1	µg/kg	U	UJ		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Acenaphthene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Acenaphthylene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Anthracene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Benz(a)anthracene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Benzo(a)pyrene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Benzo(b)fluoranthene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Benzo(ghi)perylene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Benzo(k)fluoranthene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Bis(2-chloroethoxy)methane	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Bis(2-chloroethyl) ether	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Bis(2-ethylhexyl)phthalate	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Butyl benzyl phthalate	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Chrysene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Dibenz(a,h)anthracene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Diethyl phthalate	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Di-n-butyl phthalate	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Di-n-octylphthalate	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Diphenylamine	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Fluoranthene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Fluorene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Hexachlorobenzene	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Hexachlorobutadiene	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Hexachlorocyclopentadiene	67.1	µg/kg	U	UJ		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Hexachloroethane	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Indeno(1,2,3-cd)pyrene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Isophorone	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	m,p-cresol	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Naphthalene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Nitrobenzene	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	N-Nitrosodimethylamine	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	N-Nitroso-di-n-propylamine	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Pentachlorophenol	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Phenanthrene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Phenol	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Pyrene	6.71	µg/kg	U	U		2.01	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5C	SOLID	SZ	Pyridine	67.1	µg/kg	U	U		20.1	07-Oct-13	REG	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Americium-241	-0.003696	pCi/g	U	U	0.02227	0.04866	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Americium-242m	0	pCi/g	U	U	0	0.009064	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Americium-243	0	pCi/g	U	U	0	0.009099	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Arsenic	0.894	mg/kg	U			0.894	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Barium	0.0967	mg/kg	U			0.0967	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Berkelium-247	0.009422	pCi/g	U	U	0.01884	0.02553	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Beryllium	0.129	mg/kg	U			0.129	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Cadmium	0.166	mg/kg	U			0.166	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01103	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Californium-251	0.009448	pCi/g	U	U	0.0189	0.0256	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Cesium-137	-0.09766	pCi/g	U	U	0.1706	0.2759	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Chromium	35.7	mg/kg				2.84	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Cobalt-60	-0.1137	pCi/g	U	U	0.1424	0.2347	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Curium-243/244	8.448E-06	pCi/g	U	U	0.0169	0.03924	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Curium-245/246	-0.003341	pCi/g	U	U	0.006683	0.02461	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Curium-247	0.01569	pCi/g	U	U	0.02338	0.03847	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Curium-248	0.008073	pCi/g	U	U	0.01613	0.02969	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.05036	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Lead	7.47	mg/kg				0.657	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Mercury	0.00408	mg/kg	U			0.00408	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Neptunium-237	0.855	pCi/g		J	0.1067	0.02429	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Pct-Uranium-235	92.71	wt %		J	0	0	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Plutonium-238	0.00001173	pCi/g	U	U	0.01916	0.0421	07-Oct-13	FD	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Plutonium-239/240	0.007825	pCi/g	U	U	0.01107	0.0106	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Plutonium-242	0.003913	pCi/g	U	U	0.01354	0.02876	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Plutonium-244	0.003913	pCi/g	U	U	0.01354	0.02876	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Protactinium-231	-4.496	pCi/g	U	U	6.935	9.299	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Protactinium-234m	3.545	pCi/g	U	U	24.81	33.46	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Selenium	0.983	mg/kg	U			0.983	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Silver	2.97	mg/kg	U			2.97	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Technetium-99	3910	pCi/g		J	27.4	2.81	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Thorium-228	3.267E-06	pCi/g	U	U	0.009245	0.02405	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Thorium-230	2.285	pCi/g		J	0.1734	0.03038	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Thorium-231	-2.715	pCi/g	U	U	5.492	7.483	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Thorium-232	0.003267	pCi/g	U	U	0.006534	0.008854	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Thorium-234	-2.021	pCi/g	U	U	17.55	24.17	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Total Uranium	1.921	µg/g		J	0	0.03291	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Uranium-232	0.00000318	pCi/g	U	U	0.008999	0.02342	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Uranium-233/234	76.17	pCi/g		J	1.02	0.02511	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Uranium-235	3.848	pCi/g		J	0.2545	0.01141	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Uranium-235/234	146	%		J	0	0	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Uranium-236	0.3326	pCi/g		J	0.07092	0.01024	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5D	SOLID	SZ	Uranium-238	0.077	pCi/g		=	0.0165	0.009229	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5E	SOLID	SZ	PCB-1016	0.00318	mg/kg	U	U		0.00106	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5E	SOLID	SZ	PCB-1221	0.00318	mg/kg	U	U		0.00106	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5E	SOLID	SZ	PCB-1232	0.00318	mg/kg	U	U		0.00106	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5E	SOLID	SZ	PCB-1242	0.00318	mg/kg	U	U		0.00106	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5E	SOLID	SZ	PCB-1248	0.00318	mg/kg	U	U		0.00106	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5E	SOLID	SZ	PCB-1254	0.00318	mg/kg	U	U		0.00106	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5E	SOLID	SZ	PCB-1260	0.00318	mg/kg	U	U		0.00106	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5E	SOLID	SZ	PCB-1268	0.00318	mg/kg	U	U		0.00106	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5E	SOLID	SZ	Polychlorinated biphenyl	0.00318	mg/kg	U	U		0.00106	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	1,2,4-Trichlorobenzene	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	1,2-Dichlorobenzene	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	1,2-Diphenylhydrazine	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	1,3-Dichlorobenzene	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	1,4-Dichlorobenzene	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2,4,5-Trichlorophenol	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2,4,6-Trichlorophenol	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2,4-Dichlorophenol	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2,4-Dinitrophenol	128	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2,4-Dinitrotoluene	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2,6-Dinitrotoluene	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2-Chloronaphthalene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2-Chlorophenol	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2-Methyl-4,6-dinitrophenol	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2-Methylphenol	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	2-Nitrophenol	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	4-Bromophenyl phenyl ether	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	4-Chloro-3-methylphenol	64.2	µg/kg	U	U		25.7	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	4-Chlorophenyl phenyl ether	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	4-Nitrophenol	64.2	µg/kg	U	UJ		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Acenaphthene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Acenaphthylene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Anthracene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Benz(a)anthracene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Benzo(a)pyrene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Benzo(b)fluoranthene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Benzo(ghi)perylene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Benzo(k)fluoranthene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Bis(2-chloroethoxy)methane	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Bis(2-chloroethyl) ether	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Bis(2-ethylhexyl)phthalate	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Butyl benzyl phthalate	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Chrysene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Dibenz(a,h)anthracene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Diethyl phthalate	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Di-n-butyl phthalate	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Di-n-octylphthalate	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Diphenylamine	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Fluoranthene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Fluorene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Hexachlorobenzene	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Hexachlorobutadiene	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Hexachlorocyclopentadiene	64.2	µg/kg	U	UJ		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Hexachloroethane	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Indeno(1,2,3-cd)pyrene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Isophorone	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	m,p-cresol	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Naphthalene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Nitrobenzene	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	N-Nitrosodimethylamine	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	N-Nitroso-di-n-propylamine	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Pentachlorophenol	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Phenanthrene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Phenol	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Pyrene	6.42	µg/kg	U	U		1.93	07-Oct-13	FD	
X326-25-4-2-2	B26CV2540202-5F	SOLID	SZ	Pyridine	64.2	µg/kg	U	U		19.3	07-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Americium-241	0.0108	pCi/g	U	UJ	0.01247	0.009754	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Americium-242m	-0.003018	pCi/g	U	U	0.006036	0.02223	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Americium-243	-0.00303	pCi/g	U	U	0.006059	0.02231	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Arsenic	2.3	mg/kg	B			0.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Barium	0.0909	mg/kg	U			0.0909	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Berkelium-247	-0.008501	pCi/g	U	U	0.017	0.06261	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Beryllium	0.121	mg/kg	U			0.121	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Cadmium	0.156	mg/kg	U			0.156	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.00996	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Californium-251	-0.008525	pCi/g	U	U	0.01705	0.06279	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Cesium-137	-0.1259	pCi/g	U	U	0.1576	0.2531	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Chromium	17.7	mg/kg	B			2.67	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Cobalt-60	0.1017	pCi/g	U	U	0.1252	0.2208	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.0111	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Curium-245/246	-0.003018	pCi/g	U	U	0.006036	0.02223	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Curium-247	0.005072	pCi/g	U	U	0.01755	0.03728	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Curium-248	0.01173	pCi/g	U	UJ	0.01354	0.0106	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.04548	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Lead	10.6	mg/kg				0.618	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Mercury	0.00414	mg/kg				0.00384	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Neptunium-237	0.003209	pCi/g	U	U	0.006417	0.008695	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Pct-Uranium-235	49.81	wt %		J	0	0	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Plutonium-238	-0.01598	pCi/g	U	U	0.0143	0.04192	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Plutonium-239/240	0.009599	pCi/g	U	UJ	0.01108	0.008671	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Plutonium-242	0.01279	pCi/g	U	UJ	0.01279	0.008662	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Plutonium-244	-0.003193	pCi/g	U	U	0.006386	0.02352	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Protactinium-231	-3.547	pCi/g	U	U	6.183	8.703	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Protactinium-234m	20.25	pCi/g	U	U	25.4	32.73	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Selenium	0.924	mg/kg	U			0.924	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Silver	2.79	mg/kg	U			2.79	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Technetium-99	58.3	pCi/g		J	2.26	1.74	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Thorium-228	0.006267	pCi/g	U	U	0.01253	0.02304	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Thorium-230	1.639	pCi/g		=	0.1439	0.0291	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Thorium-231	-4.422	pCi/g	U	U	5.104	6.709	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Thorium-232	-0.003123	pCi/g	U	U	0.01083	0.02905	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Thorium-234	-5.133	pCi/g	U	U	16.33	22.3	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Total Uranium	0.1362	µg/g		J	0	0.08444	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Uranium-232	3.159E-06	pCi/g	U	U	0.008938	0.02326	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Uranium-233/234	4.095	pCi/g		J	0.2433	0.03343	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Uranium-235	0.1466	pCi/g		J	0.05104	0.01204	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Uranium-235/234	104	%		J	0	0	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Uranium-236	0.02393	pCi/g		UJ	0.01954	0.01081	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7	SOLID	SZ	Uranium-238	0.024	pCi/g	U	U	0.01768	0.02644	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7B	SOLID	SZ	PCB-1016	0.00299	mg/kg	U	U		0.000995	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7B	SOLID	SZ	PCB-1221	0.00299	mg/kg	U	U		0.000995	08-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26UP2540202-7B	SOLID	SZ	PCB-1232	0.00299	mg/kg	U	U		0.000995	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7B	SOLID	SZ	PCB-1242	0.00299	mg/kg	U	U		0.000995	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7B	SOLID	SZ	PCB-1248	0.00299	mg/kg	U	U		0.000995	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7B	SOLID	SZ	PCB-1254	0.0031	mg/kg		J		0.000995	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7B	SOLID	SZ	PCB-1260	0.00415	mg/kg		J		0.000995	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7B	SOLID	SZ	PCB-1268	0.00299	mg/kg	U	U		0.000995	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7B	SOLID	SZ	Polychlorinated biphenyl	0.00725	mg/kg		J		0.000995	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	1,2,4-Trichlorobenzene	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	1,2-Dichlorobenzene	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	1,2-Diphenylhydrazine	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	1,3-Dichlorobenzene	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	1,4-Dichlorobenzene	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2,4,5-Trichlorophenol	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2,4,6-Trichlorophenol	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2,4-Dichlorophenol	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2,4-Dinitrophenol	123	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2,4-Dinitrotoluene	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2,6-Dinitrotoluene	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2-Chloronaphthalene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2-Chlorophenol	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2-Methyl-4,6-dinitrophenol	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2-Methylphenol	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	2-Nitrophenol	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	4-Bromophenyl phenyl ether	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	4-Chloro-3-methylphenol	61.4	µg/kg	U	U		24.6	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	4-Chlorophenyl phenyl ether	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	4-Nitrophenol	61.4	µg/kg	U	UJ		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Acenaphthene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Acenaphthylene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Anthracene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Benz(a)anthracene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Benzo(a)pyrene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Benzo(b)fluoranthene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Benzo(ghi)perylene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Benzo(k)fluoranthene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Bis(2-chloroethoxy)methane	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Bis(2-chloroethyl) ether	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Bis(2-ethylhexyl)phthalate	47.8	µg/kg	J	UJ		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Butyl benzyl phthalate	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Chrysene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Dibenz(a,h)anthracene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Diethyl phthalate	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Di-n-butyl phthalate	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Di-n-octylphthalate	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Diphenylamine	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Fluoranthene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Fluorene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Hexachlorobenzene	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Hexachlorobutadiene	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Hexachlorocyclopentadiene	61.4	µg/kg	U	UJ		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Hexachloroethane	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Indeno(1,2,3-cd)pyrene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Isophorone	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	m,p-cresol	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Naphthalene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Nitrobenzene	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	N-Nitrosodimethylamine	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	N-Nitroso-di-n-propylamine	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Pentachlorophenol	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Phenanthrene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Phenol	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Pyrene	6.14	µg/kg	U	U		1.84	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7C	SOLID	SZ	Pyridine	61.4	µg/kg	U	U		18.4	08-Oct-13	REG	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Americium-241	-0.007699	pCi/g	U	U	0.01541	0.04148	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Americium-242m	-0.009839	pCi/g	U	U	0.01136	0.03532	08-Oct-13	FD	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Americium-243	-0.009876	pCi/g	U	U	0.0114	0.03546	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Arsenic	2.15	mg/kg	B			0.872	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Barium	0.0943	mg/kg	U			0.0943	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02506	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Beryllium	0.126	mg/kg	U			0.126	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Cadmium	0.162	mg/kg	U			0.162	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01082	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Californium-251	-0.009265	pCi/g	U	U	0.01853	0.06823	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Cesium-137	-0.1609	pCi/g	U	U	0.1645	0.2628	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Chromium	17.6	mg/kg	B			2.77	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Cobalt-60	0.07213	pCi/g	U	U	0.1382	0.2402	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Curium-243/244	0.01317	pCi/g	U	UJ	0.0152	0.01189	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Curium-245/246	-0.02296	pCi/g	U	U	0.01735	0.04927	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Curium-247	0.005427	pCi/g	U	U	0.01085	0.01471	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Curium-248	-0.004184	pCi/g	U	UJ	0.008368	0.03082	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.04943	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Lead	10.1	mg/kg				0.641	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Mercury	0.00487	mg/kg				0.00398	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Neptunium-237	-0.003315	pCi/g	U	U	0.0115	0.03083	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Pct-Uranium-235	61.45	wt %		J	0	0	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Plutonium-238	3.309E-06	pCi/g	U	U	0.009363	0.02437	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Plutonium-239/240	-0.003309	pCi/g	U	U	0.006617	0.02437	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Plutonium-242	0.00662	pCi/g	U	U	0.01323	0.02434	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Plutonium-244	0.003309	pCi/g	U	U	0.006617	0.008966	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Protactinium-231	-1.099	pCi/g	U	U	5.661	9.097	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Protactinium-234m	6.42	pCi/g	U	U	24.59	33.3	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Selenium	0.959	mg/kg	U			0.959	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Silver	2.89	mg/kg	U			2.89	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Technetium-99	105	pCi/g		J	3.25	1.93	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Thorium-228	0.003717	pCi/g	U	U	0.0196	0.03987	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Thorium-230	1.985	pCi/g		=	0.1716	0.01005	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Thorium-231	-4.985	pCi/g	U	U	5.347	7.008	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.01003	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Thorium-234	2.669	pCi/g	U	U	16.93	23.3	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Total Uranium	0.1515	µg/g		J	0	0.03494	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Uranium-232	0	pCi/g	U	U	0	0.009348	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Uranium-233/234	5.424	pCi/g		J	0.2809	0.03898	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Uranium-235	0.2011	pCi/g		J	0.05996	0.01211	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Uranium-235/234	107	%		J	0	0	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Uranium-236	0.02408	pCi/g		UJ	0.01966	0.01088	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7D	SOLID	SZ	Uranium-238	0.0211	pCi/g		UJ	0.01405	0.009799	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7E	SOLID	SZ	PCB-1016	0.00308	mg/kg	U	U		0.00103	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7E	SOLID	SZ	PCB-1221	0.00308	mg/kg	U	U		0.00103	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7E	SOLID	SZ	PCB-1232	0.00308	mg/kg	U	U		0.00103	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7E	SOLID	SZ	PCB-1242	0.00308	mg/kg	U	U		0.00103	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7E	SOLID	SZ	PCB-1248	0.00308	mg/kg	U	U		0.00103	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7E	SOLID	SZ	PCB-1254	0.00152	mg/kg	J	J		0.00103	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7E	SOLID	SZ	PCB-1260	0.00191	mg/kg	J	J		0.00103	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7E	SOLID	SZ	PCB-1268	0.00308	mg/kg	U	U		0.00103	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7E	SOLID	SZ	Polychlorinated biphenyl	0.00343	mg/kg		J		0.00103	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	1,2,4-Trichlorobenzene	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	1,2-Dichlorobenzene	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	1,2-Diphenylhydrazine	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	1,3-Dichlorobenzene	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	1,4-Dichlorobenzene	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2,4,5-Trichlorophenol	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2,4,6-Trichlorophenol	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2,4-Dichlorophenol	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2,4-Dinitrophenol	130	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2,4-Dinitrotoluene	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2,6-Dinitrotoluene	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2-Chloronaphthalene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2-Chlorophenol	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2-Methyl-4,6-dinitrophenol	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2-Methylphenol	65	µg/kg	U	U		19.5	08-Oct-13	FD	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	2-Nitrophenol	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	4-Bromophenyl phenyl ether	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	4-Chloro-3-methylphenol	65	µg/kg	U	U		26	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	4-Chlorophenyl phenyl ether	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	4-Nitrophenol	65	µg/kg	U	UJ		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Acenaphthene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Acenaphthylene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Anthracene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Benz(a)anthracene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Benzo(a)pyrene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Benzo(b)fluoranthene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Benzo(ghi)perylene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Benzo(k)fluoranthene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Bis(2-chloroethoxy)methane	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Bis(2-chloroethyl) ether	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Bis(2-ethylhexyl)phthalate	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Butyl benzyl phthalate	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Chrysene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Dibenz(a,h)anthracene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Diethyl phthalate	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Di-n-butyl phthalate	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Di-n-octylphthalate	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Diphenylamine	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Fluoranthene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Fluorene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Hexachlorobenzene	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Hexachlorobutadiene	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Hexachlorocyclopentadiene	65	µg/kg	U	UJ		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Hexachloroethane	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Indeno(1,2,3-cd)pyrene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Isophorone	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	m,p-cresol	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Naphthalene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Nitrobenzene	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	N-Nitrosodimethylamine	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	N-Nitroso-di-n-propylamine	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Pentachlorophenol	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Phenanthrene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Phenol	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Pyrene	6.5	µg/kg	U	U		1.95	08-Oct-13	FD	
X326-25-4-2-2	B26UP2540202-7F	SOLID	SZ	Pyridine	65	µg/kg	U	U		19.5	08-Oct-13	FD	
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	1,2,4-Trichlorobenzene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	1,2-Dichlorobenzene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	1,3-Dichlorobenzene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	1,4-Dichlorobenzene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2,4,5-Trichlorophenol	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2,4,6-Trichlorophenol	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2,4-Dichlorophenol	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2,4-Dinitrophenol	1670	µg/kg	JU	UJ		1670	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2,4-Dinitrotoluene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2,6-Dinitrotoluene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2-Chloronaphthalene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2-Chlorophenol	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2-Methyl-4,6-dinitrophenol	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2-Methylphenol	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	2-Nitrophenol	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	3- and 4- Methylphenol	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	4-Bromophenyl phenyl ether	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	4-Chloro-3-methylphenol	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	4-Chlorophenyl phenyl ether	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	4-Nitrophenol	1670	µg/kg	U	UJ		1670	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Acenaphthene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Acenaphthylene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Americium-241	0.07275	pCi/g		UJ	0.0594	0.03286	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Americium-242	0.009813	pCi/g	U	U	0.03395	0.07213	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Americium-243	0.009851	pCi/g	U	U	0.03408	0.07241	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Anthracene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Arsenic	12.4	mg/kg	U	UJ		12.4	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Barium	8.26	mg/kg	U	U		8.26	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Benz(a)anthracene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Benzo(a)pyrene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Benzo(b)fluoranthene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Benzo(ghi)perylene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Benzo(k)fluoranthene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Berkelium-247	-0.02756	pCi/g	U	U	0.0956	0.2563	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Beryllium	3.6	mg/kg	U	U		3.6	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Bis(2-chloroethoxy)methane	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Bis(2-chloroethyl) ether	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Bis(2-ethylhexyl)phthalate	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Butyl benzyl phthalate	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Cadmium	8.49	mg/kg	U	U		8.49	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.03232	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Californium-251	-0.02764	pCi/g	U	U	0.09587	0.2571	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Cesium-137	-3.429	pCi/g	U	U	2.612	4.174	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Chromium	11200	mg/kg		=		31.7	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Chromium	0.295	mg/L		=		0.0136	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Chrysene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Cobalt-60	2.889	pCi/g	U	U	2.018	3.692	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.0374	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Curium-245/246	0.01962	pCi/g	U	U	0.0392	0.07213	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.04625	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Curium-248	0.05269	pCi/g	U	UJ	0.05269	0.0357	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Curium-250	0.2769	pCi/g	U	UJ	0.5537	0.1476	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Dibenz(a,h)anthracene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Diethyl phthalate	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Di-n-butyl phthalate	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Di-n-octylphthalate	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Diphenyldiazene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Fluoranthene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Fluorene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Hexachlorobenzene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Hexachlorobutadiene	1670	µg/kg	U	UJ		1670	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Hexachlorocyclopentadiene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Hexachloroethane	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Indeno(1,2,3-cd)pyrene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Isophorone	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Lead	29.9	mg/kg	B	J		8.86	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Mercury	0.0484	mg/kg	U	UJ		0.0484	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Naphthalene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Neptunium-237	0	pCi/g	U	U	0	0.02825	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Nitrobenzene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	N-Nitrosodimethylamine	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	N-Nitroso-di-n-propylamine	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	N-Nitrosodiphenylamine	1670	µg/kg	U	UJ		1670	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Pct-Uranium-235	1.004	pCi/g		J	0.2366	0.03778	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Pct-Uranium-235	52.98	wt %		J	0	0	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Pentachlorophenol	1670	µg/kg	U	UJ		1670	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Phenanthrene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Phenol	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Plutonium-238	0.01039	pCi/g	U	U	0.02079	0.02817	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Plutonium-239/240	0.0104	pCi/g	U	U	0.036	0.07648	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Plutonium-242	0.01038	pCi/g	U	U	0.02077	0.02814	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Plutonium-244	-0.01037	pCi/g	U	U	0.02075	0.0764	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Protactinium-231	-1.617	pCi/g	U	U	107	176.3	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Protactinium-234m	-45.99	pCi/g	U	U	394.1	511.7	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Pyrene	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Pyridine	333	µg/kg	U	UJ		333	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Selenium	17	mg/kg	U	U		17	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Silver	61.1	mg/kg	U	U		61.1	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Technetium-99	15	pCi/g		UJ	7.27	11.5	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Thorium-228	0.1414	pCi/g		UJ	0.07846	0.02948	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Thorium-230	0.4029	pCi/g		=	0.136	0.08012	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Thorium-231	-10.93	pCi/g	U	U	61.11	100.2	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Thorium-232	0.04348	pCi/g	U	UJ	0.04348	0.02946	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Thorium-234	-19.79	pCi/g	U	U	202.4	278.1	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Total Uranium	0.8767	µg/g	U	UJ	0	0.109	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Uranium-232	0.01934	pCi/g	U	U	0.02735	0.0262	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Uranium-233	0.0494	mg/kg	U	U		0.0494	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Uranium-233/234	30.01	pCi/g		=	1.165	0.03062	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Uranium-235/234	96.7	%		J	0		28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Uranium-236	0.08761	pCi/g		UJ	0.06623	0.03392	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-3	SOLID	SZ	Uranium-238	0.203	pCi/g		=	0.09569	0.03056	28-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Americium-241	0.06649	pCi/g	U	U	0.0814	0.1223	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Americium-242	0.01418	pCi/g	U	U	0.07475	0.1521	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Americium-243	0.01423	pCi/g	U	U	0.07504	0.1527	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Berkelium-247	0.2389	pCi/g	J	UJ	0.195	0.1079	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Californium-249	0.05158	pCi/g	U	UJ	0.05956	0.04659	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Californium-251	0.2395	pCi/g	J	UJ	0.1956	0.1082	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Cesium-137	-4.014	pCi/g	U	U	3.7	5.956	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Cobalt-60	1.783	pCi/g	U	U	3.017	5.338	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Curium-243/244	0.09461	pCi/g	U	U	0.1001	0.1392	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Curium-245/246	0.01413	pCi/g	U	U	0.02827	0.0383	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Curium-247	0.04679	pCi/g	U	U	0.06617	0.0634	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Curium-248	0.07223	pCi/g	U	U	0.08843	0.1328	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Curium-250	0.4019	pCi/g	U	U	1.39	0.5777	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Neptunium-237	8.015	pCi/g		=	0.6708	0.1294	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Pct-Uranium-235	4715	pCi/g		J	440.2	27.84	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Pct-Uranium-235	69.59	wt %		J	0	0	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Plutonium-238	0.0417	pCi/g	U	UJ	0.04815	0.03767	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Plutonium-239/240	0.0695	pCi/g		UJ	0.06216	0.03767	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Plutonium-242	0.01906	pCi/g	U	U	0.06593	0.1401	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Plutonium-244	0.03808	pCi/g	U	U	0.05385	0.05159	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Protactinium-231	-12.55	pCi/g	U	U	162.4	267.2	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Protactinium-234m	169.4	pCi/g	U	U	577.4	769.3	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Technetium-99	81500	pCi/g		J	570	33.7	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Thorium-228	27.45	pCi/g		=	1.619	0.2554	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Thorium-230	512.6	pCi/g		=	6.98	0.0644	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Thorium-231	8210	pCi/g		=	94.95	267.8	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Thorium-232	0.2609	pCi/g		UJ	0.1573	0.06428	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Thorium-234	14660	pCi/g		=	73.72	740	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Total Uranium	3136	µg/g		J	0	80.3	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Uranium-232	0	pCi/g	U	U	0	19	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Uranium-233	1.12	mg/kg	U	U		1.12	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Uranium-233/234	130400	pCi/g		=	2084	22.57	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Uranium-235/234	105	%		J	0		28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Uranium-236	516.5	pCi/g		J	138.1	25	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-8-2	B26CP2540802-4	WIPE	SW	Uranium-238	623.3	pCi/g		=	143.9	22.52	28-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	1,2,4-Trichlorobenzene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	1,2-Dichlorobenzene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	1,3-Dichlorobenzene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	1,4-Dichlorobenzene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2,4,5-Trichlorophenol	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2,4,6-Trichlorophenol	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2,4-Dichlorophenol	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2,4-Dinitrophenol	4810	µg/kg	JU	UJ		4810	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2,4-Dinitrotoluene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2,6-Dinitrotoluene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2-Chloronaphthalene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2-Chlorophenol	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2-Methyl-4,6-dinitrophenol	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2-Methylphenol	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	2-Nitrophenol	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	3- and 4- Methylphenol	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	3- and 4- Methylphenol	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	4-Bromophenyl phenyl ether	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	4-Chloro-3-methylphenol	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	4-Chlorophenyl phenyl ether	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	4-Nitrophenol	4810	µg/kg	U	UJ		4810	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Acenaphthene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Acenaphthylene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Americium-241	0.06202	pCi/g	U	U	0.05845	0.07604	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Americium-242	0.00001661	pCi/g	U	U	0.03324	0.07718	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Americium-243	0.00001668	pCi/g	U	U	0.03337	0.07748	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Anthracene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Arsenic	11.9	mg/kg	U	UJ		11.9	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Arsenic	2.36	mg/L		J		0.00265	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Barium	7.94	mg/kg	U	U		7.94	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Barium	0.0124	mg/L	B	J		0.00177	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Benz(a)anthracene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Benzo(a)pyrene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Benzo(b)fluoranthene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Benzo(ghi)perylene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Benzo(k)fluoranthene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Berkelium-247	-0.0234	pCi/g	U	U	0.0468	0.1723	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Beryllium	3.46	mg/kg	U	U		3.46	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Bis(2-chloroethoxy)methane	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Bis(2-chloroethyl) ether	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Bis(2-ethylhexyl)phthalate	1580	µg/kg	B	U		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Butyl benzyl phthalate	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Cadmium	8.16	mg/kg	U	U		8.16	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Cadmium	0.00182	mg/L	U	U		0.00182	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02741	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Californium-251	-0.02346	pCi/g	U	U	0.04693	0.1728	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Cesium-137	-0.9581	pCi/g	U	U	1.088	1.763	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Chromium	57.4	mg/kg	B	J		30.5	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Chromium	1.05	mg/L		=		0.0068	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Chrysene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Cobalt-60	0.1558	pCi/g	U	U	0.9189	1.598	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Copper	0.263	mg/L		=		0.00888	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.03188	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Curium-245/246	-0.008298	pCi/g	U	U	0.02878	0.07718	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Curium-247	0.01455	pCi/g	U	U	0.02909	0.03942	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Curium-248	0.01123	pCi/g	U	U	0.02245	0.03042	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1252	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Dibenz(a,h)anthracene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Diethyl phthalate	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Di-n-butyl phthalate	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Di-n-octylphthalate	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Diphenyldiazene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Fluoranthene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Fluorene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Hexachlorobenzene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Hexachlorobutadiene	4810	µg/kg	U	UJ		4810	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Hexachlorobutadiene	0.1	mg/L	U	UJ		0.1	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Hexachlorocyclopentadiene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Hexachloroethane	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Indeno(1,2,3-cd)pyrene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Isophorone	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Lead	181	mg/kg		J		8.52	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Lead	0.0147	mg/L	B	J		0.0019	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Mercury	0.0419	mg/kg	U	UJ		0.0419	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Naphthalene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Neptunium-237	0.4391	pCi/g		=	0.1254	0.02428	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Nitrobenzene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	N-Nitrosodimethylamine	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	N-Nitroso-di-n-propylamine	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	N-Nitrosodiphenylamine	4810	µg/kg	U	UJ		4810	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Pct-Uranium-235	21.04	pCi/g		J	0.9989	0.03214	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Pct-Uranium-235	76.96	wt %		J	0	0	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Pentachlorophenol	4810	µg/kg	U	UJ		4810	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Pentachlorophenol	0.1	mg/L	U	UJ		0.1	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Phenanthrene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Phenol	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Plutonium-238	0.06256	pCi/g	U	U	0.05926	0.08294	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Plutonium-239/240	0.08043	pCi/g		UJ	0.05926	0.06574	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Plutonium-242	0	pCi/g	U	U	0	0.05161	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Plutonium-244	0.03809	pCi/g	U	U	0.05386	0.05161	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Protactinium-231	8.009	pCi/g	U	U	45.59	75.32	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Protactinium-234m	-137.1	pCi/g	U	U	172.4	220.5	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Pyrene	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Pyridine	962	µg/kg	U	UJ		962	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Selenium	16.4	mg/kg	U	U		16.4	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Selenium	0.00365	mg/L	U	U		0.00365	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Silver	58.7	mg/kg	U	U		58.7	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Silver	0.0138	mg/L	B	J		0.0131	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Technetium-99	34500	pCi/g		J	242	12.4	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Thorium-228	0.1258	pCi/g		UJ	0.08867	0.1161	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Thorium-230	39	pCi/g		=	1.229	0.07126	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Thorium-231	11.86	pCi/g	U	U	27.15	44.78	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Thorium-232	0.009668	pCi/g	U	U	0.01934	0.0262	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Thorium-234	0.2322	pCi/g	U	U	87.33	120.5	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Total Uranium	12.65	µg/g		J	0	0.0927	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Uranium-232	-0.008453	pCi/g	U	U	0.02932	0.07863	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Uranium-233	0.0495	mg/kg	U	U		0.0495	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Uranium-233/234	461.3	pCi/g		=	4.212	0.07073	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Uranium-235/234	132	%		J	0		14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Uranium-236	1.597	pCi/g		J	0.2608	0.02885	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Uranium-238	2.341	pCi/g		=	0.2997	0.026	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-1	SOLID	SZ	Zinc	0.312	mg/L		=		0.00132	14-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	1,2,4-Trichlorobenzene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	1,2-Dichlorobenzene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	1,3-Dichlorobenzene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	1,4-Dichlorobenzene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2,4,5-Trichlorophenol	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2,4,6-Trichlorophenol	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2,4-Dichlorophenol	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2,4-Dinitrophenol	1670	µg/kg	JU	UJ		1670	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2,4-Dinitrotoluene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2,6-Dinitrotoluene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2-Chloronaphthalene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2-Chlorophenol	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2-Methyl-4,6-dinitrophenol	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2-Methylphenol	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	2-Nitrophenol	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	3- and 4- Methylphenol	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	3- and 4- Methylphenol	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	4-Bromophenyl phenyl ether	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	4-Chloro-3-methylphenol	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	4-Chlorophenyl phenyl ether	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	4-Nitrophenol	1670	µg/kg	U	UJ		1670	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Acenaphthene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Acenaphthylene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Americium-241	0.0196	pCi/g	U	U	0.02773	0.02656	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Americium-242	0	pCi/g	U	U	0	0.02315	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Americium-243	0	pCi/g	U	U	0	0.02324	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Anthracene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Arsenic	12.3	mg/kg	U	UJ		12.3	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Arsenic	0.0053	mg/L	U	UJ		0.0053	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Barium	8.2	mg/kg	U	U		8.2	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Barium	0.0214	mg/L	B	J		0.00354	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Benz(a)anthracene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Benzo(a)pyrene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Benzo(b)fluoranthene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Benzo(ghi)perylene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Benzo(k)fluoranthene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.06521	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Beryllium	3.58	mg/kg	U	U		3.58	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Bis(2-chloroethoxy)methane	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Bis(2-chloroethyl) ether	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Bis(2-ethylhexyl)phthalate	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Butyl benzyl phthalate	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Cadmium	8.43	mg/kg	U	U		8.43	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Cadmium	0.0058	mg/L	B	J		0.00364	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02816	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.06539	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Cesium-137	-1.526	pCi/g	U	U	1.103	1.758	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Chromium	537	mg/kg		=		31.5	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Chromium	0.197	mg/L		=		0.0136	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Chrysene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Cobalt-60	0.8091	pCi/g	U	U	0.8711	1.564	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Copper	0.0178	mg/L	U	U		0.0178	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.03024	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Curium-245/246	0	pCi/g	U	U	0	0.02315	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Curium-247	0.0276	pCi/g	U	U	0.03903	0.03739	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Curium-248	0.01065	pCi/g	U	U	0.0213	0.02886	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1286	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Dibenz(a,h)anthracene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Diethyl phthalate	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Di-n-butyl phthalate	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Di-n-octylphthalate	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Diphenyldiazene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Fluoranthene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Fluorene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Hexachlorobenzene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Hexachlorobutadiene	1670	µg/kg	U	UJ		1670	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Hexachlorobutadiene	0.1	mg/L	U	UJ		0.1	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Hexachlorocyclopentadiene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Hexachloroethane	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Indeno(1,2,3-cd)pyrene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Isophorone	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Lead	26.4	mg/kg	B	J		8.8	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Lead	0.0206	mg/L	B	J		0.0038	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Mercury	0.0473	mg/kg	U	UJ		0.0473	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Naphthalene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Neptunium-237	0	pCi/g	U	U	0	0.02196	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Nitrobenzene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	N-Nitrosodimethylamine	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	N-Nitroso-di-n-propylamine	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	N-Nitrosodiphenylamine	1670	µg/kg	U	UJ		1670	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Pct-Uranium-235	0.1225	pCi/g		UJ	0.0926	0.04742	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Pct-Uranium-235	12.44	wt %	U	J	0	0	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Pentachlorophenol	1670	µg/kg	U	UJ		1670	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Pentachlorophenol	0.1	mg/L	U	UJ		0.1	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Phenanthrene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Phenol	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Plutonium-238	0.01616	pCi/g	U	U	0.02286	0.0219	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Plutonium-239/240	0	pCi/g	U	U	0	0.0219	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Plutonium-242	0.01932	pCi/g	U	U	0.1154	0.231	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Plutonium-244	0.01926	pCi/g	U	U	0.06663	0.1416	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Protactinium-231	-27.93	pCi/g	U	U	45.69	73.68	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Protactinium-234m	-105.8	pCi/g	U	U	170.1	217.3	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Pyrene	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Pyridine	333	µg/kg	U	UJ		333	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Selenium	16.9	mg/kg	U	U		16.9	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Selenium	0.0073	mg/L	U	U		0.0073	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Silver	60.7	mg/kg	U	U		60.7	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Silver	0.122	mg/L	B	J		0.0262	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Technetium-99	22.9	pCi/g		J	3.51	4.85	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Thorium-228	0.0308	pCi/g	U	U	0.05428	0.09521	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Thorium-230	0.2567	pCi/g		=	0.1067	0.07556	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Thorium-231	22.89	pCi/g	U	U	25.92	42.87	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.02778	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Thorium-234	6.859	pCi/g	U	U	86.11	118.2	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Total Uranium	0.4558	µg/g	U	UJ	0	0.3326	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Uranium-232	0.008283	pCi/g	U	U	0.01657	0.02245	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Uranium-233	0.0472	mg/kg	U	U		0.0472	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Uranium-233/234	1.504	pCi/g		=	0.2921	0.03844	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Uranium-235/234	236	%		J	0		14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Uranium-236	0.11	pCi/g		UJ	0.08314	0.04258	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Uranium-238	0.1416	pCi/g		UJ	0.09807	0.1042	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-4-9-2	B26CV2540902-2	SOLID	SZ	Zinc	0.308	mg/L		=		0.00264	14-Jun-11	REG	SHELL; TRANSFER#N/A F-CAN# F020532
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Americium-241	0.00000511	pCi/g	U	U	0.008347	0.01834	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Americium-242	0.00322	pCi/g	U	U	0.009084	0.01729	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Americium-243	0.00323	pCi/g	U	U	0.009119	0.01735	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Arsenic	116	mg/kg	U	U		116	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Arsenic	0.071	mg/L	B	J		0.0208	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Barium	41.7	mg/kg		=		2.64	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Barium	0.0325	mg/L		=		0.000475	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.01322	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Beryllium	4.03	mg/kg	U	U		4.03	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Cadmium	13.2	mg/kg	U	U		13.2	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Cadmium	0.0125	mg/L	B	J		0.00237	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.005708	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.01325	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Cesium-137	-0.0726	pCi/g	U	U	0.1937	0.3291	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Chromium	353	mg/kg		=		13.6	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Chromium	0.142	mg/L		=		0.00245	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Cobalt-60	-0.0552	pCi/g	U	U	0.1723	0.2878	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Copper	0.00685	mg/L	JU	UJ		0.00685	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Curium-243/244	-0.00194	pCi/g	U	U	0.006719	0.01802	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Curium-245/246	-0.16	pCi/g	U	U	0.00718	0.01729	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Curium-247	0.0048	pCi/g	U	U	0.009597	0.01763	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Curium-248	0.00556	pCi/g	U	UJ	0.006416	0.00502	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Curium-250	-0.0406	pCi/g	U	U	0.08113	0.06873	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Lead	444	mg/kg	B	J		116	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Lead	0.0209	mg/L	U	U		0.0209	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Mercury	2.78	mg/kg	U	UJ		2.78	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Neptunium-237	0.00328	pCi/g	U	U	0.004636	0.004443	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Pct-Uranium-235	77.52	wt %		J	0	0	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Plutonium-238	0.00164	pCi/g	U	U	0.005662	0.01203	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Plutonium-239/240	-0.00163	pCi/g	U	U	0.003267	0.01203	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Plutonium-242	0.00327	pCi/g	U	U	0.004619	0.004426	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Plutonium-244	0.00327	pCi/g	U	U	0.006531	0.01202	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Protactinium-231	-2.39	pCi/g	U	U	8.262	13.4	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Protactinium-234m	10.9	pCi/g	U	U	29.2	41.28	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Selenium	104	mg/kg	U	U		104	08-Dec-11	REG	SEAL

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Selenium	0.0188	mg/L	U	U		0.0188	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Silver	38.9	mg/kg	U	U		38.9	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Silver	0.008	mg/L	B	J		0.007	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Technetium-99	194	pCi/g		=	3.027	0.8032	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Thorium-228	0.14	pCi/g		=	0.03176	0.004871	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Thorium-230	4.12	pCi/g		=	0.1725	0.01936	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Thorium-231	35.7	pCi/g		=	2.389	8.24	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Thorium-232	0.00898	pCi/g		UJ	0.008035	0.004868	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Thorium-234	4180	pCi/g		=	1153	28.74	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Total Uranium	217.5	µg/g		J	0	0.937	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Uranium-232	-0.0804	pCi/g	U	U	0.3604	0.8672	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Uranium-233/234	1180	pCi/g		=	21.4	0.7148	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Uranium-235	36.5	pCi/g		J	4.18	0.3247	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Uranium-235/234	89.4	%		J	0		08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Uranium-236	3.77	pCi/g		J	1.273	0.2917	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Uranium-238	3.98	pCi/g		=	1.242	0.2627	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-3	SOLID	SZ	Zinc	0.053	mg/L	B	J		0.027	08-Dec-11	REG	SEAL
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Americium-241	-0.08633	pCi/sample	U	U	0.387	0.9318	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Americium-242	0.187	pCi/sample	U	UJ	0.2159	0.1689	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Americium-243	0.1877	pCi/sample	U	UJ	0.2167	0.1695	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Berkelium-247	0	pCi/sample	U	U	0	0.5542	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Californium-249	-0.08032	pCi/sample	U	U	0.1606	0.631	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Californium-251	0	pCi/sample	U	U	0	0.5557	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Cesium-137	-5.466	pCi/sample	U	U	7.905	13.32	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Cobalt-60	-2.179	pCi/sample	U	U	7.024	11.74	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Curium-243/244	0.000197	pCi/sample	U	U	0.3941	0.915	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Curium-245/246	0.06238	pCi/sample	U	U	0.2158	0.4585	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Curium-247	0.2439	pCi/sample	U	U	0.4874	0.8968	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Curium-248	0.1882	pCi/sample	U	U	0.3762	0.6921	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Curium-250	-1.701	pCi/sample	U	U	3.403	2.881	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Neptunium-237	0.2832	pCi/sample	U	UJ	0.2832	0.1918	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Pct-Uranium-235	89.51	wt %		J	0	0	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Plutonium-238	0.1412	pCi/sample	U	U	0.1997	0.1913	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Plutonium-239/240	0.2118	pCi/sample	U	U	0.3156	0.5194	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Plutonium-242	0.2116	pCi/sample	U	UJ	0.2443	0.1911	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Plutonium-244	0.07052	pCi/sample	U	U	0.141	0.1911	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Protactinium-231	-197.7	pCi/sample	U	U	365.8	582.8	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Protactinium-234m	706	pCi/sample	U	U	1219	1745	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Technetium-99	648	pCi/sample		=	4.54	0.306	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Thorium-228	164.6	pCi/sample		=	6.778	0.5129	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Thorium-230	4074	pCi/sample		=	33.72	0.6479	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Thorium-231	27590	pCi/sample		=	199.7	705	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Thorium-232	1.463	pCi/sample		=	0.6385	0.1888	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Thorium-234	1719	pCi/sample	U	U	1516	2452	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Total Uranium	20100	µg/sample		J	0	159.8	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Uranium-232	24.87	pCi/sample	U	U	35.14	57.68	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Uranium-233/234	1107000	pCi/sample		=	5494	89.3	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Uranium-235	38870	pCi/sample		J	1143	22.78	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Uranium-235/234	102	%		J	0		08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Uranium-236	2974	pCi/sample		J	299.7	20.46	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CP2550202-4	WIPE	SW	Uranium-238	3210	pCi/sample		=	296.2	50.05	08-Dec-11	REG	DEPOSIT
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Americium-241	0.00676	pCi/g	U	U	0.01353	0.01833	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Americium-242	0.00599	pCi/g	U	U	0.01198	0.01624	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Americium-243	0.00601	pCi/g	U	U	0.01203	0.01629	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Arsenic	48.6	mg/kg	B	J		8.52	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Arsenic	0.27	mg/L		=		0.00416	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Barium	49.6	mg/kg		=		0.195	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Barium	0.0636	mg/L		=		0.000095	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Berkelium-247	-0.0159	pCi/g	U	U	0.03173	0.1246	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Beryllium	0.297	mg/kg	U	U		0.297	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Cadmium	0.971	mg/kg	U	U		0.971	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Cadmium	0.0014	mg/L	B	J		0.000474	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02041	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Californium-251	-0.0159	pCi/g	U	U	0.03182	0.125	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Cesium-137	-0.885	pCi/g	U	U	0.7257	1.206	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529_________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Chromium	69.7	mg/kg		=		1	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Chromium	1.71	mg/L		=		0.00049	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Cobalt-60	0.604	pCi/g	U	U	0.6449	1.131	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Copper	0.143	mg/L		=		0.00137	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Curium-243/244	0.077	pCi/g		UJ	0.04868	0.02086	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Curium-245/246	0.00599	pCi/g	U	U	0.01198	0.01624	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Curium-247	0.00952	pCi/g	U	U	0.01904	0.02579	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Curium-248	0	pCi/g	U	U	0	0.01991	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.09318	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Lead	30.5	mg/kg	B	J		8.57	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Lead	0.0136	mg/L	B	J		0.00418	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Mercury	0.121	mg/kg		J		0.102	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Neptunium-237	0.0375	pCi/g	U	U	0.04322	0.06714	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Pct-Uranium-235	88.55	wt %		J	0	0	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Plutonium-238	-0.00621	pCi/g	U	U	0.02154	0.05776	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Plutonium-239/240	0.0187	pCi/g	U	UJ	0.02155	0.01686	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Plutonium-242	0.0497	pCi/g	U	U	0.04305	0.0577	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Plutonium-244	-0.0062	pCi/g	U	U	0.02778	0.06688	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Protactinium-231	-24.2	pCi/g	U	U	32.11	50.04	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Protactinium-234m	-33.5	pCi/g	U	U	109.2	151.1	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Selenium	7.68	mg/kg	U	U		7.68	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Selenium	0.00375	mg/L	U	U		0.00375	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Silver	2.87	mg/kg	U	U		2.87	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Silver	0.0014	mg/L	U	UJ		0.0014	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Technetium-99	166000	pCi/g		J	1145	23	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Thorium-228	-0.0107	pCi/g	U	U	0.04797	0.1155	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Thorium-230	50.5	pCi/g		=	1.473	0.02912	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Thorium-231	38.6	pCi/g		UJ	8.25	31.99	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Thorium-232	0.0215	pCi/g	U	U	0.03033	0.02906	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Thorium-234	17.3	pCi/g	U	U	76.52	113.1	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Total Uranium	15.7	µg/g		J	0	0.365	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Uranium-232	0.115	pCi/g	U	UJ	0.1153	0.07811	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Uranium-233/234	841	pCi/g		=	9.964	0.2739	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Uranium-235	30	pCi/g		J	2.094	0.2678	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Uranium-235/234	103	%		J	0		01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Uranium-236	3.27	pCi/g		J	0.6601	0.2405	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Uranium-238	2.53	pCi/g		=	0.5461	0.07979	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-1	SOLID	SZ	Zinc	0.105	mg/L		=		0.00541	01-Dec-11	REG	BARRIER; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Americium-241	0	pCi/g	U	UJ	0	0.02093	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Americium-242	0.00195	pCi/g	U	UJ	0.008695	0.01806	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Americium-243	0.00196	pCi/g	U	U	0.008726	0.01812	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Arsenic	122	mg/kg		=		5.84	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Arsenic	0.0413	mg/L	B	J		0.00416	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Barium	0.133	mg/kg	U	U		0.133	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Barium	0.0797	mg/L		=		0.000095	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.01485	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Beryllium	0.204	mg/kg	U	U		0.204	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Cadmium	16.3	mg/kg		=		0.666	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Cadmium	0.0067	mg/L		=		0.000474	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Californium-249	0.00473	pCi/g	U	U	0.006694	0.006412	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.01489	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Cesium-137	-0.175	pCi/g	U	U	0.2474	0.4169	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Chromium	177	mg/kg		=		0.688	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Chromium	0.0778	mg/L		=		0.00049	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Cobalt-60	0.196	pCi/g	U	U	0.2262	0.3952	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Copper	0.00137	mg/L	U	U		0.00137	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Curium-243/244	-0.00878	pCi/g	U	U	0.01756	0.06468	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Curium-245/246	-0.00389	pCi/g	U	U	0.005496	0.01806	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.02946	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Curium-248	0.0252	pCi/g	U	UJ	0.02906	0.02274	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Curium-250	0.055	pCi/g	U	UJ	0.11	0.02928	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Lead	11.2	mg/kg	B	J		5.87	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Lead	0.00418	mg/L	U	U		0.00418	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Mercury	0.14	mg/kg	U	UJ		0.14	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Neptunium-237	0.00199	pCi/g	U	U	0.008855	0.01839	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Pct-Uranium-235	27.76	wt %		J	0	0	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Plutonium-238	0.0079	pCi/g	U	UJ	0.007902	0.005351	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Plutonium-239/240	0.00000197	pCi/g	U	U	0.005583	0.01453	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Plutonium-242	0.00198	pCi/g	U	U	0.008821	0.01832	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Plutonium-244	-0.00394	pCi/g	U	U	0.005574	0.01832	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Protactinium-231	-3.48	pCi/g	U	U	10.55	17.07	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Protactinium-234m	11.2	pCi/g	U	U	37.67	53.2	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Selenium	5.27	mg/kg	U	U		5.27	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Selenium	0.00375	mg/L	U	U		0.00375	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Silver	7.02	mg/kg	B	J		1.97	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Silver	0.0042	mg/L	B	UJ		0.0014	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Technetium-99	521	pCi/g		=	6.023	1.054	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Thorium-228	0.0136	pCi/g		UJ	0.01113	0.006157	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Thorium-230	0.385	pCi/g		=	0.05985	0.02112	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Thorium-231	-0.718	pCi/g	U	U	6.446	9.388	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Thorium-232	-0.00907	pCi/g	U	U	0.01111	0.02975	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Thorium-234	4.64	pCi/g	U	U	23.43	33.22	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Total Uranium	0.0882	µg/g		J	0	0.0529	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Uranium-232	0.00198	pCi/g	U	U	0.003955	0.005361	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Uranium-233/234	1.3	pCi/g		=	0.1088	0.02096	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Uranium-235	0.0529	pCi/g		J	0.02428	0.007547	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Uranium-235/234	118	%		J	0		01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Uranium-236	0.0125	pCi/g		UJ	0.01118	0.006779	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Uranium-238	0.0248	pCi/g		UJ	0.01625	0.01658	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-2	SOLID	SZ	Zinc	0.0923	mg/L		=		0.00541	01-Dec-11	REG	SHELL; TRANSFER # ___N/A___; F-CAN # _F020529__________
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Americium-241	0.00753	pCi/g	U	U	0.01506	0.02041	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Americium-242	-0.00387	pCi/g	U	U	0.007734	0.02847	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Americium-243	-0.00388	pCi/g	U	U	0.007763	0.02858	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Arsenic	147	mg/kg		=		6.38	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Arsenic	0.0715	mg/L	B	J		0.0208	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Barium	0.146	mg/kg	U	U		0.146	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Barium	0.021	mg/L		=		0.000475	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02954	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Beryllium	0.222	mg/kg	U	U		0.222	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Cadmium	19	mg/kg		=		0.727	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Cadmium	0.012	mg/L	B	J		0.00237	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Californium-249	0.0283	pCi/g	U	U	0.02663	0.03464	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.02963	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Cesium-137	-0.0574	pCi/g	U	U	0.4625	0.7904	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Chromium	136	mg/kg		=		0.752	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Chromium	0.00245	mg/L	U	U		0.00245	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Cobalt-60	0.474	pCi/g	U	U	0.4162	0.7348	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Copper	0.00685	mg/L	JU	UJ		0.00685	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.02323	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Curium-245/246	-0.00387	pCi/g	U	U	0.007734	0.02847	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.02873	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Curium-248	0.00819	pCi/g	U	U	0.01636	0.02217	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.05826	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Lead	21.6	mg/kg	B	J		6.41	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Lead	0.0209	mg/L	U	U		0.0209	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Mercury	0.153	mg/kg	U	UJ		0.153	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Neptunium-237	-0.00384	pCi/g	U	U	0.007681	0.02828	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Pct-Uranium-235	68.03	wt %		J	0	0	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Plutonium-238	0.00000383	pCi/g	U	U	0.01084	0.0282	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Plutonium-239/240	0	pCi/g	U	U	0	0.01039	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Plutonium-242	-0.00383	pCi/g	U	U	0.007652	0.02817	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.01037	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Protactinium-231	4.75	pCi/g	U	U	19.87	32.57	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Protactinium-234m	19.1	pCi/g	U	U	70.37	99.36	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Selenium	5.75	mg/kg	U	U		5.75	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Selenium	0.0188	mg/L	U	U		0.0188	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Silver	5.67	mg/kg	B	J		2.15	06-Dec-11	REG	F CAN F020538 COOLER-SHELL

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Silver	0.0095	mg/L	B	J		0.007	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Technetium-99	91.3	pCi/g		=	3.173	2.073	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Thorium-228	-0.00829	pCi/g	U	U	0.02034	0.04986	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Thorium-230	0.915	pCi/g		=	0.1239	0.03059	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Thorium-231	15.4	pCi/g	U	U	5.493	17.58	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.01125	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Thorium-234	-3.45	pCi/g	U	U	43.91	62.12	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Total Uranium	0.1703	µg/g		J	0	0.0369	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Uranium-232	-0.00375	pCi/g	U	U	0.01301	0.03488	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Uranium-233/234	6.83	pCi/g		=	0.3236	0.02817	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Uranium-235	0.25	pCi/g		J	0.06879	0.0128	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Uranium-235/234	106	%		J	0		06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Uranium-236	0.0254	pCi/g		UJ	0.02078	0.01149	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Uranium-238	0.0344	pCi/g		UJ	0.02293	0.01036	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-5	SOLID	SZ	Zinc	0.038	mg/L	B	J		0.027	06-Dec-11	REG	F CAN F020538 COOLER-SHELL
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Americium-241	0.2157	pCi/sample	U	UJ	0.2491	0.1949	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Americium-242	0.2575	pCi/sample	U	UJ	0.2575	0.1745	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Americium-243	0.2585	pCi/sample	U	UJ	0.2585	0.1751	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Berkelium-247	0	pCi/sample	U	U	0	0.5229	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Californium-249	-0.1515	pCi/sample	U	U	0.2142	0.7482	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Californium-251	0	pCi/sample	U	U	0	0.5244	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Cesium-137	-2.857	pCi/sample	U	U	7.804	13.26	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Cobalt-60	2.234	pCi/sample	U	U	7.215	12.35	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Curium-243/244	0	pCi/sample	U	U	0	0.2218	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Curium-245/246	0.1288	pCi/sample	U	U	0.2574	0.4737	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Curium-247	0.1012	pCi/sample	U	U	0.2025	0.2743	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Curium-248	0	pCi/sample	U	U	0	0.2117	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Curium-250	-3.209	pCi/sample	U	U	4.539	3.417	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Neptunium-237	0.196	pCi/sample	U	U	0.292	0.4805	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Pct-Uranium-235	69.63	wt %		J	0	0	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Plutonium-238	-0.06505	pCi/sample	U	U	0.1301	0.4791	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Plutonium-239/240	0	pCi/sample	U	U	0	0.1765	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Plutonium-242	0.06505	pCi/sample	U	U	0.1301	0.1763	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Plutonium-244	0.00006499	pCi/sample	U	U	0.1839	0.4786	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Protactinium-231	23.23	pCi/sample	U	U	339.8	557.2	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Protactinium-234m	106.3	pCi/sample	U	U	1221	1686	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Technetium-99	10.4	pCi/sample		=	0.301	0.166	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Thorium-228	0.0797	pCi/sample	U	U	0.1594	0.2159	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Thorium-230	2.792	pCi/sample		=	1.07	1.045	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Thorium-231	89.78	pCi/sample	U	U	181.8	302.1	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Thorium-232	0.1592	pCi/sample	U	U	0.2252	0.2158	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Thorium-234	411.3	pCi/sample	U	U	743.4	1062	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Total Uranium	2.608	µg/sample		J	0	0.7982	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Uranium-232	0.2588	pCi/sample	U	UJ	0.2588	0.1753	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Uranium-233/234	66.73	pCi/sample		=	4.17	0.6025	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Uranium-235	3.924	pCi/sample		J	1.144	0.5891	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Uranium-235/234	170	%		J	0		06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Uranium-236	0.8628	pCi/sample		UJ	0.4981	0.1948	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26CV2550202-6	WIPE	SW	Uranium-238	0.5182	pCi/sample		UJ	0.3664	0.1755	06-Dec-11	REG	F CAN F020538 COOLER WIPE
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Americium-241	0	pCi/g	U	UJ	0	0.02126	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Americium-242	0.00263	pCi/g	U	UJ	0.01172	0.02433	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Americium-243	0.00264	pCi/g	U	U	0.01176	0.02442	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Arsenic	140	mg/kg		=		5.75	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Arsenic	0.0665	mg/L	B	J		0.0208	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Barium	3.45	mg/kg		=		0.131	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Barium	0.0425	mg/L		=		0.000475	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Berkelium-247	-0.0155	pCi/g	U	U	0.02196	0.07214	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Beryllium	0.2	mg/kg	U	U		0.2	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Cadmium	17.7	mg/kg		=		0.655	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Cadmium	0.0155	mg/L	B	J		0.00237	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.009098	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Californium-251	-0.00778	pCi/g	U	U	0.02698	0.07235	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Cesium-137	-0.146	pCi/g	U	U	0.3418	0.5799	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Chromium	238	mg/kg		=		0.677	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Chromium	0.017	mg/L	B	J		0.00245	06-Dec-11	REG	F CAN F020540 PIPING SHELL

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Cobalt-60	0.318	pCi/g	U	U	0.3004	0.5295	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Copper	0.00685	mg/L	JU	UJ		0.00685	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Curium-243/244	-0.00892	pCi/g	U	U	0.01784	0.06568	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Curium-245/246	0.00000524	pCi/g	U	U	0.01048	0.02433	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Curium-247	0.000011	pCi/g	U	U	0.03122	0.08124	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Curium-248	0	pCi/g	U	U	0	0.02309	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Curium-250	0.156	pCi/g	U	UJ	0.2208	0.04154	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Lead	24.7	mg/kg	B	J		5.77	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Lead	0.0209	mg/L	U	U		0.0209	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Mercury	0.138	mg/kg	U	UJ		0.138	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Neptunium-237	0.0114	pCi/g	U	U	0.01396	0.02097	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Pct-Uranium-235	70.02	wt %		J	0	0	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Plutonium-238	0.00569	pCi/g	U	U	0.01392	0.02638	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Plutonium-239/240	-0.00284	pCi/g	U	U	0.005679	0.02091	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Plutonium-242	0.0114	pCi/g	U	UJ	0.01136	0.007697	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Plutonium-244	0.00000284	pCi/g	U	U	0.008026	0.02089	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Protactinium-231	-5.21	pCi/g	U	U	14.35	23.18	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Protactinium-234m	-7.36	pCi/g	U	U	51.15	71.07	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Selenium	5.18	mg/kg	U	U		5.18	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Selenium	0.0188	mg/L	U	U		0.0188	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Silver	5.8	mg/kg	B	J		1.93	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Silver	0.0145	mg/L	B	J		0.007	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Technetium-99	162	pCi/g		=	3.761	1.607	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Thorium-228	0.0064	pCi/g	U	U	0.01565	0.02965	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Thorium-230	2.12	pCi/g		=	0.1649	0.02353	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Thorium-231	-4.88	pCi/g	U	U	8.897	12.86	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Thorium-232	0.00319	pCi/g	U	U	0.01105	0.02348	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Thorium-234	-5.24	pCi/g	U	U	31.95	45.09	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Total Uranium	0.1102	µg/g		J	0	0.0303	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Uranium-232	-0.00562	pCi/g	U	U	0.007957	0.02614	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Uranium-233/234	3.65	pCi/g		=	0.2142	0.008517	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Uranium-235	0.167	pCi/g		J	0.05085	0.01051	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Uranium-235/234	132	%		J	0		06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Uranium-236	0	pCi/g	U	U	0	0.009436	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Uranium-238	0.0222	pCi/g		UJ	0.0166	0.0085	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-7	SOLID	SZ	Zinc	0.049	mg/L	B	J		0.027	06-Dec-11	REG	F CAN F020540 PIPING SHELL
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Americium-241	-0.1443	pCi/sample	U	U	0.2888	0.7774	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Americium-242	0.06361	pCi/sample	U	U	0.1272	0.1724	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Americium-243	0.06385	pCi/sample	U	U	0.1277	0.173	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Berkelium-247	0	pCi/sample	U	U	0	0.5517	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Californium-249	0	pCi/sample	U	U	0	0.2382	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Californium-251	0.2226	pCi/sample	U	U	0.6865	1.459	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Cesium-137	-6.222	pCi/sample	U	U	7.944	13.36	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Cobalt-60	9.586	pCi/sample	U	U	6.985	12.46	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Curium-243/244	0.0003286	pCi/sample	U	U	0.465	0.9872	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Curium-245/246	0	pCi/sample	U	U	0	0.1724	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Curium-247	0.1018	pCi/sample	U	U	0.3522	0.7482	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Curium-248	-0.0784	pCi/sample	U	U	0.1568	0.5774	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Curium-250	3.726	pCi/sample	U	UJ	5.27	1.088	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Neptunium-237	0.1996	pCi/sample	U	UJ	0.2304	0.1803	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Pct-Uranium-235	49.24	wt %		J	0	0	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Plutonium-238	0.0664	pCi/sample	U	U	0.2297	0.4881	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Plutonium-239/240	0	pCi/sample	U	U	0	0.1798	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Plutonium-242	0.1988	pCi/sample	U	UJ	0.2296	0.1796	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Plutonium-244	0.06634	pCi/sample	U	U	0.2295	0.4876	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Protactinium-231	-284	pCi/sample	U	U	351.5	544	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Protactinium-234m	-1169	pCi/sample	U	U	1243	1664	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Technetium-99	46.4	pCi/sample		=	0.687	0.168	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Thorium-228	0.2484	pCi/sample	U	U	0.5958	1.083	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Thorium-230	11.08	pCi/sample		=	1.915	0.2242	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Thorium-231	146.3	pCi/sample	U	U	183.5	304.3	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Thorium-232	0.000165	pCi/sample	U	U	0.3301	0.7665	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Thorium-234	458.2	pCi/sample	U	U	746.7	1069	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Total Uranium	8.969	µg/sample		J	0	0.7994	06-Dec-11	REG	F CAN F020540 WIPE

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Uranium-232	-0.06616	pCi/sample	U	U	0.1323	0.4873	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Uranium-233/234	219.8	pCi/sample		=	7.567	0.6995	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Uranium-235	9.543	pCi/sample		J	1.764	0.59	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Uranium-235/234	126	%		J	0		06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Uranium-236	1.872	pCi/sample		J	0.7343	0.1951	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-5-2-2	B26UP2550202-8	WIPE	SW	Uranium-238	2.141	pCi/sample		=	0.7454	0.1758	06-Dec-11	REG	F CAN F020540 WIPE
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	1,2,4-Trichlorobenzene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	1,2-Dichlorobenzene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	1,3-Dichlorobenzene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	1,4-Dichlorobenzene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2,4,5-Trichlorophenol	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2,4,6-Trichlorophenol	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2,4-Dichlorophenol	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2,4-Dinitrophenol	665	µg/kg	U	U		665	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2,4-Dinitrotoluene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2,6-Dinitrotoluene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2-Chloronaphthalene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2-Chlorophenol	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2-Methyl-4,6-dinitrophenol	665	µg/kg	U	U		665	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2-Methylphenol	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	2-Nitrophenol	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	3- and 4- Methylphenol	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	4-Bromophenyl phenyl ether	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	4-Chloro-3-methylphenol	266	µg/kg	U	U		266	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	4-Chlorophenyl phenyl ether	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	4-Nitrophenol	665	µg/kg	U	U		665	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Acenaphthene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Acenaphthylene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Americium-241	0.00000427	pCi/g	U	U	0.01209	0.03147	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Americium-242	0.015	pCi/g	U	UJ	0.01504	0.01109	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Americium-243	0.0151	pCi/g	U	UJ	0.01509	0.01022	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Anthracene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Arsenic	156	mg/kg		=		6.39	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Arsenic	0.063	mg/L	B	J		0.0154	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Barium	0.768	mg/kg	B	J		0.146	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Barium	0.033	mg/L		=		0.000775	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Benz(a)anthracene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Benzo(a)pyrene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Benzo(b)fluoranthene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Benzo(ghi)perylene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Benzo(k)fluoranthene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.0287	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Beryllium	0.223	mg/kg	U	U		0.223	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Bis(2-chloroethoxy)methane	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Bis(2-chloroethyl) ether	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Bis(2-ethylhexyl)phthalate	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Butyl benzyl phthalate	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Cadmium	14.9	mg/kg		=		0.728	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Cadmium	0.0065	mg/L	B	J		0.00159	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01239	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Californium-251	0.0106	pCi/g	U	U	0.02124	0.02878	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Cesium-137	-0.172	pCi/g	U	U	0.2265	0.381	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Chromium	5710	mg/kg	W	J		0.752	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Chromium	0.1	mg/L		=		0.00431	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Chrysene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Cobalt-60	0.33	pCi/g	U	U	0.204	0.3662	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Copper	0.00377	mg/L	U	U		0.00377	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.01319	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Curium-245/246	0.00376	pCi/g	U	U	0.01302	0.02766	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Curium-247	0.0181	pCi/g	U	U	0.03184	0.05588	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Curium-248	0.00929	pCi/g	U	U	0.01314	0.01259	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.0566	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Dibenz(a,h)anthracene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Diethyl phthalate	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Di-n-butyl phthalate	665	µg/kg	U	U		665	08-Feb-12	REG	SEAL

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Di-n-octylphthalate	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Diphenyldiazene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Fluoranthene	665	µg/kg	U	U		665	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Fluorene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Hexachlorobenzene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Hexachlorobutadiene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Hexachlorocyclopentadiene	133	µg/kg	JU	UJ		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Hexachloroethane	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Indeno(1,2,3-cd)pyrene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Isophorone	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Lead	45.5	mg/kg	B	J		6.42	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Lead	0.0085	mg/L	B	J		0.0061	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Mercury	0.154	mg/kg	U	U		0.154	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Mercury	0.01	mg/L	U	U		0.01	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Naphthalene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Neptunium-237	-0.0159	pCi/g	U	U	0.01588	0.04774	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Nitrobenzene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	N-Nitrosodimethylamine	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	N-Nitroso-di-n-propylamine	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	N-Nitrosodiphenylamine	665	µg/kg	U	U		665	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	PCB-1016	125	µg/kg	U	U		125	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	PCB-1221	125	µg/kg	U	U		125	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	PCB-1232	125	µg/kg	U	U		125	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	PCB-1242	125	µg/kg	U	U		125	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	PCB-1248	125	µg/kg	U	U		125	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	PCB-1254	125	µg/kg	U	U		125	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	PCB-1260	125	µg/kg	U	U		125	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	PCB-1268	125	µg/kg	U	U		125	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Pct-Uranium-235	77.92	wt %		J	0	0	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Pentachlorophenol	665	µg/kg	U	U		665	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Phenanthrene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Phenol	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Plutonium-238	0.00000396	pCi/g	U	U	0.01121	0.02916	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Plutonium-239/240	-0.0317	pCi/g	U	U	0.0317	0.07458	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Plutonium-242	-0.0277	pCi/g	U	U	0.02374	0.0628	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Plutonium-244	-0.00395	pCi/g	U	U	0.0177	0.04262	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Polychlorinated biphenyl	1000	µg/kg	U	U		1000	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Protactinium-231	-2.58	pCi/g	U	U	9.484	15.4	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Protactinium-234m	-0.54	pCi/g	U	U	33.59	48.08	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Pyrene	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Pyridine	133	µg/kg	U	U		133	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Selenium	5.76	mg/kg	U	U		5.76	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Selenium	0.014	mg/L	U	U		0.014	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Silver	3.99	mg/kg	B	J		2.15	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Silver	0.0067	mg/L	U	U		0.0067	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Technetium-99	1100	pCi/g		=	11.55	1.724	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Thorium-228	0.0447	pCi/g	U	U	0.04208	0.05471	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Thorium-230	0.253	pCi/g		=	0.09178	0.06912	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Thorium-231	-1.65	pCi/g	U	U	6.409	8.687	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Thorium-232	0.00744	pCi/g	U	U	0.02573	0.05468	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Thorium-234	-3.52	pCi/g	U	U	22.16	30.1	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Uranium-232	0.00000234	pCi/g	U	U	0.006629	0.01725	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Uranium-233/234	31.3	pCi/g		=	0.5237	0.01613	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Uranium-235	0.971	pCi/g		J	0.1024	0.007326	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Uranium-235/234	89.8	%		J	0	0	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Uranium-236	0.085	pCi/g		J	0.02873	0.00658	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Uranium-238	0.105	pCi/g		=	0.03093	0.01609	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-3	SOLID	SZ	Zinc	0.077	mg/L		=		0.005	08-Feb-12	REG	SEAL
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Americium-241	0.2261	pCi/sample	U	UJ	0.2611	0.2042	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Americium-242	-0.06272	pCi/sample	U	U	0.2812	0.6769	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Americium-243	-0.06296	pCi/sample	U	U	0.2822	0.6794	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Berkelium-247	0.3544	pCi/sample	U	U	0.5012	0.4802	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Californium-249	-0.07645	pCi/sample	U	U	0.1529	0.5631	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Californium-251	0.5331	pCi/sample	U	UJ	0.6156	0.4816	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Cesium-137	-27.87	pCi/sample	U	U	15.72	25.72	08-Feb-12	REG	DEPOSIT (WIPE)

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Cobalt-60	21.41	pCi/sample	U	U	13.8	24.8	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Curium-243/244	0.08579	pCi/sample	U	U	0.1716	0.2325	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Curium-245/246	-0.06272	pCi/sample	U	U	0.2812	0.6769	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Curium-247	0.1062	pCi/sample	U	U	0.3674	0.7805	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Curium-248	0.2456	pCi/sample	U	UJ	0.2836	0.2219	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Curium-250	0	pCi/sample	U	U	0	0.9471	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Neptunium-237	0.2799	pCi/sample	U	UJ	0.2799	0.1896	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Pct-Uranium-235	85.34	wt %		J	0	0	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Plutonium-238	-0.1393	pCi/sample	U	U	0.3416	0.8377	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Plutonium-239/240	-0.06957	pCi/sample	U	U	0.3119	0.7508	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Plutonium-242	0.4184	pCi/sample	U	U	0.4408	0.6471	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Plutonium-244	-0.06964	pCi/sample	U	U	0.1393	0.5129	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Protactinium-231	37.52	pCi/sample	U	U	659.9	1082	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Protactinium-234m	-1584	pCi/sample	U	U	2347	3278	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Technetium-99	375000	pCi/sample		=	2620	110	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Thorium-228	0.4109	pCi/sample	U	U	0.6121	1.007	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Thorium-230	6.44	pCi/sample		=	1.995	1.474	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Thorium-231	-57.98	pCi/sample	U	U	452.3	617.2	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Thorium-232	0.4103	pCi/sample	U	UJ	0.4738	0.3707	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Thorium-234	-387.3	pCi/sample	U	U	1552	2105	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Uranium-232	0.642	pCi/sample	U	U	2.217	4.195	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Uranium-233/234	13120	pCi/sample		=	130.7	6.327	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Uranium-235	294.7	pCi/sample		J	21.8	3.722	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Uranium-235/234	65	%		J	0	0	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Uranium-236	20.16	pCi/sample		J	5.483	2.649	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CP2560202-4	WIPE	SW	Uranium-238	26.6	pCi/sample		=	6.222	4.25	08-Feb-12	REG	DEPOSIT (WIPE)
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Americium-241	0.01065	pCi/g	U	U	0.03683	0.07825	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Americium-242	0.06282	pCi/g	U	U	0.06619	0.09717	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Americium-243	0.06306	pCi/g	U	U	0.06644	0.09754	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Arsenic	45.1	mg/kg	B	=		29.6	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Arsenic	1.18	mg/L		=		0.0308	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Barium	2.33	mg/kg	U	U		2.33	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Barium	1.32	mg/L		U		0.00155	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Berkelium-247	0.1179	pCi/g	U	UJ	0.1179	0.0799	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Beryllium	4.23	mg/kg	U	U		4.23	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Cadmium	3.41	mg/kg	U	U		3.41	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Cadmium	0.013	mg/L	B	J		0.00318	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Californium-249	0.02548	pCi/g	U	U	0.05092	0.09369	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Californium-251	0.1183	pCi/g	U	UJ	0.1183	0.08013	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Cesium-137	-0.8818	pCi/g	U	U	1.118	1.778	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Chromium	707	mg/kg	B	J		126	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Chromium	2.46	mg/L		U		0.00863	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Cobalt-60	-0.1235	pCi/g	U	U	1.874	3.597	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Curium-243/244	0.02424	pCi/g	U	U	0.05929	0.1124	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Curium-245/246	0.01049	pCi/g	U	U	0.03625	0.07701	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.04057	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Curium-248	0	pCi/g	U	U	0	0.03131	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1576	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Lead	243	mg/kg		=		20.8	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Lead	0.13	mg/L		=		0.0122	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Mercury	0.203	mg/kg		=		0.064	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Neptunium-237	0.3062	pCi/g		=	0.1198	0.08045	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	PCB-1016	952	µg/kg	U	U		952	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	PCB-1221	952	µg/kg	U	U		952	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	PCB-1232	952	µg/kg	U	U		952	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	PCB-1242	952	µg/kg	U	U		952	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	PCB-1248	952	µg/kg	U	U		952	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	PCB-1254	952	µg/kg	U	U		952	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	PCB-1260	952	µg/kg	U	U		952	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	PCB-1268	952	µg/kg	U	U		952	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Pct-Uranium-235	83.9	wt %		J	0	0	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Plutonium-238	0.01091	pCi/g	U	U	0.03776	0.08023	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Plutonium-239/240	0.06544	pCi/g	U	U	0.06895	0.1012	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Plutonium-242	0.0516	pCi/g	U	U	0.05462	0.07596	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Plutonium-244	0.0000103	pCi/g	U	U	0.02919	0.07596	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A

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STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Polychlorinated biphenyl	7620	µg/kg	U	U		7620	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Protactinium-231	-2.542	pCi/g	U	U	23.33	39.73	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Protactinium-234m	57.5	pCi/g	U	U	166.5	330.1	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Selenium	31.2	mg/kg	U	U		31.2	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Selenium	0.028	mg/L	NU	UJ		0.028	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Silver	330	mg/kg	B	J		91.4	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Silver	0.0134	mg/L	U	UJ		0.0134	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Technetium-99	83900	pCi/g		J	587	47.3	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Thorium-228	0.48	pCi/g		=	0.1614	0.1142	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Thorium-230	56.18	pCi/g		=	1.664	0.1143	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Thorium-231	904.7	pCi/g		=	11.93	23.26	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Thorium-232	0.02459	pCi/g	U	U	0.03478	0.03332	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Thorium-234	23.78	pCi/g	U	U	23.08	38.07	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Total Uranium	555.4	µg/g		=	0	5.652	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Uranium-232	1.43	pCi/g	U	U	1.225	1.502	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Uranium-233/234	33170	pCi/g		=	169.5	2.33	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Uranium-235	1007	pCi/g		J	32.81	1.966	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Uranium-235/234	87.8	%		=	0		12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Uranium-236	69.09	pCi/g		J	8.142	0.6501	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1	SOLID	SZ	Uranium-238	94.67	pCi/g		=	9.067	1.59	12-Jul-12	REG	BARRIER: F-CAN; #F021606 AND #F021616;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	1,2,4-Trichlorobenzene	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	1,2-Dichlorobenzene	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	1,2-Diphenylhydrazine	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	1,3-Dichlorobenzene	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	1,4-Dichlorobenzene	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2,4,5-Trichlorophenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2,4,6-Trichlorophenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2,4-Dichlorophenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2,4-Dinitrophenol	4350	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2,4-Dinitrotoluene	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2,6-Dinitrotoluene	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2-Chloronaphthalene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2-Chlorophenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2-Methyl-4,6-dinitrophenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2-Methylphenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	2-Nitrophenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	4-Bromophenyl phenyl ether	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	4-Chloro-3-methylphenol	2170	µg/kg	JU			870	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	4-Chlorophenyl phenyl ether	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	4-Nitrophenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Acenaphthene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Acenaphthylene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Anthracene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Benz(a)anthracene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Benzo(a)pyrene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Benzo(b)fluoranthene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Benzo(ghi)perylene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Benzo(k)fluoranthene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Bis(2-chloroethoxy)methane	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Bis(2-chloroethyl) ether	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Bis(2-ethylhexyl)phthalate	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Butyl benzyl phthalate	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Chrysene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Dibenz(a,h)anthracene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Diethyl phthalate	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Di-n-butyl phthalate	1000	µg/kg	BJ			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Di-n-octylphthalate	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Diphenylamine	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Fluoranthene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Fluorene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Hexachlorobenzene	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Hexachlorobutadiene	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Hexachlorocyclopentadiene	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Hexachloroethane	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Indeno(1,2,3-cd)pyrene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Isophorone	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	m+p Methylphenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Naphthalene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Nitrobenzene	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	N-Nitrosodimethylamine	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Pentachlorophenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Phenanthrene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Phenol	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Pyrene	217	µg/kg	JU			65.2	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-1C	LIQUID	NW	Pyridine	2170	µg/kg	JU			652	26-Jul-12	REG	(BARRIER)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MBLK, LCS, LCSD, AND MS)
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Americium-241	-0.001863	pCi/g	U	U	0.006462	0.01733	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Americium-242	0.003415	pCi/g	U	U	0.00964	0.01834	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Americium-243	0.003428	pCi/g	U	U	0.009677	0.01841	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Arsenic	4.95	mg/kg	U	=		4.95	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Arsenic	0.0255	mg/L	B	J		0.00308	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Barium	0.39	mg/kg	U	U		0.39	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Barium	0.0141	mg/L		U		0.000155	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Berkelium-247	0	pCi/g	U	U	0	0.01301	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A

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STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Beryllium	0.707	mg/kg	U	U		0.707	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Cadmium	0.57	mg/kg	U	U		0.57	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Cadmium	0.0011	mg/L	B	J		0.000318	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Californium-249	0	pCi/g	U	U	0	0.00562	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Californium-251	0	pCi/g	U	U	0	0.01305	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Cesium-137	0.06677	pCi/g	U	U	0.1993	0.3741	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Chromium	188	mg/kg	B	J		21	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Chromium	0.0605	mg/L		U		0.000863	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Cobalt-60	-0.2821	pCi/g	U	U	0.3162	0.5201	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Curium-243/244	-0.002121	pCi/g	U	U	0.007356	0.01972	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Curium-245/246	-0.001698	pCi/g	U	U	0.009015	0.02047	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Curium-247	2.625E-06	pCi/g	U	U	0.007428	0.01933	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Curium-248	0.006084	pCi/g	U	UJ	0.007025	0.005496	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Curium-250	0	pCi/g	U	U	0	0.02567	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Lead	4.84	mg/kg	B	J		3.47	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Lead	0.0128	mg/L		=		0.00122	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Mercury	0.011	mg/kg	U	U		0.011	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Neptunium-237	0.001957	pCi/g	U	U	0.003913	0.005303	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	PCB-1016	198	µg/kg	U	U		198	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	PCB-1221	198	µg/kg	U	U		198	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	PCB-1232	198	µg/kg	U	U		198	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	PCB-1242	198	µg/kg	U	U		198	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	PCB-1248	198	µg/kg	U	U		198	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	PCB-1254	198	µg/kg	U	U		198	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	PCB-1260	198	µg/kg	U	U		198	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	PCB-1268	198	µg/kg	U	U		198	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Pct-Uranium-235	53.57	wt %		J	0	0	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Plutonium-238	0.009762	pCi/g	U	U	0.01294	0.02099	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Plutonium-239/240	0.003904	pCi/g	U	U	0.007803	0.01436	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Plutonium-242	0.003898	pCi/g	U	U	0.005513	0.005282	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Plutonium-244	-0.005842	pCi/g	U	U	0.006746	0.02097	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Polychlorinated biphenyl	1590	µg/kg	U	U		1590	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Protactinium-231	2.985	pCi/g	U	U	3.502	6.461	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Protactinium-234m	12.39	pCi/g	U	U	26.4	53.78	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Selenium	5.21	mg/kg	U	U		5.21	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Selenium	0.0028	mg/L	U	U		0.0028	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Silver	61.6	mg/kg	B	J		15.3	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Silver	0.0026	mg/L	B	U		0.00134	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Technetium-99	79.1	pCi/g		=	1.96	0.965	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Thorium-228	3.439E-06	pCi/g	U	U	0.006882	0.01597	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Thorium-230	0.1895	pCi/g		=	0.03988	0.0324	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Thorium-231	0.5494	pCi/g	U	U	0.4604	0.8296	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Thorium-232	-0.003436	pCi/g	U	U	0.004859	0.01596	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Thorium-234	-0.1787	pCi/g	U	U	1.002	1.39	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Total Uranium	0.3264	µg/g		=	0	0.01906	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Uranium-232	-0.005185	pCi/g	U	U	0.007733	0.02078	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Uranium-233/234	12.56	pCi/g		=	0.3152	0.01834	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Uranium-235	0.3778	pCi/g		J	0.0607	0.006606	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Uranium-235/234	87	%		=	0		12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Uranium-236	0.07004	pCi/g		J	0.02476	0.005931	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2	SOLID	MC	Uranium-238	0.07494	pCi/g		=	0.02431	0.005344	12-Jul-12	REG	SHELL: F-CAN # F021606;TRANSFER# N/A
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	1,2,4-Trichlorobenzene	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	1,2-Dichlorobenzene	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	1,2-Diphenylhydrazine	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	1,3-Dichlorobenzene	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	1,4-Dichlorobenzene	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2,4,5-Trichlorophenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2,4,6-Trichlorophenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2,4-Dichlorophenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2,4-Dinitrophenol	635	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2,4-Dinitrotoluene	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2,6-Dinitrotoluene	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2-Chloronaphthalene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2-Chlorophenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2-Methyl-4,6-dinitrophenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2-Methylphenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	2-Nitrophenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	4-Bromophenyl phenyl ether	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	4-Chloro-3-methylphenol	317	µg/kg	JU			127	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	4-Chlorophenyl phenyl ether	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	4-Nitrophenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Acenaphthene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Acenaphthylene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Anthracene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Benz(a)anthracene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Benzo(a)pyrene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Benzo(b)fluoranthene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Benzo(ghi)perylene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Benzo(k)fluoranthene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Bis(2-chloroethoxy)methane	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Bis(2-chloroethyl) ether	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Bis(2-ethylhexyl)phthalate	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Butyl benzyl phthalate	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Chrysene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Dibenz(a,h)anthracene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Diethyl phthalate	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Di-n-butyl phthalate	146	µg/kg	BJ			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Di-n-octylphthalate	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Diphenylamine	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Fluoranthene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Fluorene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Hexachlorobenzene	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Hexachlorobutadiene	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Hexachlorocyclopentadiene	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Hexachloroethane	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Indeno(1,2,3-cd)pyrene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Isophorone	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	m+p Methylphenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Naphthalene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Nitrobenzene	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	N-Nitrosodimethylamine	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Pentachlorophenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Phenanthrene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Phenol	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Pyrene	31.7	µg/kg	JU			9.52	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-2C	LIQUID	NW	Pyridine	317	µg/kg	JU			95.2	26-Jul-12	REG	(SHELL)THIS IS AN EXTRACT SAMPLE OF METHYLENE CHLORIDE SOLUTION; ADDITIONAL VOLUME PROVIDED FOR MS)
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Americium-241	-0.006416	pCi/g	U	U	0.02225	0.05967	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Americium-242m	-0.007735	pCi/g	U	U	0.01094	0.03594	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Americium-243	-0.007765	pCi/g	U	U	0.01098	0.03607	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Arsenic	6.04	mg/kg	B			2.07	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Barium	4.24	mg/kg				0.0419	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Berkelium-247	0.02182	pCi/g	U	U	0.04361	0.08024	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Beryllium	0.074	mg/kg	B			0.039	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Cadmium	3.18	mg/kg				0.0952	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01276	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Californium-251	0.02188	pCi/g	U	U	0.04373	0.08047	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Cesium-137	-0.09118	pCi/g	U	U	0.1013	0.1655	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Chromium	9.1	mg/kg				0.175	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Cobalt-60	0.0811	pCi/g	U	U	0.08498	0.1518	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.01983	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Curium-245/246	-0.003868	pCi/g	U	U	0.007735	0.02848	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Curium-247	9.041E-06	pCi/g	U	U	0.02558	0.06658	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Curium-248	0.02794	pCi/g	U	U	0.03421	0.05138	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.05829	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Lead	0.434	mg/kg	U			0.434	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Mercury	0.00493	mg/kg	U			0.00493	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Neptunium-237	0.004035	pCi/g	U	U	0.00807	0.01093	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Pct-Uranium-235	74.48	wt %	U	J	0	0	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Plutonium-238	0	pCi/g	U	U	0	0.0109	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Plutonium-239/240	-0.00402	pCi/g	U	U	0.008039	0.02961	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Plutonium-242	4.016E-06	pCi/g	U	U	0.01136	0.02958	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Plutonium-244	-0.004016	pCi/g	U	U	0.008031	0.02958	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Protactinium-231	-1.98	pCi/g	U	U	4.416	7.283	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Protactinium-234m	-7.813	pCi/g	U	U	14.86	20.44	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Selenium	1.11	mg/kg	U			1.11	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Silver	0.641	mg/kg	B			0.473	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Technetium-99	26.1	pCi/g		=	2	2.22	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Thorium-228	0.01381	pCi/g	U	U	0.02433	0.04268	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Thorium-230	2.458	pCi/g		=	0.2135	0.04273	27-Aug-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Thorium-231	-0.6314	pCi/g	U	U	2.86	4.002	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Thorium-232	0.01378	pCi/g	U	UJ	0.01592	0.01245	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Thorium-234	-11.35	pCi/g	U	U	10.24	14.17	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Total Uranium	0.02352	µg/g	U	UJ	0	0.04227	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Uranium-232	3.799E-06	pCi/g	U	U	0.01075	0.02797	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Uranium-233/234	1.88	pCi/g		=	0.1828	0.04716	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Uranium-235	0.03785	pCi/g		UJ	0.02861	0.01465	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Uranium-235/234	58.2	%		J	0	0	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Uranium-236	0.00971	pCi/g	U	UJ	0.01373	0.01316	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5	SOLID	SZ	Uranium-238	0.004374	pCi/g	U	U	0.008748	0.01185	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5B	SOLID	SZ	PCB-1016	0.000706	mg/kg	U	U		0.000235	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5B	SOLID	SZ	PCB-1221	0.000706	mg/kg	U	U		0.000235	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5B	SOLID	SZ	PCB-1232	0.000706	mg/kg	U	U		0.000235	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5B	SOLID	SZ	PCB-1242	0.000706	mg/kg	U	U		0.000235	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5B	SOLID	SZ	PCB-1248	0.000706	mg/kg	U	U		0.000235	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5B	SOLID	SZ	PCB-1254	0.000706	mg/kg	U	U		0.000235	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5B	SOLID	SZ	PCB-1260	0.000706	mg/kg	U	U		0.000235	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5B	SOLID	SZ	PCB-1268	0.000706	mg/kg	U	U		0.000235	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5B	SOLID	SZ	Polychlorinated biphenyl	0.000706	mg/kg	U	U		0.000235	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	1,2,4-Trichlorobenzene	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	1,2-Dichlorobenzene	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	1,2-Diphenylhydrazine	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	1,3-Dichlorobenzene	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	1,4-Dichlorobenzene	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2,4,5-Trichlorophenol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2,4,6-Trichlorophenol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2,4-Dichlorophenol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2,4-Dinitrophenol	133	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2,4-Dinitrotoluene	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2,6-Dinitrotoluene	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2-Chloronaphthalene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2-Chlorophenol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2-Methyl-4,6-dinitrophenol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2-Methylphenol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	2-Nitrophenol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	4-Bromophenyl phenyl ether	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	4-Chloro-3-methylphenol	66.6	µg/kg	U	U		26.7	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	4-Chlorophenyl phenyl ether	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	4-Nitrophenol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Acenaphthene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Acenaphthylene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Anthracene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Benz(a)anthracene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Benzo(a)pyrene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Benzo(b)fluoranthene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Benzo(ghi)perylene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Benzo(k)fluoranthene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Bis(2-chloroethoxy)methane	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Bis(2-chloroethyl) ether	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Bis(2-ethylhexyl)phthalate	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Butyl benzyl phthalate	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Chrysene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Dibenz(a,h)anthracene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Diethyl phthalate	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Di-n-butyl phthalate	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Di-n-octylphthalate	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Diphenylamine	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Fluoranthene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Fluorene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Hexachlorobenzene	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Hexachlorobutadiene	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Hexachlorocyclopentadiene	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Hexachloroethane	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Indeno(1,2,3-cd)pyrene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Isophorone	66.6	µg/kg	U	U		20	27-Aug-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	m,p-cresol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Naphthalene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Nitrobenzene	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	N-Nitrosodimethylamine	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	N-Nitroso-di-n-propylamine	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Pentachlorophenol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Phenanthrene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Phenol	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Pyrene	6.66	µg/kg	U	U		2	27-Aug-13	REG	
X326-25-6-2-2	B26CV2560202-5C	SOLID	SZ	Pyridine	66.6	µg/kg	U	U		20	27-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Americium-241	0.03652	pCi/g		UJ	0.03266	0.01979	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Americium-242m	0.003538	pCi/g	U	U	0.01224	0.02601	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Americium-243	0.003552	pCi/g	U	U	0.01229	0.02611	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Arsenic	6.96	mg/kg	B			1.87	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Barium	4.27	mg/kg				0.0378	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02698	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Beryllium	0.0445	mg/kg	B			0.0352	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Cadmium	2.38	mg/kg				0.0859	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Californium-249	-0.004296	pCi/g	U	U	0.008592	0.03164	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Californium-251	0.009985	pCi/g	U	U	0.01997	0.02706	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Cesium-137	-0.035	pCi/g	U	U	0.09237	0.153	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Chromium	5.76	mg/kg				0.158	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Cobalt-60	0.05952	pCi/g	U	U	0.07817	0.1385	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.02253	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Curium-245/246	0.003538	pCi/g	U	U	0.01224	0.02601	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Curium-247	0.00001027	pCi/g	U	U	0.02906	0.07564	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Curium-248	0	pCi/g	U	U	0	0.0215	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Curium-250	0.09997	pCi/g	U	UJ	0.1999	0.05322	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Lead	0.392	mg/kg	U			0.392	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Mercury	0.00445	mg/kg	U			0.00445	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Neptunium-237	0.02057	pCi/g		UJ	0.0168	0.009292	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Pct-Uranium-235	112.7	wt %		J	0	0	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Plutonium-238	0.003426	pCi/g	U	U	0.01528	0.03174	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Plutonium-239/240	-0.006831	pCi/g	U	U	0.009661	0.03174	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Plutonium-242	0.003419	pCi/g	U	U	0.01183	0.02513	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Plutonium-244	0.003419	pCi/g	U	U	0.01183	0.02513	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Protactinium-231	-0.7369	pCi/g	U	U	3.915	6.501	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Protactinium-234m	-11.93	pCi/g	U	U	13.6	18.61	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Selenium	5.16	mg/kg	B			1.01	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Silver	0.69	mg/kg	B			0.427	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Technetium-99	257	pCi/g		=	5.29	2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Thorium-228	-0.003848	pCi/g	U	U	0.01725	0.04152	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Thorium-230	1.955	pCi/g		=	0.1758	0.05445	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Thorium-231	-1.19	pCi/g	U	U	2.633	3.699	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Thorium-232	0.003864	pCi/g	U	U	0.01724	0.0358	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Thorium-234	-11.3	pCi/g	U	U	9.442	13.16	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Total Uranium	0.1334	µg/g	U	UJ	0	0.1505	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Uranium-232	-0.003506	pCi/g	U	U	0.007012	0.02582	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Uranium-233/234	10.48	pCi/g		=	0.3976	0.04516	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Uranium-235	0.3249	pCi/g		J	0.07876	0.03415	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Uranium-235/234	89.6	%		J	0	0	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Uranium-236	0.05001	pCi/g		UJ	0.03333	0.03868	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7	SOLID	SZ	Uranium-238	0.01503	pCi/g	U	U	0.026	0.04507	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7B	SOLID	SZ	PCB-1016	0.000671	mg/kg	U	U		0.000223	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7B	SOLID	SZ	PCB-1221	0.000671	mg/kg	U	U		0.000223	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7B	SOLID	SZ	PCB-1232	0.000671	mg/kg	U	U		0.000223	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7B	SOLID	SZ	PCB-1242	0.000671	mg/kg	U	U		0.000223	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7B	SOLID	SZ	PCB-1248	0.000671	mg/kg	U	U		0.000223	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7B	SOLID	SZ	PCB-1254	0.000584	mg/kg	J	J		0.000223	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7B	SOLID	SZ	PCB-1260	0.000422	mg/kg	J	J		0.000223	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7B	SOLID	SZ	PCB-1268	0.000671	mg/kg	U	U		0.000223	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7B	SOLID	SZ	Polychlorinated biphenyl	0.00101	mg/kg		J		0.000223	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	1,2,4-Trichlorobenzene	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	1,2-Dichlorobenzene	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	1,2-Diphenylhydrazine	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	1,3-Dichlorobenzene	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	1,4-Dichlorobenzene	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2,4,5-Trichlorophenol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2,4,6-Trichlorophenol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2,4-Dichlorophenol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2,4-Dinitrophenol	135	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2,4-Dinitrotoluene	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2,6-Dinitrotoluene	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2-Chloronaphthalene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2-Chlorophenol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2-Methyl-4,6-dinitrophenol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2-Methylphenol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	2-Nitrophenol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	4-Bromophenyl phenyl ether	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	4-Chloro-3-methylphenol	67.4	µg/kg	U	U		27	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	4-Chlorophenyl phenyl ether	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	4-Nitrophenol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Acenaphthene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Acenaphthylene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Anthracene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Benz(a)anthracene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Benzo(a)pyrene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Benzo(b)fluoranthene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Benzo(ghi)perylene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Benzo(k)fluoranthene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Bis(2-chloroethoxy)methane	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Bis(2-chloroethyl) ether	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Bis(2-ethylhexyl)phthalate	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Butyl benzyl phthalate	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Chrysene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Dibenz(a,h)anthracene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Diethyl phthalate	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Di-n-butyl phthalate	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Di-n-octylphthalate	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Diphenylamine	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Fluoranthene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Fluorene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Hexachlorobenzene	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Hexachlorobutadiene	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Hexachlorocyclopentadiene	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Hexachloroethane	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Indeno(1,2,3-cd)pyrene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Isophorone	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	m,p-cresol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Naphthalene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Nitrobenzene	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	N-Nitrosodimethylamine	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	N-Nitroso-di-n-propylamine	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Pentachlorophenol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Phenanthrene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Phenol	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Pyrene	6.74	µg/kg	U	U		2.02	28-Aug-13	REG	
X326-25-6-2-2	B26UP2560202-7C	SOLID	SZ	Pyridine	67.4	µg/kg	U	U		20.2	28-Aug-13	REG	
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	1,2,4-Trichlorobenzene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	1,2-Dichlorobenzene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	1,3-Dichlorobenzene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	1,4-Dichlorobenzene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2,4,5-Trichlorophenol	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2,4,6-Trichlorophenol	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2,4-Dichlorophenol	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2,4-Dinitrophenol	5000	µg/kg	JU	UJ		5000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2,4-Dinitrotoluene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2,6-Dinitrotoluene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2-Chloronaphthalene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2-Chlorophenol	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2-Methyl-4,6-dinitrophenol	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2-Methylphenol	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	2-Nitrophenol	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	3- and 4- Methylphenol	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	3- and 4- Methylphenol	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	4-Bromophenyl phenyl ether	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	4-Chloro-3-methylphenol	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	4-Chlorophenyl phenyl ether	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	4-Nitrophenol	5000	µg/kg	U	UJ		5000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Acenaphthene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Acenaphthylene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Americium-241	-0.009807	pCi/g	U	U	0.04397	0.1058	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Americium-242	-0.01686	pCi/g	U	U	0.02384	0.07831	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Americium-243	-0.01692	pCi/g	U	U	0.02393	0.07861	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Anthracene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Arsenic	64.1	mg/kg	B	J		11.5	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Arsenic	0.0041	mg/L	B	J		0.00265	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Barium	7.71	mg/kg	U	U		7.71	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Barium	0.0547	mg/L		=		0.00177	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Benz(a)anthracene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Benzo(a)pyrene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Benzo(b)fluoranthene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Benzo(ghi)perylene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Benzo(k)fluoranthene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.0644	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Beryllium	3.36	mg/kg	U	U		3.36	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Bis(2-chloroethoxy)methane	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Bis(2-chloroethyl) ether	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Bis(2-ethylhexyl)phthalate	5010	µg/kg	B	U		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Butyl benzyl phthalate	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Cadmium	7.93	mg/kg	U	U		7.93	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Cadmium	0.0055	mg/L	B	J		0.00182	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02781	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.06458	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Cesium-137	-1.294	pCi/g	U	U	1.096	1.759	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Chromium	53.2	mg/kg	B	J		29.6	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Chromium	2.25	mg/L		=		0.0068	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Chrysene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Cobalt-60	0.8392	pCi/g	U	U	0.8922	1.6	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Copper	0.14	mg/L		=		0.00888	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Curium-243/244	-0.01119	pCi/g	U	U	0.02237	0.08238	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Curium-245/246	-0.008428	pCi/g	U	U	0.01686	0.06207	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.03752	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Curium-248	0.03206	pCi/g	U	UJ	0.03702	0.02896	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.127	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Dibenz(a,h)anthracene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Diethyl phthalate	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Di-n-butyl phthalate	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Di-n-octylphthalate	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Diphenyldiazene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Fluoranthene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Fluorene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Hexachlorobenzene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Hexachlorobutadiene	5000	µg/kg	U	UJ		5000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Hexachlorobutadiene	0.1	mg/L	U	UJ		0.1	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Hexachlorocyclopentadiene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Hexachloroethane	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Indeno(1,2,3-cd)pyrene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Isophorone	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Lead	181	mg/kg		J		8.28	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Lead	0.0113	mg/L	B	J		0.0019	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Mercury	0.0492	mg/kg		J		0.0457	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Naphthalene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Neptunium-237	0.0952	pCi/g		UJ	0.06344	0.07362	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Nitrobenzene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	N-Nitrosodimethylamine	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	N-Nitroso-di-n-propylamine	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	N-Nitrosodiphenylamine	5000	µg/kg	U	UJ		5000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Pct-Uranium-235	15.94	pCi/g		J	0.8611	0.03151	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Pct-Uranium-235	78.9	wt %		J	0	0	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Pentachlorophenol	5000	µg/kg	U	UJ		5000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Pentachlorophenol	0.1	mg/L	U	UJ		0.1	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Phenanthrene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Phenol	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Plutonium-238	0.0791	pCi/g	U	UJ	0.06326	0.0851	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Plutonium-239/240	0.538	pCi/g		J	0.1304	0.02143	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Plutonium-242	-0.05129	pCi/g	U	U	0.05922	0.1841	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.04637	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Protactinium-231	-31.31	pCi/g	U	U	46.09	74.02	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Protactinium-234m	-151.4	pCi/g	U	U	168.7	211.7	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Pyrene	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Pyridine	1000	µg/kg	U	UJ		1000	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Selenium	15.9	mg/kg	U	U		15.9	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Selenium	0.00365	mg/L	U	U		0.00365	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Silver	57.1	mg/kg	U	U		57.1	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Silver	0.0131	mg/L	U	U		0.0131	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Technetium-99	161000	pCi/g		J	1130	28.5	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Thorium-228	0.1038	pCi/g		UJ	0.0692	0.03124	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Thorium-230	35.86	pCi/g		=	1.287	0.08493	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Thorium-231	17.4	pCi/g	U	U	28.55	47.09	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Thorium-232	0.03457	pCi/g	U	UJ	0.03991	0.03123	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Thorium-234	-40.3	pCi/g	U	U	92.7	130.1	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Total Uranium	9.351	µg/g		J	0	0.09091	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Uranium-232	8.559E-06	pCi/g	U	U	0.02422	0.06303	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Uranium-233	0.0484	mg/kg	U	U		0.0484	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Uranium-233/234	532	pCi/g		=	4.479	0.0875	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Uranium-235/234	86.6	%		J	0		16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Uranium-236	1.441	pCi/g		J	0.2453	0.0283	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Uranium-238	1.684	pCi/g		=	0.2517	0.02549	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-1	SOLID	SZ	Zinc	0.406	mg/L		=		0.00132	16-Jun-11	REG	BARRIER; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	1,2,4-Trichlorobenzene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	1,2-Dichlorobenzene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	1,3-Dichlorobenzene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	1,4-Dichlorobenzene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2,4,5-Trichlorophenol	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2,4,6-Trichlorophenol	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2,4-Dichlorophenol	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2,4-Dinitrophenol	1580	µg/kg	JU	UJ		1580	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2,4-Dinitrotoluene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2,6-Dinitrotoluene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2-Chloronaphthalene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2-Chlorophenol	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2-Methyl-4,6-dinitrophenol	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2-Methylphenol	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2-Methylphenol	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	2-Nitrophenol	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	3- and 4- Methylphenol	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	3- and 4- Methylphenol	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	4-Bromophenyl phenyl ether	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	4-Chloro-3-methylphenol	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	4-Chlorophenyl phenyl ether	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	4-Nitrophenol	1580	µg/kg	U	UJ		1580	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Acenaphthene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Acenaphthylene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Americium-241	-0.03981	pCi/g	U	U	0.04878	0.1306	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Americium-242	0	pCi/g	U	U	0	0.02279	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Americium-243	0	pCi/g	U	U	0	0.02287	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Anthracene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Arsenic	12.7	mg/kg	U	UJ		12.7	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Arsenic	0.0132	mg/L	U	UJ		0.0132	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Barium	8.47	mg/kg	U	U		8.47	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Barium	0.115	mg/L		=		0.00885	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Benz(a)anthracene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Benzo(a)pyrene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Benzo(b)fluoranthene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Benzo(ghi)perylene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Benzo(k)fluoranthene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Berkelium-247	-0.02364	pCi/g	U	U	0.082	0.2199	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Beryllium	3.69	mg/kg	U	U		3.69	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Bis(2-chloroethoxy)methane	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Bis(2-chloroethyl) ether	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Bis(2-ethylhexyl)phthalate	476	µg/kg	B	U		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Butyl benzyl phthalate	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Cadmium	8.7	mg/kg	U	U		8.7	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Cadmium	0.0091	mg/L	U	U		0.0091	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02772	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Californium-251	-0.02371	pCi/g	U	U	0.08223	0.2205	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Cesium-137	-0.9358	pCi/g	U	U	1.092	1.771	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Chromium	583	mg/kg		=		32.5	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Chromium	0.128	mg/L	B	J		0.034	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Chrysene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Cobalt-60	0.7533	pCi/g	U	U	0.9341	1.662	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Copper	0.0444	mg/L	U	U		0.0444	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Curium-243/244	0.03403	pCi/g	U	UJ	0.0393	0.03074	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Curium-245/246	0.02523	pCi/g	U	U	0.0376	0.06187	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.03802	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Curium-248	0.00001082	pCi/g	U	U	0.0306	0.07965	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1266	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Dibenz(a,h)anthracene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Diethyl phthalate	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Di-n-butyl phthalate	1070	µg/kg		U		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Di-n-octylphthalate	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Diphenyldiazene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Fluoranthene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Fluorene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Hexachlorobenzene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Hexachlorobenzene	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Hexachlorobutadiene	1580	µg/kg	U	UJ		1580	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Hexachlorobutadiene	0.1	mg/L	U	UJ		0.1	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Hexachlorocyclopentadiene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Hexachloroethane	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Hexachloroethane	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Indeno(1,2,3-cd)pyrene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Isophorone	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Lead	24.4	mg/kg	B	J		9.09	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Lead	0.111	mg/L		J		0.0095	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Mercury	0.0475	mg/kg	U	UJ		0.0475	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Mercury	0.01	mg/L	U	UJ		0.01	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Naphthalene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Neptunium-237	0.04188	pCi/g		UJ	0.03746	0.0227	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Nitrobenzene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Nitrobenzene	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	N-Nitrosodimethylamine	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	N-Nitroso-di-n-propylamine	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	N-Nitrosodiphenylamine	1580	µg/kg	U	UJ		1580	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Pct-Uranium-235	0.1057	pCi/g		UJ	0.09455	0.0573	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Pct-Uranium-235	12.69	wt %	U	J	0	0	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Pentachlorophenol	1580	µg/kg	U	UJ		1580	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Pentachlorophenol	0.1	mg/L	U	UJ		0.1	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Phenanthrene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Phenol	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Plutonium-238	0	pCi/g	U	U	0	0.02264	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Plutonium-239/240	-0.008345	pCi/g	U	U	0.01669	0.06146	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Plutonium-242	0.00001514	pCi/g	U	U	0.04285	0.1115	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Plutonium-244	0.00001514	pCi/g	U	U	0.04285	0.1115	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Protactinium-231	1.91	pCi/g	U	U	45.47	75.02	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Protactinium-234m	-79.54	pCi/g	U	U	168.3	214.7	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Pyrene	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Pyridine	315	µg/kg	U	UJ		315	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Pyridine	0.02	mg/L	U	UJ		0.02	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Selenium	17.5	mg/kg	U	U		17.5	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Selenium	0.0182	mg/L	U	U		0.0182	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Silver	62.7	mg/kg	U	U		62.7	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Silver	0.117	mg/L	B	J		0.0655	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Technetium-99	407	pCi/g		J	10	5.04	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Thorium-228	0.108	pCi/g		UJ	0.07081	0.07223	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Thorium-230	0.5603	pCi/g		=	0.151	0.07232	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Thorium-231	4.904	pCi/g	U	U	25.76	42.44	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Thorium-232	0.1374	pCi/g		UJ	0.07342	0.02659	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Thorium-234	11.92	pCi/g	U	U	86.51	119.1	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Total Uranium	0.3855	µg/g	U	UJ	0	0.4019	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Uranium-232	0	pCi/g	U	U	0	0.02221	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Uranium-233	0.0481	mg/kg	U	U		0.0481	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Uranium-233/234	1.165	pCi/g		=	0.2949	0.1844	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Uranium-235/234	262	%		J	0		16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Uranium-236	0.05695	pCi/g	U	UJ	0.06576	0.05145	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Uranium-238	0.1197	pCi/g	U	U	0.1026	0.1259	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-6-8-2	B26CV2560802-2	SOLID	SZ	Zinc	0.111	mg/L		=		0.0066	16-Jun-11	REG	SHELL; TRANSFER# N/A F-CAN# F020531
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	1,2,4-Trichlorobenzene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	1,2-Dichlorobenzene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	1,3-Dichlorobenzene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	1,4-Dichlorobenzene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2,4,5-Trichlorophenol	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2,4,6-Trichlorophenol	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2,4-Dichlorophenol	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2,4-Dinitrophenol	1670	µg/kg	JU	UJ		1670	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2,4-Dinitrotoluene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2,6-Dinitrotoluene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2-Chloronaphthalene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2-Chlorophenol	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2-Methyl-4,6-dinitrophenol	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2-Methylphenol	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	2-Nitrophenol	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	3- and 4- Methylphenol	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	4-Bromophenyl phenyl ether	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	4-Chloro-3-methylphenol	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	4-Chlorophenyl phenyl ether	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	4-Nitrophenol	1670	µg/kg	U	UJ		1670	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Acenaphthene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Acenaphthylene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Americium-241	0.02271	pCi/g	U	UJ	0.02622	0.02051	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Americium-242	0.0304	pCi/g		UJ	0.02719	0.01648	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Americium-243	0.03052	pCi/g		UJ	0.0273	0.01654	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Anthracene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Arsenic	24.9	mg/kg	B	J		11.6	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Barium	7.73	mg/kg	U	U		7.73	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Benz(a)anthracene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Benzo(a)pyrene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Benzo(b)fluoranthene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Benzo(ghi)perylene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Benzo(k)fluoranthene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.04642	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Beryllium	3.37	mg/kg	U	U		3.37	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Bis(2-chloroethoxy)methane	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Bis(2-chloroethyl) ether	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Bis(2-ethylhexyl)phthalate	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Butyl benzyl phthalate	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Cadmium	7.95	mg/kg	U	U		7.95	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02005	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Californium-251	0.01718	pCi/g	U	U	0.03435	0.04655	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Cesium-137	-2.064	pCi/g	U	U	1.524	2.432	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Chromium	10700	mg/kg		=		29.7	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Chromium	0.437	mg/L		=		0.0136	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Chrysene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Cobalt-60	-0.5609	pCi/g	U	U	1.211	2.055	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.02335	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Curium-245/246	-0.006074	pCi/g	U	U	0.01215	0.04474	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.02887	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Curium-248	0.008222	pCi/g	U	U	0.01644	0.02228	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Curium-250	0.3436	pCi/g	U	UJ	0.486	0.09155	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Dibenz(a,h)anthracene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Diethyl phthalate	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Di-n-butyl phthalate	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Di-n-octylphthalate	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Diphenyldiazene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Fluoranthene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Fluorene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Hexachlorobenzene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Hexachlorobutadiene	1670	µg/kg	U	UJ		1670	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Hexachlorocyclopentadiene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Hexachloroethane	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Indeno(1,2,3-cd)pyrene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Isophorone	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Lead	26.2	mg/kg	B	J		8.3	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Mercury	0.0485	mg/kg	U	UJ		0.0485	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Naphthalene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Neptunium-237	0.006141	pCi/g	U	U	0.0274	0.05689	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Nitrobenzene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	N-Nitrosodimethylamine	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	N-Nitroso-di-n-propylamine	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	N-Nitrosodiphenylamine	1670	µg/kg	U	UJ		1670	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Pct-Uranium-235	0.007857	pCi/g	U	UJ	0.01571	0.02129	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Pct-Uranium-235	0	wt %	U	J	0	0	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Pentachlorophenol	1670	µg/kg	U	UJ		1670	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Phenanthrene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Phenol	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Plutonium-238	0.006112	pCi/g	U	U	0.01222	0.01656	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Plutonium-239/240	0.02445	pCi/g	U	UJ	0.02445	0.01656	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Plutonium-242	0.02442	pCi/g	U	UJ	0.02442	0.01655	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Plutonium-244	0.006106	pCi/g	U	U	0.01221	0.01655	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Protactinium-231	-14.9	pCi/g	U	U	62.97	103.2	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Protactinium-234m	-121.1	pCi/g	U	U	235.7	303.6	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Pyrene	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Pyridine	333	µg/kg	U	UJ		333	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Selenium	15.9	mg/kg	U	U		15.9	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Silver	57.2	mg/kg	U	U		57.2	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Technetium-99	-3.03	pCi/g	U	UJ	3.86	6.97	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Thorium-228	0.06794	pCi/g		UJ	0.04097	0.01673	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Thorium-230	0.05565	pCi/g	U	U	0.04457	0.05738	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Thorium-231	3.178	pCi/g	U	U	35.6	58.58	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Thorium-232	0.006177	pCi/g	U	U	0.02137	0.0454	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Thorium-234	-50.47	pCi/g	U	U	120.9	166	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Total Uranium	-0.01668	µg/g	U	UJ	0	0.1858	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Uranium-232	0	pCi/g	U	U	0	0.01562	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Uranium-233	0.0491	mg/kg	U	U		0.0491	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Uranium-233/234	0.05097	pCi/g	U	U	0.04412	0.05913	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Uranium-235/234	0	%	U	J	0		30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Uranium-236	0.007055	pCi/g	U	UJ	0.01411	0.01912	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-3	SOLID	SZ	Uranium-238	-0.006344	pCi/g	U	U	0.02201	0.05901	30-Jun-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Americium-241	-0.07959	pCi/sample	U	U	0.1592	0.5862	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Americium-242	0.06366	pCi/sample	U	U	0.1273	0.1725	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Americium-243	0.0639	pCi/sample	U	U	0.1278	0.1732	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Berkelium-247	0	pCi/sample	U	U	0	0.486	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Californium-249	0	pCi/sample	U	U	0	0.2099	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Californium-251	0	pCi/sample	U	U	0	0.4874	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Cesium-137	-11.25	pCi/sample	U	U	8.303	13.25	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Cobalt-60	-3.056	pCi/sample	U	U	6.597	11.2	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Curium-243/244	-0.0906	pCi/sample	U	U	0.1812	0.6673	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Curium-245/246	0	pCi/sample	U	U	0	0.1725	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Curium-247	0	pCi/sample	U	U	0	0.3039	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Curium-248	0.08655	pCi/sample	U	U	0.1731	0.2346	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Curium-250	0	pCi/sample	U	U	0	0.9585	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Neptunium-237	0.00006872	pCi/sample	U	U	0.1944	0.5061	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Pct-Uranium-235	1.516	pCi/sample		UJ	0.7352	0.2416	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Pct-Uranium-235	27.46	wt %		J	0	0	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Plutonium-238	0.06859	pCi/sample	U	U	0.1372	0.1859	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Plutonium-239/240	0.4116	pCi/sample	U	U	0.388	0.5047	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Plutonium-242	0.06873	pCi/sample	U	U	0.3624	0.7373	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Plutonium-244	0.0001369	pCi/sample	U	U	0.2739	0.6361	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Protactinium-231	-81.16	pCi/sample	U	U	343.1	562.5	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Protactinium-234m	-659.8	pCi/sample	U	U	1284	1654	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Technetium-99	81.9	pCi/sample		J	23.8	36.1	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Thorium-228	0.229	pCi/sample	U	U	0.3411	0.5612	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Thorium-230	2.062	pCi/sample		UJ	0.9777	1.146	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Thorium-231	17.31	pCi/sample	U	U	194	319.1	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Thorium-232	0	pCi/sample	U	U	0	0.2066	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Thorium-234	-274.9	pCi/sample	U	U	658.9	904.6	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Total Uranium	2.554	µg/sample		UJ	0	0.697	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Uranium-232	0.1296	pCi/sample	U	U	0.1833	0.1757	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Uranium-233	0.2	ug/wipe	U	U		0.2	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Uranium-233/234	25.51	pCi/sample		=	2.724	0.5318	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Uranium-235/234	172	%		J	0		30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Uranium-236	0.08006	pCi/sample	U	UJ	0.1601	0.217	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-25-7-17-3	B26CP2571703-4	SOLID	SZ	Uranium-238	0.7213	pCi/sample		UJ	0.4562	0.1955	30-Jun-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Americium-241	0.01326	pCi/g	U	U	0.01976	0.03252	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Americium-242m	-0.003747	pCi/g	U	U	0.007495	0.0276	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Americium-243	-0.003762	pCi/g	U	U	0.007523	0.0277	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Arsenic	1.01	mg/kg	U			1.01	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Barium	0.185	mg/kg	B			0.11	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02863	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Beryllium	0.146	mg/kg	U			0.146	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Cadmium	0.188	mg/kg	U			0.188	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01237	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.02872	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Cesium-137	-0.134	pCi/g	U	U	0.1887	0.3119	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Chromium	13.5	mg/kg	B			3.21	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Cobalt-60	0.09614	pCi/g	U	U	0.1699	0.2968	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Curium-243/244	-0.005026	pCi/g	U	U	0.01005	0.03701	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Curium-245/246	-0.007494	pCi/g	U	U	0.0106	0.03482	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Curium-247	0.006221	pCi/g	U	U	0.01244	0.01686	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Curium-248	-0.004791	pCi/g	U	U	0.01662	0.04456	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.05647	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Lead	2.36	mg/kg	B			0.745	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Mercury	0.00925	mg/kg	U			0.00925	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Neptunium-237	0.003528	pCi/g	U	U	0.007057	0.009562	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Pct-Uranium-235	10.4	wt %		J	0	0	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Plutonium-238	3.515E-06	pCi/g	U	U	0.009947	0.02589	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Plutonium-239/240	0.003519	pCi/g	U	U	0.007037	0.009535	17-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Plutonium-242	0.00703	pCi/g	U	U	0.009942	0.009526	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Plutonium-244	0.003515	pCi/g	U	U	0.00703	0.009526	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Protactinium-231	1.916	pCi/g	U	U	7.435	12.69	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Protactinium-234m	8.565	pCi/g	U	U	30.11	41.38	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Selenium	1.11	mg/kg	U			1.11	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Silver	3.36	mg/kg	U			3.36	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Technetium-99	37.6	pCi/g		=	2.18	2.13	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Thorium-228	-0.0289	pCi/g	U	U	0.0274	0.06881	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Thorium-230	0.09103	pCi/g		=	0.04219	0.0384	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Thorium-231	10.42	pCi/g		UJ	1.892	7.245	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Thorium-232	-0.004122	pCi/g	U	U	0.0143	0.03834	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Thorium-234	6.285	pCi/g	U	U	18.43	26.49	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Total Uranium	39.97	µg/g		J	0	0.325	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Uranium-232	-0.02199	pCi/g	U	U	0.02074	0.05508	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Uranium-233/234	189.8	pCi/g		=	2.427	0.08342	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Uranium-235	8.98	pCi/g		J	0.588	0.1029	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Uranium-235/234	137	%		J	0	0	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Uranium-236	0.3778	pCi/g		J	0.1165	0.06318	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-3	SOLID	SZ	Uranium-238	12.62	pCi/g		=	0.6265	0.09289	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Americium-241	0.2743	pCi/sample	U	U	0.4333	0.7373	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Americium-242m	-0.06031	pCi/sample	U	U	0.1206	0.4442	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Americium-243	-0.06054	pCi/sample	U	U	0.1211	0.4459	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Berkelium-247	0	pCi/sample	U	U	0	0.4608	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Californium-249	0	pCi/sample	U	U	0	0.199	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Californium-251	0	pCi/sample	U	U	0	0.4621	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Cesium-137	0.5389	pCi/sample	U	U	11.2	20.91	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Cobalt-60	-16.8	pCi/sample	U	U	12.03	15.27	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Curium-243/244	-0.07785	pCi/sample	U	U	0.27	0.7241	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Curium-245/246	0	pCi/sample	U	U	0	0.1636	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Curium-247	0	pCi/sample	U	U	0	0.2614	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Curium-248	0.149	pCi/sample	U	U	0.2977	0.5477	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Curium-250	-1.726	pCi/sample	U	U	3.451	2.468	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Neptunium-237	4.33	pCi/sample		=	1.138	0.7993	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Pct-Uranium-235	9.61	wt %		J	0	0	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Plutonium-238	0.1928	pCi/sample	U	U	0.2873	0.4727	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Plutonium-239/240	0	pCi/sample	U	U	0	0.1741	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Plutonium-242	-0.1281	pCi/sample	U	U	0.3142	0.7706	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Plutonium-244	0.00006413	pCi/sample	U	U	0.1814	0.4722	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Protactinium-231	-24.26	pCi/sample	U	U	266.4	361.6	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Protactinium-234m	234.7	pCi/sample	U	U	1312	2592	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Technetium-99	544000	pCi/sample		J	3810	139	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Thorium-228	0.1872	pCi/sample	U	UJ	0.2162	0.1691	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Thorium-230	8.683	pCi/sample		=	1.483	0.4596	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Thorium-231	244	pCi/sample		=	21.83	98.42	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Thorium-232	0	pCi/sample	U	U	0	0.169	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Thorium-234	831.7	pCi/sample		=	42.99	184	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Total Uranium	1790	µg/sample		J	0	3.072	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Uranium-232	0.1262	pCi/sample	U	U	0.1785	0.171	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Uranium-233/234	8370	pCi/sample		=	103.3	3.824	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Uranium-235	371	pCi/sample		J	24.15	1.065	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Uranium-235/234	128	%		J	0	0	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Uranium-236	19.4	pCi/sample		J	5.233	0.9562	17-Oct-13	REG	
X326-27-1-2-2	B26CP2710202-4	WIPE	SW	Uranium-238	545	pCi/sample		=	25.84	0.8615	17-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Americium-241	1.069	pCi/g		=	0.3779	0.09053	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Americium-242m	-0.05323	pCi/g	U	U	0.1508	0.3496	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Americium-243	-0.05343	pCi/g	U	U	0.1514	0.3509	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Arsenic	17.7	mg/kg	B			14.9	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Barium	1.61	mg/kg	U			1.61	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Berkelium-247	0.00007509	pCi/g	U	U	0.2125	0.553	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Beryllium	2.15	mg/kg	U			2.15	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Cadmium	2.76	mg/kg	U			2.76	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.08796	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Californium-251	0.07544	pCi/g	U	U	0.261	0.5545	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Cesium-137	-0.5077	pCi/g	U	U	1.408	2.349	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Chromium	47.3	mg/kg	U			47.3	30-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Cobalt-60	0.6032	pCi/g	U	U	1.15	2.014	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.103	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Curium-245/246	0.1068	pCi/g	U	U	0.1509	0.2477	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Curium-247	0.1411	pCi/g	U	UJ	0.1629	0.1274	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Curium-248	0.07258	pCi/g	U	U	0.1026	0.09834	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Curium-250	0.0007598	pCi/g	U	U	2.15	1.091	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Lead	11	mg/kg	U			11	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Mercury	0.0681	mg/kg	U			0.0681	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Neptunium-237	0.277	pCi/g		UJ	0.2073	0.2571	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Pct-Uranium-235	6.195	wt %		J	0	0	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Plutonium-238	5.859	pCi/g		=	0.9416	0.3315	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Plutonium-239/240	6.044	pCi/g		=	0.9561	0.3315	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Plutonium-242	0.007316	pCi/g	U	U	0.1409	0.3312	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Plutonium-244	-0.02968	pCi/g	U	U	0.1199	0.3312	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Protactinium-231	22.81	pCi/g	U	U	57.32	92.73	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Protactinium-234m	111.5	pCi/g	U	U	220.9	305	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Selenium	16.4	mg/kg	U			16.4	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Silver	49.5	mg/kg	U			49.5	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Technetium-99	95300	pCi/g		=	667	35.6	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Thorium-228	0.253	pCi/g		UJ	0.2	0.2326	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Thorium-230	9.306	pCi/g		=	1.085	0.08578	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Thorium-231	13.87	pCi/g	U	U	38.33	56.22	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Thorium-232	0.0316	pCi/g	U	U	0.06319	0.08562	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Thorium-234	102.5	pCi/g	U	U	16.91	197.8	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Total Uranium	204.6	µg/g		J	0	0.5062	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Uranium-232	0.0837	pCi/g	U	U	0.1247	0.2052	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Uranium-233/234	792.2	pCi/g		=	12.9	0.1423	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Uranium-235	27.39	pCi/g		J	2.664	0.1755	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Uranium-235/234	100	%		J	0	0	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Uranium-236	1.047	pCi/g		J	0.4934	0.1576	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-1	SOLID	SZ	Uranium-238	66.27	pCi/g		=	3.727	0.142	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Americium-241	0.0105	pCi/g	U	UJ	0.0105	0.007115	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Americium-242m	-0.001908	pCi/g	U	U	0.006618	0.01775	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Americium-243	-0.001915	pCi/g	U	U	0.006643	0.01781	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Arsenic	1.83	mg/kg	B			0.549	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Barium	9.67	mg/kg				0.0594	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Berkelium-247	0.005385	pCi/g	U	U	0.01077	0.01459	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Beryllium	0.0792	mg/kg	U			0.0792	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Cadmium	0.102	mg/kg	U			0.102	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Californium-249	0.002326	pCi/g	U	U	0.004651	0.006302	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Californium-251	0.0054	pCi/g	U	U	0.0108	0.01463	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Cesium-137	-0.1397	pCi/g	U	U	0.1037	0.1685	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Chromium	38.6	mg/kg				1.74	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Cobalt-60	-0.02115	pCi/g	U	U	0.08984	0.1526	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.008099	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Curium-245/246	-0.001908	pCi/g	U	U	0.006618	0.01775	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Curium-247	0.007395	pCi/g	U	U	0.01478	0.02719	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Curium-248	0.002852	pCi/g	U	U	0.005704	0.007729	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.02878	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Lead	0.426	mg/kg	B			0.403	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Mercury	0.00501	mg/kg	U			0.00501	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Neptunium-237	0	pCi/g	U	U	0	0.005619	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Pct-Uranium-235	10.31	wt %	U	J	0	0	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Plutonium-238	-0.002061	pCi/g	U	U	0.009241	0.02225	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Plutonium-239/240	2.066E-06	pCi/g	U	U	0.005845	0.01521	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Plutonium-242	0.002065	pCi/g	U	U	0.004131	0.005597	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Plutonium-244	2.064E-06	pCi/g	U	U	0.005839	0.0152	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Protactinium-231	0.02736	pCi/g	U	U	4.029	6.853	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Protactinium-234m	5.479	pCi/g	U	U	16.03	21.88	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Selenium	0.604	mg/kg	U			0.604	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Silver	2.36	mg/kg	B			1.82	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Technetium-99	41.5	pCi/g		=	1.6	1.17	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Thorium-228	-0.002264	pCi/g	U	U	0.01202	0.02728	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Thorium-230	0.07054	pCi/g		=	0.02841	0.02731	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Thorium-231	-1.404	pCi/g	U	U	2.642	3.762	30-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Thorium-232	2.269E-06	pCi/g	U	U	0.00642	0.01671	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Thorium-234	3.488	pCi/g	U	U	9.569	13.56	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Total Uranium	0.09165	µg/g	U	UJ	0	0.09704	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Uranium-232	-0.002084	pCi/g	U	U	0.004168	0.01535	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Uranium-233/234	0.2069	pCi/g		=	0.06082	0.03842	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Uranium-235	0.02042	pCi/g	U	J	0.02042	0.01384	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Uranium-235/234	285	%		J	0	0	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Uranium-236	0.009168	pCi/g	U	UJ	0.01297	0.01242	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-2	SOLID	SZ	Uranium-238	0.02892	pCi/g	U	U	0.02478	0.03039	30-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Americium-241	0.003253	pCi/g	U	U	0.006506	0.008816	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Americium-242m	0.005311	pCi/g	U	U	0.007511	0.007196	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Americium-243	0.005331	pCi/g	U	U	0.007539	0.007224	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Arsenic	3.49	mg/kg	B			0.75	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Barium	15.3	mg/kg				0.0812	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Berkelium-247	-0.007473	pCi/g	U	U	0.01495	0.05504	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Beryllium	0.108	mg/kg	U			0.108	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Cadmium	0.139	mg/kg	U			0.139	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Californium-249	-0.003227	pCi/g	U	U	0.006455	0.02377	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Californium-251	-0.007494	pCi/g	U	U	0.01499	0.05519	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Cesium-137	-0.1573	pCi/g	U	U	0.1418	0.2319	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Chromium	50.2	mg/kg				2.38	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Cobalt-60	0.05814	pCi/g	U	U	0.1208	0.2108	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.01003	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Curium-245/246	-0.005306	pCi/g	U	U	0.007503	0.02465	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Curium-247	-0.004574	pCi/g	U	U	0.009149	0.03369	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Curium-248	0	pCi/g	U	U	0	0.009577	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.03998	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Lead	1.82	mg/kg	B			0.551	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Mercury	0.00685	mg/kg	U			0.00685	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Neptunium-237	-0.002798	pCi/g	U	U	0.009705	0.02603	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Pct-Uranium-235	6.01	wt %		J	0	0	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Plutonium-238	0.002796	pCi/g	U	U	0.005592	0.007576	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Plutonium-239/240	0	pCi/g	U	U	0	0.007576	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Plutonium-242	0.01117	pCi/g	U	U	0.01368	0.02055	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Plutonium-244	0.005586	pCi/g	U	U	0.0079	0.007569	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Protactinium-231	5.543	pCi/g	U	U	5.48	9.434	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Protactinium-234m	-14.49	pCi/g	U	U	22.05	29.18	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Selenium	0.825	mg/kg	U			0.825	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Silver	3.36	mg/kg	B			2.49	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Technetium-99	418	pCi/g		=	6.02	1.58	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Thorium-228	0.009187	pCi/g	U	U	0.01369	0.02252	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Thorium-230	0.7507	pCi/g		=	0.09785	0.04015	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Thorium-231	0.0436	pCi/g	U	U	3.626	5.221	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Thorium-232	0.003061	pCi/g	U	U	0.01059	0.0225	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Thorium-234	1.077	pCi/g	U	U	13.26	18.79	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Total Uranium	1.276	µg/g		J	0	0.06925	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Uranium-232	-0.002676	pCi/g	U	U	0.009281	0.02489	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Uranium-233/234	5.863	pCi/g		=	0.3629	0.05193	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Uranium-235	0.1656	pCi/g		J	0.07038	0.05078	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Uranium-235/234	81.7	%		J	0	0	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Uranium-236	0.06817	pCi/g		UJ	0.04468	0.0456	23-Oct-13	REG	
X326-27-1-2-2	B26CV2710202-5	SOLID	SZ	Uranium-238	0.4132	pCi/g		=	0.09606	0.01513	23-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Americium-241	-0.003007	pCi/g	U	U	0.01043	0.02797	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Americium-242m	-0.004868	pCi/g	U	U	0.009744	0.02623	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Americium-243	-0.004887	pCi/g	U	U	0.009781	0.02633	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Arsenic	10	mg/kg	B			1.42	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Barium	18.4	mg/kg				0.153	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Berkelium-247	-0.00686	pCi/g	U	U	0.01372	0.05053	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Beryllium	0.204	mg/kg	U			0.204	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Cadmium	0.263	mg/kg	U			0.263	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.008037	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Californium-251	-0.006873	pCi/g	U	U	0.02384	0.06393	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Cesium-137	-0.1453	pCi/g	U	U	0.1331	0.2178	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Chromium	72.8	mg/kg				4.49	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Cobalt-60	-0.0572	pCi/g	U	U	0.1153	0.1939	24-Oct-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Curium-243/244	0.00343	pCi/g	U	U	0.00686	0.009295	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Curium-245/246	-0.004868	pCi/g	U	U	0.009744	0.02623	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.01149	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Curium-248	0.006547	pCi/g	U	U	0.009258	0.008871	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.0367	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Lead	3.82	mg/kg	B			1.04	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Mercury	0.00647	mg/kg	U			0.00647	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Neptunium-237	0.0795	pCi/g		=	0.02725	0.006333	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Pct-Uranium-235	8.576	wt %		J	0	0	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Plutonium-238	0.009527	pCi/g	U	U	0.01773	0.03234	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Plutonium-239/240	0.01905	pCi/g	U	U	0.02507	0.04064	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Plutonium-242	0.004535	pCi/g	U	U	0.00907	0.01229	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.01229	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Protactinium-231	2.397	pCi/g	U	U	5.158	8.827	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Protactinium-234m	0.542	pCi/g	U	U	20.86	28.29	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Selenium	1.56	mg/kg	U			1.56	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Silver	6.21	mg/kg	B			4.7	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Technetium-99	2860	pCi/g		=	20	2.03	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Thorium-228	-0.02693	pCi/g	U	U	0.01866	0.04885	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Thorium-230	0.5208	pCi/g		=	0.07876	0.04697	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Thorium-231	4.828	pCi/g	U	U	1.679	4.946	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Thorium-232	-0.002691	pCi/g	U	U	0.005382	0.01982	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Thorium-234	-11.73	pCi/g	U	U	12.58	17.52	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Total Uranium	5.806	µg/g		J	0	0.1196	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Uranium-232	-0.00259	pCi/g	U	U	0.00518	0.01907	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Uranium-233/234	24.13	pCi/g		=	0.7018	0.03752	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Uranium-235	1.076	pCi/g		J	0.1645	0.01705	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Uranium-235/234	129	%		J	0	0	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Uranium-236	0.1751	pCi/g		J	0.06291	0.01531	24-Oct-13	REG	
X326-27-1-2-2	B26UP2710202-7	SOLID	SZ	Uranium-238	1.853	pCi/g		=	0.1947	0.03745	24-Oct-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Americium-241	0.003567	pCi/g	U	U	0.007129	0.01312	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Americium-242m	0	pCi/g	U	U	0	0.00452	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Americium-243	0	pCi/g	U	U	0	0.004538	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Arsenic	1.16	mg/kg	U			1.16	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Barium	0.125	mg/kg	U			0.125	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.01273	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Beryllium	0.167	mg/kg	U			0.167	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Cadmium	0.215	mg/kg	U			0.215	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.005499	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.01277	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Cesium-137	0.1069	pCi/g	U	U	0.2582	0.438	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Chromium	13.4	mg/kg	B			3.68	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Cobalt-60	-0.1003	pCi/g	U	U	0.207	0.3515	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Curium-243/244	-0.002025	pCi/g	U	U	0.007025	0.01884	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Curium-245/246	0	pCi/g	U	U	0	0.00452	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Curium-247	0	pCi/g	U	U	0	0.0068	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Curium-248	0	pCi/g	U	U	0	0.005248	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.02511	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Lead	3.02	mg/kg	B			0.852	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Mercury	0.00529	mg/kg	U			0.00529	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Neptunium-237	0.005349	pCi/g	U	U	0.009425	0.01654	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Pct-Uranium-235	36.01	wt %		J	0	0	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Plutonium-238	0.00533	pCi/g	U	UJ	0.006155	0.004815	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Plutonium-239/240	0.001778	pCi/g	U	U	0.006153	0.01307	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Plutonium-242	0.007103	pCi/g	U	U	0.01004	0.01648	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Plutonium-244	0.00355	pCi/g	U	U	0.00502	0.00481	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Protactinium-231	-9.552	pCi/g	U	U	11.21	18.21	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Protactinium-234m	0.4638	pCi/g	U	U	35.79	53.38	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Selenium	1.28	mg/kg	U			1.28	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Silver	3.85	mg/kg	U			3.85	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Technetium-99	1330	pCi/g		=	19.2	4.77	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Thorium-228	0.08984	pCi/g		=	0.03583	0.02447	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Thorium-230	0.1532	pCi/g		=	0.04517	0.009024	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Thorium-231	24.72	pCi/g		=	2.461	11.2	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Thorium-232	0.009972	pCi/g	U	UJ	0.01151	0.009008	23-Sep-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Thorium-234	31.64	pCi/g	U	U	1.087	40.34	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Total Uranium	38.88	µg/g		J	0	0.02894	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Uranium-232	0.03291	pCi/g		=	0.01587	0.01274	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Uranium-233/234	743.6	pCi/g		=	2.988	0.03229	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Uranium-235	30.25	pCi/g		J	0.6694	0.01003	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Uranium-235/234	118	%		J	0	0	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Uranium-236	1.134	pCi/g		J	0.1228	0.009009	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-3	SOLID	SZ	Uranium-238	8.6	pCi/g		=	0.2929	0.008117	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Americium-241	0	pCi/sample	U	U	0	0.1951	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Americium-242m	-0.06586	pCi/sample	U	U	0.2284	0.6125	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Americium-243	-0.06611	pCi/sample	U	U	0.2293	0.6149	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Berkelium-247	0	pCi/sample	U	U	0	0.5037	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Californium-249	0	pCi/sample	U	U	0	0.2175	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Californium-251	-0.1862	pCi/sample	U	U	0.3724	1.371	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Cesium-137	4.552	pCi/sample	U	U	19.09	32.25	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Cobalt-60	3.502	pCi/sample	U	U	16.44	28.73	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Curium-243/244	0	pCi/sample	U	U	0	0.2221	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Curium-245/246	0.06612	pCi/sample	U	U	0.4374	0.8646	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Curium-247	0	pCi/sample	U	U	0	0.2746	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Curium-248	0.0782	pCi/sample	U	U	0.1564	0.2119	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Curium-250	1.868	pCi/sample	U	UJ	3.735	0.9935	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Neptunium-237	19.7	pCi/sample		=	2.487	0.2123	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Pct-Uranium-235	30.37	wt %		J	0	0	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Plutonium-238	0.3372	pCi/sample	U	U	0.5024	0.8266	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Plutonium-239/240	0.4494	pCi/sample	U	UJ	0.4494	0.3045	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Plutonium-242	0	pCi/sample	U	U	0	0.3042	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Plutonium-244	0	pCi/sample	U	U	0	0.3042	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Protactinium-231	-15.61	pCi/sample	U	U	820.7	1369	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Protactinium-234m	-957.4	pCi/sample	U	U	2674	3924	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Technetium-99	7260000	pCi/sample		J	50800	627	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Thorium-228	1.094	pCi/sample		UJ	0.6356	0.6766	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Thorium-230	21.09	pCi/sample		=	2.49	0.5369	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Thorium-231	1241	pCi/sample		UJ	171.3	965.3	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Thorium-232	0.07292	pCi/sample	U	U	0.2523	0.536	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Thorium-234	3353	pCi/sample	U	U	156.2	3556	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Total Uranium	2634	µg/sample		J	0	1.578	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Uranium-232	0.6293	pCi/sample		UJ	0.4359	0.4629	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Uranium-233/234	35530	pCi/sample		J	152.5	1.518	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Uranium-235	1729	pCi/sample		J	37.36	0.5469	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Uranium-235/234	141	%		J	0	0	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Uranium-236	96.21	pCi/sample		J	8.351	0.491	23-Sep-13	REG	
X326-27-3-2-2	B26CP2730202-4	WIPE	SW	Uranium-238	630	pCi/sample		J	18.86	0.4424	23-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Americium-241	0.006237	pCi/g	U	U	0.00882	0.008451	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Americium-242m	0.008586	pCi/g	U	UJ	0.009915	0.007756	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Americium-243	0.008619	pCi/g	U	UJ	0.009952	0.007786	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Arsenic	0.00219	mg/L	U			0.00219	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Arsenic	0.784	mg/kg	U			0.784	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Barium	0.029	mg/L				0.000237	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Barium	0.0848	mg/kg	U			0.0848	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02185	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Beryllium	0.143	mg/kg	B			0.113	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Cadmium	0.000406	mg/L	U			0.000406	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Cadmium	0.145	mg/kg	U			0.145	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Californium-249	-0.006957	pCi/g	U	U	0.009838	0.03232	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.02191	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Cesium-137	0.01253	pCi/g	U	U	0.1765	0.2965	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Chromium	0.142	mg/L				0.00695	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Chromium	111	mg/kg				2.49	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Cobalt-60	0.01928	pCi/g	U	U	0.1471	0.2562	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.00962	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Curium-245/246	0.002862	pCi/g	U	U	0.005724	0.007756	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Curium-247	4.386E-06	pCi/g	U	U	0.01241	0.0323	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Curium-248	0.003388	pCi/g	U	U	0.006775	0.00918	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Curium-250	0.1621	pCi/g	U	UJ	0.2292	0.04309	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Lead	0.0106	mg/L	B			0.00161	25-Sep-13	REG	

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Lead	3.15	mg/kg	B			0.576	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Mercury	0.004	mg/L	U			0.004	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Mercury	0.00413	mg/kg				0.00358	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Neptunium-237	0.0276	pCi/g	U	U	0.02208	0.02843	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Pct-Uranium-235	7.325	wt %		J	0	0	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Plutonium-238	0.02653	pCi/g		UJ	0.02373	0.01438	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Plutonium-239/240	5.301E-06	pCi/g	U	U	0.015	0.03904	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Plutonium-242	-0.005285	pCi/g	U	U	0.02369	0.05704	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.01436	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Protactinium-231	-7.215	pCi/g	U	U	7.623	12.33	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Protactinium-234m	0.6584	pCi/g	U	U	24.17	36.05	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Selenium	0.00241	mg/L	U			0.00241	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Selenium	0.863	mg/kg	U			0.863	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Silver	0.00727	mg/L	U			0.00727	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Silver	2.6	mg/kg	U			2.6	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Technetium-99	1060	pCi/g		=	14.4	3.58	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Thorium-228	-0.003213	pCi/g	U	U	0.006427	0.02366	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Thorium-230	0.8789	pCi/g		=	0.1068	0.02369	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Thorium-231	3.675	pCi/g	U	U	4.228	7.113	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Thorium-232	0.003217	pCi/g	U	U	0.01113	0.02364	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Thorium-234	-6.518	pCi/g	U	U	16.33	24.68	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Total Uranium	6.662	µg/g		J	0	0.03146	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Uranium-232	0.01149	pCi/g	U	U	0.01407	0.02113	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Uranium-233/234	29.37	pCi/g		=	0.6192	0.02401	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Uranium-235	1.055	pCi/g		J	0.1303	0.01091	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Uranium-235/234	104	%		J	0	0	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Uranium-236	0.1048	pCi/g		UJ	0.03892	0.009794	25-Sep-13	REG	
X326-27-3-2-2	B26CV2730202-5	SOLID	SZ	Uranium-238	2.08	pCi/g		=	0.1624	0.008824	25-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Americium-241	0.007968	pCi/g	U	U	0.01592	0.0293	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Americium-242m	0	pCi/g	U	U	0	0.008639	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Americium-243	0	pCi/g	U	U	0	0.008672	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Arsenic	0.00219	mg/L	U			0.00219	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Arsenic	0.877	mg/kg	U			0.877	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Barium	0.0943	mg/L				0.000237	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Barium	0.0949	mg/kg	U			0.0949	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.02434	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Beryllium	0.127	mg/kg	U			0.127	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Cadmium	0.0022	mg/L	B			0.000406	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Cadmium	0.163	mg/kg	U			0.163	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Californium-249	-0.003874	pCi/g	U	U	0.007749	0.02854	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.0244	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Cesium-137	0.07772	pCi/g	U	U	0.1991	0.3374	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Chromium	0.112	mg/L				0.00695	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Chromium	123	mg/kg				2.78	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Cobalt-60	-0.03642	pCi/g	U	U	0.1558	0.2676	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Curium-243/244	0.004532	pCi/g	U	U	0.009065	0.01228	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Curium-245/246	0	pCi/g	U	U	0	0.008639	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Curium-247	-0.005599	pCi/g	U	U	0.0112	0.04124	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Curium-248	0.0173	pCi/g	U	UJ	0.0173	0.01172	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.048	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Lead	0.0066	mg/L	B			0.00161	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Lead	2.72	mg/kg	B			0.645	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Mercury	0.004	mg/L	U			0.004	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Mercury	0.00401	mg/kg	U			0.00401	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Neptunium-237	0.01816	pCi/g		UJ	0.01625	0.009844	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Pct-Uranium-235	6.229	wt %		J	0	0	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Plutonium-238	-0.003619	pCi/g	U	U	0.007238	0.02665	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Plutonium-239/240	0.007245	pCi/g	U	U	0.01025	0.009817	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Plutonium-242	0.02172	pCi/g	U	U	0.02047	0.02663	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Plutonium-244	0.003622	pCi/g	U	U	0.01253	0.02663	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Protactinium-231	-0.4718	pCi/g	U	U	8.359	13.93	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Protactinium-234m	13.15	pCi/g	U	U	27.99	42.71	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Selenium	0.00241	mg/L	U			0.00241	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Selenium	0.965	mg/kg	U			0.965	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Silver	0.00727	mg/L	U			0.00727	26-Sep-13	REG	

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Silver	2.91	mg/kg	U			2.91	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Technetium-99	2010	pCi/g		=	25.8	4.76	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Thorium-228	7.118E-06	pCi/g	U	U	0.01424	0.03306	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Thorium-230	0.8877	pCi/g		=	0.113	0.02623	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Thorium-231	7.165	pCi/g	U	U	1.777	8.045	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Thorium-232	0.01068	pCi/g	U	UJ	0.01233	0.009644	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Thorium-234	5.158	pCi/g	U	U	18.66	28.65	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Total Uranium	41.16	µg/g		J	0	0.06022	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Uranium-232	-0.003004	pCi/g	U	U	0.01347	0.03242	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Uranium-233/234	164.1	pCi/g		=	1.793	0.01327	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Uranium-235	5.54	pCi/g		J	0.3663	0.04445	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Uranium-235/234	97.6	%		J	0	0	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Uranium-236	0.1736	pCi/g		J	0.06137	0.0147	26-Sep-13	REG	
X326-27-3-2-2	B26UP2730202-7	SOLID	SZ	Uranium-238	13	pCi/g		=	0.4984	0.01325	26-Sep-13	REG	
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	1,2,4-Trichlorobenzene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	1,2-Dichlorobenzene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	1,3-Dichlorobenzene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	1,4-Dichlorobenzene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2,4,5-Trichlorophenol	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2,4,6-Trichlorophenol	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2,4-Dichlorophenol	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2,4-Dinitrophenol	5320	µg/kg	U	UJ		5320	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2,4-Dinitrotoluene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2,6-Dinitrotoluene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2-Chloronaphthalene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2-Chlorophenol	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2-Methyl-4,6-dinitrophenol	5320	µg/kg	U	UJ		5320	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2-Methylphenol	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	2-Nitrophenol	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	3- and 4- Methylphenol	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	4-Bromophenyl phenyl ether	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	4-Chloro-3-methylphenol	2130	µg/kg	U	UJ		2130	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	4-Chlorophenyl phenyl ether	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	4-Nitrophenol	5320	µg/kg	U	UJ		5320	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Acenaphthene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Acenaphthylene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Americium-241	0.06618	pCi/g		UJ	0.05002	0.02562	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Americium-242	0.01308	pCi/g	U	U	0.02615	0.04811	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Americium-243	0.01313	pCi/g	U	U	0.02625	0.0483	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Anthracene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Arsenic	11.3	mg/kg	U	UJ		11.3	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Barium	7.53	mg/kg	U	U		7.53	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Benz(a)anthracene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Benzo(a)pyrene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Benzo(b)fluoranthene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Benzo(ghi)perylene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Benzo(k)fluoranthene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Berkelium-247	-0.0184	pCi/g	U	U	0.0368	0.1355	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Beryllium	3.28	mg/kg	U	U		3.28	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Bis(2-chloroethoxy)methane	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Bis(2-chloroethyl) ether	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Bis(2-ethylhexyl)phthalate	4450	µg/kg	B	U		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Butyl benzyl phthalate	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Cadmium	7.74	mg/kg	U	U		7.74	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Californium-249	0.02387	pCi/g	U	UJ	0.02756	0.02156	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Californium-251	-0.01845	pCi/g	U	U	0.03691	0.1359	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Cesium-137	-2.066	pCi/g	U	U	1.739	2.789	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Chromium	173	mg/kg	B	J		28.9	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Chromium	0.303	mg/L		=		0.0136	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Chrysene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Cobalt-60	0.3499	pCi/g	U	U	1.445	2.522	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Curium-243/244	0.02152	pCi/g	U	U	0.03044	0.02916	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Curium-245/246	0.006539	pCi/g	U	U	0.01308	0.01772	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Curium-247	-0.01327	pCi/g	U	U	0.05948	0.1432	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Curium-248	0.02054	pCi/g	U	U	0.02905	0.02783	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Curium-250	0.3668	pCi/g	U	UJ	0.733	0.2673	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Dibenz(a,h)anthracene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Diethyl phthalate	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Di-n-butyl phthalate	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Di-n-octylphthalate	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Diphenyldiazene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Fluoranthene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Fluorene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Hexachlorobenzene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Hexachlorobutadiene	5320	µg/kg	U	UJ		5320	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Hexachlorocyclopentadiene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Hexachloroethane	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Indeno(1,2,3-cd)pyrene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Isophorone	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Lead	173	mg/kg		J		8.08	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Lead	0.0114	mg/L	B	J		0.0038	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Mercury	0.0453	mg/kg	U	UJ		0.0453	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Naphthalene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Neptunium-237	1.576	pCi/g		J	0.2179	0.07887	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Nitrobenzene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	N-Nitrosodimethylamine	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	N-Nitroso-di-n-propylamine	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	N-Nitrosodiphenylamine	5320	µg/kg	U	UJ		5320	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Pct-Uranium-235	10.4	pCi/g		J	2.449	1.034	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Pct-Uranium-235	0.4744	wt %	U	J	0	0	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Pentachlorophenol	5320	µg/kg	U	UJ		5320	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Phenanthrene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Phenol	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Plutonium-238	0.05118	pCi/g	U	U	0.04385	0.05378	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Plutonium-239/240	0.424	pCi/g		=	0.1113	0.01981	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Plutonium-242	-0.02482	pCi/g	U	U	0.03511	0.1153	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Plutonium-244	0.02485	pCi/g	U	U	0.03514	0.03367	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Protactinium-231	-20.38	pCi/g	U	U	73.09	119.7	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Protactinium-234m	392.2	pCi/g	U	UJ	281.5	392	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Pyrene	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Pyridine	1060	µg/kg	U	UJ		1060	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Selenium	15.5	mg/kg	U	U		15.5	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Silver	55.7	mg/kg	U	U		55.7	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Technetium-99	4300	pCi/g		J	46.3	7.25	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Thorium-228	0.03612	pCi/g	U	U	0.04331	0.067	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Thorium-230	1.814	pCi/g		=	0.2308	0.06708	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Thorium-231	-18.09	pCi/g	U	U	42.81	69.91	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Thorium-232	0.007221	pCi/g	U	U	0.02498	0.05308	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Thorium-234	309	pCi/g		UJ	59.41	194.9	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Total Uranium	1014	µg/g		J	0	1.4	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Uranium-232	-0.06747	pCi/g	U	U	0.1349	0.4969	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Uranium-233	0.0263	mg/kg	U	U		0.0263	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Uranium-233/234	130.8	pCi/g		=	7.72	0.3086	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Uranium-235/234	230	%		J	0		22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Uranium-236	0.6307	pCi/g		UJ	0.5641	0.3418	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1	SOLID	SZ	Uranium-238	339.8	pCi/g		=	12.43	0.308	22-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	1,2,4-Trichlorobenzene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	1,2-Dichlorobenzene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	1,3-Dichlorobenzene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	1,4-Dichlorobenzene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2,4,5-Trichlorophenol	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2,4,6-Trichlorophenol	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2,4-Dichlorophenol	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2,4-Dinitrophenol	3910	µg/kg	U	UJ		3910	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2,4-Dinitrotoluene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2,6-Dinitrotoluene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2-Chloronaphthalene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2-Chlorophenol	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2-Methyl-4,6-dinitrophenol	3910	µg/kg	U	UJ		3910	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2-Methylphenol	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	2-Nitrophenol	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	3- and 4- Methylphenol	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	4-Bromophenyl phenyl ether	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	4-Chloro-3-methylphenol	1560	µg/kg	U	UJ		1560	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	4-Chlorophenyl phenyl ether	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	4-Nitrophenol	3910	µg/kg	U	UJ		3910	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Acenaphthene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Acenaphthylene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Americium-241	0.0929	pCi/g		UJ	0.06846	0.07594	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Americium-242	-0.007067	pCi/g	U	U	0.01413	0.05205	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Americium-243	-0.007094	pCi/g	U	U	0.01419	0.05225	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Anthracene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Arsenic	12.1	mg/kg	U	UJ		12.1	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Barium	8.1	mg/kg	U	U		8.1	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Benz(a)anthracene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Benzo(a)pyrene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Benzo(b)fluoranthene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Benzo(ghi)perylene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Benzo(k)fluoranthene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.054	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Beryllium	3.53	mg/kg	U	U		3.53	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Bis(2-chloroethoxy)methane	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Bis(2-chloroethyl) ether	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Bis(2-ethylhexyl)phthalate	1280	µg/kg	B	U		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Butyl benzyl phthalate	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Cadmium	8.33	mg/kg	U	U		8.33	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02332	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.05416	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Cesium-137	-4.504	pCi/g	U	U	1.878	2.885	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Chromium	247	mg/kg	B	J		31.1	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Chromium	0.324	mg/L		=		0.0136	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Chrysene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Cobalt-60	0.4186	pCi/g	U	U	1.485	2.599	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Curium-243/244	-0.01174	pCi/g	U	U	0.02347	0.08644	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Curium-245/246	0.007074	pCi/g	U	U	0.01415	0.01917	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Curium-247	0.00001452	pCi/g	U	U	0.04107	0.1069	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Curium-248	0.03364	pCi/g	U	UJ	0.03884	0.03038	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1065	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Dibenz(a,h)anthracene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Diethyl phthalate	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Di-n-butyl phthalate	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Di-n-octylphthalate	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Diphenyldiazene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Fluoranthene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Fluorene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Hexachlorobenzene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Hexachlorobutadiene	3910	µg/kg	U	UJ		3910	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Hexachlorocyclopentadiene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Hexachloroethane	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Indeno(1,2,3-cd)pyrene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Isophorone	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Lead	162	mg/kg		J		8.69	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Lead	0.0128	mg/L	B	J		0.0038	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Mercury	0.0435	mg/kg	U	UJ		0.0435	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Naphthalene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Neptunium-237	2.177	pCi/g		J	0.2502	0.01947	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Nitrobenzene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	N-Nitrosodimethylamine	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	N-Nitroso-di-n-propylamine	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	N-Nitrosodiphenylamine	3910	µg/kg	U	UJ		3910	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Pct-Uranium-235	11.75	pCi/g		J	2.694	1.108	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Pct-Uranium-235	0.4952	wt %	U	J	0	0	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Pentachlorophenol	3910	µg/kg	U	UJ		3910	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Phenanthrene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Phenol	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Plutonium-238	0.02866	pCi/g	U	UJ	0.02866	0.01942	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Plutonium-239/240	0.5088	pCi/g		=	0.1208	0.01942	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Plutonium-242	-0.009729	pCi/g	U	U	0.01946	0.07165	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Plutonium-244	-0.01946	pCi/g	U	U	0.02752	0.0904	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Protactinium-231	-56.77	pCi/g	U	U	78.65	126	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Protactinium-234m	398.6	pCi/g		UJ	137.3	316.6	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Pyrene	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Pyridine	781	µg/kg	U	UJ		781	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Selenium	16.7	mg/kg	U	U		16.7	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Silver	59.9	mg/kg	U	U		59.9	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Technetium-99	4100	pCi/g		J	45.7	7.85	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Thorium-228	-0.0084	pCi/g	U	U	0.0446	0.1012	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Thorium-230	1.705	pCi/g		=	0.2411	0.0621	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Thorium-231	62.84	pCi/g	U	U	9.965	73.55	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Thorium-232	0.02528	pCi/g	U	UJ	0.02919	0.02283	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Thorium-234	262.2	pCi/g		UJ	40.91	203.9	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Total Uranium	1098	µg/g		J	0	3.196	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Uranium-232	0.00007163	pCi/g	U	U	0.2027	0.5275	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Uranium-233	0.0245	mg/kg	U	U		0.0245	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Uranium-233/234	162.4	pCi/g		=	8.91	0.8982	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Uranium-235/234	209	%		J	0		22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Uranium-236	1.352	pCi/g		UJ	0.9367	0.9949	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-1D	SOLID	SZ	Uranium-238	367.8	pCi/g		=	13.39	0.8964	22-Jul-11	FR	BARRIER; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	1,2,4-Trichlorobenzene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	1,2-Dichlorobenzene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	1,3-Dichlorobenzene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	1,4-Dichlorobenzene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2,4,5-Trichlorophenol	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2,4,6-Trichlorophenol	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2,4-Dichlorophenol	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2,4-Dinitrophenol	2500	µg/kg	U	UJ		2500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2,4-Dinitrotoluene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2,6-Dinitrotoluene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2-Chloronaphthalene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2-Chlorophenol	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2-Methyl-4,6-dinitrophenol	2500	µg/kg	U	UJ		2500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2-Methylphenol	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	2-Nitrophenol	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	3- and 4- Methylphenol	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	4-Bromophenyl phenyl ether	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	4-Chloro-3-methylphenol	1000	µg/kg	U	UJ		1000	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	4-Chlorophenyl phenyl ether	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	4-Nitrophenol	2500	µg/kg	U	UJ		2500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Acenaphthene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Acenaphthylene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Americium-241	0.00002472	pCi/g	U	U	0.04946	0.1148	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Americium-242	0.009009	pCi/g	U	U	0.01802	0.02441	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Americium-243	0.009044	pCi/g	U	U	0.01809	0.02451	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Anthracene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Arsenic	13	mg/kg	U	UJ		13	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Barium	8.69	mg/kg	U	U		8.69	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Benz(a)anthracene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Benzo(a)pyrene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Benzo(b)fluoranthene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Benzo(ghi)perylene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Benzo(k)fluoranthene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Berkelium-247	0.05076	pCi/g	U	U	0.07178	0.06877	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Beryllium	3.79	mg/kg	U	U		3.79	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Bis(2-chloroethoxy)methane	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Bis(2-chloroethyl) ether	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Bis(2-ethylhexyl)phthalate	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Butyl benzyl phthalate	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Cadmium	8.94	mg/kg	U	U		8.94	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Californium-249	0.01096	pCi/g	U	U	0.02192	0.0297	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Californium-251	0.0509	pCi/g	U	U	0.07198	0.06897	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Cesium-137	-4.095	pCi/g	U	U	2.344	3.689	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Chromium	381	mg/kg		=		33.4	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Chromium	0.287	mg/L		=		0.0068	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Chrysene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Cobalt-60	-1.146	pCi/g	U	U	1.906	3.215	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Curium-243/244	-0.01407	pCi/g	U	U	0.02814	0.1036	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Curium-245/246	0.009009	pCi/g	U	U	0.01802	0.02441	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Curium-247	-0.0174	pCi/g	U	U	0.03479	0.1281	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Curium-248	0.01344	pCi/g	U	U	0.02688	0.03642	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Curium-250	0.2547	pCi/g	U	UJ	0.5094	0.1356	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Dibenz(a,h)anthracene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Diethyl phthalate	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Di-n-butyl phthalate	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Di-n-octylphthalate	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Diphenyldiazene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Fluoranthene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Fluorene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Hexachlorobenzene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Hexachlorobutadiene	2500	µg/kg	U	UJ		2500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Hexachlorocyclopentadiene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Hexachloroethane	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Indeno(1,2,3-cd)pyrene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Isophorone	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Lead	32.4	mg/kg	B	J		9.33	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Mercury	0.0492	mg/kg	U	UJ		0.0492	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Naphthalene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Neptunium-237	-0.0195	pCi/g	U	U	0.02758	0.09061	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Nitrobenzene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	N-Nitrosodimethylamine	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	N-Nitroso-di-n-propylamine	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	N-Nitrosodiphenylamine	2500	µg/kg	U	UJ		2500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Pct-Uranium-235	0.045	pCi/g	U	UJ	0.045	0.03049	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Pct-Uranium-235	0.6603	wt %	U	J	0	0	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Pentachlorophenol	2500	µg/kg	U	UJ		2500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Phenanthrene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Phenol	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Plutonium-238	-0.009715	pCi/g	U	U	0.0337	0.09036	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Plutonium-239/240	-0.01945	pCi/g	U	U	0.0275	0.09036	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Plutonium-242	-0.02914	pCi/g	U	U	0.03365	0.1046	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Plutonium-244	0.009724	pCi/g	U	U	0.01945	0.02635	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Protactinium-231	-6.081	pCi/g	U	U	97.55	160.7	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Protactinium-234m	-291.1	pCi/g	U	U	366.3	466.2	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Pyrene	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Pyridine	500	µg/kg	U	UJ		500	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Selenium	17.9	mg/kg	U	U		17.9	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Silver	64.3	mg/kg	U	U		64.3	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Technetium-99	0.924	pCi/g	U	UJ	5.87	9.86	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Thorium-228	0.01882	pCi/g	U	U	0.03761	0.06917	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Thorium-230	0.02825	pCi/g	U	U	0.04209	0.06925	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Thorium-231	16.01	pCi/g	U	U	56	92.31	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.02546	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Thorium-234	-18.26	pCi/g	U	U	185.1	253.7	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Total Uranium	3.154	µg/g		J	0	0.08796	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Uranium-232	-0.009342	pCi/g	U	U	0.03241	0.0869	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Uranium-233	0.0242	mg/kg	U	U		0.0242	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Uranium-233/234	0.374	pCi/g		J	0.1302	0.1195	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Uranium-235/234	0	%	U	J	0		22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Uranium-236	0.0101	pCi/g	U	UJ	0.0202	0.02738	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2	SOLID	SZ	Uranium-238	1.056	pCi/g		=	0.1961	0.02467	22-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020543
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	1,2,4-Trichlorobenzene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	1,2-Dichlorobenzene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	1,3-Dichlorobenzene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	1,4-Dichlorobenzene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2,4,5-Trichlorophenol	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2,4,6-Trichlorophenol	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2,4-Dichlorophenol	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2,4-Dinitrophenol	2490	µg/kg	U	UJ		2490	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2,4-Dinitrotoluene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2,6-Dinitrotoluene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2-Chloronaphthalene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2-Chlorophenol	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2-Methyl-4,6-dinitrophenol	2490	µg/kg	U	UJ		2490	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2-Methylphenol	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	2-Nitrophenol	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	3- and 4- Methylphenol	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	4-Bromophenyl phenyl ether	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	4-Chloro-3-methylphenol	995	µg/kg	U	UJ		995	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	4-Chlorophenyl phenyl ether	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	4-Nitrophenol	2490	µg/kg	U	UJ		2490	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Acenaphthene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Acenaphthylene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Americium-241	0	pCi/g	U	U	0	0.03318	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Americium-242	-0.008512	pCi/g	U	U	0.02953	0.07918	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Americium-243	-0.008545	pCi/g	U	U	0.02964	0.07948	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Anthracene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Arsenic	12.3	mg/kg	U	UJ		12.3	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Barium	8.22	mg/kg	U	U		8.22	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Benz(a)anthracene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Benzo(a)pyrene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Benzo(b)fluoranthene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Benzo(ghi)perylene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Benzo(k)fluoranthene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Berkelium-247	-0.02398	pCi/g	U	U	0.08317	0.223	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Beryllium	3.59	mg/kg	U	U		3.59	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Bis(2-chloroethoxy)methane	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Bis(2-chloroethyl) ether	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Bis(2-ethylhexyl)phthalate	2410	µg/kg	B	U		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Butyl benzyl phthalate	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Cadmium	8.45	mg/kg	U	U		8.45	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02812	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Californium-251	-0.02405	pCi/g	U	U	0.08341	0.2237	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Cesium-137	-2.078	pCi/g	U	U	2.192	3.544	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Chromium	388	mg/kg		=		31.6	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Chromium	0.29	mg/L		=		0.0068	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Chrysene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Cobalt-60	1.695	pCi/g	U	U	1.762	3.163	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.03777	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Curium-245/246	0.008538	pCi/g	U	U	0.02954	0.06276	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Curium-247	0.01725	pCi/g	U	U	0.05969	0.1268	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Curium-248	0.0133	pCi/g	U	U	0.0266	0.03605	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1284	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Dibenz(a,h)anthracene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Diethyl phthalate	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Di-n-butyl phthalate	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Di-n-octylphthalate	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Diphenyldiazene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Fluoranthene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Fluorene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Hexachlorobenzene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Hexachlorobutadiene	2490	µg/kg	U	UJ		2490	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Hexachlorocyclopentadiene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Hexachloroethane	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Indeno(1,2,3-cd)pyrene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Isophorone	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Lead	33.9	mg/kg	B	J		8.83	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Mercury	0.049	mg/kg	U	UJ		0.049	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Naphthalene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Neptunium-237	0.009275	pCi/g	U	U	0.01855	0.02513	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Nitrobenzene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	N-Nitrosodimethylamine	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	N-Nitroso-di-n-propylamine	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	N-Nitrosodiphenylamine	2490	µg/kg	U	UJ		2490	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Pct-Uranium-235	0.01139	pCi/g	U	UJ	0.02278	0.03087	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Pct-Uranium-235	0.237	wt %	U	J	0	0	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Pentachlorophenol	2490	µg/kg	U	UJ		2490	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Phenanthrene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Phenol	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Plutonium-238	0.01851	pCi/g	U	U	0.03699	0.06805	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Plutonium-239/240	0.00000924	pCi/g	U	U	0.02615	0.06805	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Plutonium-242	0.00001846	pCi/g	U	U	0.03694	0.08577	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Plutonium-244	0.009239	pCi/g	U	U	0.01848	0.02504	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Protactinium-231	-54.94	pCi/g	U	U	92.16	148.7	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Protactinium-234m	24.05	pCi/g	U	U	337.1	441.4	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Pyrene	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Pyridine	498	µg/kg	U	UJ		498	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Selenium	17	mg/kg	U	U		17	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Silver	60.9	mg/kg	U	U		60.9	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Technetium-99	3.03	pCi/g	U	UJ	5.56	9.24	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Thorium-228	0.01868	pCi/g	U	U	0.03734	0.06867	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Thorium-230	0.06543	pCi/g	U	U	0.06198	0.08675	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Thorium-231	3.248	pCi/g	U	U	51.37	84.5	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.02528	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Thorium-234	101	pCi/g	U	U	173.2	240.9	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Total Uranium	2.224	µg/g		J	0	0.08979	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Uranium-232	-0.008561	pCi/g	U	U	0.0297	0.07963	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Uranium-233	0.0243	mg/kg	U	U		0.0243	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Uranium-233/234	0.3602	pCi/g		=	0.1239	0.09936	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Uranium-235/234	0	%	U	J	0		22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Uranium-236	0.00001022	pCi/g	U	UJ	0.02892	0.07526	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-1-2-2	B30CV2910202-2D	SOLID	SZ	Uranium-238	0.7465	pCi/g		=	0.1659	0.02497	22-Jul-11	FR	SHELL; TRANSFER#______________F-CAN# F020545
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	1,2,4-Trichlorobenzene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	1,2-Dichlorobenzene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	1,3-Dichlorobenzene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	1,4-Dichlorobenzene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2,4,5-Trichlorophenol	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2,4,6-Trichlorophenol	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2,4-Dichlorophenol	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2,4-Dinitrophenol	2480	µg/kg	U	UJ		2480	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2,4-Dinitrotoluene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2,6-Dinitrotoluene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2-Chloronaphthalene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2-Chlorophenol	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2-Methyl-4,6-dinitrophenol	2480	µg/kg	U	UJ		2480	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2-Methylphenol	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	2-Nitrophenol	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	3- and 4- Methylphenol	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	4-Bromophenyl phenyl ether	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	4-Chloro-3-methylphenol	990	µg/kg	U	UJ		990	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	4-Chlorophenyl phenyl ether	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	4-Nitrophenol	2480	µg/kg	U	UJ		2480	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Acenaphthene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Acenaphthylene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Americium-241	-0.02409	pCi/g	U	U	0.06827	0.1582	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Americium-242	0.0183	pCi/g	U	U	0.02588	0.02479	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Americium-243	0.01837	pCi/g	U	U	0.02597	0.02489	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Anthracene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Arsenic	5.25	mg/kg	U	UJ		5.25	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Barium	3.5	mg/kg	U	U		3.5	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Benz(a)anthracene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Benzo(a)pyrene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Benzo(b)fluoranthene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Benzo(ghi)perylene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Benzo(k)fluoranthene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.06984	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Beryllium	1.53	mg/kg	U	U		1.53	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Bis(2-chloroethoxy)methane	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Bis(2-chloroethyl) ether	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Bis(2-ethylhexyl)phthalate	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Butyl benzyl phthalate	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Cadmium	3.6	mg/kg	U	U		3.6	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.03016	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.07003	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Cesium-137	-2.277	pCi/g	U	U	2.342	3.784	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Chromium	12000	mg/kg		=		13.5	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Chromium	0.273	mg/L		=		0.0068	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Chrysene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Cobalt-60	0.6898	pCi/g	U	U	1.925	3.377	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Curium-243/244	-0.0137	pCi/g	U	U	0.06144	0.1479	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Curium-245/246	0.009148	pCi/g	U	U	0.0183	0.02479	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Curium-247	-0.01696	pCi/g	U	U	0.05884	0.1578	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Curium-248	0.01312	pCi/g	U	U	0.02624	0.03555	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1377	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Dibenz(a,h)anthracene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Diethyl phthalate	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Di-n-butyl phthalate	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Di-n-octylphthalate	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Diphenyldiazene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Fluoranthene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Fluorene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Hexachlorobenzene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Hexachlorobutadiene	2480	µg/kg	U	UJ		2480	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Hexachlorocyclopentadiene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Hexachloroethane	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Indeno(1,2,3-cd)pyrene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Isophorone	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Lead	27.5	mg/kg	B	J		3.76	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Mercury	0.048	mg/kg	U	UJ		0.048	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Naphthalene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Neptunium-237	-0.009053	pCi/g	U	U	0.01811	0.06668	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Nitrobenzene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	N-Nitrosodimethylamine	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	N-Nitroso-di-n-propylamine	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	N-Nitrosodiphenylamine	2480	µg/kg	U	UJ		2480	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Pct-Uranium-235	0.0616	pCi/g		UJ	0.0551	0.03339	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Pct-Uranium-235	1.699	wt %		J	0	0	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Pentachlorophenol	2480	µg/kg	U	UJ		2480	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Phenanthrene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Phenol	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Plutonium-238	0.009037	pCi/g	U	U	0.01807	0.02449	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Plutonium-239/240	0.009037	pCi/g	U	U	0.01807	0.02449	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Plutonium-242	-0.009019	pCi/g	U	U	0.01804	0.06642	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Plutonium-244	0.009028	pCi/g	U	U	0.01806	0.02447	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Protactinium-231	-87.91	pCi/g	U	U	100.7	159.6	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Protactinium-234m	-276.5	pCi/g	U	U	370.3	473.4	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Pyrene	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Pyridine	495	µg/kg	U	UJ		495	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Selenium	7.23	mg/kg	U	U		7.23	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Silver	25.9	mg/kg	U	U		25.9	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Technetium-99	3.88	pCi/g	U	UJ	6.36	10.5	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Thorium-228	-0.009969	pCi/g	U	U	0.03458	0.09269	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Thorium-230	0.12	pCi/g		UJ	0.06926	0.02709	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Thorium-231	29.18	pCi/g	U	U	56.21	92.83	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Thorium-232	-0.01994	pCi/g	U	U	0.0282	0.09264	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Thorium-234	-0.8363	pCi/g	U	U	187.5	258.1	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Total Uranium	1.678	µg/g		J	0	0.09632	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Uranium-232	0.018	pCi/g	U	U	0.02546	0.02439	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Uranium-233	0.0249	mg/kg	U	U		0.0249	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Uranium-233/234	2.247	pCi/g		=	0.3036	0.1075	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Uranium-235/234	79.3	%		J	0		14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Uranium-236	0.03319	pCi/g	U	UJ	0.03832	0.02998	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-2-6-2	B30CP2920602-3	SOLID	SZ	Uranium-238	0.5582	pCi/g		=	0.1492	0.02701	14-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Americium-241	0.1002	pCi/g	U	U	0.2002	0.3591	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Americium-242	-0.02311	pCi/g	U	U	0.04622	0.1702	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Americium-243	-0.0232	pCi/g	U	U	0.0464	0.1709	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Berkelium-247	0.06517	pCi/g	U	U	0.1303	0.1766	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Californium-249	0	pCi/g	U	U	0	0.07627	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Californium-251	0.06535	pCi/g	U	U	0.1307	0.1771	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Cesium-137	-5.778	pCi/g	U	U	6.26	10.13	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Cobalt-60	0.3175	pCi/g	U	U	5.058	8.767	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Curium-243/244	0.03799	pCi/g	U	U	0.07597	0.1029	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Curium-245/246	0	pCi/g	U	U	0	0.0627	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Curium-247	0	pCi/g	U	U	0	0.1273	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Curium-248	0.00003622	pCi/g	U	U	0.1025	0.2667	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Curium-250	-0.6512	pCi/g	U	U	1.302	0.9457	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Neptunium-237	5.172	pCi/g		=	0.749	0.3609	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Pct-Uranium-235	540.3	pCi/g		J	61.77	4.785	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Pct-Uranium-235	2.999	wt %		J	0	0	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Plutonium-238	0.05111	pCi/g	U	U	0.125	0.237	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Plutonium-239/240	0.00002551	pCi/g	U	U	0.07218	0.1878	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Plutonium-242	-0.06191	pCi/g	U	U	0.08755	0.2876	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Plutonium-244	0	pCi/g	U	U	0	0.08397	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Protactinium-231	-324.7	pCi/g	U	U	271.7	418.3	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Protactinium-234m	1772	pCi/g		UJ	434.9	1038	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Technetium-99	10700	pCi/g		J	122	21.3	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Thorium-228	0.4232	pCi/g		UJ	0.2979	0.3569	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Thorium-230	24.29	pCi/g		=	1.934	0.1043	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Thorium-231	722.5	pCi/g		=	67.2	257.5	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Thorium-232	0.00003839	pCi/g	U	U	0.1086	0.2827	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Thorium-234	1379	pCi/g		=	63.46	722.4	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Total Uranium	8338	µg/g		J	0	13.8	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Uranium-232	1.23	pCi/g	U	U	2.46	3.333	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Uranium-233	3.74	mg/kg	U	U		3.74	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Uranium-233/234	11560	pCi/g		=	257.4	18.75	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Uranium-235/234	135	%		J	0		14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Uranium-236	82.44	pCi/g		J	22.86	4.296	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30CP2920602-4	WIPE	SW	Uranium-238	2753	pCi/g		=	125.4	3.871	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Americium-241	-0.03623	pCi/g	U	U	0.07246	0.2668	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Americium-242	0.00002461	pCi/g	U	U	0.06963	0.1812	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Americium-243	0.0000247	pCi/g	U	U	0.0699	0.1819	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.188	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.0812	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.1886	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Cesium-137	-8.824	pCi/g	U	U	6.596	10.53	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Cobalt-60	0.5407	pCi/g	U	U	5.221	9.064	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Curium-243/244	0.04132	pCi/g	U	U	0.143	0.3037	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Curium-245/246	-0.02461	pCi/g	U	U	0.04921	0.1812	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Curium-247	-0.051	pCi/g	U	U	0.102	0.3756	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Curium-248	0.07879	pCi/g	U	U	0.1114	0.1068	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Curium-250	0.6935	pCi/g	U	UJ	1.387	0.3708	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Neptunium-237	5.09	pCi/g		=	0.7251	0.2351	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Pct-Uranium-235	430.2	pCi/g		J	54.41	12.56	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Pct-Uranium-235	3.359	wt %		J	0	0	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Plutonium-238	0.02528	pCi/g	U	U	0.08745	0.1858	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Plutonium-239/240	0.00002523	pCi/g	U	U	0.07139	0.1858	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Plutonium-242	0.03219	pCi/g	U	U	0.06437	0.08722	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Plutonium-244	-0.03215	pCi/g	U	U	0.06431	0.2368	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Protactinium-231	-192.8	pCi/g	U	U	270.9	434.2	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Protactinium-234m	1481	pCi/g		UJ	498.3	1126	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Technetium-99	14900	pCi/g		J	164	26.8	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Thorium-228	0.3031	pCi/g	U	U	0.257	0.3636	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Thorium-230	22.44	pCi/g		=	1.654	0.2815	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Thorium-231	444.1	pCi/g		UJ	56.74	261.7	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Thorium-232	0.1513	pCi/g		UJ	0.1354	0.08203	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Thorium-234	1034	pCi/g		UJ	63.65	720.5	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Total Uranium	5927	µg/g		J	0	17.01	14-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Uranium-232	-2.428	pCi/g	U	U	4.86	13.08	14-Jul-11	REG	DEPOSIT; TRANSFER#_______________F-CAN#_______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Uranium-233	3.87	mg/kg	U	U		3.87	14-Jul-11	REG	DEPOSIT; TRANSFER#_______________F-CAN#_______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Uranium-233/234	8443	pCi/g		=	216.2	3.75	14-Jul-11	REG	DEPOSIT; TRANSFER#_______________F-CAN#_______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Uranium-235/234	147	%		J	0		14-Jul-11	REG	DEPOSIT; TRANSFER#_______________F-CAN#_______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Uranium-236	53.64	pCi/g		J	18.13	4.154	14-Jul-11	REG	DEPOSIT; TRANSFER#_______________F-CAN#_______________
X330-29-2-6-2	B30DP2920602-4	SOLID	SZ	Uranium-238	1953	pCi/g		=	103.9	3.742	14-Jul-11	REG	DEPOSIT; TRANSFER#_______________F-CAN#_______________
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	1,2,4-Trichlorobenzene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	1,2-Dichlorobenzene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	1,3-Dichlorobenzene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	1,4-Dichlorobenzene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2,4,5-Trichlorophenol	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2,4,6-Trichlorophenol	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2,4-Dichlorophenol	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2,4-Dinitrophenol	4240	µg/kg	U	UJ		4240	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2,4-Dinitrotoluene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2,6-Dinitrotoluene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2-Chloronaphthalene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2-Chlorophenol	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2-Methyl-4,6-dinitrophenol	4240	µg/kg	U	UJ		4240	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2-Methylphenol	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	2-Nitrophenol	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	3- and 4- Methylphenol	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	4-Bromophenyl phenyl ether	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	4-Chloro-3-methylphenol	1690	µg/kg	U	UJ		1690	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	4-Chlorophenyl phenyl ether	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	4-Nitrophenol	4240	µg/kg	U	UJ		4240	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Acenaphthene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Acenaphthylene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Americium-241	0.00001232	pCi/g	U	U	0.03487	0.09075	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Americium-242	7.777E-06	pCi/g	U	U	0.022	0.05727	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Americium-243	7.806E-06	pCi/g	U	U	0.02209	0.05749	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Anthracene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Arsenic	21	mg/kg	B	J		12.9	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Barium	8.65	mg/kg	U	U		8.65	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Benz(a)anthracene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Benzo(a)pyrene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Benzo(b)fluoranthene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Benzo(ghi)perylene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Benzo(k)fluoranthene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Berkelium-247	-0.0219	pCi/g	U	U	0.04381	0.1613	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Beryllium	3.77	mg/kg	U	U		3.77	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Bis(2-chloroethoxy)methane	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Bis(2-chloroethyl) ether	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Bis(2-ethylhexyl)phthalate	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Butyl benzyl phthalate	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Cadmium	8.89	mg/kg	U	U		8.89	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02566	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Californium-251	-0.02197	pCi/g	U	U	0.04393	0.1618	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Cesium-137	-3.589	pCi/g	U	U	2.059	3.238	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Chromium	470	mg/kg		=		33.2	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Chromium	1.12	mg/L		=		0.0136	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Chrysene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Cobalt-60	-0.0438	pCi/g	U	U	1.685	2.913	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Curium-243/244	-0.01403	pCi/g	U	U	0.02805	0.1033	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Curium-245/246	0	pCi/g	U	U	0	0.02109	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Curium-247	0.00005203	pCi/g	U	U	0.08501	0.1868	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Curium-248	0.01342	pCi/g	U	U	0.05989	0.1244	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Curium-250	-0.2193	pCi/g	U	U	0.4386	0.3182	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Dibenz(a,h)anthracene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Diethyl phthalate	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Di-n-butyl phthalate	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Di-n-octylphthalate	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Diphenyldiazene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Fluoranthene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Fluorene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#_______________F-CAN#_F020541

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Hexachlorobenzene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Hexachlorobutadiene	4240	µg/kg	U	UJ		4240	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Hexachlorocyclopentadiene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Hexachloroethane	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Indeno(1,2,3-cd)pyrene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Isophorone	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Lead	143	mg/kg		J		9.28	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Lead	0.0208	mg/L	B	J		0.0038	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Mercury	0.0447	mg/kg	U	UJ		0.0447	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Naphthalene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Neptunium-237	0.01631	pCi/g	U	U	0.03989	0.07561	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Nitrobenzene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	N-Nitrosodimethylamine	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	N-Nitroso-di-n-propylamine	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	N-Nitrosodiphenylamine	4240	µg/kg	U	UJ		4240	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Pct-Uranium-235	1.216	pCi/g		J	0.2277	0.0289	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Pct-Uranium-235	5.694	wt %		J	0	0	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Pentachlorophenol	4240	µg/kg	U	UJ		4240	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Phenanthrene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Phenol	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Plutonium-238	-0.02434	pCi/g	U	U	0.02811	0.0874	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Plutonium-239/240	0.04063	pCi/g	U	U	0.04872	0.0754	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Plutonium-242	0.03246	pCi/g	U	U	0.03974	0.0597	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Plutonium-244	-0.008106	pCi/g	U	U	0.01621	0.0597	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Protactinium-231	27.27	pCi/g	U	U	86.3	142.6	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Protactinium-234m	19.59	pCi/g	U	U	324.7	426.6	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Pyrene	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Pyridine	847	µg/kg	U	UJ		847	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Selenium	17.8	mg/kg	U	U		17.8	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Silver	64	mg/kg	U	U		64	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Technetium-99	45100	pCi/g		J	316	18.3	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Thorium-228	0.008736	pCi/g	U	U	0.03022	0.06419	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Thorium-230	3.346	pCi/g		=	0.3481	0.1311	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Thorium-231	-3.36	pCi/g	U	U	50.37	82.7	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.02363	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Thorium-234	-77.88	pCi/g	U	U	168.2	231.3	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Total Uranium	9.879	µg/g		J	0	0.08335	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Uranium-232	0.007885	pCi/g	U	U	0.01577	0.02137	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Uranium-233	0.0268	mg/kg	U	U		0.0268	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Uranium-233/234	24.29	pCi/g		=	0.9167	0.06359	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Uranium-235/234	145	%		J	0		12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Uranium-236	0.2202	pCi/g		J	0.09183	0.02594	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-1	SOLID	SZ	Uranium-238	3.209	pCi/g		=	0.3327	0.02338	12-Jul-11	REG	BARRIER; TRANSFER#______________F-CAN#_F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	1,2,4-Trichlorobenzene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	1,2-Dichlorobenzene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	1,3-Dichlorobenzene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	1,4-Dichlorobenzene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2,4,5-Trichlorophenol	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2,4,6-Trichlorophenol	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2,4-Dichlorophenol	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2,4-Dinitrophenol	2460	µg/kg	U	UJ		2460	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2,4-Dinitrotoluene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2,6-Dinitrotoluene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2-Chloronaphthalene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2-Chlorophenol	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2-Methyl-4,6-dinitrophenol	2460	µg/kg	U	UJ		2460	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2-Methylphenol	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	2-Nitrophenol	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	3- and 4- Methylphenol	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	4-Bromophenyl phenyl ether	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	4-Chloro-3-methylphenol	986	µg/kg	U	UJ		986	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	4-Chlorophenyl phenyl ether	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	4-Nitrophenol	2460	µg/kg	U	UJ		2460	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Acenaphthene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Acenaphthylene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Americium-241	0.01125	pCi/g	U	U	0.0225	0.03049	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Americium-242	-0.008634	pCi/g	U	U	0.01727	0.06359	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Americium-243	-0.008666	pCi/g	U	U	0.01733	0.06383	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Anthracene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Arsenic	5.18	mg/kg	U	UJ		5.18	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Barium	3.46	mg/kg	U	U		3.46	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Benz(a)anthracene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Benzo(a)pyrene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Benzo(b)fluoranthene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Benzo(ghi)perylene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Benzo(k)fluoranthene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.06597	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Beryllium	1.51	mg/kg	U	U		1.51	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Bis(2-chloroethoxy)methane	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Bis(2-chloroethyl) ether	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Bis(2-ethylhexyl)phthalate	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Butyl benzyl phthalate	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Cadmium	3.56	mg/kg	U	U		3.56	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.02849	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.06616	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Cesium-137	-2.032	pCi/g	U	U	2.172	3.513	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Chromium	451	mg/kg		=		13.3	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Chromium	0.22	mg/L		=		0.0068	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Chrysene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Cobalt-60	0.1473	pCi/g	U	U	1.76	3.058	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Curium-243/244	0.01282	pCi/g	U	U	0.04435	0.09423	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Curium-245/246	-0.008634	pCi/g	U	U	0.01727	0.06359	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Curium-247	0.00001582	pCi/g	U	U	0.04477	0.1165	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Curium-248	0.04889	pCi/g	U	UJ	0.04889	0.03312	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Curium-250	0	pCi/g	U	U	0	0.1301	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Dibenz(a,h)anthracene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Diethyl phthalate	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Di-n-butyl phthalate	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Di-n-octylphthalate	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Diphenyldiazene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Fluoranthene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Fluorene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Hexachlorobenzene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Hexachlorobutadiene	2460	µg/kg	U	UJ		2460	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Hexachlorocyclopentadiene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Hexachloroethane	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Indeno(1,2,3-cd)pyrene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Isophorone	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Lead	32.4	mg/kg	B	J		3.71	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Mercury	0.039	mg/kg	U	UJ		0.039	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Naphthalene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Neptunium-237	0.008293	pCi/g	U	U	0.01659	0.02247	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Nitrobenzene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	N-Nitrosodimethylamine	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	N-Nitroso-di-n-propylamine	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	N-Nitrosodiphenylamine	2460	µg/kg	U	UJ		2460	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Pct-Uranium-235	0	pCi/g	U	UJ	0	0.02807	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Pct-Uranium-235	0	wt %	U	J	0	0	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Pentachlorophenol	2460	µg/kg	U	UJ		2460	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Phenanthrene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Phenol	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Plutonium-238	0.008278	pCi/g	U	U	0.02864	0.06085	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Plutonium-239/240	-0.008262	pCi/g	U	U	0.01652	0.06085	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Plutonium-242	0.008262	pCi/g	U	U	0.01652	0.02239	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.02239	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Protactinium-231	78.04	pCi/g	U	U	95.34	155.8	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Protactinium-234m	-226.2	pCi/g	U	U	346.4	443.8	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Pyrene	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Pyridine	493	µg/kg	U	UJ		493	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Selenium	7.13	mg/kg	U	U		7.13	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Silver	25.6	mg/kg	U	U		25.6	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Technetium-99	26.9	pCi/g		J	6.39	9.41	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Thorium-228	0.009992	pCi/g	U	U	0.01998	0.02707	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Thorium-230	0.07001	pCi/g	U	U	0.06	0.07358	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Thorium-231	31.25	pCi/g	U	U	52.81	87.25	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Thorium-232	9.974E-06	pCi/g	U	U	0.02822	0.07345	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Thorium-234	-4.252	pCi/g	U	U	175.2	240.8	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Total Uranium	0.04992	µg/g	U	UJ	0	0.1969	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Uranium-232	0.008654	pCi/g	U	U	0.01731	0.02345	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Uranium-233	0.0249	mg/kg	U	U		0.0249	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Uranium-233/234	0.1343	pCi/g		UJ	0.07509	0.07794	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Uranium-235/234	0	%	U	J	0		12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Uranium-236	0	pCi/g	U	UJ	0	0.0252	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-29-4-9-2	B30CV2940902-2	SOLID	SZ	Uranium-238	0.01677	pCi/g	U	UJ	0.03351	0.06165	12-Jul-11	REG	SHELL; TRANSFER#______________F-CAN# F020541
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	1,2,4-Trichlorobenzene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	1,2-Dichlorobenzene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	1,3-Dichlorobenzene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	1,4-Dichlorobenzene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2,4,5-Trichlorophenol	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2,4,6-Trichlorophenol	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2,4-Dichlorophenol	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2,4-Dinitrophenol	2400	µg/kg	U	UJ		2400	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2,4-Dinitrotoluene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2,6-Dinitrotoluene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2-Chloronaphthalene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2-Chlorophenol	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2-Methyl-4,6-dinitrophenol	2400	µg/kg	U	UJ		2400	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2-Methylphenol	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	2-Nitrophenol	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	3- and 4- Methylphenol	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	4-Bromophenyl phenyl ether	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	4-Chloro-3-methylphenol	962	µg/kg	U	UJ		962	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	4-Chlorophenyl phenyl ether	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	4-Nitrophenol	2400	µg/kg	U	UJ		2400	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Acenaphthene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Acenaphthylene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Americium-241	-0.04016	pCi/g	U	U	0.0709	0.1757	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Americium-242	0.02881	pCi/g	U	U	0.04292	0.07063	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Americium-243	0.02892	pCi/g	U	U	0.04309	0.0709	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Anthracene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Arsenic	5.22	mg/kg	U	UJ		5.22	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Barium	3.49	mg/kg	U	U		3.49	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Benz(a)anthracene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Benzo(a)pyrene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Benzo(b)fluoranthene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Benzo(ghi)perylene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Benzo(k)fluoranthene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.07328	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Beryllium	1.52	mg/kg	U	U		1.52	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Bis(2-chloroethoxy)methane	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Bis(2-chloroethyl) ether	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Bis(2-ethylhexyl)phthalate	744	µg/kg		U		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Butyl benzyl phthalate	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Cadmium	3.59	mg/kg	U	U		3.59	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Californium-249	0.01168	pCi/g	U	U	0.02336	0.03165	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.07349	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Cesium-137	-2.362	pCi/g	U	U	2.458	3.972	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Chromium	11300	mg/kg		=		13.4	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Chromium	0.226	mg/L		=		0.0068	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Chrysene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Cobalt-60	0.8597	pCi/g	U	U	1.994	3.509	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Curium-243/244	-0.01525	pCi/g	U	U	0.03049	0.1123	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Curium-245/246	-0.00959	pCi/g	U	U	0.01918	0.07063	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Curium-247	0.03774	pCi/g	U	U	0.05338	0.05114	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Curium-248	0.02914	pCi/g	U	U	0.05824	0.1072	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Curium-250	0.5412	pCi/g	U	UJ	0.7654	0.1445	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Dibenz(a,h)anthracene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Diethyl phthalate	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Di-n-butyl phthalate	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Di-n-octylphthalate	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Diphenyldiazene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Fluoranthene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Fluorene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Hexachlorobenzene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Hexachlorobutadiene	2400	µg/kg	U	UJ		2400	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Hexachlorocyclopentadiene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Hexachloroethane	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Indeno(1,2,3-cd)pyrene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Isophorone	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Lead	26	mg/kg	B	J		3.74	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Mercury	0.0431	mg/kg	U	UJ		0.0431	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Naphthalene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Neptunium-237	0.008599	pCi/g	U	U	0.0172	0.0233	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Nitrobenzene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	N-Nitrosodimethylamine	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	N-Nitroso-di-n-propylamine	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	N-Nitrosodiphenylamine	2400	µg/kg	U	UJ		2400	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Pct-Uranium-235	0.1118	pCi/g		UJ	0.0824	0.09141	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Pct-Uranium-235	0.1355	wt %		J	0	0	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Pentachlorophenol	2400	µg/kg	U	UJ		2400	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Phenanthrene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Phenol	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Plutonium-238	0.008575	pCi/g	U	UJ	0.01715	0.02324	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Plutonium-239/240	0.01715	pCi/g	U	UJ	0.02425	0.02324	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Plutonium-242	0.008575	pCi/g	U	U	0.02966	0.06303	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Plutonium-244	0.008575	pCi/g	U	U	0.02966	0.06303	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Protactinium-231	16.18	pCi/g	U	U	102.9	169.9	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Protactinium-234m	11.73	pCi/g	U	U	376.4	488.1	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Pyrene	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Pyridine	481	µg/kg	U	UJ		481	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Selenium	7.19	mg/kg	U	U		7.19	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Silver	25.8	mg/kg	U	U		25.8	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Technetium-99	1.56	pCi/g	U	UJ	6.5	10.9	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Thorium-228	-0.0111	pCi/g	U	U	0.04977	0.1198	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Thorium-230	0.1226	pCi/g		UJ	0.07393	0.0302	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Thorium-231	13.05	pCi/g	U	U	58.12	95.76	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Thorium-232	0	pCi/g	U	U	0	0.03015	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Thorium-234	-23.13	pCi/g	U	U	196	269.8	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Total Uranium	38.2	µg/g		J	0	0.3204	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Uranium-232	-0.009584	pCi/g	U	U	0.01917	0.07058	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Uranium-233	0.0262	mg/kg	U	U		0.0262	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Uranium-233/234	5.871	pCi/g		=	0.4913	0.1419	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Uranium-235/234	55.1	%		J	0		19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Uranium-236	0.07808	pCi/g		UJ	0.05903	0.03023	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-3	SOLID	SZ	Uranium-238	12.82	pCi/g		=	0.7192	0.0933	19-Jul-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Americium-241	0.3942	pCi/sample	U	UJ	0.4551	0.3561	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Americium-242	-0.09355	pCi/sample	U	U	0.3245	0.8702	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Americium-243	-0.09391	pCi/sample	U	U	0.3258	0.8735	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Berkelium-247	0.0002638	pCi/sample	U	U	0.7465	1.943	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Californium-249	-0.1139	pCi/sample	U	U	0.2279	0.8391	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Californium-251	0.0005291	pCi/sample	U	U	1.059	2.458	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Cesium-137	-35.1	pCi/sample	U	U	26.26	41.95	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Cobalt-60	11.78	pCi/sample	U	U	20.75	36.62	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Curium-243/244	-0.5976	pCi/sample	U	U	0.5976	1.795	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Curium-245/246	-0.1873	pCi/sample	U	U	0.2649	0.8702	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Curium-247	0	pCi/sample	U	U	0	0.5012	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Curium-248	0.1427	pCi/sample	U	U	0.2855	0.3868	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Curium-250	2.637	pCi/sample	U	UJ	5.273	1.411	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Neptunium-237	0.3123	pCi/sample	U	UJ	0.3607	0.2821	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Pct-Uranium-235	3006	pCi/sample		J	675.5	336.2	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Pct-Uranium-235	0.399	wt %		J	0	0	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Plutonium-238	0.2076	pCi/sample	U	U	0.2937	0.2814	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Plutonium-239/240	0.3116	pCi/sample	U	U	0.4642	0.7639	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Plutonium-242	0.4149	pCi/sample	U	UJ	0.4149	0.2811	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Plutonium-244	0	pCi/sample	U	U	0	0.2811	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Protactinium-231	-252.3	pCi/sample	U	U	1091	1788	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Protactinium-234m	124800	pCi/sample		=	4429	4482	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Technetium-99	53.8	pCi/sample		UJ	22.9	35.8	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Thorium-228	0.7956	pCi/sample	U	UJ	0.9187	0.7184	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Thorium-230	13.27	pCi/sample		J	3.972	2.856	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Thorium-231	4506	pCi/sample		=	53.11	1391	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Thorium-232	0.5299	pCi/sample	U	UJ	0.7494	0.718	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Thorium-234	93920	pCi/sample		=	1001	3586	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Total Uranium	348700	µg/sample		J	0	798.5	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Uranium-232	-20.01	pCi/sample	U	U	28.31	92.99	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Uranium-233	150	ug/wipe	U	U		150	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Uranium-233/234	56360	pCi/sample		=	2578	352.4	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Uranium-235/234	154	%		J	0		19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Uranium-236	292.6	pCi/sample		UJ	195.1	88.12	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-1-4-2	B30CP3110402-4	WIPE	SW	Uranium-238	116900	pCi/sample		=	3702	215.6	19-Jul-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Americium-241	0.000841	pCi/g	U	U	0.002057	0.003898	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Americium-242	-0.000345	pCi/g	U	U	0.001194	0.003203	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Americium-243	-0.000346	pCi/g	U	U	0.001199	0.003215	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Arsenic	4.18	mg/kg	U	U		4.18	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Barium	2.79	mg/kg	U	U		2.79	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Berkelium-247	-0.000971	pCi/g	U	U	0.001941	0.00715	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Beryllium	1.22	mg/kg	U	U		1.22	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Cadmium	2.87	mg/kg	U	U		2.87	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Californium-249	0.000419	pCi/g	U	U	0.000839	0.001137	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Californium-251	9.73E-07	pCi/g	U	U	0.002755	0.007171	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Cesium-137	-0.0617	pCi/g	U	U	0.08394	0.1367	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Chromium	2030	mg/kg		=		10.7	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Cobalt-60	0.0628	pCi/g	U	U	0.07272	0.1298	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Curium-243/244	0.000479	pCi/g	U	U	0.001656	0.003518	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Curium-245/246	-0.000345	pCi/g	U	U	0.000689	0.002538	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Curium-247	-0.0212	pCi/g	U	U	0.007472	0.01854	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Curium-248	9.12E-07	pCi/g	U	U	0.001824	0.004236	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Curium-250	-0.00973	pCi/g	U	U	0.03374	0.0178	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Lead	260	mg/kg		=		3	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Mercury	1.58	mg/kg	U	UJ		1.58	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Neptunium-237	3.14E-07	pCi/g	U	U	0.000888	0.002312	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Pct-Uranium-235	2.88	wt %		J	0	0	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Plutonium-238	0.00189	pCi/g		UJ	0.001536	0.0008493	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Plutonium-239/240	0	pCi/g	U	U	0	0.0008493	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Plutonium-242	-0.00076	pCi/g	U	U	0.001863	0.004569	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Plutonium-244	-0.000761	pCi/g	U	U	0.001076	0.003533	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Protactinium-231	-3	pCi/g	U	U	3.66	5.691	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Protactinium-234m	-4.79	pCi/g	U	U	11.97	17.53	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Selenium	5.76	mg/kg	U	U		5.76	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Silver	20.7	mg/kg	U	U		20.7	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Technetium-99	2.51	pCi/g		=	0.2991	0.3826	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Thorium-228	3.73E-07	pCi/g	U	U	0.001055	0.002745	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Thorium-230	0.0105	pCi/g		=	0.004092	0.002749	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Thorium-231	-1.99	pCi/g	U	U	2.451	3.246	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Thorium-232	0.00112	pCi/g	U	UJ	0.001292	0.001011	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Thorium-234	1.85	pCi/g	U	U	6.63	9.048	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Total Uranium	2.222	µg/g		J	0	0.0072	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Uranium-232	-0.00067	pCi/g	U	U	0.00723	0.003003	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Uranium-233/234	2.43	pCi/g		=	0.08479	0.002007	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Uranium-235	0.138	pCi/g		J	0.02246	0.002475	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Uranium-235/234	164	%		=	0		14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Uranium-236	0.0147	pCi/g		UJ	0.007336	0.006036	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-3	SOLID	SZ	Uranium-238	0.734	pCi/g		=	0.04656	0.002003	14-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Americium-241	0.205	pCi/sample	U	UJ	0.2369	0.1853	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Americium-242	0.0000665	pCi/sample	U	U	0.1882	0.4899	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Americium-243	0.0000668	pCi/sample	U	U	0.1889	0.4918	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Berkelium-247	-0.562	pCi/sample	U	U	0.8381	2.252	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Californium-249	-0.0809	pCi/sample	U	U	0.1618	0.596	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Californium-251	0.564	pCi/sample	U	U	0.8405	2.258	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Cesium-137	-3.177	pCi/sample	U	U	7.836	12.88	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Cobalt-60	1.149	pCi/sample	U	U	6.489	11.31	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Curium-243/244	0	pCi/sample	U	U	0	0.211	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Curium-245/246	0.0666	pCi/sample	U	U	0.1332	0.1804	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Curium-247	0.385	pCi/sample	U	UJ	0.3851	0.2609	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Curium-248	0.0743	pCi/sample	U	U	0.1486	0.2013	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Curium-250	-1.87	pCi/sample	U	U	3.739	2.722	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Neptunium-237	-0.125	pCi/sample	U	U	0.25	0.6731	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Pct-Uranium-235	2.54	wt %		J	0	0	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Plutonium-238	0.125	pCi/sample	U	U	0.1764	0.169	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Plutonium-239/240	0.0624	pCi/sample	U	U	0.216	0.459	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Plutonium-242	0.000125	pCi/sample	U	U	0.2491	0.5785	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Plutonium-244	0.0000623	pCi/sample	U	U	0.1762	0.4585	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Protactinium-231	-68.07	pCi/sample	U	U	322.3	528.2	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Protactinium-234m	-700.6	pCi/sample	U	U	1185	1585	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Technetium-99	306	pCi/sample		=	28.4	33.1	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Thorium-228	-0.0734	pCi/sample	U	U	0.2545	0.6823	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Thorium-230	3.31	pCi/sample		=	1.03	0.6831	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Thorium-231	122	pCi/sample	U	U	184.4	303.8	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Thorium-232	0	pCi/sample	U	U	0	0.1991	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Thorium-234	95.61	pCi/sample	U	U	773.8	1059	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Total Uranium	445	µg/sample		J	0	2.822	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Uranium-232	0	pCi/sample	U	U	0	0.1714	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Uranium-233/234	519	pCi/sample		=	13.21	1.007	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Uranium-235	2.44	pCi/sample		UJ	3.181	0.2805	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Uranium-235/234	136	%		=	0		14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Uranium-236	1.86	pCi/sample		J	0.8719	0.6839	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X330-31-4-2-2	B30CP3140202-4	WIPE	SW	Uranium-238	147	pCi/sample		=	7.033	0.9011	14-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	1,2,4-Trichlorobenzene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	1,2-Dichlorobenzene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	1,3-Dichlorobenzene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	1,4-Dichlorobenzene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2,4,5-Trichlorophenol	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2,4,6-Trichlorophenol	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2,4-Dichlorophenol	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2,4-Dinitrophenol	5560	µg/kg	U	UJ		5560	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2,4-Dinitrotoluene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2,6-Dinitrotoluene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2-Chloronaphthalene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2-Chlorophenol	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2-Methyl-4,6-dinitrophenol	5560	µg/kg	U	UJ		5560	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2-Methylphenol	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	2-Nitrophenol	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	3- and 4- Methylphenol	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	4-Bromophenyl phenyl ether	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	4-Chloro-3-methylphenol	2220	µg/kg	U	UJ		2220	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	4-Chlorophenyl phenyl ether	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	4-Nitrophenol	5560	µg/kg	U	UJ		5560	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Acenaphthene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Acenaphthylene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Americium-241	0.02519	pCi/g	U	U	0.03084	0.04633	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Americium-242	-0.02663	pCi/g	U	U	0.03845	0.08884	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Americium-243	-0.02673	pCi/g	U	U	0.03859	0.08918	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Anthracene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Arsenic	8.01	mg/kg	B	J		4.83	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Barium	3.22	mg/kg	U	U		3.22	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Benz(a)anthracene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Benzo(a)pyrene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Benzo(b)fluoranthene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Benzo(ghi)perylene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Benzo(k)fluoranthene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.04073	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Beryllium	1.41	mg/kg	U	U		1.41	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Bis(2-chloroethoxy)methane	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Bis(2-chloroethyl) ether	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Bis(2-ethylhexyl)phthalate	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Butyl benzyl phthalate	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Cadmium	3.31	mg/kg	U	U		3.31	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Californium-249	-0.006484	pCi/g	U	U	0.01297	0.04775	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Californium-251	0.01507	pCi/g	U	U	0.03014	0.04084	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Cesium-137	-1.434	pCi/g	U	U	1.399	2.257	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Chromium	12.4	mg/kg	U	U		12.4	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Chrysene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Cobalt-60	1.025	pCi/g	U	U	1.131	2.022	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Curium-243/244	0.007168	pCi/g	U	U	0.01434	0.01942	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Curium-245/246	-0.01599	pCi/g	U	U	0.01846	0.05741	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Curium-247	0.00889	pCi/g	U	U	0.04688	0.09537	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Curium-248	0.02736	pCi/g	U	UJ	0.02736	0.01854	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Curium-250	-0.2998	pCi/g	U	U	0.7353	0.3558	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Dibenz(a,h)anthracene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Diethyl phthalate	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Di-n-butyl phthalate	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Di-n-octylphthalate	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Diphenyldiazene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Fluoranthene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Fluorene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Hexachlorobenzene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Hexachlorobutadiene	5560	µg/kg	U	UJ		5560	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Hexachlorocyclopentadiene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Hexachloroethane	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Indeno(1,2,3-cd)pyrene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Isophorone	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Lead	180	mg/kg		=		3.46	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Lead	0.021	mg/L	B	J		0.0038	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Mercury	0.043	mg/kg	U	UJ		0.043	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Naphthalene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Neptunium-237	0.2073	pCi/g		=	0.07738	0.07976	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Nitrobenzene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	N-Nitrosodimethylamine	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	N-Nitroso-di-n-propylamine	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	N-Nitrosodiphenylamine	5560	µg/kg	U	UJ		5560	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Pct-Uranium-235	1.646	pCi/g		J	0.3431	0.04848	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Pct-Uranium-235	0.831	wt %	U	J	0	0	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Pentachlorophenol	5560	µg/kg	U	UJ		5560	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Phenanthrene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Phenol	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Plutonium-238	0.02121	pCi/g	U	U	0.02596	0.039	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Plutonium-239/240	0.01591	pCi/g	U	U	0.02804	0.0492	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Plutonium-242	-0.009868	pCi/g	U	U	0.0242	0.05936	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Plutonium-244	0.004944	pCi/g	U	U	0.009888	0.0134	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Protactinium-231	-59.08	pCi/g	U	U	58.26	91.24	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Protactinium-234m	58.77	pCi/g	U	U	185.9	278.2	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Pyrene	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Pyridine	1110	µg/kg	U	UJ		1110	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Selenium	6.65	mg/kg	U	U		6.65	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Silver	23.9	mg/kg	U	U		23.9	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Technetium-99	1700	pCi/g		=	24.3	5.69	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Thorium-228	-0.006171	pCi/g	U	U	0.02766	0.06657	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Thorium-230	0.861	pCi/g		=	0.1481	0.0575	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Thorium-231	-36.95	pCi/g	U	U	39.33	52.59	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Thorium-232	6.178E-06	pCi/g	U	U	0.01748	0.04549	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Thorium-234	168.9	pCi/g	U	UJ	69.83	148.8	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Total Uranium	91.65	µg/g		J	0	0.1398	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Uranium-232	-0.04247	pCi/g	U	U	0.05203	0.1393	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Uranium-233	0.0478	mg/kg	U	U		0.0478	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Uranium-233/234	22.71	pCi/g		=	1.149	0.1346	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Uranium-235/234	210	%		J	0		17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Uranium-236	0.06424	pCi/g	U	UJ	0.06424	0.04353	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-1	SOLID	SZ	Uranium-238	30.65	pCi/g		=	1.332	0.03922	17-Aug-11	REG	BARRIER; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	1,2,4-Trichlorobenzene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	1,2-Dichlorobenzene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	1,3-Dichlorobenzene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	1,4-Dichlorobenzene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2,4,5-Trichlorophenol	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2,4,6-Trichlorophenol	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2,4-Dichlorophenol	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2,4-Dinitrophenol	2380	µg/kg	U	UJ		2380	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2,4-Dinitrotoluene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2,6-Dinitrotoluene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2-Chloronaphthalene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2-Chlorophenol	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2-Methyl-4,6-dinitrophenol	2380	µg/kg	U	UJ		2380	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2-Methylphenol	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	2-Nitrophenol	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	3- and 4- Methylphenol	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	4-Bromophenyl phenyl ether	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	4-Chloro-3-methylphenol	952	µg/kg	U	UJ		952	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	4-Chlorophenyl phenyl ether	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	4-Nitrophenol	2380	µg/kg	U	UJ		2380	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Acenaphthene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Acenaphthylene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Americium-241	0.01394	pCi/g	U	U	0.01971	0.01889	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Americium-242	0.005751	pCi/g	U	U	0.01989	0.04227	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Americium-243	0.005773	pCi/g	U	U	0.01997	0.04243	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Anthracene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Arsenic	5.15	mg/kg	U	UJ		5.15	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Barium	3.44	mg/kg	U	U		3.44	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Benz(a)anthracene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Benzo(a)pyrene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Benzo(b)fluoranthene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Benzo(ghi)perylene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Benzo(k)fluoranthene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.04386	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Beryllium	1.5	mg/kg	U	U		1.5	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Bis(2-chloroethoxy)methane	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Bis(2-chloroethyl) ether	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Bis(2-ethylhexyl)phthalate	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Butyl benzyl phthalate	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Cadmium	3.54	mg/kg	U	U		3.54	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Californium-249	-0.006982	pCi/g	U	U	0.01396	0.05142	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.04398	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Cesium-137	-1.563	pCi/g	U	U	1.527	2.462	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Chromium	695	mg/kg		=		13.2	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Chromium	0.338	mg/L		=		0.0136	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Chrysene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Cobalt-60	0.642	pCi/g	U	U	1.257	2.217	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Curium-243/244	-0.007926	pCi/g	U	U	0.01585	0.05838	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Curium-245/246	-0.005739	pCi/g	U	U	0.01148	0.04227	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Curium-247	0.01962	pCi/g	U	U	0.02775	0.02659	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Curium-248	0.03029	pCi/g	U	UJ	0.03029	0.02052	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Curium-250	0.0001615	pCi/g	U	U	0.457	0.2348	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Dibenz(a,h)anthracene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Diethyl phthalate	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Di-n-butyl phthalate	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Di-n-octylphthalate	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Diphenyldiazene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Fluoranthene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Fluorene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Hexachlorobenzene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Hexachlorobutadiene	2380	µg/kg	U	UJ		2380	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Hexachlorocyclopentadiene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Hexachloroethane	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Indeno(1,2,3-cd)pyrene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Isophorone	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Lead	28	mg/kg	B	J		3.69	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Mercury	0.038	mg/kg	U	UJ		0.038	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Naphthalene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Neptunium-237	0.01886	pCi/g	U	U	0.02809	0.04623	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Nitrobenzene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	N-Nitrosodimethylamine	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	N-Nitroso-di-n-propylamine	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	N-Nitrosodiphenylamine	2380	µg/kg	U	UJ		2380	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Pct-Uranium-235	-0.01501	pCi/g	U	UJ	0.05206	0.1396	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Pct-Uranium-235	0	wt %	U	J	0	0	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Pentachlorophenol	2380	µg/kg	U	UJ		2380	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Phenanthrene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Phenol	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Plutonium-238	0.0188	pCi/g	U	U	0.02802	0.0461	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Plutonium-239/240	0	pCi/g	U	U	0	0.01698	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Plutonium-242	0.02504	pCi/g	U	UJ	0.02504	0.01696	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Plutonium-244	0.006259	pCi/g	U	U	0.01252	0.01696	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Protactinium-231	13.77	pCi/g	U	U	63.27	104.5	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Protactinium-234m	62.83	pCi/g	U	U	207	309.1	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Pyrene	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Pyridine	476	µg/kg	U	UJ		476	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Selenium	7.09	mg/kg	U	U		7.09	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Silver	25.4	mg/kg	U	U		25.4	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Technetium-99	2.67	pCi/g	U	U	3.87	6.39	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Thorium-228	0.006494	pCi/g	U	U	0.02247	0.04772	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Thorium-230	0.03897	pCi/g	U	U	0.04106	0.06028	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Thorium-231	-27.15	pCi/g	U	U	43.86	59.06	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Thorium-232	0.006488	pCi/g	U	U	0.02245	0.04769	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Thorium-234	17.49	pCi/g	U	U	121.6	166.2	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Total Uranium	0.1768	µg/g	U	UJ	0	0.5012	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Uranium-232	-0.01185	pCi/g	U	U	0.0237	0.08726	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Uranium-233	0.0494	mg/kg	U	U		0.0494	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Uranium-233/234	0.1829	pCi/g	U	U	0.1357	0.1933	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Uranium-235/234	0	%	U	U	0		17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Uranium-236	-0.02698	pCi/g	U	UJ	0.03815	0.1253	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-2-7-4	B33CV3320704-2	SOLID	SZ	Uranium-238	0.06088	pCi/g	U	U	0.0877	0.1461	17-Aug-11	REG	SHELL; TRANSFER# N/A F-CAN# F016772
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	1,2,4-Trichlorobenzene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	1,2-Dichlorobenzene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	1,3-Dichlorobenzene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	1,4-Dichlorobenzene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2,4,5-Trichlorophenol	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2,4,6-Trichlorophenol	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2,4-Dichlorophenol	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2,4-Dinitrophenol	2460	µg/kg	U	UJ		2460	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2,4-Dinitrotoluene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2,6-Dinitrotoluene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2-Chloronaphthalene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2-Chlorophenol	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2-Methyl-4,6-dinitrophenol	2460	µg/kg	U	UJ		2460	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2-Methylphenol	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	2-Nitrophenol	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	3- and 4- Methylphenol	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	4-Bromophenyl phenyl ether	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	4-Chloro-3-methylphenol	985	µg/kg	U	UJ		985	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	4-Chlorophenyl phenyl ether	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	4-Nitrophenol	2460	µg/kg	U	UJ		2460	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Acenaphthene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Acenaphthylene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Americium-241	0.01826	pCi/g	U	U	0.02582	0.02474	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Americium-242	-0.04153	pCi/g	U	U	0.03139	0.08912	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Americium-243	-0.04169	pCi/g	U	U	0.03151	0.08946	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Anthracene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Arsenic	5.26	mg/kg	U	UJ		5.26	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Barium	3.51	mg/kg	U	U		3.51	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Benz(a)anthracene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Benzo(a)pyrene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Benzo(b)fluoranthene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Benzo(ghi)perylene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Benzo(k)fluoranthene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.04533	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Beryllium	1.53	mg/kg	U	U		1.53	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Bis(2-chloroethoxy)methane	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Bis(2-chloroethyl) ether	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Bis(2-ethylhexyl)phthalate	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Butyl benzyl phthalate	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Cadmium	3.61	mg/kg	U	U		3.61	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Californium-249	0	pCi/g	U	U	0	0.01958	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Californium-251	0	pCi/g	U	U	0	0.04546	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Cesium-137	-0.4554	pCi/g	U	U	1.505	2.482	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Chromium	9790	mg/kg		=		13.5	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Chromium	0.381	mg/L		=		0.0136	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Chrysene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Cobalt-60	1.372	pCi/g	U	U	1.28	2.3	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Curium-243/244	0	pCi/g	U	U	0	0.02816	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Curium-245/246	-0.005933	pCi/g	U	U	0.01187	0.04369	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Curium-247	0.01285	pCi/g	U	U	0.0257	0.03482	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Curium-248	-0.009896	pCi/g	U	U	0.03433	0.09205	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Curium-250	-0.502	pCi/g	U	U	0.5796	0.355	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Dibenz(a,h)anthracene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Diethyl phthalate	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Di-n-butyl phthalate	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Di-n-octylphthalate	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Diphenyldiazene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Fluoranthene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Fluorene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Hexachlorobenzene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Hexachlorobutadiene	2460	µg/kg	U	UJ		2460	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Hexachlorocyclopentadiene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Hexachloroethane	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Indeno(1,2,3-cd)pyrene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Isophorone	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Lead	21.4	mg/kg	B	J		3.77	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Mercury	0.0482	mg/kg	U	UJ		0.0482	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Naphthalene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Neptunium-237	0.005963	pCi/g	U	U	0.02063	0.04383	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Nitrobenzene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	N-Nitrosodimethylamine	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	N-Nitroso-di-n-propylamine	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	N-Nitrosodiphenylamine	2460	µg/kg	U	UJ		2460	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Pct-Uranium-235	0.1551	pCi/g		UJ	0.1074	0.1141	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Pct-Uranium-235	0.5057	wt %	U	J	0	0	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Pentachlorophenol	2460	µg/kg	U	UJ		2460	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Phenanthrene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Phenol	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Plutonium-238	0.005946	pCi/g	U	U	0.02057	0.04371	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Plutonium-239/240	0.01783	pCi/g	U	U	0.02656	0.04371	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Plutonium-242	0.01187	pCi/g	U	U	0.02373	0.04366	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Plutonium-244	0	pCi/g	U	U	0	0.01608	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Protactinium-231	-36.07	pCi/g	U	U	63.8	103.2	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Protactinium-234m	-113.5	pCi/g	U	U	206.6	300.5	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Pyrene	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Pyridine	493	µg/kg	U	UJ		493	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Selenium	7.24	mg/kg	U	U		7.24	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Silver	26	mg/kg	U	U		26	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Technetium-99	0.629	pCi/g	U	U	3.91	6.58	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Thorium-228	-0.01134	pCi/g	U	U	0.05084	0.1223	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Thorium-230	0.1025	pCi/g	U	U	0.08816	0.1225	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Thorium-231	-6.408	pCi/g	U	U	43.02	58.26	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Thorium-232	0.00001135	pCi/g	U	U	0.03213	0.08361	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Thorium-234	25.11	pCi/g	U	U	120.1	163.9	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Total Uranium	14.19	µg/g		J	0	0.5026	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Uranium-232	0.0117	pCi/g	U	U	0.02341	0.03172	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Uranium-233	0.049	mg/kg	U	U		0.049	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Uranium-233/234	4.739	pCi/g		=	0.4933	0.1509	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Uranium-235/234	94.6	%		J	0		11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Uranium-236	0.02786	pCi/g	U	UJ	0.05568	0.1024	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-3	SOLID	SZ	Uranium-238	4.754	pCi/g		=	0.4936	0.1506	11-Aug-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Americium-241	0.07062	pCi/sample	U	U	0.1412	0.1914	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Americium-242	0.327	pCi/sample	U	U	0.3459	0.481	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Americium-243	0.3282	pCi/sample	U	U	0.3472	0.4829	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Berkelium-247	-0.184	pCi/sample	U	U	0.368	1.355	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Californium-249	0	pCi/sample	U	U	0	0.2155	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Californium-251	-0.1845	pCi/sample	U	U	0.369	1.359	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Cesium-137	-10.15	pCi/sample	U	U	16.62	27.16	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Cobalt-60	6.17	pCi/sample	U	U	13.88	24.38	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Curium-243/244	-0.1606	pCi/sample	U	U	0.2271	0.7462	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Curium-245/246	0.1961	pCi/sample	U	UJ	0.2265	0.1772	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Curium-247	0.3976	pCi/sample	U	UJ	0.3976	0.2694	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Curium-248	0.3069	pCi/sample	U	UJ	0.3069	0.2079	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Curium-250	0.001837	pCi/sample	U	U	5.198	2.672	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Neptunium-237	0.00006775	pCi/sample	U	U	0.1917	0.4989	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Pct-Uranium-235	831.8	pCi/sample		J	151.9	50.17	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Pct-Uranium-235	0.7897	wt %	U	J	0	0	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Plutonium-238	0	pCi/sample	U	U	0	0.1832	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Plutonium-239/240	0.2705	pCi/sample	U	UJ	0.2705	0.1832	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Plutonium-242	0.1352	pCi/sample	U	U	0.2701	0.497	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Plutonium-244	0	pCi/sample	U	U	0	0.1831	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Protactinium-231	-52.65	pCi/sample	U	U	681.2	1122	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Protactinium-234m	16160	pCi/sample		=	2026	2860	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Technetium-99	-3.38	pCi/sample	U	U	20.2	34.7	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Thorium-228	0.311	pCi/sample	U	UJ	0.311	0.2107	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Thorium-230	2.413	pCi/sample		=	0.8941	0.5726	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Thorium-231	1159	pCi/sample		UJ	57.69	707.2	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Thorium-232	0.07768	pCi/sample	U	U	0.1554	0.2105	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Thorium-234	13080	pCi/sample		=	512.7	1930	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Total Uranium	48750	µg/sample		J	0	297.6	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Uranium-232	0.003174	pCi/sample	U	U	8.982	23.38	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Uranium-233	50	ug/wipe	U	U		50	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Uranium-233/234	14920	pCi/sample		=	576.9	104	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Uranium-235/234	161	%		J	0		11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Uranium-236	36.75	pCi/sample	U	UJ	42.4	65.87	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-3-9-2	B33CP3330902-4	WIPE	SW	Uranium-238	16310	pCi/sample		=	601.6	91.86	11-Aug-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	1,2,4-Trichlorobenzene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	1,2-Dichlorobenzene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	1,3-Dichlorobenzene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	1,4-Dichlorobenzene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2,4,5-Trichlorophenol	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2,4,6-Trichlorophenol	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2,4-Dichlorophenol	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2,4-Dinitrophenol	922	µg/kg	U	U		922	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2,4-Dinitrotoluene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2,6-Dinitrotoluene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2-Chloronaphthalene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2-Chlorophenol	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2-Methyl-4,6-dinitrophenol	922	µg/kg	U	U		922	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2-Methylphenol	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	2-Nitrophenol	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	3- and 4- Methylphenol	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	4-Bromophenyl phenyl ether	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	4-Chloro-3-methylphenol	369	µg/kg	U	U		369	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	4-Chlorophenyl phenyl ether	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	4-Nitrophenol	922	µg/kg	U	U		922	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Acenaphthene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Acenaphthylene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Americium-241	0.00076	pCi/g	U	UJ	0.00088	0.0006883	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Americium-242	0.0015	pCi/g	U	U	0.001545	0.002306	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Americium-243	0.00151	pCi/g	U	U	0.001551	0.002315	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Anthracene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Arsenic	3.31	mg/kg	U	U		3.31	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Barium	2.21	mg/kg	U	U		2.21	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Benz(a)anthracene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Benzo(a)pyrene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Benzo(b)fluoranthene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Benzo(ghi)perylene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Benzo(k)fluoranthene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Berkelium-247	0	pCi/g	U	U	0	0.001636	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Beryllium	0.965	mg/kg	U	U		0.965	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Bis(2-chloroethoxy)methane	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Bis(2-chloroethyl) ether	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Bis(2-ethylhexyl)phthalate	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Butyl benzyl phthalate	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Cadmium	2.28	mg/kg	U	U		2.28	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Californium-249	0.000522	pCi/g	U	U	0.000737	0.0007069	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Californium-251	-0.00121	pCi/g	U	U	0.00242	0.006514	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Cesium-137	-0.0706	pCi/g	U	U	0.05125	0.08179	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Chromium	1320	mg/kg		=		68	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Chrysene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Cobalt-60	0.0401	pCi/g	U	U	0.04297	0.07703	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Curium-243/244	-0.000289	pCi/g	U	U	0.001001	0.002685	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Curium-245/246	0.000214	pCi/g	U	U	0.000742	0.001577	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Curium-247	0.000358	pCi/g	U	U	0.001238	0.002631	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Curium-248	0.000276	pCi/g	U	U	0.000552	0.0007479	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Curium-250	0.0121	pCi/g	U	U	0.03421	0.01281	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Dibenz(a,h)anthracene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Diethyl phthalate	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Di-n-butyl phthalate	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Di-n-octylphthalate	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Diphenyldiazene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Fluoranthene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Fluorene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Hexachlorobenzene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Hexachlorobutadiene	922	µg/kg	U	U		922	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Hexachlorocyclopentadiene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Hexachloroethane	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Indeno(1,2,3-cd)pyrene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Isophorone	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Lead	184	mg/kg		=		19	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Mercury	1.25	mg/kg	U	UJ		1.25	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Naphthalene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Neptunium-237	2.19E-07	pCi/g	U	U	0.000619	0.001612	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Nitrobenzene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	N-Nitrosodimethylamine	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	N-Nitroso-di-n-propylamine	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	N-Nitrosodiphenylamine	922	µg/kg	U	U		922	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	PCB-1016	9.9	µg/kg	U	U		9.9	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	PCB-1221	9.9	µg/kg	U	U		9.9	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	PCB-1232	9.9	µg/kg	U	U		9.9	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	PCB-1242	9.9	µg/kg	U	U		9.9	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	PCB-1248	9.9	µg/kg	U	U		9.9	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	PCB-1254	9.9	µg/kg	U	U		9.9	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	PCB-1260	9.9	µg/kg	U	U		9.9	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	PCB-1268	9.9	µg/kg	U	U		9.9	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Pct-Uranium-235	1.16	wt %		J	0	0	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Pentachlorophenol	922	µg/kg	U	U		922	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Phenanthrene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Phenol	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Plutonium-238	0.000655	pCi/g	U	UJ	0.000756	0.000592	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________

Table A.1 PORTS Process Building Data

STA_NAME	PROJ_SAMPLE_ID	MATRIX	MED_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RSLTQUAL	VALIDATION	RAD_ERR	DETECT_LIMIT	D_COLLECTED	SMP_TYPE	SAMPLE_COMMENTS
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Plutonium-239/240	0.000218	pCi/g	U	U	0.000437	0.000592	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Plutonium-242	-0.000224	pCi/g	U	U	0.001348	0.002946	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Plutonium-244	0.000226	pCi/g	U	U	0.001005	0.002088	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Polychlorinated biphenyl	79.2	µg/kg	U	U		79.2	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Protactinium-231	-0.332	pCi/g	U	U	2.185	3.59	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Protactinium-234m	5.06	pCi/g	U	U	7.32	11.1	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Pyrene	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Pyridine	184	µg/kg	U	U		184	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Selenium	4.56	mg/kg	U	U		4.56	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Silver	16.4	mg/kg	U	U		16.4	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Technetium-99	0.104	pCi/g	U	U	0.1408	0.2328	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Thorium-228	-0.00205	pCi/g	U	U	0.001641	0.004126	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Thorium-230	0.00388	pCi/g		UJ	0.002186	0.002453	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Thorium-231	-1.79	pCi/g	U	U	1.507	1.96	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Thorium-232	-0.000227	pCi/g	U	U	0.001017	0.002448	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Thorium-234	-0.264	pCi/g	U	U	4.068	5.536	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Total Uranium	5.095	µg/g		J	0	0.00498	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Uranium-232	0	pCi/g	U	U	0	0.001126	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Uranium-233/234	2.06	pCi/g		=	0.06529	0.003799	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Uranium-235	0.128	pCi/g		=	0.01802	0.001726	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Uranium-235/234	179	%		=	0		07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Uranium-236	0.00343	pCi/g		UJ	0.002802	0.00155	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-3	SOLID	SZ	Uranium-238	1.7	pCi/g		=	0.05921	0.001397	07-Sep-11	REG	SEAL; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Americium-241	0.132	pCi/sample	U	U	0.3216	0.6096	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Americium-242	0.0627	pCi/sample	U	U	0.1254	0.1699	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Americium-243	0.0629	pCi/sample	U	U	0.1259	0.1706	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Berkelium-247	0	pCi/sample	U	U	0	0.4786	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Californium-249	0	pCi/sample	U	U	0	0.2067	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Californium-251	0	pCi/sample	U	U	0	0.4799	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Cesium-137	-2.216	pCi/sample	U	U	7.915	13.06	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Cobalt-60	4.27	pCi/sample	U	U	6.993	12.34	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Curium-243/244	0	pCi/sample	U	U	0	0.2026	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Curium-245/246	0	pCi/sample	U	U	0	0.1699	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Curium-247	-0.0924	pCi/sample	U	U	0.1847	0.6801	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Curium-248	0.0713	pCi/sample	U	U	0.1427	0.1933	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Curium-250	0	pCi/sample	U	U	0	0.9439	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Neptunium-237	-0.13	pCi/sample	U	U	0.3213	0.7878	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Pct-Uranium-235	1.09	wt %		J	0	0	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Plutonium-238	-0.0653	pCi/sample	U	U	0.2265	0.6075	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Plutonium-239/240	0.0000654	pCi/sample	U	U	0.185	0.4815	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Plutonium-242	0.262	pCi/sample	U	U	0.4133	0.7034	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Plutonium-244	-0.13	pCi/sample	U	U	0.4132	0.9214	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Protactinium-231	60.37	pCi/sample	U	U	324.3	535.4	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Protactinium-234m	166	pCi/sample	U	U	1208	1675	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Technetium-99	43.1	pCi/sample		UJ	21.4	33.9	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Thorium-228	0.000475	pCi/sample	U	U	0.549	1.117	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Thorium-230	0.952	pCi/sample		UJ	0.6731	0.8537	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Thorium-231	-21.3	pCi/sample	U	U	185	303.6	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Thorium-232	-0.158	pCi/sample	U	U	0.2238	0.7352	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Thorium-234	1392	pCi/sample		UJ	346.4	1107	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Total Uranium	2680	µg/sample		J	0	3.63	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Uranium-232	0.124	pCi/sample	U	U	0.1757	0.1684	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Uranium-233/234	1070	pCi/sample		=	20.69	1.41	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Uranium-235	63.1	pCi/sample		=	5.591	0.9081	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Uranium-235/234	171	%		=	0		07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Uranium-236	3.21	pCi/sample		=	1.234	0.8153	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________
X333-33-4-2-2	B33CP3340202-4	WIPE	SW	Uranium-238	895	pCi/sample		=	18.91	1.074	07-Sep-11	REG	DEPOSIT; TRANSFER#______________F-CAN#______________

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Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW01B	WDMW01B-30-2.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	2-Butanone	11	ug/kg		BJ	1.7	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	2-Hexanone	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Acetone	5	ug/kg		U	5	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Alpha activity	3.31	pCi/g	0.339	J	0.533	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Aluminum	15000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Americium-241	0.0209	pCi/g	0.00785	U	0.02	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Antimony	0.35	mg/kg		U	0.35	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Arsenic	13	mg/kg			0.049	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Barium	49	mg/kg			0.07	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Benzaldehyde	67	ug/kg		U	67	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Benzoic acid	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Beryllium	0.41	mg/kg		B	0.031	0	2	SOIL	REG	SPS	J	6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Beta activity	2.36	pCi/g	0.257	J	0.747	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	76	ug/kg		BJ	46	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Bromoform	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Cadmium	0.038	mg/kg		U	0.038	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Calcium	220	mg/kg			13	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	6/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW01B	WDMW01B-04-2.0	RADS	Cesium-137	0.0329	pCi/g	0.053	U	0.163	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Chromium	15	mg/kg			0.054	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Cobalt	4.2	mg/kg			0.093	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Copper	12	mg/kg			0.2	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Dibromomethane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Iron	23000	mg/kg			3.5	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Lead	11	mg/kg			0.25	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Magnesium	1200	mg/kg			3.4	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Manganese	69	mg/kg			0.093	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Mercury	0.014	mg/kg		B	0.0054	0	2	SOIL	REG	SPS	J	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Methylene chloride	0.9	ug/kg		BJ	0.7	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Molybdenum	0.62	mg/kg		B	0.24	0	2	SOIL	REG	SPS	J	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Neptunium-237	0.009	pCi/g	0.00503	U	0.0172	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Nickel	11	mg/kg			0.11	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Phenol	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Plutonium-238	0	pCi/g	0.00316	U	0.0171	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Plutonium-239/240	0.0156	pCi/g	0.00631	U	0.0171	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Selenium	0.59	mg/kg			0.13	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Sodium	55	mg/kg		U	55	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Styrene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Technetium-99	0.529	pCi/g	0.312	U	1.03	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Thallium	0.17	mg/kg			0.0034	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Thorium-228	1.06	pCi/g	0.0495	J	0.0366	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Thorium-230	1.12	pCi/g	0.0497	J	0.021	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Thorium-232	0.971	pCi/g	0.0462	J	0.021	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Toluene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS	U	6/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW01B	WDMW01B-03-2.0	METAL	Uranium	0.68	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Uranium-233/234	0.78	pCi/g	0.0421	J	0.0173	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Uranium-235	0.0699	pCi/g	0.0143	J	0.0214	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Uranium-236	0.0226	pCi/g	0.00794	U	0.0192	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-2.0	RADS	Uranium-238	0.846	pCi/g	0.0438	J	0.0173	0	2	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Vanadium	33	mg/kg			0.087	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-2.0	METAL	Zinc	34	mg/kg			0.37	0	2	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	1,2,3-Trichloropropane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	2-Butanone	10	ug/kg		BJ	1.6	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	2-Butanone	11	ug/kg		BJ	1.8	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	2-Hexanone	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Acetone	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Acetone	5.3	ug/kg		U	5.3	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Acrolein	17	ug/kg		U	17	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Alpha activity	5.69	pCi/g	0.454		0.576	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Alpha activity	4.13	pCi/g	0.388	J	0.572	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Aluminum	16000	mg/kg			1.4	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Aluminum	15000	mg/kg			1.3	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Americium-241	0.0301	pCi/g	0.00986	U	0.0262	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Americium-241	0.00885	pCi/g	0.0059	U	0.0226	2.5	4.5	SOIL	REG	SPS		6/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW01B	WDMW01B-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Antimony	0.34	mg/kg		U	0.34	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Antimony	0.32	mg/kg		U	0.32	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Arsenic	16	mg/kg			0.044	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Arsenic	14	mg/kg			0.044	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Barium	45	mg/kg			0.068	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Barium	65	mg/kg			0.064	2.5	4.5	SOIL	REG	SPS	J	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Benzene	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Benzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Beryllium	0.59	mg/kg			0.03	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Beryllium	0.6	mg/kg			0.028	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Beta activity	1.16	pCi/g	0.234	J	0.776	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Beta activity	0.721	pCi/g	0.203	U	0.743	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	73	ug/kg		BJ	45	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Cadmium	0.037	mg/kg		U	0.037	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Cadmium	0.035	mg/kg		U	0.035	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Calcium	160	mg/kg			13	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Calcium	150	mg/kg			12	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Cesium-137	-0.123	pCi/g	0.0777	U	0.185	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Cesium-137	0.0148	pCi/g	0.0647	U	0.192	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Chloroethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Chloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Chloroform	0.25	ug/kg		U	0.25	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Chloromethane	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Chloromethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Chromium	18	mg/kg			0.052	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Chromium	17	mg/kg			0.049	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Cobalt	7.9	mg/kg			0.09	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Cobalt	8.5	mg/kg			0.085	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Copper	18	mg/kg			0.2	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Copper	19	mg/kg			0.18	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Dibromomethane	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Dibromomethane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	FR	SPS	U	6/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW01B	WDMW01B-30-4.5	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Iron	22000	mg/kg			3.4	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Iron	22000	mg/kg			3.2	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Lead	14	mg/kg			0.24	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Lead	14	mg/kg			0.23	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	M + P Xylene	0.9	ug/kg		U	0.9	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Magnesium	2500	mg/kg			3.3	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Magnesium	2400	mg/kg			3.1	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Manganese	83	mg/kg			0.09	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Manganese	93	mg/kg			0.085	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Mercury	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Mercury	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Methylene chloride	0.93	ug/kg		BJ	0.65	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Methylene chloride	1	ug/kg		BJ	0.74	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Molybdenum	0.23	mg/kg		U	0.23	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Molybdenum	0.22	mg/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Neptunium-237	0	pCi/g	0.00311	U	0.0211	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00494	U	0.0304	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Nickel	21	mg/kg			0.11	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Nickel	21	mg/kg			0.1	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Phenol	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Plutonium-238	0	pCi/g	0.00348	U	0.0236	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Plutonium-238	0.00255	pCi/g	0.0036	U	0.0195	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Plutonium-239/240	0.0172	pCi/g	0.00696	U	0.0188	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Plutonium-239/240	0.00509	pCi/g	0.00509	U	0.0244	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Selenium	0.78	mg/kg			0.12	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Selenium	0.76	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Sodium	78	mg/kg		B	53	2.5	4.5	SOIL	FR	SPS	J	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Sodium	76	mg/kg		B	50	2.5	4.5	SOIL	REG	SPS	J	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Styrene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Styrene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Technetium-99	0.298	pCi/g	0.313	U	1.04	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Technetium-99	0.436	pCi/g	0.311	U	1.03	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Thallium	0.14	mg/kg			0.0031	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Thallium	0.14	mg/kg			0.0031	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Thorium-228	1.37	pCi/g	0.0733	J	0.0814	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Thorium-228	1.4	pCi/g	0.0744	J	0.0625	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Thorium-230	1.4	pCi/g	0.0716	J	0.035	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Thorium-230	1.21	pCi/g	0.0677	J	0.0359	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Thorium-232	1.3	pCi/g	0.0691	J	0.0349	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Thorium-232	1.34	pCi/g	0.0708	J	0.0286	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Toluene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Toluene	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Total Xylene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Total Xylene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	6/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW01B	WDMW01B-31-4.5	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Trichlorofluoromethane	0.9	ug/kg		U	0.9	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Uranium	0.57	mg/kg			0.0014	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Uranium	0.57	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Uranium-233/234	0.775	pCi/g	0.0428	J	0.018	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Uranium-233/234	0.946	pCi/g	0.0457	J	0.0169	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Uranium-235	0.0726	pCi/g	0.0148	J	0.0222	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Uranium-235	0.0381	pCi/g	0.0105	J	0.0208	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Uranium-236	0.0261	pCi/g	0.00865	U	0.02	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Uranium-236	0.00732	pCi/g	0.00488	U	0.0187	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-19-4.5	RADS	Uranium-238	0.76	pCi/g	0.0423	J	0.0179	2.5	4.5	SOIL	FR	SPS		6/13/2011
WD-MW01B	WDMW01B-04-4.5	RADS	Uranium-238	0.801	pCi/g	0.0422	J	0.027	2.5	4.5	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Vanadium	32	mg/kg			0.085	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Vanadium	30	mg/kg			0.08	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Vinyl acetate	0.93	ug/kg		U	0.93	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-31-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	FR	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-18-4.5	METAL	Zinc	56	mg/kg			0.36	2.5	4.5	SOIL	FR	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-4.5	METAL	Zinc	63	mg/kg			0.34	2.5	4.5	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	1,1,2-Trichloroethane	0.76	ug/kg		U	0.76	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	1,2,3-Trichloropropane	0.7	ug/kg		U	0.7	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	2-Butanone	9.1	ug/kg		BJ	1.6	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	2-Hexanone	4.2	ug/kg		U	4.2	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Acetone	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Acrolein	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Alpha activity	5.1	pCi/g	0.432		0.574	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Aluminum	11000	mg/kg			1.3	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Americium-241	0.0152	pCi/g	0.00744	U	0.0232	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Antimony	0.33	mg/kg		U	0.33	10	12	SOIL	REG	SPS	U	6/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW01B	WDMW01B-03-12.0	METAL	Arsenic	12	mg/kg			0.043	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Barium	24	mg/kg			0.066	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Benzaldehyde	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Benzene	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Beryllium	0.73	mg/kg			0.029	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Beta activity	1.89	pCi/g	0.255	J	0.766	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	81	ug/kg		BJ	44	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Bromoform	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Bromomethane	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Cadmium	0.036	mg/kg		U	0.036	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Calcium	670	mg/kg			12	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Carbazole	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Cesium-137	-0.0333	pCi/g	0.0701	U	0.192	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Chloroethane	0.77	ug/kg		U	0.77	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Chloroform	0.25	ug/kg		U	0.25	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Chloromethane	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Chromium	15	mg/kg			0.05	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Cobalt	12	mg/kg			0.087	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Copper	18	mg/kg			0.19	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Dibromomethane	0.73	ug/kg		U	0.73	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Fluoranthene	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Iodomethane	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Iron	22000	mg/kg			3.3	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Lead	12	mg/kg			0.23	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	M + P Xylene	0.9	ug/kg		U	0.9	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Magnesium	2900	mg/kg			3.2	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Manganese	130	mg/kg			0.087	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Mercury	0.011	mg/kg		B	0.0052	10	12	SOIL	REG	SPS	J	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Methylene chloride	0.72	ug/kg		BJ	0.65	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Molybdenum	0.23	mg/kg		U	0.23	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Neptunium-237	-0.00254	pCi/g	0.00439	U	0.0312	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Nickel	26	mg/kg			0.11	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	PPCB	PCB-1016	0.0076	mg/kg		U	0.0076	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	PPCB	PCB-1221	0.023	mg/kg		U	0.023	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	PPCB	PCB-1232	0.0076	mg/kg		U	0.0076	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	PPCB	PCB-1242	0.014	mg/kg		U	0.014	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	PPCB	PCB-1248	0.0084	mg/kg		U	0.0084	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	PPCB	PCB-1254	0.0082	mg/kg		U	0.0082	10	12	SOIL	REG	SPS	U	6/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW01B	WDMW01B-02-12.0	PPCB	PCB-1260	0.004	mg/kg		U	0.004	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Phenol	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Plutonium-238	0.00751	pCi/g	0.00501	U	0.0192	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Plutonium-239/240	0.01	pCi/g	0.0056	U	0.0191	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-02-12.0	PPCB	Polychlorinated biphenyl	0.004	mg/kg		U	0.004	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-02-12.0	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Selenium	0.8	mg/kg			0.11	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Sodium	150	mg/kg		B	51	10	12	SOIL	REG	SPS	J	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Styrene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Technetium-99	0.599	pCi/g	0.317	U	1.04	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Thallium	0.14	mg/kg			0.0029	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Thorium-228	1.51	pCi/g	0.0777	J	0.0741	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Thorium-230	1.07	pCi/g	0.0636	J	0.0288	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Thorium-232	1.58	pCi/g	0.0772	J	0.0287	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Toluene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Total Xylene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Trichloroethene	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Trichlorofluoromethane	0.9	ug/kg		U	0.9	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Uranium	0.44	mg/kg			0.0013	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Uranium-233/234	0.801	pCi/g	0.0449	J	0.0355	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Uranium-235	0.0456	pCi/g	0.0122	J	0.0233	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Uranium-236	0.0109	pCi/g	0.00611	U	0.0209	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-04-12.0	RADS	Uranium-238	0.859	pCi/g	0.046	J	0.0188	10	12	SOIL	REG	SPS		6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Vanadium	25	mg/kg			0.082	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Vinyl acetate	0.93	ug/kg		U	0.93	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-30-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	6/13/2011
WD-MW01B	WDMW01B-03-12.0	METAL	Zinc	63	mg/kg			0.35	10	12	SOIL	REG	SPS	=	6/13/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Aluminum	7900	mg/kg			1.5	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Antimony	280	ug/kg			26	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Arsenic	12	mg/kg			0.047	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Barium	38000	ug/kg			65	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Chromium	13000	ug/kg			70	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Cobalt	10000	ug/kg			6.1	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Iron	29000	mg/kg			3.6	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Lead	15000	ug/kg			17	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-33-CU01	RADS	Lead-210	1.13	pCi/g	0.15	J	0.643	25.4	26.4	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Manganese	290000	ug/kg			31	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-33-CU01	RADS	Polonium-210	0.838	pCi/g	0.164	J	0.233	25.4	26.4	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU01	RADS	Radium-226	1.98	pCi/g	0.651	U	2.96	25.4	26.4	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU01	RADS	Technetium-99	-0.0732	pCi/g	0.155	U	0.523	25.4	26.4	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU01	RADS	Thorium-230	1.34	pCi/g	0.09	J	0.0572	25.4	26.4	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU01	RADS	Thorium-234	2.29	pCi/g	0.554	U	1.73	25.4	26.4	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Uranium	0.54	mg/kg			0.0015	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-33-CU01	RADS	Uranium-233/234	1.03	pCi/g	0.0423	J	0.0133	25.4	26.4	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU01	RADS	Uranium-235	0.0663	pCi/g	0.0121	J	0.0164	25.4	26.4	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU01	RADS	Uranium-236	0.0115	pCi/g	0.00543	U	0.0184	25.4	26.4	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU01	RADS	Uranium-238	0.994	pCi/g	0.0415	J	0.0132	25.4	26.4	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Vanadium	24000	ug/kg			36	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU01	METAL	Zinc	46000	ug/kg			290	25.4	26.4	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Aluminum	10000	mg/kg			1.4	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Antimony	330	ug/kg			27	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Arsenic	16	mg/kg			0.044	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Barium	89000	ug/kg			62	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Chromium	17000	ug/kg			67	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Cobalt	12000	ug/kg			5.8	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Iron	67000	mg/kg			3.5	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Lead	15000	ug/kg			16	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-33-CU10	RADS	Lead-210	0.469	pCi/g	0.121	U	0.633	35.1	36.1	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Manganese	1300000	ug/kg			29	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-33-CU10	RADS	Polonium-210	1.13	pCi/g	0.211	J	0.294	35.1	36.1	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU10	RADS	Radium-226	2.29	pCi/g	0.526	U	2.21	35.1	36.1	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU10	RADS	Technetium-99	-0.395	pCi/g	0.159	U	0.549	35.1	36.1	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU10	RADS	Thorium-230	1.09	pCi/g	0.0584	J	0.0238	35.1	36.1	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU10	RADS	Thorium-234	2.01	pCi/g	0.519	U	1.59	35.1	36.1	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Uranium	0.79	mg/kg			0.0014	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-33-CU10	RADS	Uranium-233/234	1.03	pCi/g	0.0403	J	0.0151	35.1	36.1	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU10	RADS	Uranium-235	0.0642	pCi/g	0.0113	J	0.0149	35.1	36.1	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU10	RADS	Uranium-236	0.0157	pCi/g	0.00553	U	0.0134	35.1	36.1	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-33-CU10	RADS	Uranium-238	1.04	pCi/g	0.0404	J	0.012	35.1	36.1	SOIL	REG	GRA		6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Vanadium	47000	ug/kg			34	35.1	36.1	SOIL	REG	GRA	=	6/14/2011
WD-MW01B	WDMW01B-32-CU10	METAL	Zinc	51000	ug/kg			280	35.1	36.1	SOIL	REG	GRA	=	6/14/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW01B	WDMW01B-32-SU01	METAL	Aluminum	7500	mg/kg			1.3	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Antimony	17000	ug/kg			27	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Arsenic	53	mg/kg			0.046	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Barium	54000	ug/kg			64	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Chromium	21000	ug/kg			69	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Cobalt	12000	ug/kg			6	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Iron	29000	mg/kg			3.2	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Lead	34000	ug/kg			17	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-SU01	RADS	Lead-210	7.73	pCi/g	0.527		1.56	101.7	102.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Manganese	90000	ug/kg			30	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-SU01	RADS	Polonium-210	5.44	pCi/g	0.606		0.512	101.7	102.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU01	RADS	Radium-226	13.8	pCi/g	0.991		4.04	101.7	102.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU01	RADS	Technetium-99	-0.068	pCi/g	0.158	U	0.534	101.7	102.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU01	RADS	Thorium-230	7.88	pCi/g	0.217		0.0735	101.7	102.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU01	RADS	Thorium-234	6.56	pCi/g	1.08		2.88	101.7	102.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Uranium	18	mg/kg			0.0014	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-SU01	RADS	Uranium-233/234	7.74	pCi/g	0.138		0.0189	101.7	102.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU01	RADS	Uranium-235	0.307	pCi/g	0.0307	J	0.0233	101.7	102.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU01	RADS	Uranium-236	0.0492	pCi/g	0.0119	J	0.0209	101.7	102.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU01	RADS	Uranium-238	7.9	pCi/g	0.139		0.0188	101.7	102.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Vanadium	270000	ug/kg			35	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU01	METAL	Zinc	670000	ug/kg			290	101.7	102.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Aluminum	8800	mg/kg			1.5	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Antimony	3000	ug/kg			28	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Arsenic	30	mg/kg			0.048	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Barium	140000	ug/kg			67	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Chromium	15000	ug/kg			72	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Cobalt	13000	ug/kg			6.3	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Iron	24000	mg/kg			3.7	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Lead	16000	ug/kg			17	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-SU10	RADS	Lead-210	8.7	pCi/g	0.533		1.47	110.8	111.5	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Manganese	120000	ug/kg			31	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-SU10	RADS	Polonium-210	7.59	pCi/g	0.577		0.334	110.8	111.5	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU10	RADS	Radium-226	19.6	pCi/g	1.5		6.5	110.8	111.5	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU10	RADS	Technetium-99	-0.397	pCi/g	0.156	U	0.539	110.8	111.5	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU10	RADS	Thorium-230	8.74	pCi/g	0.164		0.044	110.8	111.5	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU10	RADS	Thorium-234	6.54	pCi/g	1.05		3.78	110.8	111.5	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Uranium	23	mg/kg			0.0015	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-SU10	RADS	Uranium-233/234	9.69	pCi/g	0.135		0.0143	110.8	111.5	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU10	RADS	Uranium-235	0.45	pCi/g	0.0324	J	0.0221	110.8	111.5	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU10	RADS	Uranium-236	0.0497	pCi/g	0.0104	J	0.0158	110.8	111.5	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-SU10	RADS	Uranium-238	9.78	pCi/g	0.135		0.0178	110.8	111.5	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Vanadium	56000	ug/kg			36	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-SU10	METAL	Zinc	110000	ug/kg			300	110.8	111.5	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Aluminum	1500	mg/kg			1.6	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Antimony	1300	ug/kg			29	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Arsenic	27	mg/kg			0.048	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Barium	8100	ug/kg			67	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Chromium	7100	ug/kg			72	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Cobalt	5600	ug/kg			6.3	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Iron	15000	mg/kg			3.8	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Lead	17000	ug/kg			17	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-BE01	RADS	Lead-210	0.00837	pCi/g	0.222	U	1.46	121.3	122.3	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Manganese	96000	ug/kg			31	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-BE01	RADS	Polonium-210	0.84	pCi/g	0.172	J	0.262	121.3	122.3	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE01	RADS	Radium-226	2.35	pCi/g	0.561	U	2.5	121.3	122.3	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE01	RADS	Technetium-99	-0.0283	pCi/g	0.161	U	0.543	121.3	122.3	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE01	RADS	Thorium-230	1.36	pCi/g	0.0472	J	0.0125	121.3	122.3	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE01	RADS	Thorium-234	1.61	pCi/g	0.499	U	1.63	121.3	122.3	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Uranium	0.82	mg/kg			0.0015	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-BE01	RADS	Uranium-233/234	1.35	pCi/g	0.0468	J	0.0198	121.3	122.3	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE01	RADS	Uranium-235	0.0696	pCi/g	0.0119	J	0.0152	121.3	122.3	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE01	RADS	Uranium-236	0.0161	pCi/g	0.00565	U	0.0137	121.3	122.3	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE01	RADS	Uranium-238	1.31	pCi/g	0.0459	J	0.0123	121.3	122.3	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Vanadium	9300	ug/kg			37	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE01	METAL	Zinc	10000	ug/kg			300	121.3	122.3	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Aluminum	1200	mg/kg			1.5	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Antimony	290	ug/kg			25	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Arsenic	39	mg/kg			0.046	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Barium	7200	ug/kg			64	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Chromium	5200	ug/kg			68	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Cobalt	4000	ug/kg			6	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Iron	9600	mg/kg			3.8	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Lead	11000	ug/kg			16	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-BE10	RADS	Lead-210	0.562	pCi/g	0.13	U	0.675	131.1	131.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Manganese	140000	ug/kg			30	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-BE10	RADS	Polonium-210	0.895	pCi/g	0.174	J	0.193	131.1	131.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE10	RADS	Radium-226	3.58	pCi/g	0.592	U	2.58	131.1	131.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE10	RADS	Technetium-99	-0.046	pCi/g	0.152	U	0.513	131.1	131.7	SOIL	REG	GRA		6/15/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW01B	WDMW01B-33-BE10	RADS	Thorium-230	1.31	pCi/g	0.0412	J	0.0159	131.1	131.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE10	RADS	Thorium-234	1.77	pCi/g	0.567	U	1.88	131.1	131.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Uranium	0.66	mg/kg			0.0014	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-33-BE10	RADS	Uranium-233/234	1.26	pCi/g	0.0369	J	0.0083	131.1	131.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE10	RADS	Uranium-235	0.0468	pCi/g	0.00803	J	0.0102	131.1	131.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE10	RADS	Uranium-236	0.00961	pCi/g	0.0036	U	0.00919	131.1	131.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-33-BE10	RADS	Uranium-238	1.19	pCi/g	0.0358	J	0.00826	131.1	131.7	SOIL	REG	GRA		6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Vanadium	6400	ug/kg			35	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW01B	WDMW01B-32-BE10	METAL	Zinc	11000	ug/kg			280	131.1	131.7	SOIL	REG	GRA	=	6/15/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Alpha activity	3.36	pCi/g	0.368	J	0.614	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Aluminum	12000	mg/kg			1.5	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Americium-241	0.0188	pCi/g	0.00828	U	0.0239	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Antimony	0.37	mg/kg		U	0.37	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Arsenic	9.4	mg/kg			0.047	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Barium	56	mg/kg			0.075	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Benzaldehyde	67	ug/kg		U	67	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Benzoic acid	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Beryllium	0.53	mg/kg			0.032	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Beta activity	2.61	pCi/g	0.265	J	0.747	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	72	ug/kg		BJ	46	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Cadmium	0.044	mg/kg		B	0.04	0	2	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Calcium	370	mg/kg			14	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Cesium-137	-0.038	pCi/g	0.0618	U	0.167	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Chromium	14	mg/kg			0.057	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Cobalt	14	mg/kg			0.098	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Copper	8.4	mg/kg			0.21	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	6/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW02B	WDMW02B-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Iron	19000	mg/kg			3.7	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Lead	20	mg/kg			0.26	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Magnesium	1100	mg/kg			3.6	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Manganese	480	mg/kg			0.098	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Mercury	0.022	mg/kg			0.0054	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Molybdenum	0.85	mg/kg		B	0.25	0	2	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Neptunium-237	0.00732	pCi/g	0.00488	U	0.0187	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Nickel	8.7	mg/kg			0.12	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	PPCB	PCB-1242	0.0086	mg/kg		U	0.0086	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Phenol	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Plutonium-238	0	pCi/g	0.00898	U	0.0485	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Plutonium-239/240	0.00634	pCi/g	0.00896	U	0.0485	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-2.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Selenium	0.95	mg/kg			0.12	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Silver	0.16	mg/kg		U	0.16	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Sodium	58	mg/kg		U	58	0	2	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Technetium-99	0.0962	pCi/g	0.31	U	1.04	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Thallium	0.19	mg/kg			0.0033	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Thorium-228	1.34	pCi/g	0.0681	J	0.0489	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Thorium-230	1.23	pCi/g	0.0637	J	0.0315	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Thorium-232	1.34	pCi/g	0.0664	J	0.0251	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Uranium	0.93	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Uranium-233/234	0.955	pCi/g	0.0467	J	0.0174	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Uranium-235	0.00561	pCi/g	0.00561	U	0.0269	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Uranium-236	0.00504	pCi/g	0.00504	U	0.0241	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-4.5	RADS	Uranium-238	0.901	pCi/g	0.0452	J	0.0173	0	2	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Vanadium	26	mg/kg			0.092	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-2.0	METAL	Zinc	32	mg/kg			0.39	0	2	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	6/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW02B	WDMW02B-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	2-Butanone	3.2	ug/kg		BJ	1.8	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	2-Butanone	3	ug/kg		BJ	1.8	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	2-Hexanone	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Acetone	5.3	ug/kg		U	5.3	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Acetone	5.6	ug/kg		BJ	5.3	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Alpha activity	4.91	pCi/g	0.437	J	0.605	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Americium-241	0.0254	pCi/g	0.0102	U	0.0277	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Benzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Benzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Benzenemethanol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Beta activity	4.15	pCi/g	0.322	J	0.772	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	71	ug/kg		BJ	44	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Cesium-137	-0.0118	pCi/g	0.0548	U	0.154	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Chloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Chloromethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	6/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW02B	WDMW02B-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Dibromomethane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Dibromomethane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Iodomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Methylene chloride	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Methylene chloride	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Neptunium-237	0.00545	pCi/g	0.00545	U	0.0261	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	PPCB	PCB-1242	0.0086	mg/kg		U	0.0086	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Phenol	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Plutonium-238	0	pCi/g	0.00544	U	0.0334	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Plutonium-239/240	0.0109	pCi/g	0.00665	U	0.026	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Styrene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Styrene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Technetium-99	0.102	pCi/g	0.314	U	1.05	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Thorium-228	1.49	pCi/g	0.0765	J	0.0374	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Thorium-230	1.25	pCi/g	0.0688	J	0.0289	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Thorium-232	1.31	pCi/g	0.0705	J	0.0362	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Toluene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Toluene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Total Xylene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Uranium-233/234	1.03	pCi/g	0.0489	J	0.0283	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Uranium-235	0.0455	pCi/g	0.0133	U	0.0409	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Uranium-236	0.0153	pCi/g	0.00807	U	0.0314	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-12.0	RADS	Uranium-238	0.998	pCi/g	0.0479	J	0.0176	2.5	4.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	6/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW02B	WDMW02B-30-12.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	1,1,1,2-Tetrachloroethane	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	1,1,1-Trichloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	1,1,2,2-Tetrachloroethane	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	1,1,2-Trichloroethane	0.89	ug/kg		U	0.89	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	1,1-Dichloroethene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	1,2,3-Trichloropropane	0.82	ug/kg		U	0.82	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	1,2-Dichloroethane	0.71	ug/kg		U	0.71	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	1,2-Dichloropropane	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	1,2-Dimethylbenzene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	2-Butanone	4.6	ug/kg		BJ	1.9	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	2-Chloroethyl vinyl ether	5.1	ug/kg		U	5.1	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	2-Hexanone	5	ug/kg		U	5	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Acetone	6	ug/kg		BJ	5.5	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Acrolein	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Acrylonitrile	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Alpha activity	4.23	pCi/g	0.391	J	0.57	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Aluminum	15000	mg/kg			1.4	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Americium-241	0.0273	pCi/g	0.011	U	0.0299	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Antimony	0.34	mg/kg		U	0.34	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Arsenic	59	mg/kg			0.049	10	12	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Barium	89	mg/kg			0.068	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Benzaldehyde	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Benzene	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Beryllium	0.93	mg/kg			0.029	10	12	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Beta activity	1.84	pCi/g	0.242	J	0.733	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	150	ug/kg		BJ	44	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Bromoform	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Bromomethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Cadmium	0.037	mg/kg		U	0.037	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Calcium	1200	mg/kg			13	10	12	SOIL	REG	SPS	J	6/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW02B	WDMW02B-02-12.0	SVOA	Carbazole	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Carbon disulfide	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Carbon tetrachloride	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Cesium-137	-0.0254	pCi/g	0.0537	U	0.147	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Chlorobenzene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Chloroethane	0.9	ug/kg		U	0.9	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Chloroform	0.29	ug/kg		U	0.29	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Chloromethane	0.78	ug/kg		U	0.78	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Chromium	18	mg/kg			0.052	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	cis-1,2-Dichloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Cobalt	30	mg/kg			0.089	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Copper	21	mg/kg			0.19	10	12	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Dibromochloromethane	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Dibromomethane	0.85	ug/kg		U	0.85	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Dichlorodifluoromethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Ethyl methacrylate	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Ethylbenzene	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Fluoranthene	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	10	12	SOIL	REG	SPS	UJ	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Iodomethane	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Iron	35000	mg/kg			3.4	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Lead	38	mg/kg			0.24	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	M + P Xylene	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Magnesium	3400	mg/kg			3.3	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Manganese	500	mg/kg			0.089	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Mercury	0.018	mg/kg			0.0054	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Methylene chloride	0.76	ug/kg		U	0.76	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Molybdenum	0.23	mg/kg		U	0.23	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Naphthalene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Neptunium-237	0.00241	pCi/g	0.00868	U	0.046	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Nickel	38	mg/kg			0.11	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Phenol	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Plutonium-238	0.00567	pCi/g	0.00491	U	0.0217	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Plutonium-239/240	0.0113	pCi/g	0.00633	U	0.0217	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Pyrene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-12.0	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Selenium	1.1	mg/kg			0.13	10	12	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Sodium	220	mg/kg		B	53	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Styrene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Technetium-99	0.472	pCi/g	0.315	U	1.04	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Tetrachloroethene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Thallium	0.2	mg/kg			0.0034	10	12	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Thorium-228	1.73	pCi/g	0.102	J	0.0572	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Thorium-230	1.2	pCi/g	0.0829	J	0.0434	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Thorium-232	1.49	pCi/g	0.0921	J	0.0434	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Toluene	0.7	ug/kg		U	0.7	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Total Xylene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	trans-1,2-Dichloroethene	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	trans-1,3-Dichloropropene	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	6/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW02B	WDMW02B-30-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Trichlorofluoromethane	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Uranium	0.81	mg/kg			0.0015	10	12	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Uranium-233/234	1.02	pCi/g	0.0495	J	0.0183	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Uranium-235	0.0354	pCi/g	0.0106	J	0.0226	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Uranium-236	0.0159	pCi/g	0.00701	U	0.0203	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-19.5	RADS	Uranium-238	0.938	pCi/g	0.0473	J	0.0182	10	12	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Vanadium	34	mg/kg			0.084	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-19.5	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	10	12	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-12.0	METAL	Zinc	71	mg/kg			0.36	10	12	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	1,1,1,2-Tetrachloroethane	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	1,1,1-Trichloroethane	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	1,1,2,2-Tetrachloroethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	1,1,2-Trichloroethane	0.73	ug/kg		U	0.73	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	1,1-Dichloroethene	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	1,2,3-Trichloropropane	0.68	ug/kg		U	0.68	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	1,2-Dichloroethane	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	1,2-Dichloropropane	0.46	ug/kg		U	0.46	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	1,2-Dimethylbenzene	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	2-Butanone	2.6	ug/kg		BJ	1.5	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	2-Chloroethyl vinyl ether	4.2	ug/kg		U	4.2	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	2-Hexanone	4.1	ug/kg		U	4.1	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2-Methylphenol	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	4-Methyl-2-pentanone	3.6	ug/kg		U	3.6	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	4-Methylphenol	32	ug/kg		U	32	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Acenaphthene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Acetone	4.5	ug/kg		U	4.5	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Acrolein	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Acrylonitrile	4	ug/kg		U	4	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Alpha activity	3.57	pCi/g	0.355	J	0.552	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Aluminum	14000	mg/kg			1.4	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Americium-241	0.0353	pCi/g	0.0106	J	0.0225	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Aniline	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Antimony	0.35	mg/kg		U	0.35	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Arsenic	19	mg/kg			0.044	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Barium	33	mg/kg			0.07	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Benzaldehyde	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Benzene	0.39	ug/kg		U	0.39	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Benzoic acid	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Beryllium	1	mg/kg			0.03	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Beta activity	1.97	pCi/g	0.254	J	0.781	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	6/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW02B	WDMW02B-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	78	ug/kg		BJ	45	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Bromodichloromethane	0.18	ug/kg		U	0.18	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Bromoform	0.19	ug/kg		U	0.19	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Bromomethane	0.42	ug/kg		U	0.42	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Cadmium	0.038	mg/kg		U	0.038	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Calcium	1100	mg/kg			13	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Carbazole	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Carbon disulfide	0.35	ug/kg		U	0.35	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Carbon tetrachloride	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Cesium-137	0.22	pCi/g	0.0405		0.159	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Chlorobenzene	0.45	ug/kg		U	0.45	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Chloroethane	0.74	ug/kg		U	0.74	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Chloroform	0.24	ug/kg		U	0.24	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Chloromethane	0.64	ug/kg		U	0.64	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Chromium	18	mg/kg			0.053	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Chrysene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	cis-1,2-Dichloroethene	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Cobalt	17	mg/kg			0.092	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Copper	22	mg/kg			0.2	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Dibenzofuran	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Dibromochloromethane	0.48	ug/kg		U	0.48	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Dibromomethane	0.7	ug/kg		U	0.7	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Dichlorodifluoromethane	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Di-n-octylphthalate	61	ug/kg		J	14	17.5	19.5	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Ethyl methacrylate	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Ethylbenzene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Fluoranthene	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Hexachloroethane	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Iodomethane	0.37	ug/kg		U	0.37	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Iron	29000	mg/kg			3.5	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Lead	13	mg/kg			0.25	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	M + P Xylene	0.87	ug/kg		U	0.87	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Magnesium	3300	mg/kg			3.4	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Manganese	270	mg/kg			0.092	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Mercury	0.016	mg/kg			0.005	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Methylene chloride	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Molybdenum	0.27	mg/kg		B	0.24	17.5	19.5	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Naphthalene	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Neptunium-237	0.00444	pCi/g	0.00384	U	0.017	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Nickel	29	mg/kg			0.11	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Nitrobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Phenol	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Plutonium-238	0.00246	pCi/g	0.00348	U	0.0188	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Plutonium-239/240	0.0172	pCi/g	0.00738	U	0.0236	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-02-19.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-02-19.5	SVOA	Pyridine	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Selenium	0.79	mg/kg			0.12	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Silver	0.15	mg/kg		U	0.15	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Sodium	200	mg/kg		B	54	17.5	19.5	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Styrene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Technetium-99	0.37	pCi/g	0.311	U	1.03	17.5	19.5	SOIL	REG	SPS		6/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW02B	WDMW02B-30-2.0	VOA	Tetrachloroethene	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Thallium	0.17	mg/kg			0.0031	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Thorium-228	1.05	pCi/g	0.0528	J	0.042	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Thorium-230	1.29	pCi/g	0.0575	J	0.0407	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Thorium-232	1.1	pCi/g	0.0529	J	0.0309	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Toluene	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Total Xylene	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	trans-1,2-Dichloroethene	0.33	ug/kg		U	0.33	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	trans-1,3-Dichloropropene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Trichloroethene	0.19	ug/kg		U	0.19	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Trichlorofluoromethane	0.87	ug/kg		U	0.87	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Uranium	0.66	mg/kg			0.0014	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Uranium-233/234	0.866	pCi/g	0.043	J	0.0163	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Uranium-235	0.05	pCi/g	0.0118	J	0.0201	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Uranium-236	0.0213	pCi/g	0.00747	U	0.0181	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-04-2.0	RADS	Uranium-238	0.837	pCi/g	0.0422	J	0.0162	17.5	19.5	SOIL	REG	SPS		6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Vanadium	35	mg/kg			0.086	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Vinyl acetate	0.89	ug/kg		U	0.89	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-30-2.0	VOA	Vinyl chloride	1.1	ug/kg		U	1.1	17.5	19.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-19.5	METAL	Zinc	67	mg/kg			0.37	17.5	19.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Aluminum	9700	mg/kg			1.3	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Antimony	300	ug/kg			26	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Arsenic	22	mg/kg			0.044	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Barium	57000	ug/kg			62	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Chromium	16000	ug/kg			67	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Cobalt	13000	ug/kg			5.8	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Iron	25000	mg/kg			3.2	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Lead	13000	ug/kg			16	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-33-CU01	RADS	Lead-210	0.477	pCi/g	0.105	U	0.529	18.5	21.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Manganese	400000	ug/kg			29	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-33-CU01	RADS	Polonium-210	1.3	pCi/g	0.219	J	0.277	18.5	21.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU01	RADS	Radium-226	1.35	pCi/g	0.595	U	2.73	18.5	21.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU01	RADS	Technetium-99	-0.127	pCi/g	0.162	U	0.55	18.5	21.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU01	RADS	Thorium-230	1.16	pCi/g	0.0555	J	0.0254	18.5	21.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU01	RADS	Thorium-234	1.47	pCi/g	0.51	U	1.63	18.5	21.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Uranium	0.63	mg/kg			0.0014	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-33-CU01	RADS	Uranium-233/234	1.01	pCi/g	0.0394	J	0.0118	18.5	21.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU01	RADS	Uranium-235	0.0494	pCi/g	0.00987	J	0.0145	18.5	21.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU01	RADS	Uranium-236	0.0102	pCi/g	0.00482	U	0.0163	18.5	21.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU01	RADS	Uranium-238	0.947	pCi/g	0.0381	J	0.0117	18.5	21.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Vanadium	34000	ug/kg			34	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU01	METAL	Zinc	99000	ug/kg			280	18.5	21.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Aluminum	14000	mg/kg			1.3	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Antimony	0.33	mg/kg		U	0.33	22.5	24.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Arsenic	10	mg/kg			0.045	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Barium	29	mg/kg			0.066	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Beryllium	0.88	mg/kg			0.028	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Cadmium	0.035	mg/kg		U	0.035	22.5	24.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Calcium	250	mg/kg			12	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Chromium	17	mg/kg			0.05	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Cobalt	7.8	mg/kg			0.086	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Copper	23	mg/kg			0.19	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Iron	35000	mg/kg			3.3	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Lead	15	mg/kg			0.23	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Magnesium	2400	mg/kg			3.2	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Manganese	70	mg/kg			0.086	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Mercury	0.0054	mg/kg		U	0.0054	22.5	24.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Molybdenum	0.22	mg/kg		U	0.22	22.5	24.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Nickel	29	mg/kg			0.11	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Selenium	0.84	mg/kg			0.12	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	22.5	24.5	SOIL	REG	SPS	U	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Sodium	100	mg/kg		B	51	22.5	24.5	SOIL	REG	SPS	J	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Thallium	0.16	mg/kg			0.0031	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Uranium	0.73	mg/kg			0.0014	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Vanadium	30	mg/kg			0.081	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-03-4.5	METAL	Zinc	99	mg/kg			0.34	22.5	24.5	SOIL	REG	SPS	=	6/12/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Aluminum	6900	mg/kg			1.4	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Antimony	410	ug/kg			26	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Arsenic	130	mg/kg			0.049	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Barium	31000	ug/kg			68	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Chromium	14000	ug/kg			73	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Cobalt	18000	ug/kg			6.4	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Iron	36000	mg/kg			3.6	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Lead	100000	ug/kg			18	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-33-CU10	RADS	Lead-210	0.642	pCi/g	0.128	U	0.611	26.3	31.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Manganese	650000	ug/kg			32	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-33-CU10	RADS	Polonium-210	1.24	pCi/g	0.185	J	0.207	26.3	31.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU10	RADS	Radium-226	3.15	pCi/g	0.523	U	2.29	26.3	31.3	SOIL	REG	GRA		6/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW02B	WDMW02B-33-CU10	RADS	Technetium-99	0.16	pCi/g	0.159	U	0.528	26.3	31.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU10	RADS	Thorium-230	1.84	pCi/g	0.108	J	0.0768	26.3	31.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU10	RADS	Thorium-234	2.03	pCi/g	0.53	U	1.75	26.3	31.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Uranium	0.49	mg/kg			0.0015	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-33-CU10	RADS	Uranium-233/234	1.12	pCi/g	0.0459	J	0.0143	26.3	31.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU10	RADS	Uranium-235	0.0531	pCi/g	0.0115	J	0.0221	26.3	31.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU10	RADS	Uranium-236	0.0083	pCi/g	0.00464	U	0.0159	26.3	31.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-33-CU10	RADS	Uranium-238	1.19	pCi/g	0.0472	J	0.0143	26.3	31.3	SOIL	REG	GRA		6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Vanadium	27000	ug/kg			37	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-CU10	METAL	Zinc	46000	ug/kg			300	26.3	31.3	SOIL	REG	GRA	=	6/13/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Aluminum	8700	mg/kg			1.4	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Antimony	650	ug/kg			28	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Arsenic	60	mg/kg			0.045	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Barium	51000	ug/kg			62	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Chromium	23000	ug/kg			67	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Cobalt	14000	ug/kg			5.9	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Iron	30000	mg/kg			3.5	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Lead	78000	ug/kg			16	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-33-SU01	RADS	Lead-210	6.06	pCi/g	0.513		1.71	134.5	135.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Manganese	100000	ug/kg			29	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-33-SU01	RADS	Polonium-210	6.81	pCi/g	0.572		0.365	134.5	135.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU01	RADS	Radium-226	9.33	pCi/g	0.785		3.2	134.5	135.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU01	RADS	Technetium-99	-0.178	pCi/g	0.157	U	0.535	134.5	135.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU01	RADS	Thorium-230	5.32	pCi/g	0.167		0.0399	134.5	135.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU01	RADS	Thorium-234	3.32	pCi/g	0.505		2.67	134.5	135.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Uranium	14	mg/kg			0.0014	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-33-SU01	RADS	Uranium-233/234	5.55	pCi/g	0.106		0.0154	134.5	135.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU01	RADS	Uranium-235	0.265	pCi/g	0.0257	J	0.0189	134.5	135.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU01	RADS	Uranium-236	0.0445	pCi/g	0.0102	J	0.017	134.5	135.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU01	RADS	Uranium-238	5.47	pCi/g	0.105		0.0191	134.5	135.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Vanadium	270000	ug/kg			34	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU01	METAL	Zinc	750000	ug/kg			280	134.5	135.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Aluminum	5500	mg/kg			1.4	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Antimony	4600	ug/kg			27	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Arsenic	22	mg/kg			0.046	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Barium	55000	ug/kg			65	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Chromium	15000	ug/kg			70	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Cobalt	13000	ug/kg			6.1	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Iron	15000	mg/kg			3.5	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Lead	17000	ug/kg			17	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-33-SU10	RADS	Lead-210	8.83	pCi/g	0.57		1.58	144.5	145.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Manganese	130000	ug/kg			30	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-33-SU10	RADS	Polonium-210	7.75	pCi/g	0.642		0.407	144.5	145.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU10	RADS	Radium-226	19.2	pCi/g	1.24		5.17	144.5	145.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU10	RADS	Technetium-99	0.227	pCi/g	0.159	U	0.526	144.5	145.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU10	RADS	Thorium-230	8.18	pCi/g	0.161		0.0303	144.5	145.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU10	RADS	Thorium-234	8.26	pCi/g	1.25		1.91	144.5	145.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Uranium	24	mg/kg			0.0014	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-33-SU10	RADS	Uranium-233/234	9.09	pCi/g	0.137		0.0159	144.5	145.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU10	RADS	Uranium-235	0.391	pCi/g	0.0317	J	0.0196	144.5	145.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU10	RADS	Uranium-236	0.0367	pCi/g	0.00947	J	0.0176	144.5	145.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-SU10	RADS	Uranium-238	9.11	pCi/g	0.137		0.0158	144.5	145.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Vanadium	62000	ug/kg			35	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-SU10	METAL	Zinc	300000	ug/kg			290	144.5	145.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Aluminum	1500	mg/kg			1.6	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Antimony	790	ug/kg			29	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Arsenic	17	mg/kg			0.046	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Barium	8100	ug/kg			64	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Chromium	6700	ug/kg			69	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Cobalt	6100	ug/kg			6	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Iron	13000	mg/kg			3.8	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Lead	13000	ug/kg			17	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Manganese	110000	ug/kg			30	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Uranium	1.2	mg/kg			0.0014	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Vanadium	11000	ug/kg			35	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE01	METAL	Zinc	9700	ug/kg			290	152.7	153.7	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-33-BE01	RADS	Lead-210	-0.0149	pCi/g	0.197	U	1.26	153.7	154.7	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE01	RADS	Polonium-210	8.48	pCi/g	0.523		0.246	153.7	154.7	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE01	RADS	Radium-226	3.89	pCi/g	0.555	U	2.55	153.7	154.7	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE01	RADS	Technetium-99	-0.0518	pCi/g	0.163	U	0.551	153.7	154.7	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE01	RADS	Thorium-230	0.899	pCi/g	0.035	J	0.013	153.7	154.7	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE01	RADS	Thorium-234	2.09	pCi/g	0.536	U	1.75	153.7	154.7	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE01	RADS	Uranium-233/234	0.909	pCi/g	0.0327	J	0.0144	153.7	154.7	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE01	RADS	Uranium-235	0.0475	pCi/g	0.0084	J	0.011	153.7	154.7	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE01	RADS	Uranium-236	0.00906	pCi/g	0.00388	U	0.0124	153.7	154.7	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE01	RADS	Uranium-238	0.949	pCi/g	0.0333	J	0.0111	153.7	154.7	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Aluminum	1200	mg/kg			1.5	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Antimony	350	ug/kg			29	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Arsenic	6	mg/kg			0.046	162.5	163.5	SOIL	REG	GRA	=	6/14/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW02B	WDMW02B-32-BE10	METAL	Barium	6100	ug/kg			64	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Chromium	3500	ug/kg			68	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Cobalt	2700	ug/kg			6	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Iron	7600	mg/kg			3.6	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Lead	4000	ug/kg			16	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-33-BE10	RADS	Lead-210	0.396	pCi/g	0.155	U	0.861	162.5	163.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Manganese	130000	ug/kg			30	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-33-BE10	RADS	Polonium-210	0.452	pCi/g	0.121	J	0.234	162.5	163.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE10	RADS	Radium-226	2.42	pCi/g	0.484	U	2.11	162.5	163.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE10	RADS	Technetium-99	-0.0869	pCi/g	0.156	U	0.527	162.5	163.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE10	RADS	Thorium-230	0.757	pCi/g	0.0309	J	0.00965	162.5	163.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE10	RADS	Thorium-234	1.24	pCi/g	0.447	U	1.52	162.5	163.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Uranium	0.39	mg/kg			0.0014	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-33-BE10	RADS	Uranium-233/234	0.727	pCi/g	0.03	J	0.00946	162.5	163.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE10	RADS	Uranium-235	0.0213	pCi/g	0.00591	J	0.0117	162.5	163.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE10	RADS	Uranium-236	0.00274	pCi/g	0.00335	U	0.0168	162.5	163.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-33-BE10	RADS	Uranium-238	0.676	pCi/g	0.0289	J	0.0151	162.5	163.5	SOIL	REG	GRA		6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Vanadium	5200	ug/kg			35	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW02B	WDMW02B-32-BE10	METAL	Zinc	8300	ug/kg			280	162.5	163.5	SOIL	REG	GRA	=	6/14/2011
WD-MW03B	WDMW03B-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2,4,5-Trichlorophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2,4,6-Trichlorophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2,4-Dichlorophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2-Chloronaphthalene	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	2-Hexanone	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	2-Nitrophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	4-Nitrophenol	91	ug/kg		U	91	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Acetone	8.2	ug/kg		J	4.9	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Acrolein	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Alpha activity	4.47	pCi/g	0.707	J	2.3	0	2	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Aluminum	15000	mg/kg			1.4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Americium-241	0.0188	pCi/g	0.0117	U	0.0513	0	2	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Antimony	0.33	mg/kg		U	0.33	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Arsenic	15	mg/kg			0.047	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Barium	58	mg/kg			0.067	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Benzaldehyde	63	ug/kg		U	63	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Benzene	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Benzenemethanol	19	ug/kg		J	9.4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW03B	WDMW03B-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Beryllium	0.66	mg/kg			0.029	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Beta activity	5.13	pCi/g	0.702		2.65	0	2	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Bromoform	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Bromomethane	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Cadmium	0.036	mg/kg		U	0.036	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Calcium	100	mg/kg			12	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Cesium-137	0.162	pCi/g	0.0563	U	0.202	0	2	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Chloroethane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Chloroform	0.26	ug/kg		U	0.26	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Chloromethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Chromium	20	mg/kg			0.051	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Chrysene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Cobalt	6.9	mg/kg			0.088	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Copper	19	mg/kg			0.19	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Dibromomethane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Hexachlorobutadiene	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Iodomethane	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Iron	27000	mg/kg			3.3	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Lead	16	mg/kg			0.24	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	M + P Xylene	0.95	ug/kg		U	0.95	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Magnesium	2100	mg/kg			3.2	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Manganese	79	mg/kg			0.088	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Mercury	0.034	mg/kg			0.0048	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Methylene chloride	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Molybdenum	0.31	mg/kg		B	0.23	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Neptunium-237	-0.00878	pCi/g	0.00585	U	0.0421	0	2	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Nickel	22	mg/kg			0.11	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Phenol	25	ug/kg		J	17	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Plutonium-238	-0.0126	pCi/g	-0.00994	U	0.0641	0	2	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Plutonium-239/240	0.022	pCi/g	0.00889	U	0.024	0	2	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW03B	WDMW03B-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Selenium	0.31	mg/kg		B	0.12	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Sodium	69	mg/kg		B	52	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Styrene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Technetium-99	-0.0606	pCi/g	0.158	U	0.533	0	2	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Thallium	0.14	mg/kg			0.0033	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Thorium-228	1.42	pCi/g	0.0734	J	0.0704	0	2	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Thorium-230	1.26	pCi/g	0.0678	J	0.0445	0	2	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Thorium-232	1.22	pCi/g	0.0666	J	0.0346	0	2	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Toluene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Total Xylene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Trichlorofluoromethane	0.95	ug/kg		U	0.95	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Uranium	0.6	mg/kg			0.0015	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Uranium-233/234	0.841	pCi/g	0.0439	J	0.0218	0	2	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Uranium-235	0.0422	pCi/g	0.0112	J	0.0215	0	2	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Uranium-236	0.00757	pCi/g	0.00505	U	0.0193	0	2	SOIL	REG	SPS	UJ	8/31/2011
WD-MW03B	WDMW03B-04-2.0	RADS	Uranium-238	0.91	pCi/g	0.0455	J	0.0174	0	2	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Vanadium	38	mg/kg			0.082	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-2.0	METAL	Zinc	87	mg/kg			0.35	0	2	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	2-Hexanone	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	4-Methylphenol	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	4-Nitrophenol	92	ug/kg		U	92	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Acetone	10	ug/kg		J	5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Acrolein	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Alpha activity	9.22	pCi/g	0.948		2.12	2.5	4.5	SOIL	REG	SPS	=	8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Aluminum	14000	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Americium-241	0.0153	pCi/g	0.00955	U	0.0412	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		8/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW03B	WDMW03B-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Arsenic	14	mg/kg			0.043	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Barium	130	mg/kg			0.071	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Benzaldehyde	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Benzene	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Benzenemethanol	14	ug/kg		J	9.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Benzoic acid	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Beryllium	1.1	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Beta activity	3.02	pCi/g	0.607	U	2.44	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Bromoform	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Bromomethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Cadmium	0.038	mg/kg		U	0.038	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Calcium	310	mg/kg			13	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Carbazole	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Cesium-137	-0.176	pCi/g	0.0685	U	0.15	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Chloroethane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Chloroform	0.27	ug/kg		U	0.27	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Chloromethane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Chromium	19	mg/kg			0.054	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Cobalt	13	mg/kg			0.093	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Copper	22	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Dibromomethane	0.78	ug/kg		U	0.78	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Fluoranthene	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Iodomethane	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Iron	23000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Lead	15	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	M + P Xylene	0.97	ug/kg		U	0.97	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Magnesium	2700	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Manganese	78	mg/kg			0.093	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Mercury	0.0052	mg/kg		U	0.0052	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Methylene chloride	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Molybdenum	0.33	mg/kg		B	0.24	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Naphthalene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Neptunium-237	-0.00272	pCi/g	0.00385	U	0.0261	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Nickel	30	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	2.5	4.5	SOIL	REG	SPS		8/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW03B	WDMW03B-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Phenol	19	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Plutonium-238	-0.00873	pCi/g	-0.00651	U	0.047	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Plutonium-239/240	0.0145	pCi/g	0.00712	U	0.0222	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Pyrene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Selenium	0.46	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Sodium	110	mg/kg		B	55	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Styrene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Technetium-99	-0.0902	pCi/g	0.147	U	0.498	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Thallium	0.13	mg/kg			0.003	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Thorium-228	1.43	pCi/g	0.0778	J	0.0515	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Thorium-230	1.18	pCi/g	0.0697	J	0.0315	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Thorium-232	1.53	pCi/g	0.0793	J	0.0314	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Toluene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Total Xylene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Uranium	0.56	mg/kg			0.0013	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Uranium-233/234	0.903	pCi/g	0.045	J	0.0171	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Uranium-235	0.0414	pCi/g	0.0111	J	0.0211	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Uranium-236	0.00992	pCi/g	0.00555	U	0.019	2.5	4.5	SOIL	REG	SPS	UJ	8/31/2011
WD-MW03B	WDMW03B-04-4.5	RADS	Uranium-238	0.959	pCi/g	0.0464	J	0.0214	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Vanadium	35	mg/kg			0.088	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-4.5	METAL	Zinc	79	mg/kg			0.37	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	1,2-Dichloroethane	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	REG	SPS		8/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW03B	WDMW03B-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Acetone	5.2	ug/kg		U	5.2	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Alpha activity	7.86	pCi/g	0.919		2.36	10	12	SOIL	REG	SPS	=	8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Aluminum	15000	mg/kg			1.5	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Americium-241	0.0112	pCi/g	0.00789	U	0.0343	10	12	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Antimony	0.37	mg/kg		U	0.37	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Arsenic	17	mg/kg			0.048	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Barium	61	mg/kg			0.073	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Benzaldehyde	67	ug/kg		U	67	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Benzene	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Beryllium	0.84	mg/kg			0.032	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Beta activity	-1.65	pCi/g	0.414	U	2.69	10	12	SOIL	REG	SPS	UJ	8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Bromoform	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Bromomethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Cadmium	0.039	mg/kg		U	0.039	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Calcium	980	mg/kg			14	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Cesium-137	-0.0211	pCi/g	0.0699	U	0.195	10	12	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Chloroethane	0.86	ug/kg		U	0.86	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Chloromethane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Chromium	22	mg/kg			0.056	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Cobalt	13	mg/kg			0.096	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Copper	23	mg/kg			0.21	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Dibromomethane	0.81	ug/kg		U	0.81	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Iron	22000	mg/kg			3.7	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Lead	15	mg/kg			0.26	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Magnesium	3900	mg/kg			3.6	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Manganese	160	mg/kg			0.096	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Mercury	0.016	mg/kg			0.0048	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Methylene chloride	0.72	ug/kg		U	0.72	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Molybdenum	0.25	mg/kg		U	0.25	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Neptunium-237	0.00258	pCi/g	0.00364	U	0.0197	10	12	SOIL	REG	SPS	U	8/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW03B	WDMW03B-03-12.0	METAL	Nickel	31	mg/kg			0.12	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Phenol	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Plutonium-238	-0.00316	pCi/g	-0.00837	U	0.0511	10	12	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Plutonium-239/240	0	pCi/g	0	U	0.0389	10	12	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-02-12.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Selenium	0.24	mg/kg		B	0.13	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Sodium	180	mg/kg		B	57	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Styrene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Technetium-99	0.154	pCi/g	0.162	U	0.539	10	12	SOIL	REG	SPS	U	8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Thallium	0.13	mg/kg			0.0033	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Thorium-228	1.57	pCi/g	0.0774	J	0.0794	10	12	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Thorium-230	1.24	pCi/g	0.0671	J	0.0276	10	12	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Thorium-232	1.4	pCi/g	0.0712	J	0.0275	10	12	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Toluene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Total Xylene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Uranium	0.62	mg/kg			0.0015	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Uranium-233/234	0.859	pCi/g	0.0432	J	0.0207	10	12	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Uranium-235	0.0374	pCi/g	0.0103	J	0.0204	10	12	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Uranium-236	0.012	pCi/g	0.00587	U	0.0183	10	12	SOIL	REG	SPS	UJ	8/31/2011
WD-MW03B	WDMW03B-04-12.0	RADS	Uranium-238	0.948	pCi/g	0.0453	J	0.0206	10	12	SOIL	REG	SPS	J	8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Vanadium	35	mg/kg			0.09	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-01-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-03-12.0	METAL	Zinc	61	mg/kg			0.38	10	12	SOIL	REG	SPS		8/31/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Alpha activity	6.94	pCi/g	0.847		2.07	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Aluminum	9000	mg/kg			1.3	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Americium-241	0.00996	pCi/g	0.0141	U	0.0716	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Antimony	0.32	mg/kg		U	0.32	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Arsenic	14	mg/kg			0.048	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Barium	33	mg/kg			0.063	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Beryllium	0.63	mg/kg			0.028	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Beta activity	1.09	pCi/g	0.6	U	2.95	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Cadmium	0.12	mg/kg		B	0.034	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Calcium	400	mg/kg			12	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Cesium-137	0.0919	pCi/g	0.0451	U	0.152	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Chromium	17	mg/kg			0.048	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Cobalt	11	mg/kg			0.083	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Copper	16	mg/kg			0.18	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Iron	15000	mg/kg			3.2	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Lead	13	mg/kg			0.23	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Magnesium	3600	mg/kg			3.1	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Manganese	130	mg/kg			0.083	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Mercury	0.036	mg/kg			0.005	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Molybdenum	0.32	mg/kg		B	0.22	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Neptunium-237	0	pCi/g	0.00638	U	0.0345	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Nickel	26	mg/kg			0.1	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Plutonium-238	0.0066	pCi/g	0.0066	U	0.0316	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Plutonium-239/240	0.0165	pCi/g	0.00808	U	0.0252	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Selenium	0.63	mg/kg			0.13	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Silver	0.13	mg/kg		U	0.13	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Sodium	200	mg/kg		B	49	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Technetium-99	-0.0582	pCi/g	0.161	U	0.543	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Thallium	0.16	mg/kg			0.0033	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Thorium-228	1.65	pCi/g	0.1	J	0.0741	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Thorium-230	1.11	pCi/g	0.0805	J	0.0554	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Thorium-232	1.39	pCi/g	0.0898	J	0.0442	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Uranium	0.74	mg/kg			0.0015	21.3	22.3	SOIL	REG	GRA		9/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW03B	WDMW03B-33-CU01	RADS	Uranium-233/234	1.24	pCi/g	0.0597	J	0.0219	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Uranium-235	0.0459	pCi/g	0.0132	J	0.027	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Uranium-236	0.00952	pCi/g	0.00634	U	0.0243	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU01	RADS	Uranium-238	1.14	pCi/g	0.057	J	0.0218	21.3	22.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Vanadium	22	mg/kg			0.078	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU01	METAL	Zinc	120	mg/kg			0.33	21.3	22.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Alpha activity	8.41	pCi/g	0.922		2.05	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Aluminum	7300	mg/kg			1.4	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Americium-241	0.0203	pCi/g	0.0176	U	0.0818	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Antimony	0.34	mg/kg		U	0.34	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Arsenic	14	mg/kg			0.05	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Barium	27	mg/kg			0.067	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Beryllium	0.56	mg/kg			0.029	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Beta activity	0.865	pCi/g	0.598	U	2.94	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Cadmium	0.036	mg/kg		U	0.036	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Calcium	2000	mg/kg			12	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-09-CU10	GTEC	Cation Exchange Capacity	0.0838	meq/g			0.00134	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Cesium-137	-0.00548	pCi/g	0.049	U	0.138	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Chromium	12	mg/kg			0.051	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Cobalt	9.4	mg/kg			0.088	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Copper	15	mg/kg			0.19	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-07-CU10	WETCHEM	Distribution coefficient, Kd, Tc-99	7.08	mL/g				30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-07-CU10	WETCHEM	Distribution coefficient, Kd, Uranium	1.68	mL/g				30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Iron	24000	mg/kg			3.4	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Lead	13	mg/kg			0.24	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Magnesium	3200	mg/kg			3.3	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Manganese	320	mg/kg			0.088	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Mercury	0.019	mg/kg			0.0052	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Molybdenum	0.23	mg/kg		U	0.23	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Neptunium-237	0.0183	pCi/g	0.00969	U	0.0351	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Nickel	22	mg/kg			0.11	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Plutonium-238	-0.0033	pCi/g	-0.00466	U	0.0316	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Plutonium-239/240	0.0297	pCi/g	0.0104	U	0.0252	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Selenium	0.98	mg/kg			0.13	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Silver	0.14	mg/kg		U	0.14	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Sodium	200	mg/kg		B	52	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Technetium-99	-0.0398	pCi/g	0.161	U	0.541	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Thallium	0.14	mg/kg			0.0035	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Thorium-228	1.93	pCi/g	0.102	J	0.0926	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Thorium-230	1.15	pCi/g	0.0771	J	0.0722	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Thorium-232	1.73	pCi/g	0.095	J	0.102	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	WETCHEM	Total Organic Carbon (TOC)	8.4	g/kg			1.7	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Uranium	0.79	mg/kg			0.0016	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Uranium-233/234	1.07	pCi/g	0.0551	J	0.0216	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Uranium-235	0.0522	pCi/g	0.0139	J	0.0266	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Uranium-236	0.00937	pCi/g	0.00625	U	0.0239	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-CU10	RADS	Uranium-238	1.19	pCi/g	0.0578	J	0.0215	30.3	31.3	SOLID	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Vanadium	19	mg/kg			0.083	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-32-CU10	METAL	Zinc	39	mg/kg			0.35	30.3	31.3	SOIL	REG	GRA		9/8/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Alpha activity	18.6	pCi/g	1.39		2.17	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Aluminum	6600	mg/kg			1.4	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Americium-241	0.026	pCi/g	0.0184	U	0.08	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Antimony	1.2	mg/kg		B	0.34	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Arsenic	53	mg/kg			0.043	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Barium	25	mg/kg			0.068	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Beryllium	0.59	mg/kg			0.03	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Beta activity	4.31	pCi/g	0.777	J	2.9	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Cadmium	11	mg/kg			0.037	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Calcium	810	mg/kg			13	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Cesium-137	0.0247	pCi/g	0.0619	U	0.18	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Chromium	17	mg/kg			0.052	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Cobalt	14	mg/kg			0.09	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Copper	41	mg/kg			0.2	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Iron	22000	mg/kg			3.4	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Lead	36	mg/kg			0.24	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Magnesium	2500	mg/kg			3.3	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Manganese	67	mg/kg			0.09	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Mercury	0.11	mg/kg			0.0053	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Molybdenum	110	mg/kg			0.23	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Neptunium-237	-0.00377	pCi/g	0.0136	U	0.0768	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Nickel	160	mg/kg			0.11	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Plutonium-238	0.0069	pCi/g	0.0069	U	0.0331	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Plutonium-239/240	0.0207	pCi/g	0.00912	U	0.0264	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Selenium	27	mg/kg			0.11	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Silver	1	mg/kg			0.14	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Sodium	440	mg/kg		B	53	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Technetium-99	-0.187	pCi/g	0.156	U	0.532	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Thallium	10	mg/kg			0.003	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Thorium-228	1.36	pCi/g	0.0898	J	0.101	113.5	114.5	SOLID	REG	GRA		9/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW03B	WDMW03B-33-SU01	RADS	Thorium-230	6.19	pCi/g	0.185		0.0788	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Thorium-232	1.13	pCi/g	0.0789	J	0.0418	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Uranium	8.2	mg/kg			0.0013	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Uranium-233/234	6.85	pCi/g	0.148		0.0305	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Uranium-235	0.299	pCi/g	0.0347	J	0.0377	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Uranium-236	0.0883	pCi/g	0.018	J	0.027	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU01	RADS	Uranium-238	6.25	pCi/g	0.141		0.0243	113.5	114.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Vanadium	180	mg/kg			0.085	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU01	METAL	Zinc	250	mg/kg			0.36	113.5	114.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Alpha activity	16.4	pCi/g	1.31		2.16	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Aluminum	6800	mg/kg			1.4	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Americium-241	0.0539	pCi/g	0.0199	U	0.0574	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Antimony	0.35	mg/kg		U	0.35	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Arsenic	20	mg/kg			0.045	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Barium	36	mg/kg			0.07	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Beryllium	0.51	mg/kg			0.03	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Beta activity	8.74	pCi/g	0.903		2.91	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Cadmium	0.17	mg/kg		B	0.038	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Calcium	1000	mg/kg			13	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-09-SU10	GTEC	Cation Exchange Capacity	0.104	meq/g			0.00135	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Cesium-137	-0.0393	pCi/g	0.0685	U	0.186	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Chromium	12	mg/kg			0.053	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Cobalt	8	mg/kg			0.092	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Copper	47	mg/kg			0.2	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-07-SU10	WETCHEM	Distribution coefficient, Kd, Tc-99	137	mL/g				122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-07-SU10	WETCHEM	Distribution coefficient, Kd, Uranium	107	mL/g				122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Iron	30000	mg/kg			3.5	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Lead	13	mg/kg			0.25	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Magnesium	2700	mg/kg			3.4	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Manganese	89	mg/kg			0.092	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Mercury	0.11	mg/kg			0.005	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Molybdenum	10	mg/kg			0.24	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Neptunium-237	0	pCi/g	0.00525	U	0.0355	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Nickel	46	mg/kg			0.11	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Plutonium-238	-0.00353	pCi/g	-0.00933	U	0.057	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Plutonium-239/240	0.00705	pCi/g	0.00705	U	0.0337	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Selenium	1.6	mg/kg			0.12	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Silver	0.15	mg/kg		U	0.15	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Sodium	600	mg/kg			54	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Technetium-99	-0.144	pCi/g	0.161	U	0.547	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Thallium	0.85	mg/kg			0.0031	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Thorium-228	1.2	pCi/g	0.0804	J	0.104	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Thorium-230	8.34	pCi/g	0.202		0.0374	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Thorium-232	1.05	pCi/g	0.0718	J	0.0373	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	WETCHEM	Total Organic Carbon (TOC)	57	g/kg			1.7	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Uranium	3.1	mg/kg			0.0014	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Uranium-233/234	8.4	pCi/g	0.168		0.0321	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Uranium-235	0.339	pCi/g	0.0379	J	0.0396	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Uranium-236	0.111	pCi/g	0.0207	J	0.0284	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-SU10	RADS	Uranium-238	8.37	pCi/g	0.167		0.0319	122.3	123.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Vanadium	15	mg/kg			0.086	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-SU10	METAL	Zinc	29	mg/kg			0.37	122.3	123.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Alpha activity	2.68	pCi/g	0.544	J	2.06	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Aluminum	1200	mg/kg			1.4	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Americium-241	0.0108	pCi/g	0.00938	U	0.0437	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Antimony	0.35	mg/kg		U	0.35	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Arsenic	13	mg/kg			0.045	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Barium	5.7	mg/kg			0.069	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Beryllium	0.11	mg/kg		B	0.03	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Beta activity	0.5	pCi/g	0.553	U	3	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Cadmium	0.053	mg/kg		B	0.037	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Calcium	3700	mg/kg			13	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Cesium-137	0.0658	pCi/g	0.038	U	0.129	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Chromium	5.1	mg/kg			0.053	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Cobalt	4.4	mg/kg			0.091	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Copper	3.5	mg/kg			0.2	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Iron	8100	mg/kg			3.5	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Lead	8.1	mg/kg			0.25	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Magnesium	1400	mg/kg			3.4	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Manganese	110	mg/kg			0.091	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Mercury	0.01	mg/kg		B	0.0052	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Molybdenum	1.1	mg/kg		B	0.24	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Neptunium-237	0.0111	pCi/g	0.00679	U	0.0265	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Nickel	9.7	mg/kg			0.11	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Plutonium-238	-0.00258	pCi/g	-0.00683	U	0.0417	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Plutonium-239/240	0.0387	pCi/g	0.0103	J	0.0197	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Selenium	1.1	mg/kg			0.12	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Silver	0.15	mg/kg		U	0.15	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Sodium	160	mg/kg		B	54	133.5	134.5	SOIL	REG	GRA		9/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW03B	WDMW03B-33-BE01	RADS	Technetium-99	0.0985	pCi/g	0.158	U	0.527	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Thallium	0.094	mg/kg			0.0031	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Thorium-228	1.02	pCi/g	0.0506	J	0.0397	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Thorium-230	1.15	pCi/g	0.0523	J	0.0226	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Thorium-232	0.811	pCi/g	0.0438	J	0.018	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Uranium	0.93	mg/kg			0.0014	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Uranium-233/234	1.08	pCi/g	0.0517	J	0.0236	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Uranium-235	0.0395	pCi/g	0.0118	U	0.0291	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Uranium-236	0	pCi/g	0.00546	U	0.0336	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE01	RADS	Uranium-238	0.956	pCi/g	0.0487	J	0.0302	133.5	134.5	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Vanadium	9.4	mg/kg			0.085	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE01	METAL	Zinc	9.3	mg/kg			0.36	133.5	134.5	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Alpha activity	3.96	pCi/g	0.653	J	2.12	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Aluminum	1100	mg/kg			1.4	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Americium-241	0.0216	pCi/g	0.00758	U	0.0183	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Antimony	0.35	mg/kg		U	0.35	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Arsenic	20	mg/kg			0.046	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Barium	6.5	mg/kg			0.07	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Beryllium	0.11	mg/kg		B	0.03	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Beta activity	-3.05	pCi/g	0.365	U	3.01	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Cadmium	0.18	mg/kg		B	0.038	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Calcium	13000	mg/kg			13	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-09-BE10	GTEC	Cation Exchange Capacity	0.00613	meq/g			0.00135	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Cesium-137	-0.0534	pCi/g	0.0569	U	0.15	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Chromium	4.8	mg/kg			0.053	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Cobalt	5.4	mg/kg			0.092	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Copper	4	mg/kg			0.2	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-07-BE10	WETCHEM	Distribution coefficient, Kd, Tc-99	3.14	mL/g				143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-07-BE10	WETCHEM	Distribution coefficient, Kd, Uranium	2.41	mL/g				143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Iron	15000	mg/kg			3.5	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Lead	7.4	mg/kg			0.25	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Magnesium	3600	mg/kg			3.4	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Manganese	250	mg/kg			0.092	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Mercury	0.0054	mg/kg		U	0.0054	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Molybdenum	0.41	mg/kg		B	0.24	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Neptunium-237	0	pCi/g	0.00448	U	0.0276	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Nickel	9.4	mg/kg			0.11	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Plutonium-238	0.0073	pCi/g	0.00643	U	0.0299	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Plutonium-239/240	0.0146	pCi/g	0.00842	U	0.035	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Selenium	0.77	mg/kg			0.12	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Silver	0.15	mg/kg		U	0.15	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Sodium	160	mg/kg		B	54	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Technetium-99	0.155	pCi/g	0.159	U	0.529	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Thallium	0.028	mg/kg		B	0.0032	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Thorium-228	2.84	pCi/g	0.0854	J	0.0451	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Thorium-230	2.12	pCi/g	0.0721	J	0.0187	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Thorium-232	2.45	pCi/g	0.0774	J	0.0187	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	WETCHEM	Total Organic Carbon (TOC)	2.9	g/kg		B	1.7	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Uranium	0.6	mg/kg			0.0014	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Uranium-233/234	1.36	pCi/g	0.057	J	0.0379	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Uranium-235	0.0405	pCi/g	0.0112	J	0.0221	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Uranium-236	0.0104	pCi/g	0.00637	U	0.0249	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-33-BE10	RADS	Uranium-238	1.35	pCi/g	0.0564	J	0.0287	143.3	144.3	SOLID	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Vanadium	6.7	mg/kg			0.086	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW03B	WDMW03B-32-BE10	METAL	Zinc	7.1	mg/kg			0.37	143.3	144.3	SOIL	REG	GRA		9/9/2011
WD-MW04B	WDMW04B-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	1,4-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2,4,5-Trichlorophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2,4,6-Trichlorophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2,4-Dichlorophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2,4-Dimethylphenol	60	ug/kg		U	60	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2,4-Dinitrophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2,4-Dinitrotoluene	60	ug/kg		U	60	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS		9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-02-2.0	SVOA	2-Chloronaphthalene	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2-Chlorophenol	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2-Methylnaphthalene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	2-Nitrophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	3,3'-Dichlorobenzidine	82	ug/kg		U	82	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	3-Nitrobenzenamine	67	ug/kg		U	67	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	4-Bromophenyl phenyl ether	17	ug/kg		U	17	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	4-Chloro-3-methylphenol	60	ug/kg		U	60	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	4-Chlorobenzenamine	75	ug/kg		U	75	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	4-Methylphenol	30	ug/kg		U	30	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	4-Nitrobenzenamine	66	ug/kg		U	66	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	4-Nitrophenol	89	ug/kg		U	89	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Acenaphthene	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Acetone	5	ug/kg		U	5	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Alpha activity	5.43	pCi/g	0.743		2.07	0	2	SOIL	REG	SPS	=	9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Aluminum	12000	mg/kg			1.6	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Americium-241	0.0132	pCi/g	0.0079	U	0.0324	0	2	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Antimony	0.38	mg/kg		U	0.38	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Arsenic	7.7	mg/kg			0.046	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Barium	46	mg/kg			0.076	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Benz(a)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Benzaldehyde	61	ug/kg		U	61	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Benzene	0.47	ug/kg		J	0.44	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Benzenemethanol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Benzo(a)pyrene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Benzoic acid	300	ug/kg		U	300	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Beryllium	0.44	mg/kg		B	0.033	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Beta activity	1.42	pCi/g	0.544	U	2.59	0	2	SOIL	REG	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	42	ug/kg		U	42	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Butyl benzyl phthalate	39	ug/kg		U	39	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Cadmium	0.041	mg/kg		U	0.041	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Calcium	93	mg/kg			14	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Carbazole	33	ug/kg		U	33	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Cesium-137	0.0908	pCi/g	0.0785	U	0.259	0	2	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Chromium	15	mg/kg			0.058	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Chrysene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Cobalt	4.9	mg/kg			0.1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Copper	7.5	mg/kg			0.22	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Dibenz(a,h)anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Dibenzofuran	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Dibromomethane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Diphenyldiazene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Fluoranthene	33	ug/kg		U	33	0	2	SOIL	REG	SPS		9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-02-2.0	SVOA	Fluorene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Hexachlorobutadiene	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Hexachloroethane	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Iron	33000	mg/kg			3.8	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Lead	12	mg/kg			0.27	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	M + P Xylene	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Magnesium	1200	mg/kg			3.7	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Manganese	130	mg/kg			0.1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Mercury	0.023	mg/kg			0.0054	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Methylene chloride	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Molybdenum	0.44	mg/kg		B	0.26	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Naphthalene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Neptunium-237	0	pCi/g	0.00361	U	0.0195	0	2	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Nickel	11	mg/kg			0.12	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Nitrobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	N-Nitroso-di-n-propylamine	28	ug/kg		U	28	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Pentachlorophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Phenol	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Plutonium-238	-0.00531	pCi/g	-0.00531	U	0.0382	0	2	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Plutonium-239/240	0.0212	pCi/g	0.00797	U	0.0203	0	2	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Selenium	0.22	mg/kg		B	0.12	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Silver	0.16	mg/kg		U	0.16	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Sodium	87	mg/kg		B	59	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Styrene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Technetium-99	-0.0434	pCi/g	0.155	U	0.523	0	2	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Thallium	0.13	mg/kg			0.0032	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Thorium-228	0.953	pCi/g	0.0493	J	0.0243	0	2	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Thorium-230	1.04	pCi/g	0.0512	J	0.0239	0	2	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Thorium-232	0.833	pCi/g	0.0459	J	0.0307	0	2	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Toluene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Uranium	0.42	mg/kg			0.0014	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Uranium-233/234	0.788	pCi/g	0.0432	J	0.0181	0	2	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Uranium-235	0.0379	pCi/g	0.0109	J	0.0223	0	2	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Uranium-236	0.0131	pCi/g	0.0064	U	0.02	0	2	SOIL	REG	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-04-2.0	RADS	Uranium-238	0.806	pCi/g	0.0442	J	0.0416	0	2	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Vanadium	35	mg/kg			0.094	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-2.0	METAL	Zinc	41	mg/kg			0.4	0	2	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS		9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-02-4.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	2-Hexanone	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Acetone	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Acrolein	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Alpha activity	6.68	pCi/g	0.827		2.12	2.5	4.5	SOIL	REG	SPS	=	9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Aluminum	14000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Americium-241	0.0371	pCi/g	0.0107	J	0.0219	2.5	4.5	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Arsenic	19	mg/kg			0.051	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Barium	240	mg/kg			0.072	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Benzaldehyde	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Benzene	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Beryllium	0.66	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Beta activity	1.85	pCi/g	0.571	U	2.61	2.5	4.5	SOIL	REG	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Bromoform	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Bromomethane	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Cadmium	0.049	mg/kg		B	0.039	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Calcium	110	mg/kg			13	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Cesium-137	0.225	pCi/g	0.0382		0.136	2.5	4.5	SOIL	REG	SPS	=	9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Chloroethane	0.81	ug/kg		U	0.81	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Chloroform	0.27	ug/kg		U	0.27	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Chloromethane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Chromium	20	mg/kg			0.055	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Cobalt	8.2	mg/kg			0.095	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Copper	21	mg/kg			0.21	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Dibromomethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS		9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-01-4.5	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Iodomethane	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Iron	25000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Lead	14	mg/kg			0.26	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	M + P Xylene	0.95	ug/kg		U	0.95	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Magnesium	2800	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Manganese	99	mg/kg			0.095	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Mercury	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Methylene chloride	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Molybdenum	0.31	mg/kg		B	0.25	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00443	U	0.0239	2.5	4.5	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Nickel	23	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Phenol	24	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Plutonium-238	0.00907	pCi/g	0.00907	U	0.0435	2.5	4.5	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Plutonium-239/240	0.0242	pCi/g	0.00907	U	0.0231	2.5	4.5	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Selenium	0.13	mg/kg		B	0.13	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Sodium	120	mg/kg		B	56	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Styrene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Technetium-99	0.261	pCi/g	0.163	U	0.536	2.5	4.5	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Thallium	0.14	mg/kg			0.0035	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Thorium-228	1.17	pCi/g	0.0614	J	0.0246	2.5	4.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Thorium-230	1.03	pCi/g	0.0573	J	0.0303	2.5	4.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Thorium-232	1.12	pCi/g	0.0596	J	0.0303	2.5	4.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Toluene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Total Xylene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Trichlorofluoromethane	0.95	ug/kg		U	0.95	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Uranium	0.47	mg/kg			0.0016	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Uranium-233/234	0.801	pCi/g	0.0469	J	0.0431	2.5	4.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Uranium-235	0.0395	pCi/g	0.0119	J	0.0252	2.5	4.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Uranium-236	0.00887	pCi/g	0.00661	U	0.0283	2.5	4.5	SOIL	REG	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-04-4.5	RADS	Uranium-238	0.811	pCi/g	0.0467	J	0.0327	2.5	4.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Vanadium	35	mg/kg			0.09	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Vinyl acetate	0.98	ug/kg		U	0.98	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-4.5	METAL	Zinc	74	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS		9/12/2011

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-21-12.0	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	1,2,3-Trichloropropane	0.77	ug/kg		U	0.77	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	4-Methylphenol	32	ug/kg		U	32	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	4-Nitrophenol	95	ug/kg		U	95	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	4-Nitrophenol	91	ug/kg		U	91	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	FR	SPS		9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-02-12.0	SVOA	Acenaphthene	9.6	ug/kg		U	9.6	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Acetone	5.1	ug/kg		U	5.1	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Acetone	5.3	ug/kg		U	5.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Acrolein	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Alpha activity	5.38	pCi/g	0.765		2.2	10	12	SOIL	FR	SPS	=	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Alpha activity	6.09	pCi/g	0.804		2.18	10	12	SOIL	REG	SPS	=	9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Aluminum	11000	mg/kg			1.5	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Aluminum	14000	mg/kg			1.5	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Americium-241	0.0266	pCi/g	0.00996	U	0.0254	10	12	SOIL	FR	SPS	U	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Americium-241	0.0101	pCi/g	0.00673	U	0.0257	10	12	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Antimony	0.38	mg/kg		U	0.38	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Antimony	0.36	mg/kg		U	0.36	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Arsenic	21	mg/kg			0.049	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Arsenic	21	mg/kg			0.05	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Barium	64	mg/kg			0.075	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Barium	52	mg/kg			0.072	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Benzaldehyde	63	ug/kg		U	63	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Benzene	0.45	ug/kg		U	0.45	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Benzene	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Benzenemethanol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Benzoic acid	320	ug/kg		U	320	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Beryllium	0.84	mg/kg			0.033	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Beryllium	0.86	mg/kg			0.031	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Beta activity	0.0361	pCi/g	0.486	U	2.67	10	12	SOIL	FR	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Beta activity	1.16	pCi/g	0.544	U	2.65	10	12	SOIL	REG	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	53	ug/kg		J	43	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Bromoform	0.22	ug/kg		U	0.22	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Bromoform	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Cadmium	0.053	mg/kg		B	0.041	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Cadmium	0.067	mg/kg		B	0.039	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Calcium	2400	mg/kg			14	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Calcium	620	mg/kg			13	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Carbazole	35	ug/kg		U	35	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Carbazole	34	ug/kg		U	34	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Cesium-137	-0.0333	pCi/g	0.102	U	0.284	10	12	SOIL	FR	SPS	U	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Cesium-137	0.131	pCi/g	0.0888	U	0.301	10	12	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Chloroethane	0.85	ug/kg		U	0.85	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	10	12	SOIL	REG	SPS		9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-21-12.0	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Chloroform	0.29	ug/kg		U	0.29	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Chloromethane	0.73	ug/kg		U	0.73	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Chromium	17	mg/kg			0.057	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Chromium	21	mg/kg			0.055	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Chrysene	25	ug/kg		U	25	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Cobalt	16	mg/kg			0.099	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Cobalt	12	mg/kg			0.094	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Copper	21	mg/kg			0.21	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Copper	23	mg/kg			0.2	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Dibromomethane	0.8	ug/kg		U	0.8	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Dibromomethane	0.83	ug/kg		U	0.83	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Fluoranthene	35	ug/kg		U	35	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Fluoranthene	34	ug/kg		U	34	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Iodomethane	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Iron	48000	mg/kg			3.8	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Iron	28000	mg/kg			3.6	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Lead	24	mg/kg			0.27	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Lead	14	mg/kg			0.25	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	M + P Xylene	0.99	ug/kg		U	0.99	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Magnesium	3100	mg/kg			3.7	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Magnesium	3600	mg/kg			3.5	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Manganese	750	mg/kg			0.099	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Manganese	190	mg/kg			0.094	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Mercury	0.03	mg/kg			0.0048	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Mercury	0.025	mg/kg			0.0054	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Methylene chloride	0.71	ug/kg		U	0.71	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Methylene chloride	3.3	ug/kg		BJ	0.74	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Molybdenum	0.36	mg/kg		B	0.26	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Molybdenum	0.25	mg/kg		U	0.25	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Naphthalene	29	ug/kg		U	29	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Neptunium-237	-0.00277	pCi/g	0.00392	U	0.0265	10	12	SOIL	FR	SPS	U	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Neptunium-237	-0.00286	pCi/g	0.00405	U	0.0274	10	12	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Nickel	35	mg/kg			0.12	10	12	SOIL	FR	SPS		9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-03-12.0	METAL	Nickel	29	mg/kg			0.12	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Phenol	18	ug/kg		U	18	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Phenol	17	ug/kg		U	17	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Plutonium-238	0	pCi/g	0.00932	U	0.0532	10	12	SOIL	FR	SPS	U	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Plutonium-238	0.00937	pCi/g	0.00698	U	0.0299	10	12	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Plutonium-239/240	0.0198	pCi/g	0.00932	U	0.0315	10	12	SOIL	FR	SPS	U	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Plutonium-239/240	0.0187	pCi/g	0.00826	U	0.0239	10	12	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-18-12.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Pyrene	11	ug/kg		U	11	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-18-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-02-12.0	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Selenium	0.17	mg/kg		B	0.13	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Selenium	0.13	mg/kg		U	0.13	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Silver	0.21	mg/kg		B	0.16	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Sodium	210	mg/kg		B	58	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Sodium	230	mg/kg		B	56	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Styrene	0.6	ug/kg		U	0.6	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Styrene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Technetium-99	0.0813	pCi/g	0.161	U	0.538	10	12	SOIL	FR	SPS	U	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Technetium-99	0.216	pCi/g	0.161	U	0.532	10	12	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Thallium	0.15	mg/kg			0.0034	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Thallium	0.12	mg/kg			0.0034	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Thorium-228	1.33	pCi/g	0.0752	J	0.0406	10	12	SOIL	FR	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Thorium-228	1.36	pCi/g	0.068	J	0.026	10	12	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Thorium-230	0.901	pCi/g	0.0614	J	0.0319	10	12	SOIL	FR	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Thorium-230	1.01	pCi/g	0.0582	J	0.0256	10	12	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Thorium-232	1.44	pCi/g	0.0776	J	0.0399	10	12	SOIL	FR	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Thorium-232	1.06	pCi/g	0.0595	J	0.0255	10	12	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Toluene	0.66	ug/kg		U	0.66	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Toluene	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Total Xylene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Trichlorofluoromethane	0.99	ug/kg		U	0.99	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Uranium	0.68	mg/kg			0.0015	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Uranium	0.5	mg/kg			0.0015	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Uranium-233/234	0.925	pCi/g	0.0523	J	0.0225	10	12	SOIL	FR	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Uranium-233/234	0.773	pCi/g	0.0459	J	0.0208	10	12	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Uranium-235	0.0254	pCi/g	0.012	U	0.0447	10	12	SOIL	FR	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Uranium-235	0.0403	pCi/g	0.0121	J	0.0257	10	12	SOIL	REG	SPS	J	9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-20-12.0	RADS	Uranium-236	0.00652	pCi/g	0.00565	U	0.025	10	12	SOIL	FR	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Uranium-236	0.0121	pCi/g	0.00674	U	0.0231	10	12	SOIL	REG	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-20-12.0	RADS	Uranium-238	0.912	pCi/g	0.0518	J	0.0224	10	12	SOIL	FR	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-12.0	RADS	Uranium-238	0.927	pCi/g	0.0502	J	0.0207	10	12	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Vanadium	34	mg/kg			0.093	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Vanadium	36	mg/kg			0.089	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-21-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-01-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-19-12.0	METAL	Zinc	120	mg/kg			0.39	10	12	SOIL	FR	SPS		9/12/2011
WD-MW04B	WDMW04B-03-12.0	METAL	Zinc	63	mg/kg			0.38	10	12	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	2-Hexanone	4.6	ug/kg		U	4.6	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	4-Methylphenol	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	4-Nitrobenzenamine	67	ug/kg		U	67	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	4-Nitrophenol	90	ug/kg		U	90	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Acenaphthene	9.6	ug/kg		U	9.6	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Acetone	7.2	ug/kg		J	5	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Acrolein	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Alpha activity	8.08	pCi/g	0.913		2.19	17.5	19.5	SOIL	REG	SPS	=	9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Aluminum	12000	mg/kg			1.5	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Americium-241	0.0283	pCi/g	0.0123	U	0.0436	17.5	19.5	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Aniline	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Antimony	0.37	mg/kg		U	0.37	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Arsenic	16	mg/kg			0.049	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Barium	66	mg/kg			0.075	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Benzaldehyde	62	ug/kg		U	62	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Benzene	0.44	ug/kg		U	0.44	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Benzenemethanol	9.3	ug/kg		U	9.3	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Benzoic acid	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Beryllium	0.84	mg/kg			0.032	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Beta activity	1.28	pCi/g	0.564	U	2.66	17.5	19.5	SOIL	REG	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-02-19.5	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	43	ug/kg		U	43	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Bromoform	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Bromomethane	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Cadmium	0.041	mg/kg		B	0.04	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Calcium	1500	mg/kg			14	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Carbazole	33	ug/kg		U	33	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Cesium-137	0.0897	pCi/g	0.0787	U	0.251	17.5	19.5	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Chloroethane	0.83	ug/kg		U	0.83	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Chloroform	0.27	ug/kg		U	0.27	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Chloromethane	0.72	ug/kg		U	0.72	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Chromium	18	mg/kg			0.057	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Chrysene	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Cobalt	14	mg/kg			0.098	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Copper	24	mg/kg			0.21	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Dibenzofuran	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Dibromomethane	0.79	ug/kg		U	0.79	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Dimethyl phthalate	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Diphenyldiazene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Fluoranthene	33	ug/kg		U	33	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Hexachloroethane	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Iodomethane	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Iron	28000	mg/kg			3.7	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Lead	13	mg/kg			0.26	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	M + P Xylene	0.97	ug/kg		U	0.97	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Magnesium	3500	mg/kg			3.6	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Manganese	310	mg/kg			0.098	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Mercury	0.024	mg/kg			0.0051	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Methylene chloride	3.8	ug/kg		BJ	0.7	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Molybdenum	0.28	mg/kg		B	0.25	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Naphthalene	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Neptunium-237	-0.00329	pCi/g	0.00465	U	0.0315	17.5	19.5	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Nickel	30	mg/kg			0.12	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Nitrobenzene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Phenol	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Plutonium-238	-0.00321	pCi/g	-0.00557	U	0.0395	17.5	19.5	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Plutonium-239/240	0.0161	pCi/g	0.00787	U	0.0246	17.5	19.5	SOIL	REG	SPS	U	9/12/2011
WD-MW04B	WDMW04B-02-19.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Pyrene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Selenium	0.15	mg/kg		B	0.13	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Silver	0.16	mg/kg		U	0.16	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Sodium	600	mg/kg			58	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Styrene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Technetium-99	-0.116	pCi/g	0.157	U	0.531	17.5	19.5	SOIL	REG	SPS	U	9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-01-19.5	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Thallium	0.12	mg/kg			0.0034	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Thorium-228	1.37	pCi/g	0.0767	J	0.0675	17.5	19.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Thorium-230	1.01	pCi/g	0.0647	J	0.0314	17.5	19.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Thorium-232	1.3	pCi/g	0.0733	J	0.0314	17.5	19.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Toluene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Total Xylene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Uranium	0.56	mg/kg			0.0015	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Uranium-233/234	0.962	pCi/g	0.0531	J	0.0224	17.5	19.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Uranium-235	0.0433	pCi/g	0.013	J	0.0276	17.5	19.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Uranium-236	0.00324	pCi/g	0.00458	U	0.0248	17.5	19.5	SOIL	REG	SPS	UJ	9/12/2011
WD-MW04B	WDMW04B-04-19.5	RADS	Uranium-238	0.888	pCi/g	0.0509	J	0.0223	17.5	19.5	SOIL	REG	SPS	J	9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Vanadium	29	mg/kg			0.092	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Vinyl acetate	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-01-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-03-19.5	METAL	Zinc	66	mg/kg			0.39	17.5	19.5	SOIL	REG	SPS		9/12/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Alpha activity	2.48	pCi/g	0.606	U	2.63	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Aluminum	3000	mg/kg			1.5	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Americium-241	0.0107	pCi/g	0.00525	U	0.0164	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Antimony	0.37	mg/kg		U	0.37	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Arsenic	8.9	mg/kg			0.044	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Barium	69	mg/kg			0.075	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Beryllium	0.62	mg/kg			0.032	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Beta activity	-2.17	pCi/g	0.4	U	2.94	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Cadmium	0.04	mg/kg		U	0.04	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Calcium	7600	mg/kg			14	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Cesium-137	-0.00524	pCi/g	0.0315	U	0.0896	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Chromium	10	mg/kg			0.057	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Cobalt	1	mg/kg			0.098	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Copper	6.1	mg/kg			0.21	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Iron	130000	mg/kg			3.7	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Lead	12	mg/kg			0.26	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Magnesium	12000	mg/kg			3.6	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Manganese	2400	mg/kg			0.49	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Mercury	0.0097	mg/kg		B	0.0055	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Molybdenum	0.24	mg/kg		U	0.24	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Neptunium-237	0.00672	pCi/g	0.00448	U	0.0171	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Nickel	7.3	mg/kg			0.12	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Plutonium-238	0.00218	pCi/g	0.00378	U	0.0209	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Plutonium-239/240	0.0131	pCi/g	0.00577	U	0.0167	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Selenium	0.11	mg/kg		U	0.11	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Silver	0.75	mg/kg		B	0.16	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Sodium	180	mg/kg		B	58	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Technetium-99	0.0484	pCi/g	0.16	U	0.536	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Thallium	0.073	mg/kg		B	0.003	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Thorium-228	0.596	pCi/g	0.0368	J	0.0216	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Thorium-230	0.486	pCi/g	0.0326	J	0.0167	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Thorium-232	0.385	pCi/g	0.029	J	0.0166	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Uranium	0.35	mg/kg			0.0014	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Uranium-233/234	0.372	pCi/g	0.0283	J	0.0164	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Uranium-235	0.0238	pCi/g	0.00875	U	0.0253	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Uranium-236	0.00711	pCi/g	0.0053	U	0.0227	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU01	RADS	Uranium-238	0.467	pCi/g	0.0316	J	0.0163	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Vanadium	37	mg/kg			0.46	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU01	METAL	Zinc	37	mg/kg			0.39	26.8	27.8	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Alpha activity	5.85	pCi/g	0.787		2.09	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Aluminum	12000	mg/kg			1.5	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Americium-241	0.0195	pCi/g	0.0119	U	0.0467	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Antimony	0.37	mg/kg		U	0.37	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Arsenic	11	mg/kg			0.046	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Barium	43	mg/kg			0.074	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Beryllium	0.89	mg/kg			0.032	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Beta activity	1.45	pCi/g	0.613	U	2.96	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Cadmium	0.046	mg/kg		B	0.04	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Calcium	1400	mg/kg			14	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-09-CU10	GTEC	Cation Exchange Capacity	0.0585	meq/g			0.00136	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Cesium-137	0.0692	pCi/g	0.0451	U	0.145	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Chromium	17	mg/kg			0.056	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Cobalt	12	mg/kg			0.097	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Copper	23	mg/kg			0.21	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-07-CU10	WETCHEM	Distribution coefficient, Kd, Tc-99	7	mL/g				36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-07-CU10	WETCHEM	Distribution coefficient, Kd, Uranium	1.74	mL/g				36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Iron	20000	mg/kg			3.7	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Lead	20	mg/kg			0.26	36.5	37.5	SOLID	REG	GRA		9/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-32-CU10	METAL	Magnesium	3600	mg/kg			3.6	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Manganese	190	mg/kg			0.097	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Mercury	0.022	mg/kg			0.0054	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Molybdenum	0.24	mg/kg		U	0.24	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Neptunium-237	0	pCi/g	0.00557	U	0.0301	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Nickel	34	mg/kg			0.12	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Plutonium-238	0	pCi/g	0.00451	U	0.0305	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Plutonium-239/240	0.0191	pCi/g	0.00842	U	0.0243	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Selenium	1	mg/kg			0.12	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Silver	0.16	mg/kg		U	0.16	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Sodium	330	mg/kg		B	57	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Technetium-99	0.0402	pCi/g	0.163	U	0.546	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Thallium	0.15	mg/kg			0.0032	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Thorium-228	1.8	pCi/g	0.0961	J	0.0626	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Thorium-230	1.77	pCi/g	0.0932	J	0.0375	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Thorium-232	1.58	pCi/g	0.0881	J	0.0374	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-34-CU10	WETCHEM	Total Organic Carbon (TOC)	9.2	g/kg			1.7	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Uranium	0.82	mg/kg			0.0014	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Uranium-233/234	0.961	pCi/g	0.0526	J	0.0274	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Uranium-235	0.067	pCi/g	0.0158	J	0.027	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Uranium-236	0.0127	pCi/g	0.00708	U	0.0242	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-CU10	RADS	Uranium-238	1.1	pCi/g	0.0562	J	0.0218	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Vanadium	25	mg/kg			0.091	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-CU10	METAL	Zinc	76	mg/kg			0.39	36.5	37.5	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Alpha activity	29.5	pCi/g	1.77		2.23	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Aluminum	8900	mg/kg			1.5	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Americium-241	0.0394	pCi/g	0.0148	U	0.0377	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Antimony	1	mg/kg		B	0.38	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Arsenic	49	mg/kg			0.05	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Barium	35	mg/kg			0.075	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Beryllium	0.65	mg/kg			0.033	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Beta activity	8.12	pCi/g	0.959		2.99	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Cadmium	18	mg/kg			0.041	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Calcium	960	mg/kg			14	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Cesium-137	0.0438	pCi/g	0.0723	U	0.211	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Chromium	24	mg/kg			0.057	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Cobalt	9.7	mg/kg			0.099	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Copper	52	mg/kg			0.21	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Iron	24000	mg/kg			3.8	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Lead	44	mg/kg			0.27	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Magnesium	2700	mg/kg			3.7	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Manganese	80	mg/kg			0.099	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Mercury	0.13	mg/kg			0.0055	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Molybdenum	120	mg/kg			0.22	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Neptunium-237	0.00346	pCi/g	0.00773	U	0.0425	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Nickel	140	mg/kg			0.12	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Plutonium-238	0.00324	pCi/g	0.00458	U	0.0248	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Plutonium-239/240	0.00323	pCi/g	0.00457	U	0.0247	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Selenium	26	mg/kg			0.13	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Silver	1.6	mg/kg			0.16	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Sodium	570	mg/kg			58	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Technetium-99	-0.106	pCi/g	0.16	U	0.543	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Thallium	12	mg/kg			0.0035	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Thorium-228	1.47	pCi/g	0.0866	J	0.0803	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Thorium-230	10.8	pCi/g	0.228		0.0367	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Thorium-232	1.06	pCi/g	0.0715	J	0.0366	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Uranium	15	mg/kg			0.0016	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Uranium-233/234	9.12	pCi/g	0.159		0.0212	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Uranium-235	0.349	pCi/g	0.0348	J	0.0262	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Uranium-236	0.0553	pCi/g	0.0134	J	0.0235	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU01	RADS	Uranium-238	9.24	pCi/g	0.16		0.0211	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Vanadium	300	mg/kg			0.093	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU01	METAL	Zinc	510	mg/kg			0.39	68.2	69.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Alpha activity	29	pCi/g	1.75		2.23	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Aluminum	6800	mg/kg			1.5	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Americium-241	0.0232	pCi/g	0.0139	U	0.057	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Antimony	0.37	mg/kg		U	0.37	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Arsenic	21	mg/kg			0.045	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Barium	28	mg/kg			0.074	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Beryllium	0.5	mg/kg			0.032	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Beta activity	6.92	pCi/g	0.919		2.99	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Cadmium	2.1	mg/kg			0.04	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Calcium	780	mg/kg			14	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-09-SU10	GTEC	Cation Exchange Capacity	0.104	meq/g			0.00134	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Cesium-137	-0.0925	pCi/g	0.0738	U	0.192	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Chromium	11	mg/kg			0.056	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Cobalt	7.7	mg/kg			0.097	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Copper	35	mg/kg			0.21	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-07-SU10	WETCHEM	Distribution coefficient, Kd, Tc-99	272	mL/g				78.2	79.2	SOLID	REG	GRA		9/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-07-SU10	WETCHEM	Distribution coefficient, Kd, Uranium	23.2	mL/g				78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Iron	15000	mg/kg			3.7	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Lead	9.5	mg/kg			0.26	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Magnesium	2200	mg/kg			3.6	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Manganese	78	mg/kg			0.097	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Mercury	0.049	mg/kg			0.0054	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Molybdenum	32	mg/kg			0.22	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Neptunium-237	0	pCi/g	0.00828	U	0.056	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Nickel	90	mg/kg			0.12	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Plutonium-238	0	pCi/g	0.00491	U	0.0265	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Plutonium-239/240	0.00693	pCi/g	0.00693	U	0.0332	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Selenium	3.5	mg/kg			0.12	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Silver	0.23	mg/kg		B	0.16	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Sodium	520	mg/kg			57	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Technetium-99	-0.168	pCi/g	0.16	U	0.545	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Thallium	4.1	mg/kg			0.0031	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Thorium-228	1.25	pCi/g	0.104	J	0.177	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Thorium-230	9.53	pCi/g	0.264		0.117	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Thorium-232	1.15	pCi/g	0.0915	J	0.0555	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-34-SU10	WETCHEM	Total Organic Carbon (TOC)	110	g/kg			1.7	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Uranium	23	mg/kg			0.0014	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Uranium-233/234	8.96	pCi/g	0.164		0.0231	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Uranium-235	0.327	pCi/g	0.0351	J	0.0285	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Uranium-236	0.0635	pCi/g	0.0149	J	0.0256	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-SU10	RADS	Uranium-238	8.87	pCi/g	0.163		0.023	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Vanadium	36	mg/kg			0.091	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-SU10	METAL	Zinc	120	mg/kg			0.39	78.2	79.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Alpha activity	3.38	pCi/g	0.597	J	2.01	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Aluminum	1400	mg/kg			1.5	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Americium-241	0.00662	pCi/g	0.00811	U	0.0407	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Antimony	0.37	mg/kg		U	0.37	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Arsenic	21	mg/kg			0.046	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Barium	7.3	mg/kg			0.075	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Beryllium	0.13	mg/kg		B	0.032	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Beta activity	-1.26	pCi/g	0.451	U	2.87	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Cadmium	0.11	mg/kg		B	0.04	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Calcium	8900	mg/kg			14	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Cesium-137	0.0386	pCi/g	0.0398	U	0.13	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Chromium	4.8	mg/kg			0.057	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Cobalt	3.3	mg/kg			0.098	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Copper	5.3	mg/kg			0.21	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Iron	13000	mg/kg			3.7	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Lead	6.1	mg/kg			0.26	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Magnesium	2400	mg/kg			3.6	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Manganese	210	mg/kg			0.098	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Mercury	0.0054	mg/kg		U	0.0054	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Molybdenum	0.81	mg/kg		B	0.25	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Neptunium-237	0	pCi/g	0.00336	U	0.0227	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Nickel	8	mg/kg			0.12	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Plutonium-238	0	pCi/g	0.00385	U	0.0208	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Plutonium-239/240	0.00544	pCi/g	0.00471	U	0.0208	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Selenium	0.68	mg/kg			0.12	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Silver	0.16	mg/kg		U	0.16	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Sodium	150	mg/kg		B	58	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Technetium-99	-0.0146	pCi/g	0.159	U	0.535	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Thallium	0.22	mg/kg			0.0032	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Thorium-228	1.11	pCi/g	0.0503	J	0.0278	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Thorium-230	1.25	pCi/g	0.0522	J	0.0166	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Thorium-232	0.921	pCi/g	0.0448	J	0.0166	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Uranium	0.82	mg/kg			0.0014	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Uranium-233/234	1.04	pCi/g	0.0481	J	0.0212	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Uranium-235	0.0683	pCi/g	0.0139	J	0.0209	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Uranium-236	0.0196	pCi/g	0.00735	U	0.0188	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE01	RADS	Uranium-238	0.939	pCi/g	0.0455	J	0.0169	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Vanadium	9.2	mg/kg			0.092	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE01	METAL	Zinc	9.3	mg/kg			0.39	88.2	89.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Alpha activity	4.26	pCi/g	0.675	J	2.07	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Aluminum	1300	mg/kg			1.6	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Americium-241	0.00862	pCi/g	0.00609	U	0.0265	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Antimony	0.38	mg/kg		U	0.38	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Arsenic	5.2	mg/kg			0.048	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Barium	9.9	mg/kg			0.076	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Beryllium	0.12	mg/kg		B	0.033	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Beta activity	-0.575	pCi/g	0.513	U	2.99	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Cadmium	0.049	mg/kg		B	0.041	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Calcium	12000	mg/kg			14	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-09-BE10	GTEC	Cation Exchange Capacity	0.0725	meq/g			0.00134	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Cesium-137	-0.0222	pCi/g	0.0428	U	0.116	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Chromium	3.1	mg/kg			0.058	97.2	98.2	SOLID	REG	GRA		9/13/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW04B	WDMW04B-32-BE10	METAL	Cobalt	2.1	mg/kg			0.1	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Copper	3.3	mg/kg			0.22	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-07-BE10	WETCHEM	Distribution coefficient, Kd, Tc-99	3.41	mL/g				97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-07-BE10	WETCHEM	Distribution coefficient, Kd, Uranium	1.57	mL/g				97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Iron	9000	mg/kg			3.8	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Lead	18	mg/kg			0.27	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Magnesium	3100	mg/kg			3.7	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Manganese	230	mg/kg			0.1	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Mercury	0.0051	mg/kg		U	0.0051	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Molybdenum	0.47	mg/kg		B	0.25	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Neptunium-237	-0.00234	pCi/g	0.0033	U	0.0224	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Nickel	5	mg/kg			0.12	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Plutonium-238	0	pCi/g	0.00347	U	0.0187	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Plutonium-239/240	0.0343	pCi/g	0.00948	J	0.0187	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Selenium	0.32	mg/kg		B	0.13	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Silver	0.16	mg/kg		U	0.16	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Sodium	150	mg/kg		B	59	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Technetium-99	-0.00114	pCi/g	0.162	U	0.543	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Thallium	0.045	mg/kg		B	0.0033	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Thorium-228	1.33	pCi/g	0.054	J	0.0167	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Thorium-230	1.12	pCi/g	0.0487	J	0.0202	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Thorium-232	1.23	pCi/g	0.0508	J	0.0161	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-34-BE10	WETCHEM	Total Organic Carbon (TOC)	4	g/kg			1.7	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Uranium	0.29	mg/kg			0.0015	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Uranium-233/234	0.864	pCi/g	0.0429	J	0.0163	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Uranium-235	0.0315	pCi/g	0.00947	J	0.0201	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Uranium-236	0.00707	pCi/g	0.00471	U	0.018	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-33-BE10	RADS	Uranium-238	0.801	pCi/g	0.0413	J	0.0162	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Vanadium	5.9	mg/kg			0.094	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW04B	WDMW04B-32-BE10	METAL	Zinc	13	mg/kg			0.4	97.2	98.2	SOLID	REG	GRA		9/13/2011
WD-MW05B	WDMW05B-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2,4,5-Trichlorophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2,4,6-Trichlorophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2,4-Dichlorophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2-Chloronaphthalene	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	2-Nitrophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	4-Nitrophenol	91	ug/kg		U	91	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Acetone	6.9	ug/kg		J	5.1	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Alpha activity	6.61	pCi/g	0.819		2.1	0	2	SOIL	REG	SPS	=	9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Aluminum	14000	mg/kg			1.4	0	2	SOIL	REG	SPS		9/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW05B	WDMW05B-04-2.0	RADS	Americium-241	0.00769	pCi/g	0.00769	U	0.0368	0	2	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Antimony	0.35	mg/kg		U	0.35	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Arsenic	11	mg/kg			0.046	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Barium	58	mg/kg			0.07	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Benzaldehyde	63	ug/kg		U	63	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Benzenemethanol	73	ug/kg		J	9.4	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Beryllium	0.47	mg/kg			0.03	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Beta activity	2.62	pCi/g	0.599	U	2.57	0	2	SOIL	REG	SPS	UJ	9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	97	ug/kg		BJ	43	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Cadmium	0.053	mg/kg		B	0.038	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Calcium	1000	mg/kg			13	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Cesium-137	0.0882	pCi/g	0.0595	U	0.2	0	2	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Chloroethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Chloromethane	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Chromium	17	mg/kg			0.053	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Chrysene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Cobalt	5.5	mg/kg			0.092	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Copper	14	mg/kg			0.2	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Dibromomethane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Hexachlorobutadiene	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Iron	24000	mg/kg			3.5	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Lead	11	mg/kg			0.25	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	M + P Xylene	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Magnesium	1600	mg/kg			3.4	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Manganese	110	mg/kg			0.092	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Mercury	0.049	mg/kg			0.0053	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Methylene chloride	5	ug/kg		B	0.71	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Molybdenum	1	mg/kg		B	0.24	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Neptunium-237	0	pCi/g	0.00472	U	0.0255	0	2	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Nickel	13	mg/kg			0.11	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	PPCB	PCB-1016	0.0047	mg/kg		U	0.0047	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	PPCB	PCB-1221	0.014	mg/kg		U	0.014	0	2	SOIL	REG	SPS		9/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW05B	WDMW05B-02-2.0	PPCB	PCB-1232	0.0047	mg/kg		U	0.0047	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	PPCB	PCB-1242	0.0084	mg/kg		U	0.0084	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	PPCB	PCB-1248	0.0052	mg/kg		U	0.0052	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	PPCB	PCB-1254	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	PPCB	PCB-1260	0.0024	mg/kg		U	0.0024	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Phenol	24	ug/kg		J	17	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Plutonium-238	0	pCi/g	0.00462	U	0.0312	0	2	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Plutonium-239/240	0.00978	pCi/g	0.00652	U	0.0249	0	2	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-02-2.0	PPCB	Polychlorinated biphenyl	0.0024	mg/kg		U	0.0024	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Selenium	0.21	mg/kg		B	0.12	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Sodium	100	mg/kg		B	54	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Styrene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Technetium-99	-0.0244	pCi/g	0.148	U	0.499	0	2	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Thallium	0.17	mg/kg			0.0032	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Thorium-228	0.97	pCi/g	0.0595	J	0.0442	0	2	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Thorium-230	1.08	pCi/g	0.0617	J	0.0269	0	2	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Thorium-232	0.99	pCi/g	0.0591	J	0.0269	0	2	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Toluene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Uranium	0.61	mg/kg			0.0014	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Uranium-233/234	0.925	pCi/g	0.0543	J	0.0303	0	2	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Uranium-235	0.0469	pCi/g	0.0141	J	0.0299	0	2	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Uranium-236	0.00351	pCi/g	0.00496	U	0.0268	0	2	SOIL	REG	SPS	UJ	9/7/2011
WD-MW05B	WDMW05B-04-2.0	RADS	Uranium-238	0.993	pCi/g	0.056	J	0.0241	0	2	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Vanadium	34	mg/kg			0.086	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-2.0	METAL	Zinc	32	mg/kg			0.37	0	2	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS		9/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW05B	WDMW05B-02-4.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Acetone	5.3	ug/kg		U	5.3	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Alpha activity	6.97	pCi/g	0.86		2.2	2.5	4.5	SOIL	REG	SPS	=	9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Aluminum	11000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Americium-241	0.0387	pCi/g	0.0111	J	0.0227	2.5	4.5	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Antimony	0.37	mg/kg		U	0.37	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Arsenic	16	mg/kg			0.045	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Barium	160	mg/kg			0.073	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Benzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Benzenemethanol	64	ug/kg		J	9.7	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Beryllium	0.87	mg/kg			0.032	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Beta activity	-0.186	pCi/g	0.49	U	2.7	2.5	4.5	SOIL	REG	SPS	UJ	9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	450	ug/kg		B	45	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Cadmium	0.039	mg/kg		B	0.039	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Calcium	390	mg/kg			14	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Cesium-137	-0.095	pCi/g	0.0641	U	0.157	2.5	4.5	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Chloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Chloromethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Chromium	16	mg/kg			0.056	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Cobalt	9.4	mg/kg			0.096	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Copper	22	mg/kg			0.21	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Dibromomethane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Iron	26000	mg/kg			3.7	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Lead	14	mg/kg			0.26	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Magnesium	2500	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Manganese	110	mg/kg			0.096	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Mercury	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Methylene chloride	6.5	ug/kg		B	0.74	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Molybdenum	1.1	mg/kg		B	0.25	2.5	4.5	SOIL	REG	SPS		9/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW05B	WDMW05B-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Neptunium-237	0.00271	pCi/g	0.00469	U	0.0259	2.5	4.5	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Nickel	28	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Phenol	22	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Plutonium-238	-0.0028	pCi/g	-0.00485	U	0.0344	2.5	4.5	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Plutonium-239/240	0.0196	pCi/g	0.00839	U	0.0268	2.5	4.5	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Selenium	0.12	mg/kg		U	0.12	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Sodium	140	mg/kg		B	57	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Styrene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Technetium-99	0.215	pCi/g	0.163	U	0.54	2.5	4.5	SOIL	REG	SPS	U	9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Thallium	0.12	mg/kg			0.0031	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Thorium-228	1.22	pCi/g	0.0672	J	0.0283	2.5	4.5	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Thorium-230	0.905	pCi/g	0.0575	J	0.0347	2.5	4.5	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Thorium-232	1.3	pCi/g	0.0686	J	0.0276	2.5	4.5	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Toluene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Uranium	0.71	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Uranium-233/234	0.77	pCi/g	0.0438	J	0.019	2.5	4.5	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Uranium-235	0.0429	pCi/g	0.0119	J	0.0234	2.5	4.5	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Uranium-236	0.00275	pCi/g	0.00389	U	0.021	2.5	4.5	SOIL	REG	SPS	UJ	9/7/2011
WD-MW05B	WDMW05B-04-4.5	RADS	Uranium-238	0.769	pCi/g	0.0437	J	0.0189	2.5	4.5	SOIL	REG	SPS	J	9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Vanadium	21	mg/kg			0.09	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-03-4.5	METAL	Zinc	91	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS		9/7/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Aluminum	2700	mg/kg			1.5	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Antimony	0.36	mg/kg		U	0.36	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Arsenic	7.3	mg/kg			0.044	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Barium	58	mg/kg			0.072	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Beryllium	0.64	mg/kg			0.031	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Cadmium	0.039	mg/kg		U	0.039	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Calcium	520	mg/kg			13	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Chromium	9.5	mg/kg			0.055	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Cobalt	1.8	mg/kg			0.094	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Copper	4.2	mg/kg			0.2	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Iron	140000	mg/kg			3.6	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Lead	8.1	mg/kg			0.25	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Magnesium	2700	mg/kg			3.5	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Manganese	3100	mg/kg			0.47	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Mercury	0.013	mg/kg		B	0.0048	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Molybdenum	0.25	mg/kg		U	0.25	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Nickel	8.7	mg/kg			0.12	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Selenium	0.37	mg/kg		B	0.12	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Silver	0.15	mg/kg		U	0.15	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Sodium	110	mg/kg		B	56	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Thallium	0.032	mg/kg		B	0.0031	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Uranium	0.52	mg/kg			0.0014	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Vanadium	39	mg/kg			0.44	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU01	METAL	Zinc	41	mg/kg			0.38	11	11.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Alpha activity	1.56	pCi/g	0.442	U	2.13	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Americium-241	0.00827	pCi/g	0.0114	U	0.0562	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Beta activity	1.64	pCi/g	0.585	U	2.91	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Cesium-137	0.0613	pCi/g	0.0229	U	0.093	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Neptunium-237	0.00217	pCi/g	0.00376	U	0.0208	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Plutonium-238	0.00259	pCi/g	0.00449	U	0.0248	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Plutonium-239/240	0.0181	pCi/g	0.00733	U	0.0198	11.5	12	SOLID	REG	GRA		9/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW05B	WDMW05B-33-CU01	RADS	Technetium-99	0.251	pCi/g	0.163	U	0.536	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Thorium-228	0.736	pCi/g	0.0432	J	0.0358	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Thorium-230	0.594	pCi/g	0.0378	J	0.0229	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Thorium-232	0.619	pCi/g	0.0385	J	0.0182	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Uranium-233/234	0.343	pCi/g	0.0305	J	0.0205	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Uranium-235	0.0298	pCi/g	0.0119	U	0.0407	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Uranium-236	0.0149	pCi/g	0.00728	U	0.0227	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU01	RADS	Uranium-238	0.395	pCi/g	0.0326	J	0.0204	11.5	12	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Aluminum	8900	mg/kg			1.4	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Antimony	0.34	mg/kg		U	0.34	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Arsenic	9.1	mg/kg			0.049	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Barium	38	mg/kg			0.068	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Beryllium	0.8	mg/kg			0.029	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Cadmium	0.037	mg/kg		U	0.037	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Calcium	2100	mg/kg			13	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Chromium	14	mg/kg			0.052	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Cobalt	9.8	mg/kg			0.089	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Copper	21	mg/kg			0.19	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Iron	40000	mg/kg			3.4	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Lead	13	mg/kg			0.24	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Magnesium	4100	mg/kg			3.3	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Manganese	690	mg/kg			0.089	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Mercury	0.037	mg/kg			0.005	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Molybdenum	0.23	mg/kg		U	0.23	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Nickel	30	mg/kg			0.11	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Selenium	0.61	mg/kg			0.13	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Silver	0.14	mg/kg		U	0.14	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Sodium	210	mg/kg		B	53	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Thallium	0.12	mg/kg			0.0034	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	WETCHEM	Total Organic Carbon (TOC)	8.8	g/kg			1.7	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Uranium	0.71	mg/kg			0.0015	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Vanadium	24	mg/kg			0.084	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-CU10	METAL	Zinc	88	mg/kg			0.36	21	21.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Alpha activity	2.64	pCi/g	0.538	J	2.04	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Americium-241	0.027	pCi/g	0.0127	U	0.0431	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Beta activity	1.28	pCi/g	0.573	U	2.91	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-09-CU10	GTEC	Cation Exchange Capacity	0.182	meq/g			0.00133	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Cesium-137	0.102	pCi/g	0.0456	U	0.155	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-07-CU10	WETCHEM	Distribution coefficient, Kd, Tc-99	5.5	mL/g				21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-07-CU10	WETCHEM	Distribution coefficient, Kd, Uranium	2.05	mL/g				21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Neptunium-237	0.00374	pCi/g	0.0053	U	0.0286	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Plutonium-238	-0.00648	pCi/g	-0.00561	U	0.0399	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Plutonium-239/240	0.00971	pCi/g	0.00648	U	0.0248	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Technetium-99	-0.0356	pCi/g	0.162	U	0.546	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Thorium-228	1.93	pCi/g	0.103	J	0.0525	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Thorium-230	1.46	pCi/g	0.0882	J	0.0647	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Thorium-232	1.42	pCi/g	0.0865	J	0.0402	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Uranium-233/234	0.929	pCi/g	0.05	J	0.0205	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Uranium-235	0.0463	pCi/g	0.0128	J	0.0253	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Uranium-236	0.0208	pCi/g	0.00839	U	0.0227	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-CU10	RADS	Uranium-238	1.06	pCi/g	0.0532	J	0.0204	21.5	22	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Aluminum	7700	mg/kg			1.5	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Antimony	1.2	mg/kg		B	0.38	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Arsenic	69	mg/kg			0.048	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Barium	27	mg/kg			0.075	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Beryllium	0.63	mg/kg			0.033	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Cadmium	19	mg/kg			0.041	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Calcium	910	mg/kg			14	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Chromium	20	mg/kg			0.057	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Cobalt	11	mg/kg			0.099	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Copper	49	mg/kg			0.21	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Iron	25000	mg/kg			3.8	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Lead	63	mg/kg			0.27	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Magnesium	2900	mg/kg			3.7	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Manganese	75	mg/kg			0.099	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Mercury	0.043	mg/kg			0.0054	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Molybdenum	140	mg/kg			0.26	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Nickel	170	mg/kg			0.12	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Selenium	31	mg/kg			0.13	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Silver	1.4	mg/kg			0.16	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Sodium	240	mg/kg		B	58	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Thallium	12	mg/kg			0.0033	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Uranium	13	mg/kg			0.0015	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Vanadium	220	mg/kg			0.093	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU01	METAL	Zinc	480	mg/kg			0.39	49.5	50	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Alpha activity	20.7	pCi/g	1.44		2.1	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Americium-241	0.00552	pCi/g	0.0078	U	0.0422	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Beta activity	3.63	pCi/g	0.751	J	2.83	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Cesium-137	0.0458	pCi/g	0.0584	U	0.175	50	50.5	SOLID	REG	GRA		9/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW05B	WDMW05B-33-SU01	RADS	Neptunium-237	0.00652	pCi/g	0.00565	U	0.0249	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Plutonium-238	-0.00641	pCi/g	-0.00555	U	0.0394	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Plutonium-239/240	0.0064	pCi/g	0.00784	U	0.0394	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Technetium-99	-0.13	pCi/g	0.159	U	0.538	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Thorium-228	1.25	pCi/g	0.0706	J	0.0562	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Thorium-230	6.73	pCi/g	0.159		0.0359	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Thorium-232	1.14	pCi/g	0.0655	J	0.0286	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Uranium-233/234	7.84	pCi/g	0.157		0.024	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Uranium-235	0.325	pCi/g	0.0356	J	0.0296	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Uranium-236	0.0382	pCi/g	0.0125	U	0.0332	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU01	RADS	Uranium-238	7.43	pCi/g	0.152		0.0239	50	50.5	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Aluminum	5400	mg/kg			1.5	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Antimony	0.36	mg/kg		U	0.36	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Arsenic	28	mg/kg			0.044	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Barium	21	mg/kg			0.072	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Beryllium	0.49	mg/kg			0.031	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Cadmium	0.38	mg/kg		B	0.039	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Calcium	830	mg/kg			13	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Chromium	9.5	mg/kg			0.055	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Cobalt	11	mg/kg			0.095	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Copper	40	mg/kg			0.21	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Iron	31000	mg/kg			3.6	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Lead	11	mg/kg			0.26	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Magnesium	2300	mg/kg			3.5	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Manganese	80	mg/kg			0.095	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Mercury	0.085	mg/kg			0.0054	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Molybdenum	33	mg/kg			0.25	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Nickel	58	mg/kg			0.12	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Selenium	4.2	mg/kg			0.11	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Silver	0.15	mg/kg		U	0.15	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Sodium	210	mg/kg		B	56	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Thallium	2.6	mg/kg			0.003	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	WETCHEM	Total Organic Carbon (TOC)	89	g/kg			1.7	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Uranium	19	mg/kg			0.0014	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Vanadium	22	mg/kg			0.09	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-SU10	METAL	Zinc	33	mg/kg			0.38	58	58.5	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Alpha activity	31.4	pCi/g	1.78		2.13	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Americium-241	0.0195	pCi/g	0.0145	U	0.0621	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Beta activity	6.72	pCi/g	0.91		2.92	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-09-SU10	GTEC	Cation Exchange Capacity	0.117	meq/g			0.00136	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Cesium-137	-0.015	pCi/g	0.0726	U	0.202	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-07-SU10	WETCHEM	Distribution coefficient, Kd, Tc-99	131	mL/g				58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-07-SU10	WETCHEM	Distribution coefficient, Kd, Uranium	503	mL/g				58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Neptunium-237	0.00361	pCi/g	0.0051	U	0.0276	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Plutonium-238	0.00337	pCi/g	0.00476	U	0.0258	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Plutonium-239/240	0.0236	pCi/g	0.00952	U	0.0257	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Technetium-99	-0.185	pCi/g	0.157	U	0.533	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Thorium-228	1.31	pCi/g	0.0802	J	0.0952	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Thorium-230	8.64	pCi/g	0.197		0.0551	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Thorium-232	0.997	pCi/g	0.0671	J	0.0428	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Uranium-233/234	9.03	pCi/g	0.169		0.0301	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Uranium-235	0.435	pCi/g	0.0412	J	0.0297	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Uranium-236	0.0732	pCi/g	0.0163	J	0.0267	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-SU10	RADS	Uranium-238	8.76	pCi/g	0.166		0.024	58.5	59	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Aluminum	1600	mg/kg			1.5	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Antimony	0.38	mg/kg		U	0.38	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Arsenic	14	mg/kg			0.047	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Barium	12	mg/kg			0.075	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Beryllium	0.11	mg/kg		B	0.033	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Cadmium	0.075	mg/kg		B	0.041	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Calcium	4500	mg/kg			14	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Chromium	5.6	mg/kg			0.057	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Cobalt	4.3	mg/kg			0.099	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Copper	5	mg/kg			0.21	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Iron	11000	mg/kg			3.8	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Lead	7.3	mg/kg			0.27	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Magnesium	1700	mg/kg			3.7	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Manganese	140	mg/kg			0.099	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Mercury	0.0051	mg/kg		U	0.0051	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Molybdenum	0.7	mg/kg		B	0.26	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Nickel	10	mg/kg			0.12	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Selenium	0.71	mg/kg			0.12	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Silver	0.16	mg/kg		U	0.16	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Sodium	130	mg/kg		B	58	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Thallium	0.1	mg/kg			0.0033	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Uranium	0.69	mg/kg			0.0015	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Vanadium	9.5	mg/kg			0.093	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE01	METAL	Zinc	12	mg/kg			0.39	69.7	70.2	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Alpha activity	6.36	pCi/g	0.8		2.01	70.2	70.6	SOLID	REG	GRA		9/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-MW05B	WDMW05B-33-BE01	RADS	Americium-241	0.0265	pCi/g	0.0105	U	0.0317	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Beta activity	0.32	pCi/g	0.55	U	2.89	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Cesium-137	-0.0347	pCi/g	0.0443	U	0.117	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Neptunium-237	0.00246	pCi/g	0.00348	U	0.0188	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Plutonium-238	-0.00285	pCi/g	-0.00403	U	0.0273	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Plutonium-239/240	0.0114	pCi/g	0.00697	U	0.0272	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Technetium-99	-0.0463	pCi/g	0.159	U	0.537	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Thorium-228	1.35	pCi/g	0.058	J	0.0395	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Thorium-230	1.44	pCi/g	0.0581	J	0.018	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Thorium-232	1.27	pCi/g	0.0547	J	0.0179	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Uranium-233/234	1.19	pCi/g	0.0506	J	0.0164	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Uranium-235	0.0556	pCi/g	0.0127	J	0.0253	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Uranium-236	0.0214	pCi/g	0.00751	U	0.0182	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE01	RADS	Uranium-238	1.18	pCi/g	0.0503	J	0.0163	70.2	70.6	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Aluminum	2100	mg/kg			1.5	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Antimony	0.36	mg/kg		U	0.36	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Arsenic	32	mg/kg			0.048	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Barium	8.9	mg/kg			0.072	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Beryllium	0.18	mg/kg		B	0.031	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Cadmium	0.12	mg/kg		B	0.039	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Calcium	1500	mg/kg			13	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Chromium	4.1	mg/kg			0.055	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Cobalt	6.5	mg/kg			0.095	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Copper	5.5	mg/kg			0.21	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Iron	10000	mg/kg			3.6	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Lead	15	mg/kg			0.26	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Magnesium	1200	mg/kg			3.5	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Manganese	56	mg/kg			0.095	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Mercury	0.0069	mg/kg		B	0.0054	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Molybdenum	0.25	mg/kg		U	0.25	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Nickel	11	mg/kg			0.12	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Selenium	0.13	mg/kg		U	0.13	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Silver	0.15	mg/kg		U	0.15	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Sodium	100	mg/kg		B	56	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Thallium	0.065	mg/kg		B	0.0033	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	WETCHEM	Total Organic Carbon (TOC)	5.5	g/kg			1.7	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Uranium	0.4	mg/kg			0.0015	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Vanadium	5.1	mg/kg			0.09	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-32-BE10	METAL	Zinc	11	mg/kg			0.38	79.5	79.9	SOIL	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Alpha activity	2.71	pCi/g	0.547	J	2.08	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Americium-241	0.0219	pCi/g	0.00937	U	0.0299	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Beta activity	-1.18	pCi/g	0.462	U	2.94	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-09-BE10	GTEC	Cation Exchange Capacity	0.0074	meq/g			0.00135	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Cesium-137	-0.0464	pCi/g	0.0428	U	0.108	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-07-BE10	WETCHEM	Distribution coefficient, Kd, Tc-99	3.16	mL/g				79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-07-BE10	WETCHEM	Distribution coefficient, Kd, Uranium	3.23	mL/g				79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Neptunium-237	0.00265	pCi/g	0.00459	U	0.0254	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Plutonium-238	0.00764	pCi/g	0.00509	U	0.0195	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Plutonium-239/240	0.0153	pCi/g	0.00673	U	0.0195	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Technetium-99	0.288	pCi/g	0.162	U	0.534	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Thorium-228	0.829	pCi/g	0.0466	J	0.0512	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Thorium-230	0.838	pCi/g	0.0451	J	0.0231	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Thorium-232	0.69	pCi/g	0.0408	J	0.0184	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Uranium-233/234	0.587	pCi/g	0.0368	J	0.022	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Uranium-235	0.0481	pCi/g	0.012	J	0.0216	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Uranium-236	0.0102	pCi/g	0.00568	U	0.0194	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-MW05B	WDMW05B-33-BE10	RADS	Uranium-238	0.651	pCi/g	0.0386	J	0.0175	79.9	80.4	SOLID	REG	GRA		9/8/2011
WD-PZ03	WDPZ03-30-2.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-30-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Acetone	5.3	ug/kg		U	5.3	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Acrolein	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Alpha activity	10.4	pCi/g	0.712		1.67	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Aluminum	13000	mg/kg			1.5	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Americium-241	0.0124	pCi/g	0.00825	U	0.0358	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Antimony	0.36	mg/kg		U	0.36	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Arsenic	33	mg/kg			0.051	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Barium	62	mg/kg			0.072	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Benzaldehyde	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Benzene	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Beryllium	0.52	mg/kg			0.031	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Beta activity	11.1	pCi/g	0.578		1.93	0	2	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Cadmium	0.039	mg/kg		U	0.039	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Calcium	400	mg/kg			13	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Cesium-137	0.055	pCi/g	0.0464	U	0.15	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Chloroethane	0.87	ug/kg		U	0.87	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Chromium	15	mg/kg			0.055	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Cobalt	5.7	mg/kg			0.095	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Copper	9.2	mg/kg			0.21	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Dibromomethane	0.82	ug/kg		U	0.82	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-30-2.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Iodomethane	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Iron	16000	mg/kg			3.6	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Lead	14	mg/kg			0.26	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Magnesium	1200	mg/kg			3.5	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Manganese	120	mg/kg			0.095	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Mercury	0.018	mg/kg			0.0054	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Methylene chloride	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Molybdenum	0.91	mg/kg		B	0.22	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Neptunium-237	0	pCi/g	0.00417	U	0.0225	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Nickel	9.7	mg/kg			0.12	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Phenol	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Plutonium-238	-0.00167	pCi/g	-0.00236	U	0.016	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Plutonium-239/240	0.005	pCi/g	0.00333	U	0.0128	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Selenium	0.88	mg/kg			0.13	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Sodium	82	mg/kg		B	56	0	2	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Styrene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Technetium-99	-0.226	pCi/g	0.294	U	0.996	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Thallium	0.2	mg/kg			0.0035	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Thorium-228	1.45	pCi/g	0.0761	J	0.0382	0	2	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Thorium-230	1.53	pCi/g	0.0773	J	0.0298	0	2	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Thorium-232	1.27	pCi/g	0.0705	J	0.0297	0	2	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Toluene	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Uranium	0.77	mg/kg			0.0016	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Uranium-233/234	0.657	pCi/g	0.0321	J	0.0192	0	2	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Uranium-235	0.0365	pCi/g	0.00881	J	0.0184	0	2	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Uranium-236	0	pCi/g	0.00423	U	0.0248	0	2	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-2.0	RADS	Uranium-238	0.644	pCi/g	0.0319	J	0.0251	0	2	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Vanadium	30	mg/kg			0.09	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-2.0	METAL	Zinc	30	mg/kg			0.38	0	2	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		JU	0.51	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	1,1,1,2-Tetrachloroethane	0.48	ug/kg		JU	0.48	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	1,1,1-Trichloroethane	0.47	ug/kg		JU	0.47	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	1,1,1-Trichloroethane	0.44	ug/kg		JU	0.44	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		JU	0.55	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	1,1,2,2-Tetrachloroethane	0.52	ug/kg		JU	0.52	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	1,1,2-Trichloroethane	0.8	ug/kg		JU	0.8	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	1,1,2-Trichloroethane	0.75	ug/kg		JU	0.75	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		JU	0.19	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	1,1-Dichloroethane	0.18	ug/kg		JU	0.18	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	1,1-Dichloroethene	0.54	ug/kg		JU	0.54	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	1,1-Dichloroethene	0.5	ug/kg		JU	0.5	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	1,2,3-Trichloropropane	0.74	ug/kg		JU	0.74	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-30-4.5	VOA	1,2,3-Trichloropropane	0.69	ug/kg		JU	0.69	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	1,2-Dichloroethane	0.64	ug/kg		JU	0.64	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	1,2-Dichloroethane	0.6	ug/kg		JU	0.6	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	1,2-Dichloropropane	0.5	ug/kg		JU	0.5	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	1,2-Dichloropropane	0.47	ug/kg		JU	0.47	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	1,2-Dimethylbenzene	0.55	ug/kg		JU	0.55	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	1,2-Dimethylbenzene	0.52	ug/kg		JU	0.52	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	2-Butanone	3.8	ug/kg		BJ	1.7	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	2-Butanone	4.3	ug/kg		BJ	1.6	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		JU	4.5	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		JU	4.3	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	2-Hexanone	4.4	ug/kg		JU	4.4	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	2-Hexanone	4.2	ug/kg		JU	4.2	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	4-Methyl-2-pentanone	4	ug/kg		JU	4	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	4-Methyl-2-pentanone	3.7	ug/kg		JU	3.7	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Acetone	4.9	ug/kg		JU	4.9	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Acetone	4.6	ug/kg		JU	4.6	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Acrolein	18	ug/kg		JU	18	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Acrolein	17	ug/kg		JU	17	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-31-4.5	VOA	Acrylonitrile	4.4	ug/kg		JU	4.4	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Acrylonitrile	4.1	ug/kg		JU	4.1	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Alpha activity	7.9	pCi/g	0.603		1.53	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Aluminum	9400	mg/kg			1.5	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Aluminum	9700	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Americium-241	0.0144	pCi/g	0.00633	U	0.0183	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Antimony	0.37	mg/kg		U	0.37	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Arsenic	17	mg/kg			0.043	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Arsenic	9.3	mg/kg			0.043	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Barium	70	mg/kg			0.072	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Barium	84	mg/kg			0.073	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Benzaldehyde	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Benzene	0.43	ug/kg		JU	0.43	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Benzene	0.4	ug/kg		JU	0.4	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Beryllium	0.76	mg/kg			0.031	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Beryllium	0.69	mg/kg			0.032	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Beta activity	4.56	pCi/g	0.419	J	1.83	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Bromodichloromethane	0.2	ug/kg		JU	0.2	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Bromodichloromethane	0.19	ug/kg		JU	0.19	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Bromoform	0.21	ug/kg		JU	0.21	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Bromoform	0.2	ug/kg		JU	0.2	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Bromomethane	0.45	ug/kg		JU	0.45	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Bromomethane	0.43	ug/kg		JU	0.43	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Cadmium	0.039	mg/kg		U	0.039	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Cadmium	0.039	mg/kg		U	0.039	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Calcium	230	mg/kg			13	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Calcium	280	mg/kg			14	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Carbon disulfide	0.38	ug/kg		JU	0.38	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Carbon disulfide	0.36	ug/kg		JU	0.36	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Carbon tetrachloride	0.57	ug/kg		JU	0.57	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Carbon tetrachloride	0.54	ug/kg		JU	0.54	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Cesium-137	-0.231	pCi/g	0.101	U	0.219	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Chlorobenzene	0.49	ug/kg		JU	0.49	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Chlorobenzene	0.46	ug/kg		JU	0.46	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Chloroethane	0.81	ug/kg		JU	0.81	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Chloroethane	0.76	ug/kg		JU	0.76	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Chloroform	0.26	ug/kg		JU	0.26	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Chloroform	0.25	ug/kg		JU	0.25	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Chloromethane	0.7	ug/kg		JU	0.7	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Chloromethane	0.66	ug/kg		JU	0.66	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Chromium	28	mg/kg			0.055	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Chromium	16	mg/kg			0.056	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		JU	0.51	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	cis-1,2-Dichloroethene	0.48	ug/kg		JU	0.48	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		JU	1.2	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-30-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		JU	1.1	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Cobalt	18	mg/kg			0.095	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Cobalt	15	mg/kg			0.096	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Copper	6	mg/kg			0.21	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Copper	5.8	mg/kg			0.21	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Dibromochloromethane	0.52	ug/kg		JU	0.52	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Dibromochloromethane	0.49	ug/kg		JU	0.49	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Dibromomethane	0.76	ug/kg		JU	0.76	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Dibromomethane	0.71	ug/kg		JU	0.71	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Dichlorodifluoromethane	0.47	ug/kg		JU	0.47	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Dichlorodifluoromethane	0.44	ug/kg		JU	0.44	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Ethyl methacrylate	0.55	ug/kg		JU	0.55	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Ethyl methacrylate	0.51	ug/kg		JU	0.51	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Ethylbenzene	0.61	ug/kg		JU	0.61	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Ethylbenzene	0.57	ug/kg		JU	0.57	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Iodomethane	0.4	ug/kg		JU	0.4	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Iodomethane	0.37	ug/kg		JU	0.37	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Iron	53000	mg/kg			3.6	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Iron	19000	mg/kg			3.7	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Lead	24	mg/kg			0.26	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Lead	18	mg/kg			0.26	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	M + P Xylene	0.94	ug/kg		JU	0.94	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	M + P Xylene	0.89	ug/kg		JU	0.89	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Magnesium	590	mg/kg			3.5	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Magnesium	650	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Manganese	1500	mg/kg			0.095	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Manganese	1300	mg/kg			0.096	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Mercury	0.026	mg/kg			0.0048	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Mercury	0.029	mg/kg			0.005	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Methylene chloride	0.68	ug/kg		JU	0.68	2.5	4.5	SOIL	FR	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Methylene chloride	0.84	ug/kg		J	0.64	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Molybdenum	0.86	mg/kg		B	0.22	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Molybdenum	1.7	mg/kg		B	0.23	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Neptunium-237	0.0361	pCi/g	0.00998	J	0.0197	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Nickel	9.4	mg/kg			0.12	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Nickel	8.7	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	FR	SPS	U	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Phenol	17	ug/kg		U	17	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Phenol	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Plutonium-238	0	pCi/g	0.00324	U	0.0175	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Plutonium-239/240	0.0114	pCi/g	0.0056	U	0.0175	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-17-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Selenium	1	mg/kg			0.11	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Selenium	0.94	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Silver	0.15	mg/kg		B	0.15	2.5	4.5	SOIL	FR	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Sodium	68	mg/kg		B	56	2.5	4.5	SOIL	FR	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Sodium	77	mg/kg		B	57	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Styrene	0.57	ug/kg		JU	0.57	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Styrene	0.54	ug/kg		JU	0.54	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Technetium-99	0.252	pCi/g	0.269	U	0.893	2.5	4.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Tetrachloroethene	0.54	ug/kg		JU	0.54	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Tetrachloroethene	0.5	ug/kg		JU	0.5	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Thallium	0.17	mg/kg			0.003	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Thallium	0.18	mg/kg			0.0029	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Thorium-228	0.898	pCi/g	0.0482	J	0.0197	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Thorium-230	1.04	pCi/g	0.0512	J	0.0193	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Thorium-232	0.855	pCi/g	0.0464	J	0.0192	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Toluene	0.63	ug/kg		JU	0.63	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Toluene	0.59	ug/kg		JU	0.59	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Total Xylene	0.55	ug/kg		JU	0.55	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Total Xylene	0.52	ug/kg		JU	0.52	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		JU	0.35	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	trans-1,2-Dichloroethene	0.33	ug/kg		JU	0.33	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		JU	0.61	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	trans-1,3-Dichloropropene	0.57	ug/kg		JU	0.57	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		JU	0.61	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.57	ug/kg		JU	0.57	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Trichloroethene	0.21	ug/kg		JU	0.21	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Trichloroethene	0.2	ug/kg		JU	0.2	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Trichlorofluoromethane	0.94	ug/kg		JU	0.94	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Trichlorofluoromethane	0.89	ug/kg		JU	0.89	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Uranium	0.78	mg/kg			0.0013	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Uranium	0.78	mg/kg			0.0013	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Uranium-233/234	0.726	pCi/g	0.0394	J	0.0163	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Uranium-235	0.0316	pCi/g	0.0095	J	0.0202	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Uranium-236	0.00473	pCi/g	0.0041	U	0.0181	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-4.5	RADS	Uranium-238	0.774	pCi/g	0.0406	J	0.0163	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Vanadium	47	mg/kg			0.09	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Vanadium	29	mg/kg			0.09	2.5	4.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Vinyl acetate	0.97	ug/kg		JU	0.97	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Vinyl acetate	0.91	ug/kg		JU	0.91	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-31-4.5	VOA	Vinyl chloride	1.2	ug/kg		JU	1.2	2.5	4.5	SOIL	FR	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-4.5	VOA	Vinyl chloride	1.1	ug/kg		JU	1.1	2.5	4.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-18-4.5	METAL	Zinc	27	mg/kg			0.38	2.5	4.5	SOIL	FR	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-4.5	METAL	Zinc	25	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	1,1,1,2-Tetrachloroethane	0.48	ug/kg		JU	0.48	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	1,1,1-Trichloroethane	0.45	ug/kg		JU	0.45	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	1,1,2,2-Tetrachloroethane	0.52	ug/kg		JU	0.52	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	1,1,2-Trichloroethane	0.75	ug/kg		JU	0.75	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	1,1-Dichloroethane	0.18	ug/kg		JU	0.18	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	1,1-Dichloroethene	0.51	ug/kg		JU	0.51	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	1,2,3-Trichloropropane	0.69	ug/kg		JU	0.69	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	1,2-Dichloroethane	0.6	ug/kg		JU	0.6	10	12	SOIL	REG	SPS	UJ	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-30-12.0	VOA	1,2-Dichloropropane	0.47	ug/kg		JU	0.47	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	1,2-Dimethylbenzene	0.52	ug/kg		JU	0.52	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	2-Butanone	3.3	ug/kg		BJ	1.6	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		JU	4.3	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2-Chlorophenol	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	2-Hexanone	4.2	ug/kg		JU	4.2	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	3,3'-Dichlorobenzidine	83	ug/kg		U	83	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	4-Methyl-2-pentanone	3.7	ug/kg		JU	3.7	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	4-Nitrobenzenamine	67	ug/kg		U	67	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	4-Nitrophenol	90	ug/kg		U	90	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Acenaphthene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Acetone	4.6	ug/kg		JU	4.6	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Acrolein	17	ug/kg		JU	17	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Acrylonitrile	4.1	ug/kg		JU	4.1	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Alpha activity	13	pCi/g	0.859		1.92	10	12	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Aluminum	19000	mg/kg			6.6	10	12	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Americium-241	0.0202	pCi/g	0.0106	U	0.0414	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Antimony	0.32	mg/kg		U	0.32	10	12	SOIL	REG	SPS	R	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Arsenic	17	mg/kg			0.045	10	12	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Barium	80	mg/kg			0.32	10	12	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Benzaldehyde	62	ug/kg		U	62	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Benzene	0.4	ug/kg		JU	0.4	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Benzenemethanol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Beryllium	1.3	mg/kg		B	0.14	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Beta activity	10.6	pCi/g	0.541		1.73	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	43	ug/kg		U	43	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Bromodichloromethane	0.19	ug/kg		JU	0.19	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Bromoform	0.2	ug/kg		JU	0.2	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Bromomethane	0.43	ug/kg		JU	0.43	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Cadmium	0.24	mg/kg		B	0.035	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Calcium	38000	mg/kg			60	10	12	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Carbazole	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Carbon disulfide	0.36	ug/kg		JU	0.36	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Carbon tetrachloride	0.54	ug/kg		JU	0.54	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Cesium-137	-0.0594	pCi/g	0.0557	U	0.144	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Chlorobenzene	0.46	ug/kg		JU	0.46	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Chloroethane	0.76	ug/kg		JU	0.76	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Chloroform	0.25	ug/kg		JU	0.25	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Chloromethane	0.66	ug/kg		JU	0.66	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Chromium	17	mg/kg			0.049	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Chrysene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	cis-1,2-Dichloroethene	0.48	ug/kg		JU	0.48	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		JU	1.1	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Cobalt	6.7	mg/kg			0.085	10	12	SOIL	REG	SPS	J	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-03-12.0	METAL	Copper	21	mg/kg			0.18	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Dibromochloromethane	0.49	ug/kg		JU	0.49	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Dibromomethane	0.72	ug/kg		JU	0.72	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Dichlorodifluoromethane	0.45	ug/kg		JU	0.45	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Diphenyldiazene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Ethyl methacrylate	0.51	ug/kg		JU	0.51	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Ethylbenzene	0.57	ug/kg		JU	0.57	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Fluoranthene	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Iodomethane	0.38	ug/kg		JU	0.38	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Iron	29000	mg/kg			16	10	12	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Lead	11	mg/kg			0.23	10	12	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	M + P Xylene	0.89	ug/kg		JU	0.89	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Magnesium	12000	mg/kg			3.1	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Manganese	420	mg/kg			0.085	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Mercury	0.051	mg/kg			0.0049	10	12	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Methylene chloride	0.94	ug/kg		J	0.64	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Molybdenum	5.8	mg/kg		B	1.1	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Naphthalene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Neptunium-237	-0.00261	pCi/g	0.00369	U	0.025	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Nickel	26	mg/kg			0.1	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Nitrobenzene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Phenol	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Plutonium-238	0.0104	pCi/g	0.00636	U	0.0249	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Plutonium-239/240	0.0026	pCi/g	0.0045	U	0.0249	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Pyrene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-12.0	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Selenium	1.7	mg/kg			0.12	10	12	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Sodium	310	mg/kg		B	250	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Styrene	0.54	ug/kg		JU	0.54	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Technetium-99	0.208	pCi/g	0.287	U	0.955	10	12	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Tetrachloroethene	0.51	ug/kg		JU	0.51	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Thallium	0.77	mg/kg			0.0031	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Thorium-228	1.03	pCi/g	0.0659	J	0.0322	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Thorium-230	1.19	pCi/g	0.0702	J	0.0315	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Thorium-232	1.12	pCi/g	0.0679	J	0.0314	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Toluene	0.59	ug/kg		JU	0.59	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Total Xylene	0.52	ug/kg		JU	0.52	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	trans-1,2-Dichloroethene	0.33	ug/kg		JU	0.33	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	trans-1,3-Dichloropropene	0.57	ug/kg		JU	0.57	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.57	ug/kg		JU	0.57	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Trichloroethene	0.2	ug/kg		JU	0.2	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Trichlorofluoromethane	0.89	ug/kg		JU	0.89	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Uranium	1.6	mg/kg			0.0014	10	12	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Uranium-233/234	1.1	pCi/g	0.05	J	0.0216	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Uranium-235	0.0473	pCi/g	0.0121	J	0.0267	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Uranium-236	0.01	pCi/g	0.00559	U	0.0191	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-12.0	RADS	Uranium-238	1.38	pCi/g	0.0557	J	0.0215	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Vanadium	31	mg/kg			0.08	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Vinyl acetate	0.92	ug/kg		JU	0.92	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-30-12.0	VOA	Vinyl chloride	1.1	ug/kg		JU	1.1	10	12	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-03-12.0	METAL	Zinc	55	mg/kg			0.34	10	12	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	1,1,1,2-Tetrachloroethane	0.48	ug/kg		U	0.48	17	19.5	SOIL	REG	SPS	U	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-30-19.5	VOA	1,1,1-Trichloroethane	0.44	ug/kg		U	0.44	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	1,1,2,2-Tetrachloroethane	0.52	ug/kg		U	0.52	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	1,1,2-Trichloroethane	0.75	ug/kg		U	0.75	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	1,1-Dichloroethene	0.5	ug/kg		U	0.5	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	1,2,3-Trichloropropane	0.69	ug/kg		U	0.69	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	1,2-Dichloroethane	0.6	ug/kg		U	0.6	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	1,2-Dichloropropane	0.47	ug/kg		U	0.47	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	1,2-Dimethylbenzene	0.52	ug/kg		U	0.52	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	2-Hexanone	4.2	ug/kg		U	4.2	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	4-Methyl-2-pentanone	3.7	ug/kg		U	3.7	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	4-Methylphenol	32	ug/kg		U	32	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	4-Nitrophenol	93	ug/kg		U	93	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Acetone	7.3	ug/kg		J	4.6	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Acrolein	17	ug/kg		U	17	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Acrylonitrile	4.1	ug/kg		U	4.1	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Alpha activity	9.94	pCi/g	0.699		1.66	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Aluminum	10000	mg/kg			1.5	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Americium-241	0.0207	pCi/g	0.011	U	0.0458	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Aniline	120	ug/kg		U	120	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Antimony	0.36	mg/kg		U	0.36	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Arsenic	2.3	mg/kg			0.049	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Barium	60	mg/kg			0.072	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Benzaldehyde	64	ug/kg		U	64	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Benzene	0.4	ug/kg		U	0.4	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Benzenemethanol	9.6	ug/kg		U	9.6	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Benzo(a)pyrene	49	ug/kg		J	19	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Benzoic acid	320	ug/kg		U	320	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Beryllium	0.65	mg/kg			0.031	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Beta activity	12.6	pCi/g	0.564		1.7	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Bromoform	0.2	ug/kg		U	0.2	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Bromomethane	0.43	ug/kg		U	0.43	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Cadmium	0.22	mg/kg		B	0.039	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Calcium	1100	mg/kg			13	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Carbazole	34	ug/kg		U	34	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Carbon tetrachloride	0.54	ug/kg		U	0.54	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Cesium-137	-0.0753	pCi/g	0.0576	U	0.145	17	19.5	SOIL	REG	SPS	U	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-30-19.5	VOA	Chlorobenzene	0.46	ug/kg		U	0.46	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Chloroethane	0.76	ug/kg		U	0.76	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Chloroform	0.25	ug/kg		U	0.25	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Chloromethane	0.66	ug/kg		U	0.66	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Chromium	14	mg/kg			0.055	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Chrysene	26	ug/kg		U	26	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	cis-1,2-Dichloroethene	0.48	ug/kg		U	0.48	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Cobalt	7.4	mg/kg			0.094	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Copper	17	mg/kg			0.2	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Dibenzofuran	19	ug/kg		U	19	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Dibromochloromethane	0.49	ug/kg		U	0.49	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Dibromomethane	0.72	ug/kg		U	0.72	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Dichlorodifluoromethane	0.44	ug/kg		U	0.44	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Ethyl methacrylate	0.51	ug/kg		U	0.51	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Ethylbenzene	0.57	ug/kg		U	0.57	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Fluoranthene	34	ug/kg		U	34	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Hexachloroethane	20	ug/kg		U	20	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Iron	12000	mg/kg			3.6	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Lead	15	mg/kg			0.25	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	M + P Xylene	0.89	ug/kg		U	0.89	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Magnesium	2200	mg/kg			3.5	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Manganese	130	mg/kg			0.094	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Mercury	0.015	mg/kg			0.0048	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Methylene chloride	0.64	ug/kg		U	0.64	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Molybdenum	1.3	mg/kg		B	0.22	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Naphthalene	30	ug/kg		U	30	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Neptunium-237	0.0048	pCi/g	0.00415	U	0.0183	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Nickel	19	mg/kg			0.12	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Nitrobenzene	21	ug/kg		U	21	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Phenol	17	ug/kg		U	17	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Plutonium-238	0	pCi/g	0.00412	U	0.0223	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Plutonium-239/240	0.00291	pCi/g	0.00504	U	0.0279	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Selenium	0.85	mg/kg			0.13	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Silver	0.15	mg/kg		U	0.15	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Sodium	150	mg/kg		B	56	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Styrene	0.54	ug/kg		U	0.54	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Technetium-99	0.115	pCi/g	0.289	U	0.968	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Tetrachloroethene	0.5	ug/kg		U	0.5	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Thallium	0.53	mg/kg			0.0034	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Thorium-228	1.44	pCi/g	0.0763	J	0.0492	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Thorium-230	1.29	pCi/g	0.0712	J	0.0374	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Thorium-232	1.24	pCi/g	0.0696	J	0.0298	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Toluene	0.59	ug/kg		U	0.59	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Total Xylene	0.52	ug/kg		U	0.52	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	trans-1,2-Dichloroethene	0.33	ug/kg		U	0.33	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	trans-1,3-Dichloropropene	0.57	ug/kg		U	0.57	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.57	ug/kg		U	0.57	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Trichlorofluoromethane	0.89	ug/kg		U	0.89	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Uranium	1.3	mg/kg			0.0015	17	19.5	SOIL	REG	SPS	=	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-04-19.5	RADS	Uranium-233/234	0.987	pCi/g	0.0575	J	0.0255	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Uranium-235	0.0699	pCi/g	0.0175	J	0.0315	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Uranium-236	0.0111	pCi/g	0.00739	U	0.0283	17	19.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-19.5	RADS	Uranium-238	1.09	pCi/g	0.0603	J	0.0318	17	19.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Vanadium	22	mg/kg			0.089	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Vinyl acetate	0.91	ug/kg		U	0.91	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-19.5	VOA	Vinyl chloride	1.1	ug/kg		U	1.1	17	19.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-19.5	METAL	Zinc	75	mg/kg			0.38	17	19.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	1,1,2-Trichloroethane	0.81	ug/kg		U	0.81	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	2-Hexanone	4.5	ug/kg		U	4.5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2-Methylphenol	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	4-Methylphenol	31	ug/kg		U	31	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	4-Nitrophenol	92	ug/kg		U	92	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Acenaphthylene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Acetone	5	ug/kg		U	5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Acrolein	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Alpha activity	7.89	pCi/g	0.643		1.72	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Aluminum	5900	mg/kg			1.5	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Americium-241	0	pCi/g	0.0105	U	0.0555	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Aniline	120	ug/kg		U	120	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Anthracene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Antimony	0.38	mg/kg		U	0.38	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Arsenic	13	mg/kg			0.048	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Barium	33	mg/kg			0.075	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Benzaldehyde	64	ug/kg		U	64	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Benzene	0.43	ug/kg		U	0.43	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Benzo(a)pyrene	270	ug/kg		J	19	22.5	24.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Benzoic acid	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Beryllium	0.51	mg/kg			0.033	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Beta activity	7.22	pCi/g	0.506		1.99	22.5	24.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	22.5	24.5	SOIL	REG	SPS	U	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-30-24.5	VOA	Bromoform	0.21	ug/kg		U	0.21	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Bromomethane	0.46	ug/kg		U	0.46	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Cadmium	0.23	mg/kg		B	0.041	22.5	24.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Calcium	2400	mg/kg			14	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Carbazole	34	ug/kg		U	34	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Cesium-137	-0.00728	pCi/g	0.0405	U	0.115	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Chloroethane	0.82	ug/kg		U	0.82	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Chloroform	0.27	ug/kg		U	0.27	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Chloromethane	0.71	ug/kg		U	0.71	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Chromium	12	mg/kg			0.057	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Chrysene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Cobalt	10	mg/kg			0.099	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Copper	11	mg/kg			0.21	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Dibenzofuran	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Dibromomethane	0.78	ug/kg		U	0.78	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Fluoranthene	34	ug/kg		U	34	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Fluorene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Hexachloroethane	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Iodomethane	0.41	ug/kg		U	0.41	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Iron	34000	mg/kg			3.8	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Isophorone	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Lead	9.2	mg/kg			0.27	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	M + P Xylene	0.96	ug/kg		U	0.96	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Magnesium	1500	mg/kg			3.7	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Manganese	410	mg/kg			0.099	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Mercury	0.0048	mg/kg		U	0.0048	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Methylene chloride	0.69	ug/kg		U	0.69	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Molybdenum	3.8	mg/kg			0.22	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Naphthalene	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Neptunium-237	0.00238	pCi/g	0.00337	U	0.0182	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Nickel	23	mg/kg			0.12	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Nitrobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Phenanthrene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Phenol	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Plutonium-238	0	pCi/g	0.0035	U	0.0189	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Plutonium-239/240	0.00989	pCi/g	0.00553	U	0.0189	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Pyrene	11	ug/kg		U	11	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-02-24.5	SVOA	Pyridine	120	ug/kg		U	120	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Selenium	0.78	mg/kg			0.13	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Silver	0.16	mg/kg		U	0.16	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Sodium	73	mg/kg		B	58	22.5	24.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Styrene	0.58	ug/kg		U	0.58	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Technetium-99	-0.0934	pCi/g	0.298	U	1.01	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Thallium	0.23	mg/kg			0.0033	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Thorium-228	0.889	pCi/g	0.0442	J	0.0168	22.5	24.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Thorium-230	1.29	pCi/g	0.0525	J	0.0164	22.5	24.5	SOIL	REG	SPS	J	5/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ03	WDPZ03-04-24.5	RADS	Thorium-232	0.831	pCi/g	0.0422	J	0.0163	22.5	24.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Toluene	0.64	ug/kg		U	0.64	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Total Xylene	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Trichlorofluoromethane	0.96	ug/kg		U	0.96	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Uranium	1.7	mg/kg			0.0015	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Uranium-233/234	1.15	pCi/g	0.0521	J	0.0411	22.5	24.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Uranium-235	0.0572	pCi/g	0.0131	J	0.0219	22.5	24.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Uranium-236	-0.00514	pCi/g	0.00445	U	0.0316	22.5	24.5	SOIL	REG	SPS	UJ	5/31/2011
WD-PZ03	WDPZ03-04-24.5	RADS	Uranium-238	1.2	pCi/g	0.0528	J	0.0177	22.5	24.5	SOIL	REG	SPS	J	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Vanadium	26	mg/kg			0.093	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Vinyl acetate	0.99	ug/kg		U	0.99	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-30-24.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	22.5	24.5	SOIL	REG	SPS	U	5/31/2011
WD-PZ03	WDPZ03-03-24.5	METAL	Zinc	62	mg/kg			0.39	22.5	24.5	SOIL	REG	SPS	=	5/31/2011
WD-PZ04	WDPZ04-30-2.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	1,2,3-Trichloropropane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	2-Butanone	11	ug/kg		BJ	1.7	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	4-Methylphenol	32	ug/kg		U	32	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	4-Nitrophenol	93	ug/kg		U	93	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Acetone	88	ug/kg			5.1	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Alpha activity	4.15	pCi/g	0.296	J	0.839	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Aluminum	8800	mg/kg			1.4	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Americium-241	0.00224	pCi/g	0.00744	U	0.0397	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Antimony	0.34	mg/kg		U	0.34	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Arsenic	6.2	mg/kg			0.044	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Barium	48	mg/kg			0.068	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Benzaldehyde	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Benzenemethanol	60	ug/kg		J	9.6	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	6/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ04	WDPZ04-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Benzoic acid	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Beryllium	0.44	mg/kg		B	0.03	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Beta activity	0.934	pCi/g	0.17	U	0.906	0	2	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	81	ug/kg		BJ	44	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Cadmium	0.037	mg/kg		U	0.037	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Calcium	87	mg/kg			13	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Carbazole	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Cesium-137	0.0592	pCi/g	0.0557	U	0.185	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Chloroethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Chloromethane	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Chromium	19	mg/kg			0.052	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Cobalt	4.5	mg/kg			0.09	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Copper	4.9	mg/kg			0.2	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Dibromomethane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		BJ	25	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Fluoranthene	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Iron	41000	mg/kg			3.4	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Lead	18	mg/kg			0.24	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	M + P Xylene	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Magnesium	570	mg/kg			3.3	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Manganese	130	mg/kg			0.09	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Mercury	0.013	mg/kg		B	0.0053	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Methylene chloride	1.7	ug/kg		BJ	0.71	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Molybdenum	0.67	mg/kg		B	0.23	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Neptunium-237	0	pCi/g	0.0053	U	0.0311	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Nickel	6.2	mg/kg			0.11	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Phenol	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Plutonium-238	0.00224	pCi/g	0.00316	U	0.0171	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Plutonium-239/240	0.0134	pCi/g	0.00591	U	0.0171	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Pyrene	20	ug/kg		J	12	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	6/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ04	WDPZ04-03-2.0	METAL	Selenium	0.58	mg/kg			0.11	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Sodium	55	mg/kg		B	53	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Styrene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Technetium-99	-0.4	pCi/g	0.326	U	1.11	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Thallium	0.16	mg/kg			0.003	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Thorium-228	0.783	pCi/g	0.0477	J	0.0497	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Thorium-230	0.91	pCi/g	0.0499	J	0.0261	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Thorium-232	0.805	pCi/g	0.0468	J	0.0208	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Toluene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Total Xylene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Uranium	0.53	mg/kg			0.0014	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Uranium-233/234	0.765	pCi/g	0.042	J	0.0176	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Uranium-235	0.0511	pCi/g	0.0124	J	0.0217	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Uranium-236	0.0051	pCi/g	0.00625	U	0.0314	0	2	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-04-2.0	RADS	Uranium-238	0.782	pCi/g	0.0424	J	0.0175	0	2	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Vanadium	44	mg/kg			0.085	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-2.0	METAL	Zinc	28	mg/kg			0.36	0	2	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	2-Butanone	3.6	ug/kg		BJ	1.8	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Acetone	5.3	ug/kg		U	5.3	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Alpha activity	6.43	pCi/g	0.36		0.84	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Aluminum	13000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Americium-241	0.00826	pCi/g	0.00728	U	0.0339	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	R	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	6/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ04	WDPZ04-03-4.5	METAL	Arsenic	22	mg/kg			0.042	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Barium	33	mg/kg			0.072	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Benzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Beryllium	0.6	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Beta activity	1.47	pCi/g	0.191	J	0.902	2.5	4.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	72	ug/kg		BJ	45	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Cadmium	0.039	mg/kg		U	0.039	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Calcium	180	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Cesium-137	0.0365	pCi/g	0.0457	U	0.142	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Chloromethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Chromium	20	mg/kg			0.055	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Cobalt	6.9	mg/kg			0.095	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Copper	23	mg/kg			0.21	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Iron	22000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Lead	13	mg/kg			0.26	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Magnesium	2200	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Manganese	58	mg/kg			0.095	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Mercury	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Methylene chloride	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Molybdenum	0.25	mg/kg		U	0.25	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00322	U	0.0174	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Nickel	19	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	6/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ04	WDPZ04-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Phenol	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Plutonium-238	0.00247	pCi/g	0.0035	U	0.0189	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Plutonium-239/240	0.00494	pCi/g	0.00428	U	0.0189	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	R	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Selenium	1	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Sodium	120	mg/kg		B	56	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Styrene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Technetium-99	-0.177	pCi/g	0.317	U	1.07	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Thallium	0.15	mg/kg			0.0029	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Thorium-228	1.08	pCi/g	0.0569	J	0.0285	2.5	4.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Thorium-230	0.929	pCi/g	0.0521	J	0.0355	2.5	4.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Thorium-232	0.968	pCi/g	0.0533	J	0.0414	2.5	4.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Toluene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Uranium	0.58	mg/kg			0.0013	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Uranium-233/234	0.837	pCi/g	0.0476	J	0.0426	2.5	4.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Uranium-235	0.0586	pCi/g	0.0142	J	0.0249	2.5	4.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Uranium-236	0.00585	pCi/g	0.00506	U	0.0224	2.5	4.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-04-4.5	RADS	Uranium-238	0.765	pCi/g	0.0449	J	0.0201	2.5	4.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Vanadium	35	mg/kg			0.09	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-4.5	METAL	Zinc	61	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	1,1,2-Trichloroethane	0.79	ug/kg		U	0.79	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	1,1-Dichloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	1,2,3-Trichloropropane	0.73	ug/kg		U	0.73	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	1,2-Dichloroethane	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	2-Butanone	3.9	ug/kg		BJ	1.6	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	2-Hexanone	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ04	WDPZ04-30-12.0	VOA	Acetone	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Aluminum	13000	mg/kg			1.4	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Antimony	0.35	mg/kg		U	0.35	10	12	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Arsenic	17	mg/kg			0.047	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Barium	97	mg/kg			0.07	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Benzene	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Beryllium	0.85	mg/kg			0.031	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	79	ug/kg		BJ	45	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Bromomethane	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Cadmium	0.053	mg/kg		B	0.038	10	12	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Calcium	950	mg/kg			13	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Chloroethane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Chloroform	0.26	ug/kg		U	0.26	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Chloromethane	0.69	ug/kg		U	0.69	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Chromium	20	mg/kg			0.054	10	12	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	cis-1,2-Dichloroethene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Cobalt	12	mg/kg			0.093	10	12	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Copper	20	mg/kg			0.2	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Dibromochloromethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Dibromomethane	0.76	ug/kg		U	0.76	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Ethylbenzene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Iodomethane	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Iron	23000	mg/kg			3.5	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Lead	13	mg/kg			0.25	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	M + P Xylene	0.94	ug/kg		U	0.94	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Magnesium	3000	mg/kg			3.4	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Manganese	810	mg/kg			0.093	10	12	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Mercury	0.0092	mg/kg		B	0.005	10	12	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Methylene chloride	2.2	ug/kg		BJ	0.67	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Molybdenum	0.34	mg/kg		B	0.24	10	12	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Nickel	29	mg/kg			0.11	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	6/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ04	WDPZ04-02-12.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Phenol	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Selenium	0.93	mg/kg			0.12	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Sodium	220	mg/kg		B	55	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Styrene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Tetrachloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Thallium	0.32	mg/kg			0.0033	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Toluene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Total Xylene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	trans-1,3-Dichloropropene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Trichlorofluoromethane	0.94	ug/kg		U	0.94	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Uranium	0.63	mg/kg			0.0015	10	12	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Vanadium	36	mg/kg			0.087	10	12	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Vinyl acetate	0.96	ug/kg		U	0.96	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-12.0	METAL	Zinc	84	mg/kg			0.37	10	12	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Alpha activity	6.55	pCi/g	0.39		0.946	12.5	14.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Americium-241	0.00895	pCi/g	0.00895	U	0.0429	12.5	14.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Beta activity	2.38	pCi/g	0.212	J	0.908	12.5	14.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Cesium-137	0.036	pCi/g	0.044	U	0.136	12.5	14.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Neptunium-237	0.00258	pCi/g	0.00447	U	0.0247	12.5	14.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Plutonium-238	-0.0152	pCi/g	-0.00951	U	0.0605	12.5	14.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Plutonium-239/240	0.0178	pCi/g	0.00842	U	0.0312	12.5	14.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Technetium-99	-0.797	pCi/g	0.313	U	1.08	12.5	14.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Thorium-228	1.06	pCi/g	0.0623	J	0.0578	12.5	14.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Thorium-230	0.809	pCi/g	0.0531	J	0.0266	12.5	14.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Thorium-232	0.97	pCi/g	0.0582	J	0.0332	12.5	14.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Uranium-233/234	0.846	pCi/g	0.0475	J	0.0203	12.5	14.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Uranium-235	0.0361	pCi/g	0.0114	U	0.0251	12.5	14.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Uranium-236	0.00295	pCi/g	0.0051	U	0.0282	12.5	14.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-04-12.0	RADS	Uranium-238	0.847	pCi/g	0.0474	J	0.0203	12.5	14.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	1,1,2-Trichloroethane	0.79	ug/kg		U	0.79	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	1,1-Dichloroethene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	1,2,3-Trichloropropane	0.73	ug/kg		U	0.73	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	1,2-Dichloroethane	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	2-Butanone	5.3	ug/kg		BJ	1.7	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	2-Hexanone	4.4	ug/kg		U	4.4	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2-Methylphenol	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	6/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ04	WDPZ04-02-19.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	4-Methylphenol	32	ug/kg		U	32	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	4-Nitrophenol	95	ug/kg		U	95	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Acenaphthene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Acenaphthylene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Acetone	4.9	ug/kg		U	4.9	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Acrolein	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Alpha activity	6.55	pCi/g	0.389		0.943	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Aluminum	9600	mg/kg			1.5	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Americium-241	0.0144	pCi/g	0.00861	U	0.0353	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Aniline	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Anthracene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Antimony	0.38	mg/kg		U	0.38	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Arsenic	17	mg/kg			0.046	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Barium	57	mg/kg			0.075	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Benzaldehyde	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Benzene	0.42	ug/kg		U	0.42	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Benzoic acid	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Beryllium	0.77	mg/kg			0.033	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Beta activity	1.04	pCi/g	0.181	U	0.905	17.5	19.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	75	ug/kg		BJ	45	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Bromoform	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Bromomethane	0.45	ug/kg		U	0.45	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Cadmium	0.041	mg/kg		U	0.041	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Calcium	1100	mg/kg			14	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Carbazole	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Cesium-137	0.0152	pCi/g	0.0507	U	0.149	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Chloroethane	0.8	ug/kg		U	0.8	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Chloroform	0.26	ug/kg		U	0.26	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Chloromethane	0.69	ug/kg		U	0.69	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Chromium	18	mg/kg			0.057	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Chrysene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Cobalt	10	mg/kg			0.099	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Copper	16	mg/kg			0.21	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Dibenzofuran	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Dibromochloromethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Dibromomethane	0.76	ug/kg		U	0.76	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Ethylbenzene	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Fluoranthene	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Fluorene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Hexachloroethane	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Iodomethane	0.4	ug/kg		U	0.4	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Iron	50000	mg/kg			3.8	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Isophorone	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Lead	12	mg/kg			0.27	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	M + P Xylene	0.94	ug/kg		U	0.94	17.5	19.5	SOIL	REG	SPS	U	6/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ04	WDPZ04-03-19.5	METAL	Magnesium	2600	mg/kg			3.7	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Manganese	490	mg/kg			0.099	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Mercury	0.015	mg/kg		B	0.0051	17.5	19.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Methylene chloride	2.8	ug/kg		BJ	0.68	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Molybdenum	0.28	mg/kg		B	0.26	17.5	19.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Naphthalene	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Neptunium-237	-0.00236	pCi/g	0.00334	U	0.0226	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Nickel	25	mg/kg			0.12	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Nitrobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Phenanthrene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Phenol	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Plutonium-238	0	pCi/g	0.00364	U	0.0197	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Plutonium-239/240	0.00772	pCi/g	0.00515	U	0.0197	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-19.5	SVOA	Pyridine	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Selenium	3.1	mg/kg			0.12	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Silver	0.16	mg/kg		U	0.16	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Sodium	160	mg/kg		B	58	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Styrene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Technetium-99	-0.429	pCi/g	0.307	U	1.05	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Tetrachloroethene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Thallium	0.13	mg/kg			0.0032	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Thorium-228	0.998	pCi/g	0.0584	J	0.0667	17.5	19.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Thorium-230	0.746	pCi/g	0.0487	J	0.0243	17.5	19.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Thorium-232	1.03	pCi/g	0.0573	J	0.0242	17.5	19.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Toluene	0.82	ug/kg		J	0.62	17.5	19.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Total Xylene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	trans-1,3-Dichloropropene	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Trichlorofluoromethane	0.94	ug/kg		U	0.94	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Uranium	0.79	mg/kg			0.0014	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Uranium-233/234	0.789	pCi/g	0.046	J	0.0204	17.5	19.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Uranium-235	0.0231	pCi/g	0.00933	U	0.0252	17.5	19.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Uranium-236	0	pCi/g	0.00419	U	0.0226	17.5	19.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-04-19.5	RADS	Uranium-238	0.833	pCi/g	0.0472	J	0.0204	17.5	19.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Vanadium	29	mg/kg			0.093	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-19.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-19.5	METAL	Zinc	140	mg/kg			0.39	17.5	19.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	2-Butanone	3.5	ug/kg		BJ	1.8	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	6/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ04	WDPZ04-30-24.5	VOA	2-Hexanone	4.9	ug/kg		U	4.9	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2-Methylphenol	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	4-Methylphenol	32	ug/kg		U	32	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	4-Nitrophenol	95	ug/kg		U	95	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Acenaphthene	10	ug/kg		U	10	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Acenaphthylene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Acetone	6.8	ug/kg		J	5.4	22.5	24.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Acrolein	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Aluminum	11000	mg/kg			1.4	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Aniline	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Anthracene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Antimony	0.35	mg/kg		U	0.35	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Arsenic	12	mg/kg			0.044	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Barium	46	mg/kg			0.069	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Benzaldehyde	66	ug/kg		U	66	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Benzene	0.47	ug/kg		U	0.47	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Benzoic acid	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Beryllium	0.65	mg/kg			0.03	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Bis(2-ethylhexyl)phthalate	75	ug/kg		BJ	45	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Bromoform	0.23	ug/kg		U	0.23	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Cadmium	0.037	mg/kg		U	0.037	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Calcium	580	mg/kg			13	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Carbazole	35	ug/kg		U	35	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Chloroethane	0.89	ug/kg		U	0.89	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Chloroform	0.47	ug/kg		J	0.29	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Chloromethane	0.77	ug/kg		U	0.77	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Chromium	17	mg/kg			0.053	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Chrysene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Cobalt	6.6	mg/kg			0.091	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Copper	17	mg/kg			0.2	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Dibenzofuran	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Dibromomethane	0.84	ug/kg		U	0.84	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Fluoranthene	35	ug/kg		U	35	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Fluorene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Hexachloroethane	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	6/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ04	WDPZ04-30-24.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Iron	19000	mg/kg			3.5	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Isophorone	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Lead	9.3	mg/kg			0.25	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	M + P Xylene	1	ug/kg		U	1	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Magnesium	3000	mg/kg			3.4	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Manganese	130	mg/kg			0.091	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Mercury	0.009	mg/kg		B	0.0053	22.5	24.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Methylene chloride	2	ug/kg		BJ	0.75	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Molybdenum	0.24	mg/kg		U	0.24	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Naphthalene	30	ug/kg		U	30	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Nickel	22	mg/kg			0.11	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Nitrobenzene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	PPCB	PCB-1221	0.016	mg/kg		U	0.016	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	PPCB	PCB-1260	0.0027	mg/kg		U	0.0027	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Phenanthrene	19	ug/kg		J	17	22.5	24.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Phenol	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	PPCB	Polychlorinated biphenyl	0.0027	mg/kg		U	0.0027	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Pyrene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-02-24.5	SVOA	Pyridine	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Selenium	0.55	mg/kg			0.12	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Silver	0.15	mg/kg		U	0.15	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Sodium	190	mg/kg		B	54	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Styrene	0.63	ug/kg		U	0.63	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Thallium	0.13	mg/kg			0.0031	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Toluene	0.69	ug/kg		U	0.69	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Total Xylene	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Uranium	0.53	mg/kg			0.0014	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Vanadium	26	mg/kg			0.085	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-30-24.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	22.5	24.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-03-24.5	METAL	Zinc	56	mg/kg			0.36	22.5	24.5	SOIL	REG	SPS	=	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Alpha activity	4.52	pCi/g	0.322	J	0.897	25	27.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Americium-241	0.00796	pCi/g	0.00796	U	0.0382	25	27.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Beta activity	1.63	pCi/g	0.187	J	0.903	25	27.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Cesium-137	0.0981	pCi/g	0.0415	U	0.149	25	27.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Neptunium-237	0.00506	pCi/g	0.00947	U	0.0484	25	27.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Plutonium-238	0.00255	pCi/g	0.0036	U	0.0195	25	27.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Plutonium-239/240	0.00764	pCi/g	0.0057	U	0.0244	25	27.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Technetium-99	-0.632	pCi/g	0.311	U	1.07	25	27.5	SOIL	REG	SPS	U	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Thorium-228	1.16	pCi/g	0.062	J	0.0747	25	27.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Thorium-230	0.779	pCi/g	0.0488	J	0.0233	25	27.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Thorium-232	1.1	pCi/g	0.0579	J	0.0291	25	27.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Uranium-233/234	0.702	pCi/g	0.0425	J	0.0245	25	27.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Uranium-235	0.0378	pCi/g	0.0114	J	0.0241	25	27.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Uranium-236	0.00283	pCi/g	0.0049	U	0.0271	25	27.5	SOIL	REG	SPS	UJ	6/8/2011
WD-PZ04	WDPZ04-04-24.5	RADS	Uranium-238	0.75	pCi/g	0.0438	J	0.0195	25	27.5	SOIL	REG	SPS	J	6/8/2011
WD-PZ05	WDPZ05-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	1,1,2-Trichloroethane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	1,2,3-Trichloropropane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	1,4-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2,4,5-Trichlorophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2,4,6-Trichlorophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS	U	6/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ05	WDPZ05-02-2.0	SVOA	2,4-Dichlorophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2,4-Dimethylphenol	60	ug/kg		U	60	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2,4-Dinitrophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2,4-Dinitrotoluene	60	ug/kg		U	60	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	2-Butanone	2.3	ug/kg		BJ	1.6	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2-Chloronaphthalene	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2-Chlorophenol	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	2-Hexanone	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2-Methylnaphthalene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	2-Nitrophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	3,3'-Dichlorobenzidine	82	ug/kg		U	82	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	3-Nitrobenzenamine	67	ug/kg		U	67	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	4-Bromophenyl phenyl ether	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	4-Chloro-3-methylphenol	60	ug/kg		U	60	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	4-Chlorobenzenamine	75	ug/kg		U	75	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	4-Methylphenol	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	4-Nitrobenzenamine	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	4-Nitrophenol	89	ug/kg		U	89	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Acenaphthene	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Acetone	6	ug/kg		BJ	4.7	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Acrolein	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Alpha activity	3.72	pCi/g	0.37	J	0.575	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Aluminum	11000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Americium-241	0.00325	pCi/g	0.0108	U	0.0575	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Antimony	0.35	mg/kg		U	0.35	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Arsenic	14	mg/kg			0.049	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Barium	63	mg/kg			0.069	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Benz(a)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Benzaldehyde	61	ug/kg		U	61	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Benzene	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Benzenemethanol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Benzo(a)pyrene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Benzoic acid	300	ug/kg		U	300	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Beryllium	0.98	mg/kg			0.03	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Beta activity	2	pCi/g	0.251	J	0.759	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	64	ug/kg		BJ	42	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Bromoform	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Bromomethane	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Butyl benzyl phthalate	39	ug/kg		U	39	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Cadmium	0.037	mg/kg		U	0.037	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Calcium	550	mg/kg			13	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Carbazole	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Carbon tetrachloride	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-08-2.0	GTEC	Cation Exchange Capacity	0.126	meq/g			0.00133	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Cesium-137	0.0484	pCi/g	0.0553	U	0.173	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Chloroethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Chloroform	0.25	ug/kg		U	0.25	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Chloromethane	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Chromium	15	mg/kg			0.053	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Chrysene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	cis-1,2-Dichloroethene	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Cobalt	11	mg/kg			0.091	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Copper	19	mg/kg			0.2	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Dibenz(a,h)anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Dibenzofuran	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Dibromochloromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Dibromomethane	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS	U	6/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ05	WDPZ05-02-2.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Diphenyldiazene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-06-2.0	WETCHEM	Distribution coefficient, Kd, Tc-99	5.87	mL/g				0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-06-2.0	WETCHEM	Distribution coefficient, Kd, Uranium	58.9	mL/g				0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Fluoranthene	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Fluorene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Hexachlorobutadiene	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Hexachloroethane	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Iodomethane	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Iron	16000	mg/kg			3.5	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Lead	16	mg/kg			0.25	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	M + P Xylene	0.9	ug/kg		U	0.9	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Magnesium	2800	mg/kg			3.4	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Manganese	100	mg/kg			0.091	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Mercury	0.0073	mg/kg		B	0.0049	0	2	SOIL	REG	SPS	J	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Methylene chloride	0.67	ug/kg		J	0.65	0	2	SOIL	REG	SPS	J	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Molybdenum	0.24	mg/kg		U	0.24	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Naphthalene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Neptunium-237	0.00231	pCi/g	0.00327	U	0.0177	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Nickel	27	mg/kg			0.11	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Nitrobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	N-Nitroso-di-n-propylamine	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Pentachlorophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Phenol	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Plutonium-238	0.00504	pCi/g	0.00437	U	0.0193	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Plutonium-239/240	0.0126	pCi/g	0.00617	U	0.0193	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Selenium	0.9	mg/kg			0.13	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Sodium	110	mg/kg		B	54	0	2	SOIL	REG	SPS	J	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Styrene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Technetium-99	0.427	pCi/g	0.31	U	1.03	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Thallium	0.14	mg/kg			0.0034	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Thorium-228	1.45	pCi/g	0.0889	J	0.121	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Thorium-230	0.912	pCi/g	0.0672	J	0.047	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Thorium-232	1.32	pCi/g	0.0806	J	0.0374	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Toluene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	WETCHEM	Total Organic Carbon (TOC)	3.2	g/kg		B	1.7	0	2	SOIL	REG	SPS	J	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Total Xylene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Trichloroethene	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Trichlorofluoromethane	0.9	ug/kg		U	0.9	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Uranium	0.48	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Uranium-233/234	0.831	pCi/g	0.046	J	0.0194	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Uranium-235	0.047	pCi/g	0.0125	J	0.024	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Uranium-236	0.0113	pCi/g	0.0063	U	0.0215	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-2.0	RADS	Uranium-238	0.881	pCi/g	0.0473	J	0.0194	0	2	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Vanadium	23	mg/kg			0.085	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Vinyl acetate	0.92	ug/kg		U	0.92	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-2.0	METAL	Zinc	52	mg/kg			0.36	0	2	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS	U	6/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ05	WDPZ05-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	2-Butanone	3.3	ug/kg		BJ	1.8	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Acetone	6.5	ug/kg		BJ	5.3	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Alpha activity	6.39	pCi/g	0.487		0.59	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Aluminum	13000	mg/kg			1.6	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Americium-241	0.00633	pCi/g	0.00896	U	0.0456	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Antimony	0.38	mg/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Arsenic	18	mg/kg			0.044	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Barium	59	mg/kg			0.076	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Benzaldehyde	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Benzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Beryllium	0.92	mg/kg			0.033	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Beta activity	2.28	pCi/g	0.276	J	0.78	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	71	ug/kg		BJ	46	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Cadmium	0.041	mg/kg		U	0.041	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Calcium	900	mg/kg			14	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-08-4.5	GTEC	Cation Exchange Capacity	0.13	meq/g			0.00135	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Cesium-137	0.0728	pCi/g	0.0469	U	0.156	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Chloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS	U	6/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ05	WDPZ05-01-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Chloromethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Chromium	18	mg/kg			0.058	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Cobalt	15	mg/kg			0.1	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Copper	24	mg/kg			0.22	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Dibromomethane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-06-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	4.69	mL/g				2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-06-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	1.47	mL/g				2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Iron	27000	mg/kg			3.8	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Lead	17	mg/kg			0.27	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Magnesium	3300	mg/kg			3.7	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Manganese	180	mg/kg			0.1	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Mercury	0.02	mg/kg			0.0051	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Methylene chloride	0.99	ug/kg		J	0.74	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Molybdenum	0.26	mg/kg		U	0.26	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00327	U	0.0221	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Nickel	31	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Phenol	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Plutonium-238	-0.00244	pCi/g	-0.00346	U	0.0234	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Plutonium-239/240	0.0195	pCi/g	0.00732	U	0.0187	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Selenium	0.68	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Silver	0.16	mg/kg		U	0.16	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Sodium	190	mg/kg		B	59	2.5	4.5	SOIL	REG	SPS	J	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Styrene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Technetium-99	0.0667	pCi/g	0.298	U	0.999	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Thallium	0.14	mg/kg			0.003	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Thorium-228	1.53	pCi/g	0.0687	J	0.0535	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Thorium-230	1.17	pCi/g	0.0585	J	0.0223	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Thorium-232	1.28	pCi/g	0.061	J	0.0223	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Toluene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	WETCHEM	Total Organic Carbon (TOC)	4.4	g/kg			1.7	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	6/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ05	WDPZ05-03-4.5	METAL	Uranium	0.68	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Uranium-233/234	0.758	pCi/g	0.0439	J	0.0194	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Uranium-235	0.0344	pCi/g	0.0108	U	0.0239	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Uranium-236	0.0112	pCi/g	0.00628	U	0.0215	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-4.5	RADS	Uranium-238	0.807	pCi/g	0.0452	J	0.0193	2.5	4.5	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Vanadium	32	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-4.5	METAL	Zinc	80	mg/kg			0.4	2.5	4.5	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	1,1,1-Trichloroethane	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	1,1,2-Trichloroethane	0.81	ug/kg		U	0.81	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	1,1,2-Trichloroethane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	1,1-Dichloroethene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	1,2,3-Trichloropropane	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	1,2-Dichloroethane	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	1,2-Dichloropropane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	1,2-Dimethylbenzene	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	2-Butanone	2.7	ug/kg		BJ	1.7	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	2-Butanone	2.4	ug/kg		BJ	1.5	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	2-Chloroethyl vinyl ether	4.2	ug/kg		U	4.2	10	12	SOIL	REG	SPS	R	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	2-Hexanone	4.5	ug/kg		U	4.5	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	2-Hexanone	4.1	ug/kg		U	4.1	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	4-Methyl-2-pentanone	3.7	ug/kg		U	3.7	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	4-Methylphenol	32	ug/kg		U	32	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	4-Nitrophenol	94	ug/kg		U	94	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Acetone	5	ug/kg		U	5	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Acetone	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Acrolein	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Acrylonitrile	4	ug/kg		U	4	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Alpha activity	4.68	pCi/g	0.415	J	0.574	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Aluminum	13000	mg/kg			1.5	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Americium-241	0.0212	pCi/g	0.00907	U	0.029	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Antimony	0.36	mg/kg		U	0.36	10	12	SOIL	REG	SPS	U	6/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ05	WDPZ05-03-12.0	METAL	Arsenic	43	mg/kg			0.046	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Barium	37	mg/kg			0.072	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Benzaldehyde	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Benzene	0.43	ug/kg		U	0.43	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Benzene	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Benzoic acid	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Beryllium	0.7	mg/kg			0.031	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Beta activity	1.98	pCi/g	0.25	J	0.737	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	73	ug/kg		BJ	45	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Bromodichloromethane	0.18	ug/kg		U	0.18	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Bromoform	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Bromomethane	0.46	ug/kg		U	0.46	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Bromomethane	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Cadmium	0.039	mg/kg		U	0.039	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Calcium	1000	mg/kg			13	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Carbazole	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Carbon disulfide	0.35	ug/kg		U	0.35	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Carbon tetrachloride	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-21-12.0	GTEC	Cation Exchange Capacity	0.128	meq/g			0.00133	10	12	SOIL	FR	SPS		6/9/2011
WD-PZ05	WDPZ05-08-12.0	GTEC	Cation Exchange Capacity	0.136	meq/g			0.00134	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Cesium-137	-0.0525	pCi/g	0.0561	U	0.147	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Chlorobenzene	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Chloroethane	0.82	ug/kg		U	0.82	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Chloroethane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Chloroform	0.27	ug/kg		U	0.27	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Chloroform	0.24	ug/kg		U	0.24	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Chloromethane	0.71	ug/kg		U	0.71	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Chloromethane	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Chromium	19	mg/kg			0.055	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	cis-1,2-Dichloroethene	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Cobalt	5.6	mg/kg			0.095	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Copper	27	mg/kg			0.21	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Dibromochloromethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Dibromomethane	0.78	ug/kg		U	0.78	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Dibromomethane	0.71	ug/kg		U	0.71	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Dichlorodifluoromethane	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-20-12.0	WETCHEM	Distribution coefficient, Kd, Tc-99	3.35	mL/g				10	12	SOIL	FR	SPS		6/9/2011
WD-PZ05	WDPZ05-06-12.0	WETCHEM	Distribution coefficient, Kd, Tc-99	4.88	mL/g				10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-20-12.0	WETCHEM	Distribution coefficient, Kd, Uranium	1.01	mL/g				10	12	SOIL	FR	SPS		6/9/2011
WD-PZ05	WDPZ05-06-12.0	WETCHEM	Distribution coefficient, Kd, Uranium	0.079	mL/g				10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Ethyl methacrylate	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Ethylbenzene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Fluoranthene	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ05	WDPZ05-16-12	VOA	Iodomethane	0.41	ug/kg		U	0.41	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Iodomethane	0.37	ug/kg		U	0.37	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Iron	26000	mg/kg			3.6	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Lead	11	mg/kg			0.26	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	M + P Xylene	0.96	ug/kg		U	0.96	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	M + P Xylene	0.87	ug/kg		U	0.87	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Magnesium	3000	mg/kg			3.5	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Manganese	94	mg/kg			0.095	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Mercury	0.032	mg/kg			0.0054	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Methylene chloride	0.84	ug/kg		J	0.69	10	12	SOIL	FR	SPS	J	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Methylene chloride	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Molybdenum	0.25	mg/kg		U	0.25	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Neptunium-237	0.00507	pCi/g	0.00439	U	0.0194	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Nickel	18	mg/kg			0.12	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Phenol	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Plutonium-238	-0.00257	pCi/g	-0.00363	U	0.0246	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Plutonium-239/240	0.0257	pCi/g	0.00852	U	0.0196	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Selenium	0.47	mg/kg			0.12	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Sodium	170	mg/kg		B	56	10	12	SOIL	REG	SPS	J	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Styrene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Styrene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Technetium-99	0.252	pCi/g	0.311	U	1.03	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Tetrachloroethene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Thallium	0.14	mg/kg			0.0032	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Thorium-228	1.45	pCi/g	0.0844	J	0.0466	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Thorium-230	1.03	pCi/g	0.0699	J	0.036	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Thorium-232	1.69	pCi/g	0.0895	J	0.0577	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Toluene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Toluene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	WETCHEM	Total Organic Carbon (TOC)	5.8	g/kg			1.7	10	12	SOIL	FR	SPS	=	6/9/2011
WD-PZ05	WDPZ05-01-12.0	WETCHEM	Total Organic Carbon (TOC)	3.6	g/kg		B	1.7	10	12	SOIL	REG	SPS	J	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Total Xylene	0.56	ug/kg		U	0.56	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Total Xylene	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	trans-1,2-Dichloroethene	0.33	ug/kg		U	0.33	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	trans-1,3-Dichloropropene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Trichloroethene	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Trichlorofluoromethane	0.96	ug/kg		U	0.96	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Trichlorofluoromethane	0.87	ug/kg		U	0.87	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Uranium	0.56	mg/kg			0.0014	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Uranium-233/234	0.927	pCi/g	0.0489	J	0.0196	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Uranium-235	0.0729	pCi/g	0.0155	J	0.0242	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Uranium-236	0	pCi/g	0.00403	U	0.0218	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-04-12.0	RADS	Uranium-238	0.857	pCi/g	0.0469	J	0.0245	10	12	SOIL	REG	SPS		6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Vanadium	31	mg/kg			0.09	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Vinyl acetate	0.99	ug/kg		U	0.99	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Vinyl acetate	0.9	ug/kg		U	0.9	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-16-12	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	FR	SPS	U	6/9/2011
WD-PZ05	WDPZ05-01-12.0	VOA	Vinyl chloride	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	6/9/2011
WD-PZ05	WDPZ05-03-12.0	METAL	Zinc	44	mg/kg			0.38	10	12	SOIL	REG	SPS	=	6/9/2011
WD-PZ05	WDPZ05-01-19.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	17	19.5	SOIL	REG	SPS	U	6/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ05	WDPZ05-01-19.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	2-Butanone	3.4	ug/kg		BJ	1.8	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2-Chlorophenol	19	ug/kg		U	19	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	3,3'-Dichlorobenzidine	83	ug/kg		U	83	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	4-Methylphenol	31	ug/kg		U	31	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	4-Nitrobenzenamine	67	ug/kg		U	67	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	4-Nitrophenol	90	ug/kg		U	90	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Acenaphthene	9.5	ug/kg		U	9.5	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Acetone	5.3	ug/kg		BJ	5.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Acrolein	20	ug/kg		U	20	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Alpha activity	3.54	pCi/g	0.373	J	0.616	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Aluminum	12000	mg/kg			1.6	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Americium-241	0.0452	pCi/g	0.0143	U	0.0427	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Aniline	120	ug/kg		U	120	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Antimony	0.38	mg/kg		U	0.38	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Arsenic	12	mg/kg			0.049	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Barium	27	mg/kg			0.076	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Benzaldehyde	62	ug/kg		U	62	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Benzene	0.46	ug/kg		U	0.46	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Benzenemethanol	9.3	ug/kg		U	9.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Benzoic acid	310	ug/kg		U	310	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Beryllium	0.8	mg/kg			0.033	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Beta activity	1.65	pCi/g	0.25	J	0.815	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	69	ug/kg		BJ	43	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Bromodichloromethane	0.81	ug/kg		J	0.22	17	19.5	SOIL	REG	SPS	J	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Bromoform	0.23	ug/kg		U	0.23	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Cadmium	0.041	mg/kg		U	0.041	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Calcium	860	mg/kg			14	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Carbazole	33	ug/kg		U	33	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-08-19.5	GTEC	Cation Exchange Capacity	0.109	meq/g			0.00134	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Cesium-137	-0.0435	pCi/g	0.067	U	0.18	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Chloroform	2.1	ug/kg		J	0.29	17	19.5	SOIL	REG	SPS	J	6/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ05	WDPZ05-01-19.5	VOA	Chloromethane	0.76	ug/kg		U	0.76	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Chromium	16	mg/kg			0.058	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Chrysene	25	ug/kg		U	25	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Cobalt	14	mg/kg			0.1	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Copper	27	mg/kg			0.22	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Dibenzofuran	19	ug/kg		U	19	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Dibromomethane	0.83	ug/kg		U	0.83	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Dimethyl phthalate	21	ug/kg		U	21	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Diphenyldiazene	20	ug/kg		U	20	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-06-19.5	WETCHEM	Distribution coefficient, Kd, Tc-99	4.55	mL/g				17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-06-19.5	WETCHEM	Distribution coefficient, Kd, Uranium	0.884	mL/g				17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Fluoranthene	33	ug/kg		U	33	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Hexachloroethane	20	ug/kg		U	20	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Iron	30000	mg/kg			3.8	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Lead	14	mg/kg			0.27	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	M + P Xylene	1	ug/kg		U	1	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Magnesium	3300	mg/kg			3.7	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Manganese	290	mg/kg			0.1	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Mercury	0.021	mg/kg			0.0054	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Methylene chloride	0.85	ug/kg		J	0.74	17	19.5	SOIL	REG	SPS	J	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Molybdenum	0.26	mg/kg		U	0.26	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Naphthalene	29	ug/kg		U	29	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Neptunium-237	0	pCi/g	0.00461	U	0.0284	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Nickel	29	mg/kg			0.12	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Nitrobenzene	20	ug/kg		U	20	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Phenol	17	ug/kg		U	17	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Plutonium-238	0	pCi/g	0.00369	U	0.02	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Plutonium-239/240	0.013	pCi/g	0.0069	U	0.025	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Pyrene	11	ug/kg		U	11	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Selenium	0.66	mg/kg			0.13	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Silver	0.16	mg/kg		U	0.16	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Sodium	140	mg/kg		B	59	17	19.5	SOIL	REG	SPS	J	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Styrene	0.62	ug/kg		U	0.62	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Technetium-99	0.247	pCi/g	0.304	U	1.01	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Thallium	0.16	mg/kg			0.0034	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Thorium-228	1.45	pCi/g	0.0717	J	0.0504	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Thorium-230	1.19	pCi/g	0.0643	J	0.0599	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Thorium-232	1.53	pCi/g	0.073	J	0.0689	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Toluene	0.68	ug/kg		U	0.68	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	WETCHEM	Total Organic Carbon (TOC)	4	g/kg			1.7	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Uranium	0.53	mg/kg			0.0015	17	19.5	SOIL	REG	SPS	=	6/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ05	WDPZ05-04-19.5	RADS	Uranium-233/234	0.72	pCi/g	0.0406	J	0.0174	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Uranium-235	0.0534	pCi/g	0.0126	J	0.0215	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Uranium-236	0.0177	pCi/g	0.00757	U	0.0242	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-04-19.5	RADS	Uranium-238	0.737	pCi/g	0.041	J	0.0217	17	19.5	SOIL	REG	SPS		6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Vanadium	23	mg/kg			0.094	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-01-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	17	19.5	SOIL	REG	SPS	U	6/10/2011
WD-PZ05	WDPZ05-03-19.5	METAL	Zinc	67	mg/kg			0.4	17	19.5	SOIL	REG	SPS	=	6/10/2011
WD-PZ06	WDPZ06-30-2.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	1,2,4-Trichlorobenzene	44	ug/kg		U	44	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	1,2-Dichlorobenzene	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	1,3-Dichlorobenzene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	1,4-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	220	ug/kg		U	220	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2,4,5-Trichlorophenol	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2,4,6-Trichlorophenol	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2,4-Dichlorophenol	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2,4-Dimethylphenol	100	ug/kg		U	100	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2,4-Dinitrophenol	520	ug/kg		U	520	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2,4-Dinitrotoluene	100	ug/kg		U	100	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2,6-Dinitrotoluene	44	ug/kg		U	44	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2-Chloronaphthalene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2-Chlorophenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	520	ug/kg		U	520	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2-Methylnaphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2-Methylphenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2-Nitrobenzenamine	79	ug/kg		U	79	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	2-Nitrophenol	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	3,3'-Dichlorobenzidine	140	ug/kg		U	140	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	3-Nitrobenzenamine	110	ug/kg		U	110	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	4-Bromophenyl phenyl ether	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	4-Chloro-3-methylphenol	100	ug/kg		U	100	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	4-Chlorobenzenamine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	4-Chlorophenyl phenyl ether	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	4-Methylphenol	52	ug/kg		U	52	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	4-Nitrobenzenamine	110	ug/kg		U	110	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	4-Nitrophenol	150	ug/kg		U	150	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Acenaphthene	58	ug/kg		J	16	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Acenaphthylene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Acetone	5.3	ug/kg		U	5.3	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Acrolein	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Alpha activity	11.6	pCi/g	0.717		1.54	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Aluminum	14000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Americium-241	0.00899	pCi/g	0.00551	U	0.0215	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Aniline	200	ug/kg		U	200	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Anthracene	140	ug/kg		J	27	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Antimony	0.35	mg/kg		U	0.35	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Arsenic	12	mg/kg			0.043	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Barium	69	mg/kg			0.07	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Benz(a)anthracene	270	ug/kg		J	31	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Benzaldehyde	110	ug/kg		U	110	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Benzene	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Benzenemethanol	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Benzo(a)pyrene	220	ug/kg		J	31	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Benzo(b)fluoranthene	400	ug/kg		J	41	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Benzo(ghi)perylene	150	ug/kg		J	25	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Benzo(k)fluoranthene	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Benzoic acid	520	ug/kg		U	520	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Beryllium	0.49	mg/kg			0.03	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Beta activity	9.1	pCi/g	0.501		1.67	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Bis(2-chloroethoxy)methane	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Bis(2-chloroethyl) ether	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	130	ug/kg		BJ	72	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	6/3/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ06	WDPZ06-30-2.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Butyl benzyl phthalate	68	ug/kg		U	68	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Cadmium	0.038	mg/kg		U	0.038	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Calcium	1400	mg/kg			13	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Carbazole	99	ug/kg		J	57	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Cesium-137	0.00115	pCi/g	0.0451	U	0.131	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Chromium	18	mg/kg			0.053	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Chrysene	270	ug/kg		J	42	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Cobalt	4.2	mg/kg			0.092	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Copper	13	mg/kg			0.2	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Dibenz(a,h)anthracene	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Dibenzofuran	45	ug/kg		J	31	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Dibromomethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Diethyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Dimethyl phthalate	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Di-n-butyl phthalate	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Di-n-octylphthalate	100	ug/kg		J	23	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Diphenyldiazene	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Fluoranthene	760	ug/kg			57	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Fluorene	62	ug/kg		J	28	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Hexachlorobenzene	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Hexachlorobutadiene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Hexachlorocyclopentadiene	79	ug/kg		U	79	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Hexachloroethane	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	120	ug/kg		J	35	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Iodomethane	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Iron	26000	mg/kg			3.5	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Isophorone	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Lead	11	mg/kg			0.25	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Magnesium	1600	mg/kg			3.4	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Manganese	66	mg/kg			0.092	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Mercury	0.02	mg/kg			0.0051	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Methylene chloride	1.9	ug/kg		BJ	0.74	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Molybdenum	1.4	mg/kg		B	0.24	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Naphthalene	49	ug/kg		U	49	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Neptunium-237	0	pCi/g	0.00329	U	0.0178	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Nickel	11	mg/kg			0.11	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Nitrobenzene	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	N-Nitrosodimethylamine	58	ug/kg		U	58	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	N-Nitroso-di-n-propylamine	49	ug/kg		U	49	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	N-Nitrosodiphenylamine	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	PPCB	PCB-1260	0.0025	mg/kg		*U	0.0025	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Pentachlorophenol	520	ug/kg		U	520	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Phenanthrene	660	ug/kg			27	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Phenol	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Plutonium-238	0.00608	pCi/g	0.00405	U	0.0155	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Plutonium-239/240	0.00203	pCi/g	0.00286	U	0.0155	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Pyrene	590	ug/kg			19	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-2.0	SVOA	Pyridine	200	ug/kg		U	200	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Selenium	0.83	mg/kg			0.11	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Sodium	64	mg/kg		B	54	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Styrene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Technetium-99	-0.0595	pCi/g	0.264	U	0.889	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Thallium	0.22	mg/kg			0.003	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Thorium-228	1.15	pCi/g	0.0567	J	0.0213	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Thorium-230	1.57	pCi/g	0.0656	J	0.0209	0	2	SOIL	REG	SPS	J	6/3/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ06	WDPZ06-04-2.0	RADS	Thorium-232	0.971	pCi/g	0.0516	J	0.0261	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Toluene	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Uranium	0.94	mg/kg			0.0013	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Uranium-233/234	0.743	pCi/g	0.0375	J	0.0144	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Uranium-235	0.0535	pCi/g	0.0114	J	0.0178	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Uranium-236	0.00418	pCi/g	0.00362	U	0.016	0	2	SOIL	REG	SPS	UJ	6/3/2011
WD-PZ06	WDPZ06-04-2.0	RADS	Uranium-238	0.71	pCi/g	0.0366	J	0.0144	0	2	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Vanadium	37	mg/kg			0.086	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-2.0	METAL	Zinc	37	mg/kg			0.37	0	2	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	1,1,2-Trichloroethane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	1,1-Dichloroethene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	1,2,3-Trichloropropane	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	1,2-Dichloroethane	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	2-Hexanone	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Acetone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Acrolein	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Alpha activity	8.77	pCi/g	0.678		1.75	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Aluminum	14000	mg/kg			1.3	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Americium-241	0.00814	pCi/g	0.00543	U	0.0208	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Antimony	0.32	mg/kg		U	0.32	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Arsenic	14	mg/kg			0.043	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Barium	55	mg/kg			0.065	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Benzaldehyde	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Benzene	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/3/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ06	WDPZ06-02-4.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Beryllium	0.61	mg/kg			0.028	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Beta activity	9.98	pCi/g	0.515		1.71	2.5	4.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	79	ug/kg		BJ	46	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Bromoform	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Bromomethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Cadmium	0.035	mg/kg		U	0.035	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Calcium	420	mg/kg			12	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Cesium-137	0.108	pCi/g	0.0427	U	0.16	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Chloroethane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Chloroform	0.26	ug/kg		U	0.26	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Chloromethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Chromium	19	mg/kg			0.05	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	cis-1,2-Dichloroethene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Cobalt	6.3	mg/kg			0.085	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Copper	21	mg/kg			0.19	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Dibromochloromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Dibromomethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Diethyl phthalate	27	ug/kg		BJ	26	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Ethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Iodomethane	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Iron	25000	mg/kg			3.2	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Lead	13	mg/kg			0.23	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	M + P Xylene	0.93	ug/kg		U	0.93	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Magnesium	2100	mg/kg			3.2	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Manganese	45	mg/kg			0.085	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Mercury	0.017	mg/kg			0.0052	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Methylene chloride	1.4	ug/kg		BJ	0.67	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Molybdenum	0.96	mg/kg		B	0.22	2.5	4.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00359	U	0.0243	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Nickel	18	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		*U	0.0025	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Phenol	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Plutonium-238	0	pCi/g	0.00299	U	0.0162	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Plutonium-239/240	0.00846	pCi/g	0.00518	U	0.0202	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	6/3/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ06	WDPZ06-03-4.5	METAL	Selenium	1	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Sodium	97	mg/kg		B	50	2.5	4.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Styrene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Technetium-99	0.374	pCi/g	0.306	U	1.01	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Tetrachloroethene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Thallium	0.17	mg/kg			0.003	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Thorium-228	1.54	pCi/g	0.0688	J	0.0293	2.5	4.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Thorium-230	1.11	pCi/g	0.0579	J	0.023	2.5	4.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Thorium-232	1.42	pCi/g	0.0653	J	0.0287	2.5	4.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Toluene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Total Xylene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	trans-1,3-Dichloropropene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Trichlorofluoromethane	0.93	ug/kg		U	0.93	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Uranium	0.81	mg/kg			0.0013	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Uranium-233/234	0.834	pCi/g	0.0419	J	0.0161	2.5	4.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Uranium-235	0.0286	pCi/g	0.00899	U	0.0199	2.5	4.5	SOIL	REG	SPS	UJ	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Uranium-236	0.00699	pCi/g	0.00466	U	0.0178	2.5	4.5	SOIL	REG	SPS	UJ	6/3/2011
WD-PZ06	WDPZ06-04-4.5	RADS	Uranium-238	0.752	pCi/g	0.0398	J	0.016	2.5	4.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Vanadium	38	mg/kg			0.08	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Vinyl acetate	0.96	ug/kg		U	0.96	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-4.5	METAL	Zinc	45	mg/kg			0.34	2.5	4.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	1,1-Dichloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	1,2,3-Trichloropropane	0.73	ug/kg		U	0.73	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	1,2-Dichloroethane	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2,4,5-Trichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2,4,6-Trichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2,4-Dichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2-Chloronaphthalene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	2-Hexanone	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	2-Nitrophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	3,3'-Dichlorobenzidine	90	ug/kg		U	90	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	4-Chlorobenzenamine	82	ug/kg		U	82	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	4-Nitrobenzenamine	73	ug/kg		U	73	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	4-Nitrophenol	97	ug/kg		U	97	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Acetone	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Benzaldehyde	67	ug/kg		U	67	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Benzene	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Benzenemethanol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	6/3/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ06	WDPZ06-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Bis(2-chloroethyl) ether	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	80	ug/kg		BJ	46	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Bromomethane	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Chloroethane	0.81	ug/kg		U	0.81	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Chloroform	0.26	ug/kg		U	0.26	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Chloromethane	0.7	ug/kg		U	0.7	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Dibromomethane	0.76	ug/kg		U	0.76	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Hexachlorobutadiene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Iodomethane	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	M + P Xylene	0.94	ug/kg		U	0.94	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Methylene chloride	1.2	ug/kg		BJ	0.68	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		*U	0.0026	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Phenol	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Styrene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Tetrachloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Toluene	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Total Xylene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Trichlorofluoromethane	0.94	ug/kg		U	0.94	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Alpha activity	8	pCi/g	0.662		1.8	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Aluminum	12000	mg/kg			1.5	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Americium-241	0.0304	pCi/g	0.0101	U	0.0233	12.5	14.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Antimony	0.36	mg/kg		U	0.36	12.5	14.5	SOIL	REG	SPS	UJ	6/3/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ06	WDPZ06-03-12.0	METAL	Arsenic	13	mg/kg			0.046	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Barium	42	mg/kg			0.072	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Beryllium	0.81	mg/kg			0.031	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Beta activity	13	pCi/g	0.586		1.81	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Cadmium	0.039	mg/kg		U	0.039	12.5	14.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Calcium	1300	mg/kg			13	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Cesium-137	-0.107	pCi/g	0.0596	U	0.14	12.5	14.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Chromium	18	mg/kg			0.055	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Cobalt	8.2	mg/kg			0.094	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Copper	18	mg/kg			0.2	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Iron	31000	mg/kg			3.6	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Lead	9.6	mg/kg			0.25	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Magnesium	2600	mg/kg			3.5	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Manganese	180	mg/kg			0.094	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Mercury	0.04	mg/kg			0.0055	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Molybdenum	0.44	mg/kg		B	0.25	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Neptunium-237	0.00298	pCi/g	0.00516	U	0.0285	12.5	14.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Nickel	26	mg/kg			0.12	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Plutonium-238	0.00246	pCi/g	0.00348	U	0.0188	12.5	14.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Plutonium-239/240	0	pCi/g	0.00348	U	0.0236	12.5	14.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Selenium	0.64	mg/kg			0.12	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Silver	0.15	mg/kg		U	0.15	12.5	14.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Sodium	150	mg/kg		B	56	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Technetium-99	0.198	pCi/g	0.278	U	0.926	12.5	14.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Thallium	0.26	mg/kg			0.0032	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Thorium-228	1.53	pCi/g	0.0777	J	0.048	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Thorium-230	1.07	pCi/g	0.0642	J	0.0366	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Thorium-232	1.48	pCi/g	0.0753	J	0.0292	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Uranium	0.5	mg/kg			0.0014	12.5	14.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Uranium-233/234	0.957	pCi/g	0.046	J	0.0169	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Uranium-235	0.0491	pCi/g	0.0119	J	0.0209	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Uranium-236	0.0122	pCi/g	0.006	U	0.0187	12.5	14.5	SOIL	REG	SPS	UJ	6/3/2011
WD-PZ06	WDPZ06-04-12.0	RADS	Uranium-238	0.834	pCi/g	0.0429	J	0.0168	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Vanadium	35	mg/kg			0.089	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-12.0	METAL	Zinc	73	mg/kg			0.38	12.5	14.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	1,1,2-Trichloroethane	0.81	ug/kg		U	0.81	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	1,4-Dichlorobenzene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2,4,5-Trichlorophenol	9.1	ug/kg		U	9.1	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2,4,6-Trichlorophenol	9.1	ug/kg		U	9.1	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2,4-Dichlorophenol	9.1	ug/kg		U	9.1	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2,4-Dimethylphenol	60	ug/kg		U	60	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2,4-Dinitrophenol	300	ug/kg		U	300	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2,4-Dinitrotoluene	60	ug/kg		U	60	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2-Chloronaphthalene	9.1	ug/kg		U	9.1	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2-Chlorophenol	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	2-Hexanone	4.5	ug/kg		U	4.5	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	300	ug/kg		U	300	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2-Methylnaphthalene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	2-Nitrophenol	9.1	ug/kg		U	9.1	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	3,3'-Dichlorobenzidine	82	ug/kg		U	82	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	3-Nitrobenzenamine	67	ug/kg		U	67	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	4-Bromophenyl phenyl ether	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	4-Chloro-3-methylphenol	60	ug/kg		U	60	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	4-Chlorobenzenamine	75	ug/kg		U	75	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	4-Methylphenol	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	4-Nitrobenzenamine	66	ug/kg		U	66	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	4-Nitrophenol	88	ug/kg		U	88	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Acenaphthene	9.4	ug/kg		U	9.4	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/3/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ06	WDPZ06-30-19.5	VOA	Acetone	5	ug/kg		U	5	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Acrolein	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Aniline	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Benz(a)anthracene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Benzaldehyde	61	ug/kg		U	61	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Benzene	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Benzenemethanol	9.1	ug/kg		U	9.1	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Benzo(a)pyrene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Benzo(k)fluoranthene	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Benzoic acid	300	ug/kg		U	300	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	72	ug/kg		BJ	42	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Bromoform	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Bromomethane	0.46	ug/kg		U	0.46	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Butyl benzyl phthalate	39	ug/kg		U	39	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Carbazole	33	ug/kg		U	33	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Chloroethane	0.82	ug/kg		U	0.82	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Chloroform	0.27	ug/kg		U	0.27	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Chloromethane	0.71	ug/kg		U	0.71	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Chrysene	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Dibenz(a,h)anthracene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Dibenzofuran	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Dibromomethane	0.78	ug/kg		U	0.78	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Dimethyl phthalate	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Di-n-butyl phthalate	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Diphenyldiazene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Fluoranthene	33	ug/kg		U	33	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Fluorene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Hexachlorobenzene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Hexachlorobutadiene	9.1	ug/kg		U	9.1	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Hexachloroethane	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Iodomethane	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	M + P Xylene	0.96	ug/kg		U	0.96	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Methylene chloride	1.3	ug/kg		BJ	0.69	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Naphthalene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Nitrobenzene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	N-Nitroso-di-n-propylamine	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		*U	0.0026	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Pentachlorophenol	300	ug/kg		U	300	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Phenol	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Pyrene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Styrene	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Toluene	0.64	ug/kg		U	0.64	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Total Xylene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	17.5	19.5	SOIL	REG	SPS	U	6/3/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ06	WDPZ06-30-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Trichlorofluoromethane	0.96	ug/kg		U	0.96	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Vinyl acetate	0.99	ug/kg		U	0.99	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-19.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Alpha activity	6.29	pCi/g	0.594		1.77	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Aluminum	12000	mg/kg			1.4	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Americium-241	0.0153	pCi/g	0.00751	U	0.0235	20	22.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Antimony	0.34	mg/kg		U	0.34	20	22.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Arsenic	9	mg/kg			0.045	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Barium	41	mg/kg			0.068	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Beryllium	0.79	mg/kg			0.03	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Beta activity	16	pCi/g	0.632		1.82	20	22.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Cadmium	0.037	mg/kg		U	0.037	20	22.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Calcium	1200	mg/kg			13	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Cesium-137	0.0564	pCi/g	0.0503	U	0.16	20	22.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Chromium	18	mg/kg			0.052	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Cobalt	8.4	mg/kg			0.09	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Copper	21	mg/kg			0.2	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Iron	23000	mg/kg			3.4	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Lead	13	mg/kg			0.24	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Magnesium	2900	mg/kg			3.3	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Manganese	170	mg/kg			0.09	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Mercury	0.018	mg/kg			0.0054	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Molybdenum	0.23	mg/kg		U	0.23	20	22.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Neptunium-237	0.0034	pCi/g	0.00481	U	0.026	20	22.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Nickel	27	mg/kg			0.11	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Plutonium-238	0	pCi/g	0.00372	U	0.0252	20	22.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Plutonium-239/240	0.0131	pCi/g	0.00695	U	0.0251	20	22.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Selenium	0.93	mg/kg			0.12	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Silver	0.14	mg/kg		U	0.14	20	22.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Sodium	150	mg/kg		B	53	20	22.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Technetium-99	-0.162	pCi/g	0.28	U	0.949	20	22.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Thallium	0.16	mg/kg			0.0031	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Thorium-228	1.56	pCi/g	0.084	J	0.0551	20	22.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Thorium-230	1.24	pCi/g	0.074	J	0.0336	20	22.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Thorium-232	1.43	pCi/g	0.0794	J	0.042	20	22.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Uranium	0.63	mg/kg			0.0014	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Uranium-233/234	1.01	pCi/g	0.0536	J	0.027	20	22.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Uranium-235	0.0626	pCi/g	0.0155	J	0.0333	20	22.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Uranium-236	0.0187	pCi/g	0.00826	U	0.0239	20	22.5	SOIL	REG	SPS	UJ	6/3/2011
WD-PZ06	WDPZ06-04-19.5	RADS	Uranium-238	1.05	pCi/g	0.0545	J	0.0215	20	22.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Vanadium	32	mg/kg			0.085	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-19.5	METAL	Zinc	72	mg/kg			0.36	20	22.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2-Methylphenol	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	6/3/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ06	WDPZ06-02-24.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	4-Methylphenol	33	ug/kg		U	33	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Acenaphthene	10	ug/kg		U	10	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Acenaphthylene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Acetone	5.3	ug/kg		U	5.3	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Acrolein	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Alpha activity	9.24	pCi/g	0.759		2.03	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Aluminum	11000	mg/kg			1.4	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Americium-241	0.0135	pCi/g	0.0066	U	0.0206	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Aniline	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Anthracene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Antimony	0.36	mg/kg		U	0.36	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Arsenic	18	mg/kg			0.046	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Barium	44	mg/kg			0.071	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Benzaldehyde	67	ug/kg		U	67	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Benzene	0.47	ug/kg		U	0.47	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Benzoic acid	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Beryllium	1.5	mg/kg			0.031	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Beta activity	11.2	pCi/g	0.549		1.77	22.5	24.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Bis(2-ethylhexyl)phthalate	85	ug/kg		BJ	46	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Bromoform	0.23	ug/kg		U	0.23	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Cadmium	0.038	mg/kg		U	0.038	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Calcium	760	mg/kg			13	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Carbazole	36	ug/kg		U	36	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Cesium-137	-0.00123	pCi/g	0.0545	U	0.157	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Chloroethane	0.88	ug/kg		U	0.88	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Chloroform	0.29	ug/kg		U	0.29	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Chloromethane	0.76	ug/kg		U	0.76	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Chromium	17	mg/kg			0.054	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Chrysene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Cobalt	5.8	mg/kg			0.093	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Copper	19	mg/kg			0.2	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Dibenzofuran	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Dibromomethane	0.83	ug/kg		U	0.83	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Fluoranthene	36	ug/kg		U	36	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Fluorene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Hexachloroethane	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Iron	49000	mg/kg			3.6	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Isophorone	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Lead	9.4	mg/kg			0.25	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	M + P Xylene	1	ug/kg		U	1	22.5	24.5	SOIL	REG	SPS	U	6/3/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ06	WDPZ06-03-24.5	METAL	Magnesium	2300	mg/kg			3.5	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Manganese	170	mg/kg			0.093	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Mercury	0.042	mg/kg			0.005	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Methylene chloride	1.4	ug/kg		BJ	0.74	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Molybdenum	0.24	mg/kg		U	0.24	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Naphthalene	31	ug/kg		U	31	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Neptunium-237	0	pCi/g	0.00398	U	0.0215	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Nickel	42	mg/kg			0.11	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Nitrobenzene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	PPCB	PCB-1221	0.016	mg/kg		U	0.016	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	PPCB	PCB-1260	0.0026	mg/kg		*U	0.0026	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Phenanthrene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Phenol	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Plutonium-238	0.0022	pCi/g	0.00382	U	0.0211	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Plutonium-239/240	0.0044	pCi/g	0.0044	U	0.0211	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Pyrene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-02-24.5	SVOA	Pyridine	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Selenium	1	mg/kg			0.12	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Silver	0.15	mg/kg		U	0.15	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Sodium	130	mg/kg		B	55	22.5	24.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Styrene	0.62	ug/kg		U	0.62	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Technetium-99	0.00193	pCi/g	0.266	U	0.893	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Thallium	0.14	mg/kg			0.0032	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Thorium-228	1.18	pCi/g	0.0643	J	0.0494	22.5	24.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Thorium-230	1.29	pCi/g	0.0659	J	0.0257	22.5	24.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Thorium-232	1.2	pCi/g	0.0636	J	0.0322	22.5	24.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Toluene	0.68	ug/kg		U	0.68	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Uranium	1.1	mg/kg			0.0014	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Uranium-233/234	1.01	pCi/g	0.0457	J	0.0157	22.5	24.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Uranium-235	0.0431	pCi/g	0.0108	J	0.0194	22.5	24.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Uranium-236	0.00228	pCi/g	0.00395	U	0.0218	22.5	24.5	SOIL	REG	SPS	UJ	6/3/2011
WD-PZ06	WDPZ06-04-24.5	RADS	Uranium-238	0.868	pCi/g	0.0422	J	0.0157	22.5	24.5	SOIL	REG	SPS	J	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Vanadium	34	mg/kg			0.088	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-30-24.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	22.5	24.5	SOIL	REG	SPS	U	6/3/2011
WD-PZ06	WDPZ06-03-24.5	METAL	Zinc	83	mg/kg			0.37	22.5	24.5	SOIL	REG	SPS	=	6/3/2011
WD-PZ07	WDPZ07-31-2.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-17-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	4-Methylphenol	32	ug/kg		U	32	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	4-Nitrophenol	90	ug/kg		U	90	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	4-Nitrophenol	94	ug/kg		U	94	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Acenaphthene	9.6	ug/kg		U	9.6	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Acetone	5	ug/kg		U	5	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Acetone	5.4	ug/kg		U	5.4	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Acrolein	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Alpha activity	5.34	pCi/g	0.553		1.83	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Aluminum	7400	mg/kg			1.4	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Americium-241	0.0153	pCi/g	0.00804	U	0.0313	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Antimony	0.33	mg/kg		U	0.33	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Arsenic	8	mg/kg			0.044	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Barium	48	mg/kg			0.067	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	FR	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Benzaldehyde	62	ug/kg		U	62	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Benzaldehyde	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Benzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Benzenemethanol	9.3	ug/kg		U	9.3	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Benzenemethanol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Benzoic acid	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Beryllium	0.36	mg/kg		B	0.029	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Beta activity	13.5	pCi/g	0.62		1.99	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Bis(2-ethylhexyl)phthalate	65	ug/kg		BJ	43	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	69	ug/kg		BJ	44	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Cadmium	0.062	mg/kg		B	0.036	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Calcium	1400	mg/kg			12	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Carbazole	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Cesium-137	0.0204	pCi/g	0.0478	U	0.144	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Chloroethane	0.89	ug/kg		U	0.89	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Chloromethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Chromium	11	mg/kg			0.051	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Chrysene	25	ug/kg		U	25	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Cobalt	4.8	mg/kg			0.088	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Copper	6.1	mg/kg			0.19	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Dibromomethane	0.79	ug/kg		U	0.79	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Dibromomethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Diethyl phthalate	30	ug/kg		BJ	25	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-17-2.0	SVOA	Diphenyldiazene	20	ug/kg		U	20	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Fluoranthene	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Iodomethane	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Iron	15000	mg/kg			3.3	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Lead	15	mg/kg			0.24	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Magnesium	910	mg/kg			3.2	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Manganese	350	mg/kg			0.088	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Mercury	0.031	mg/kg			0.005	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Methylene chloride	0.91	ug/kg		J	0.7	0	2	SOIL	FR	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Methylene chloride	1.5	ug/kg		J	0.75	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Molybdenum	0.83	mg/kg		B	0.23	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Neptunium-237	0.00525	pCi/g	0.00454	U	0.0201	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Nickel	6.7	mg/kg			0.11	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Nitrobenzene	20	ug/kg		U	20	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Phenol	17	ug/kg		U	17	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Phenol	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Plutonium-238	0.00248	pCi/g	0.00351	U	0.019	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Plutonium-239/240	0	pCi/g	0.00351	U	0.0237	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-17-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Selenium	0.97	mg/kg			0.12	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Sodium	72	mg/kg		B	52	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Styrene	0.59	ug/kg		U	0.59	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Styrene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-04-2.0	RADS	Technetium-99	0.293	pCi/g	0.303	U	1.01	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Thallium	0.16	mg/kg			0.0031	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Thorium-228	1.48	pCi/g	0.077	J	0.0832	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Thorium-230	1.12	pCi/g	0.065	J	0.0358	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Thorium-232	1.4	pCi/g	0.0723	J	0.0286	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Toluene	0.65	ug/kg		U	0.65	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Toluene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Total Xylene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Uranium	0.63	mg/kg			0.0014	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Uranium-233/234	0.646	pCi/g	0.0417	J	0.0205	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Uranium-235	0.00661	pCi/g	0.00573	U	0.0253	0	2	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Uranium-236	0.00594	pCi/g	0.00514	U	0.0227	0	2	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-2.0	RADS	Uranium-238	0.59	pCi/g	0.0398	J	0.0204	0	2	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Vanadium	21	mg/kg			0.082	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-31-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	FR	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-2.0	METAL	Zinc	28	mg/kg			0.35	0	2	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	1,1,2-Trichloroethane	0.78	ug/kg		U	0.78	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	1,2,3-Trichloropropane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	1,2-Dichloroethane	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Acetone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Acrolein	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-04-4.5	RADS	Alpha activity	9.48	pCi/g	0.731		1.85	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Aluminum	14000	mg/kg			1.3	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Americium-241	0.0182	pCi/g	0.00937	U	0.0374	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Antimony	0.33	mg/kg		U	0.33	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Arsenic	15	mg/kg			0.048	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Barium	73	mg/kg			0.066	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Benzaldehyde	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Benzene	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Beryllium	0.71	mg/kg			0.029	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Beta activity	12.4	pCi/g	0.596		1.89	2.5	4.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	72	ug/kg		BJ	46	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Cadmium	0.036	mg/kg		U	0.036	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Calcium	130	mg/kg			12	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Cesium-137	0.0607	pCi/g	0.0796	U	0.248	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Chloroethane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Chloroform	0.26	ug/kg		U	0.26	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Chloromethane	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Chromium	18	mg/kg			0.05	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	cis-1,2-Dichloroethene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Cobalt	5.8	mg/kg			0.087	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Copper	21	mg/kg			0.19	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Dibromomethane	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Iodomethane	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Iron	23000	mg/kg			3.3	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Lead	13	mg/kg			0.23	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	M + P Xylene	0.92	ug/kg		U	0.92	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Magnesium	2400	mg/kg			3.2	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Manganese	75	mg/kg			0.087	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Mercury	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Methylene chloride	1.3	ug/kg		J	0.66	2.5	4.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Molybdenum	0.23	mg/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00468	U	0.0288	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Nickel	24	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-02-4.5	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	PPCB	PCB-1242	0.0085	mg/kg		U	0.0085	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	PPCB	PCB-1248	0.0052	mg/kg		U	0.0052	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Phenol	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Plutonium-238	0	pCi/g	0.00435	U	0.0235	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Plutonium-239/240	0.0123	pCi/g	0.00686	U	0.0235	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Selenium	0.69	mg/kg			0.13	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Sodium	110	mg/kg		B	51	2.5	4.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Styrene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Technetium-99	0.241	pCi/g	0.293	U	0.974	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Thallium	0.15	mg/kg			0.0033	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Thorium-228	1.31	pCi/g	0.0693	J	0.076	2.5	4.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Thorium-230	1.07	pCi/g	0.0605	J	0.0262	2.5	4.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Thorium-232	1.37	pCi/g	0.0686	J	0.042	2.5	4.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Toluene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Total Xylene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Trichlorofluoromethane	0.92	ug/kg		U	0.92	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Uranium	0.71	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Uranium-233/234	0.798	pCi/g	0.051	J	0.0309	2.5	4.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Uranium-235	0.0319	pCi/g	0.012	U	0.0305	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Uranium-236	0.0107	pCi/g	0.00716	U	0.0274	2.5	4.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-4.5	RADS	Uranium-238	0.788	pCi/g	0.0508	J	0.0396	2.5	4.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Vanadium	31	mg/kg			0.082	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Vinyl acetate	0.95	ug/kg		U	0.95	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-4.5	METAL	Zinc	85	mg/kg			0.35	2.5	4.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	1,2,3-Trichloropropane	0.77	ug/kg		U	0.77	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	1,2-Dichloroethane	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-30-12.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	4-Methylphenol	32	ug/kg		U	32	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	4-Nitrophenol	94	ug/kg		U	94	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Acetone	5.1	ug/kg		U	5.1	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Alpha activity	8.33	pCi/g	0.666		1.78	10	12	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Aluminum	26000	mg/kg			71	10	12	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Americium-241	0.0651	pCi/g	0.0158	J	0.0277	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Antimony	17	mg/kg		U	17	10	12	SOIL	REG	SPS	R	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Arsenic	31	mg/kg			0.047	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Barium	200	mg/kg			3.5	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Benzaldehyde	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Benzene	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Benzoic acid	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Beryllium	2.7	mg/kg		B	1.5	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Beta activity	11.2	pCi/g	0.56		1.84	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	75	ug/kg		BJ	45	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Bromoform	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Bromomethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Cadmium	1.9	mg/kg		U	1.9	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Calcium	44000	mg/kg			650	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Carbazole	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Cesium-137	0.05	pCi/g	0.0415	U	0.132	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Chloroethane	0.85	ug/kg		U	0.85	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Chloromethane	0.73	ug/kg		U	0.73	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Chromium	26	mg/kg		B	2.7	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Cobalt	33	mg/kg		B	4.6	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Copper	17	mg/kg		B	10	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Dibromomethane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Diethyl phthalate	35	ug/kg		BJ	25	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Fluoranthene	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Iron	29000	mg/kg			170	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Lead	32	mg/kg		B	12	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	M + P Xylene	0.99	ug/kg		U	0.99	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Magnesium	3500	mg/kg			170	10	12	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Manganese	370	mg/kg			4.6	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Mercury	0.015	mg/kg		B	0.0054	10	12	SOIL	REG	SPS	J	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-30-12.0	VOA	Methylene chloride	1.2	ug/kg		J	0.71	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Molybdenum	12	mg/kg		U	12	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Neptunium-237	-0.00281	pCi/g	0.00397	U	0.0269	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Nickel	38	mg/kg		B	5.6	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	PPCB	PCB-1221	0.016	mg/kg		U	0.016	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Phenol	17	ug/kg		U	17	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Plutonium-238	0	pCi/g	0.00471	U	0.0254	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Plutonium-239/240	0.00332	pCi/g	0.0047	U	0.0254	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Selenium	24	mg/kg			0.12	10	12	SOIL	REG	SPS	R	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Silver	7.3	mg/kg		U	7.3	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Sodium	2700	mg/kg		U	2700	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Styrene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Technetium-99	0.216	pCi/g	0.304	U	1.01	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Thallium	0.21	mg/kg			0.0032	10	12	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Thorium-228	1.66	pCi/g	0.0728	J	0.0508	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Thorium-230	0.948	pCi/g	0.0549	J	0.0584	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Thorium-232	1.41	pCi/g	0.0658	J	0.0234	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Toluene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Total Xylene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Trichlorofluoromethane	0.99	ug/kg		U	0.99	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Uranium	2.3	mg/kg			0.0015	10	12	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Uranium-233/234	0.935	pCi/g	0.0603	J	0.037	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Uranium-235	0.0762	pCi/g	0.0196	J	0.0365	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Uranium-236	0.00428	pCi/g	0.00605	U	0.0327	10	12	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-12.0	RADS	Uranium-238	1.06	pCi/g	0.064	J	0.0294	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Vanadium	61	mg/kg		B	4.3	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-12.0	METAL	Zinc	140	mg/kg			18	10	12	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	1,2,3-Trichloropropane	0.7	ug/kg		U	0.7	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-02-19.5	SVOA	2-Methylphenol	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	4-Methylphenol	33	ug/kg		U	33	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Acenaphthene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Acenaphthylene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Acetone	4.7	ug/kg		U	4.7	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Acrolein	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Alpha activity	9.38	pCi/g	0.734		1.93	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Aluminum	12000	mg/kg			1.3	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Americium-241	0.0305	pCi/g	0.0122	U	0.0439	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Aniline	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Anthracene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Antimony	0.33	mg/kg		U	0.33	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Arsenic	17	mg/kg			0.047	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Barium	88	mg/kg			0.066	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Benzaldehyde	66	ug/kg		U	66	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Benzene	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Benzoic acid	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Beryllium	0.87	mg/kg			0.029	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Beta activity	14.4	pCi/g	0.622		1.85	17.5	19.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	69	ug/kg		BJ	45	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Bromoform	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Bromomethane	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Cadmium	0.036	mg/kg		U	0.036	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Calcium	690	mg/kg			12	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Carbazole	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Cesium-137	-0.0534	pCi/g	0.0806	U	0.215	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Chloroethane	0.77	ug/kg		U	0.77	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Chloroform	0.25	ug/kg		U	0.25	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Chloromethane	0.67	ug/kg		U	0.67	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Chromium	18	mg/kg			0.05	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Chrysene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Cobalt	14	mg/kg			0.087	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Copper	21	mg/kg			0.19	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Dibenzofuran	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Dibromomethane	0.73	ug/kg		U	0.73	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Diethyl phthalate	35	ug/kg		BJ	26	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Fluoranthene	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Fluorene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Hexachloroethane	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Iron	29000	mg/kg			3.3	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Isophorone	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Lead	17	mg/kg			0.23	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	M + P Xylene	0.9	ug/kg		U	0.9	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Magnesium	2800	mg/kg			3.2	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Manganese	270	mg/kg			0.087	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Mercury	0.0088	mg/kg		B	0.0052	17.5	19.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Methylene chloride	1.1	ug/kg		J	0.65	17.5	19.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Molybdenum	0.22	mg/kg		U	0.22	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Naphthalene	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Neptunium-237	-0.014	pCi/g	0.00738	U	0.0533	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Nickel	27	mg/kg			0.11	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Nitrobenzene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	PPCB	PCB-1016	0.0047	mg/kg		U	0.0047	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	PPCB	PCB-1221	0.014	mg/kg		U	0.014	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	PPCB	PCB-1232	0.0047	mg/kg		U	0.0047	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	PPCB	PCB-1242	0.0084	mg/kg		U	0.0084	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	PPCB	PCB-1248	0.0052	mg/kg		U	0.0052	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	PPCB	PCB-1254	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Phenanthrene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Phenol	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Plutonium-238	0	pCi/g	0.00399	U	0.0216	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Plutonium-239/240	0.00563	pCi/g	0.00488	U	0.0215	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-19.5	SVOA	Pyridine	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Selenium	0.72	mg/kg			0.12	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Silver	0.14	mg/kg		U	0.14	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Sodium	180	mg/kg		B	51	17.5	19.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Styrene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Technetium-99	-0.00217	pCi/g	0.299	U	1.01	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Thallium	0.15	mg/kg			0.0033	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Thorium-228	1.16	pCi/g	0.0602	J	0.0541	17.5	19.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Thorium-230	1.01	pCi/g	0.0549	J	0.0285	17.5	19.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Thorium-232	1.24	pCi/g	0.061	J	0.0427	17.5	19.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Toluene	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Total Xylene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Trichlorofluoromethane	0.9	ug/kg		U	0.9	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Uranium	0.6	mg/kg			0.0015	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Uranium-233/234	1.12	pCi/g	0.0595	J	0.0386	17.5	19.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Uranium-235	0.0232	pCi/g	0.0102	U	0.0296	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Uranium-236	0.0139	pCi/g	0.00777	U	0.0266	17.5	19.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-19.5	RADS	Uranium-238	1.02	pCi/g	0.0564	J	0.0239	17.5	19.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Vanadium	32	mg/kg			0.082	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Vinyl acetate	0.93	ug/kg		U	0.93	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-19.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-19.5	METAL	Zinc	85	mg/kg			0.35	17.5	19.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	1,1,1,2-Tetrachloroethane	0.58	ug/kg		U	0.58	22.5	24.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	1,1,1-Trichloroethane	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	1,1,2,2-Tetrachloroethane	0.63	ug/kg		U	0.63	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	1,1,2-Trichloroethane	0.91	ug/kg		U	0.91	22.5	24.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	1,1-Dichloroethane	0.22	ug/kg		U	0.22	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	1,1-Dichloroethene	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	1,2,3-Trichloropropane	0.83	ug/kg		U	0.83	22.5	24.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	1,2-Dichloroethane	0.72	ug/kg		U	0.72	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	1,2-Dichloropropane	0.57	ug/kg		U	0.57	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	1,2-Dimethylbenzene	0.63	ug/kg		U	0.63	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-02-24.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	2-Butanone	1.9	ug/kg		U	1.9	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	2-Chloroethyl vinyl ether	5.1	ug/kg		U	5.1	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	2-Hexanone	5	ug/kg		U	5	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2-Methylphenol	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	4-Methyl-2-pentanone	4.5	ug/kg		U	4.5	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	4-Methylphenol	33	ug/kg		U	33	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Acenaphthene	10	ug/kg		U	10	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Acenaphthylene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Acetone	5.5	ug/kg		U	5.5	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Acrolein	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Acrylonitrile	5	ug/kg		U	5	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Alpha activity	10.7	pCi/g	0.777		1.91	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Aluminum	13000	mg/kg			1.4	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Americium-241	0.00876	pCi/g	0.0105	U	0.0517	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Aniline	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Anthracene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Antimony	0.34	mg/kg		U	0.34	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Arsenic	23	mg/kg			0.045	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Barium	76	mg/kg			0.068	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Benzaldehyde	66	ug/kg		U	66	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Benzene	0.48	ug/kg		U	0.48	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Benzo(ghi)perylene	19	ug/kg		J	16	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Benzoic acid	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Beryllium	1	mg/kg			0.03	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Beta activity	17.5	pCi/g	0.695		1.94	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Bis(2-ethylhexyl)phthalate	73	ug/kg		BJ	45	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Bromodichloromethane	0.23	ug/kg		U	0.23	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Bromoform	0.24	ug/kg		U	0.24	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Bromomethane	0.51	ug/kg		U	0.51	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Cadmium	0.037	mg/kg		U	0.037	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Calcium	540	mg/kg			13	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Carbazole	36	ug/kg		U	36	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Carbon disulfide	0.43	ug/kg		U	0.43	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Carbon tetrachloride	0.65	ug/kg		U	0.65	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Cesium-137	-0.124	pCi/g	0.0599	U	0.138	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Chlorobenzene	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Chloroethane	0.92	ug/kg		U	0.92	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Chloroform	0.3	ug/kg		U	0.3	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Chloromethane	0.79	ug/kg		U	0.79	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Chromium	19	mg/kg			0.052	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Chrysene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	cis-1,2-Dichloroethene	0.58	ug/kg		U	0.58	22.5	24.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Cobalt	20	mg/kg			0.09	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Copper	22	mg/kg			0.2	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Dibenzofuran	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Dibromochloromethane	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Dibromomethane	0.86	ug/kg		U	0.86	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Dichlorodifluoromethane	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Diethyl phthalate	31	ug/kg		BJ	26	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	22.5	24.5	SOIL	REG	SPS	U	5/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ07	WDPZ07-02-24.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Ethyl methacrylate	0.62	ug/kg		U	0.62	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Ethylbenzene	0.69	ug/kg		U	0.69	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Fluoranthene	36	ug/kg		U	36	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Fluorene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Hexachloroethane	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Iodomethane	0.45	ug/kg		U	0.45	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Iron	43000	mg/kg			3.4	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Isophorone	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Lead	17	mg/kg			0.24	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	M + P Xylene	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Magnesium	3500	mg/kg			3.3	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Manganese	740	mg/kg			0.09	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Mercury	0.012	mg/kg		B	0.0049	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Methylene chloride	2.6	ug/kg		J	0.77	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Molybdenum	0.25	mg/kg		U	0.25	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Naphthalene	31	ug/kg		U	31	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Neptunium-237	0.00265	pCi/g	0.00374	U	0.0202	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Nickel	32	mg/kg			0.11	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Nitrobenzene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	PPCB	PCB-1016	0.0046	mg/kg		U	0.0046	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	PPCB	PCB-1221	0.014	mg/kg		U	0.014	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	PPCB	PCB-1232	0.0047	mg/kg		U	0.0047	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	PPCB	PCB-1242	0.0083	mg/kg		U	0.0083	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	PPCB	PCB-1248	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	PPCB	PCB-1254	0.005	mg/kg		U	0.005	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	PPCB	PCB-1260	0.0024	mg/kg		U	0.0024	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Phenanthrene	25	ug/kg		J	17	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Phenol	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Plutonium-238	0.0126	pCi/g	0.00769	U	0.03	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Plutonium-239/240	-0.00314	pCi/g	-0.00443	U	0.03	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	PPCB	Polychlorinated biphenyl	0.0024	mg/kg		U	0.0024	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Pyrene	22	ug/kg		J	12	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-02-24.5	SVOA	Pyridine	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Selenium	0.64	mg/kg			0.12	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Silver	0.14	mg/kg		U	0.14	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Sodium	180	mg/kg		B	53	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Styrene	0.65	ug/kg		U	0.65	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Technetium-99	0.217	pCi/g	0.304	U	1.01	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Tetrachloroethene	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Thallium	0.15	mg/kg			0.0031	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Thorium-228	1.44	pCi/g	0.0673	J	0.0544	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Thorium-230	0.899	pCi/g	0.0519	J	0.0228	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Thorium-232	1.36	pCi/g	0.0639	J	0.0285	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Toluene	0.71	ug/kg		U	0.71	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Total Xylene	0.63	ug/kg		U	0.63	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	trans-1,2-Dichloroethene	0.4	ug/kg		U	0.4	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	trans-1,3-Dichloropropene	0.69	ug/kg		U	0.69	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.69	ug/kg		U	0.69	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Trichloroethene	0.24	ug/kg		U	0.24	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Trichlorofluoromethane	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Uranium	0.65	mg/kg			0.0014	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Uranium-233/234	0.825	pCi/g	0.0525	J	0.0317	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Uranium-235	0.0409	pCi/g	0.0136	U	0.0313	22.5	24.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Uranium-236	0.011	pCi/g	0.00734	U	0.0281	22.5	24.5	SOIL	REG	SPS	UJ	5/26/2011
WD-PZ07	WDPZ07-04-24.5	RADS	Uranium-238	0.871	pCi/g	0.054	J	0.0406	22.5	24.5	SOIL	REG	SPS	J	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Vanadium	32	mg/kg			0.085	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-30-24.5	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	22.5	24.5	SOIL	REG	SPS	U	5/26/2011
WD-PZ07	WDPZ07-03-24.5	METAL	Zinc	76	mg/kg			0.36	22.5	24.5	SOIL	REG	SPS	=	5/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ08C	WDPZ08C-01-2.0	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Acetone	5.2	ug/kg		U	5.2	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Alpha activity	4.57	pCi/g	0.49	J	1.19	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Aluminum	17000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Americium-241	0.0124	pCi/g	0.00693	U	0.0237	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Antimony	0.34	mg/kg		U	0.34	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Arsenic	14	mg/kg			0.047	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Barium	79	mg/kg			0.068	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Benzaldehyde	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Benzene	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Benzoic acid	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Beryllium	0.52	mg/kg			0.029	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Beta activity	0.606	pCi/g	0.306	U	1.45	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	130	ug/kg		BJ	46	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Cadmium	0.037	mg/kg		U	0.037	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Calcium	280	mg/kg			13	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Cesium-137	-0.142	pCi/g	0.0742	U	0.169	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Chloroethane	0.86	ug/kg		U	0.86	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Chloromethane	0.75	ug/kg		U	0.75	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Chromium	21	mg/kg			0.052	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Cobalt	6.6	mg/kg			0.089	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Copper	20	mg/kg			0.19	0	2	SOIL	REG	SPS	=	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Dibromomethane	0.82	ug/kg		U	0.82	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Iodomethane	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Iron	28000	mg/kg			3.4	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Lead	13	mg/kg			0.24	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Magnesium	1900	mg/kg			3.3	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Manganese	67	mg/kg			0.089	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Mercury	0.0062	mg/kg		B	0.0048	0	2	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Methylene chloride	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Molybdenum	0.51	mg/kg		B	0.23	0	2	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Neptunium-237	0.00305	pCi/g	0.00431	U	0.0233	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Nickel	17	mg/kg			0.11	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Phenol	47	ug/kg		J	18	0	2	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Plutonium-238	0	pCi/g	0.00439	U	0.0297	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Plutonium-239/240	0.0248	pCi/g	0.00979	U	0.0297	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Selenium	0.19	mg/kg		B	0.12	0	2	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Sodium	72	mg/kg		B	53	0	2	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Styrene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Technetium-99	0.147	pCi/g	0.161	U	0.535	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Thallium	0.18	mg/kg			0.0033	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Thorium-228	1.15	pCi/g	0.0708	J	0.0331	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Thorium-230	0.948	pCi/g	0.0623	J	0.0311	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Thorium-232	1.1	pCi/g	0.067	J	0.0311	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Toluene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Total Xylene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Uranium	0.58	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Uranium-233/234	0.797	pCi/g	0.0439	J	0.0184	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Uranium-235	0.0208	pCi/g	0.0115	U	0.048	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Uranium-236	0.008	pCi/g	0.00596	U	0.0255	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-2.0	RADS	Uranium-238	0.863	pCi/g	0.0459	J	0.0345	0	2	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Vanadium	41	mg/kg			0.084	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-2.0	METAL	Zinc	50	mg/kg			0.36	0	2	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	1,1,1-Trichloroethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ08C	WDPZ08C-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	1,1,2-Trichloroethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	1,1-Dichloroethene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	1,2,3-Trichloropropane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	1,2-Dichloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	1,2-Dichloropropane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	1,2-Dimethylbenzene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	2-Hexanone	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	4-Methyl-2-pentanone	3.7	ug/kg		U	3.7	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	4-Nitrophenol	95	ug/kg		U	95	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Acetone	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Acrolein	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Acrylonitrile	4.1	ug/kg		U	4.1	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Alpha activity	3.25	pCi/g	0.627	J	2.39	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Aluminum	17000	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Americium-241	0.0345	pCi/g	0.0108	U	0.0276	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Antimony	0.34	mg/kg		U	0.34	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Arsenic	16	mg/kg			0.046	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Barium	81	mg/kg			0.068	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Benzene	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Beryllium	0.58	mg/kg			0.03	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Beta activity	0.882	pCi/g	0.568	U	2.95	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	120	ug/kg		BJ	45	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Bromomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Cadmium	0.037	mg/kg		U	0.037	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Calcium	290	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Carbon tetrachloride	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Cesium-137	0.057	pCi/g	0.0446	U	0.145	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Chlorobenzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ08C	WDPZ08C-01-4.5	VOA	Chloroethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Chloroform	0.25	ug/kg		U	0.25	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Chloromethane	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Chromium	21	mg/kg			0.052	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	cis-1,2-Dichloroethene	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Cobalt	6	mg/kg			0.09	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Copper	19	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Dibromochloromethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Dibromomethane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Dichlorodifluoromethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Ethyl methacrylate	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Ethylbenzene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Iron	26000	mg/kg			3.4	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Lead	13	mg/kg			0.24	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	M + P Xylene	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Magnesium	2000	mg/kg			3.3	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Manganese	62	mg/kg			0.09	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Mercury	0.013	mg/kg		B	0.0053	2.5	4.5	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Methylene chloride	0.94	ug/kg		BJ	0.64	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Molybdenum	0.42	mg/kg		B	0.23	2.5	4.5	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Neptunium-237	-0.00285	pCi/g	0.00402	U	0.0272	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Nickel	16	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Phenol	42	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Plutonium-238	-0.00332	pCi/g	-0.00469	U	0.0318	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Plutonium-239/240	0.00994	pCi/g	0.00663	U	0.0253	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Selenium	0.15	mg/kg		B	0.12	2.5	4.5	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Sodium	80	mg/kg		B	53	2.5	4.5	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Styrene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Technetium-99	0.322	pCi/g	0.161	U	0.527	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Tetrachloroethene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Thallium	0.16	mg/kg			0.0032	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Thorium-228	1.35	pCi/g	0.087	J	0.0786	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Thorium-230	0.759	pCi/g	0.0626	J	0.0392	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Thorium-232	1.32	pCi/g	0.0824	J	0.0392	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Toluene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Total Xylene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	trans-1,2-Dichloroethene	0.33	ug/kg		U	0.33	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	trans-1,3-Dichloropropene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Trichlorofluoromethane	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Uranium	0.77	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Uranium-233/234	0.725	pCi/g	0.0456	J	0.0404	2.5	4.5	SOIL	REG	SPS		9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ08C	WDPZ08C-04-4.5	RADS	Uranium-235	0.0208	pCi/g	0.00917	U	0.0265	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Uranium-236	0.0187	pCi/g	0.00823	U	0.0238	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-4.5	RADS	Uranium-238	0.861	pCi/g	0.0492	J	0.0214	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Vanadium	41	mg/kg			0.085	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Vinyl acetate	0.91	ug/kg		U	0.91	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-4.5	VOA	Vinyl chloride	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-4.5	METAL	Zinc	40	mg/kg			0.36	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	1,1,2-Trichloroethane	0.76	ug/kg		U	0.76	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	1,2,3-Trichloropropane	0.7	ug/kg		U	0.7	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	1,2-Dichloroethane	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	2-Hexanone	4.2	ug/kg		U	4.2	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ08C	WDPZ08C-18-12.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Acetone	4.7	ug/kg		U	4.7	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Acetone	5.2	ug/kg		U	5.2	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Acrolein	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Alpha activity	6.33	pCi/g	0.831		2.37	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Alpha activity	5.01	pCi/g	0.739		2.3	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Aluminum	11000	mg/kg			1.4	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Aluminum	12000	mg/kg			1.3	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Americium-241	0.0187	pCi/g	0.00885	U	0.0328	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Americium-241	-0.00321	pCi/g	0.0107	U	0.0614	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Antimony	1.7	mg/kg		U	1.7	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Antimony	0.32	mg/kg		U	0.32	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Arsenic	13	mg/kg			0.048	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Arsenic	15	mg/kg			0.046	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Barium	48	mg/kg			0.067	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Barium	48	mg/kg			0.065	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Benzaldehyde	67	ug/kg		U	67	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Benzene	0.41	ug/kg		U	0.41	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Benzene	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Beryllium	0.84	mg/kg			0.029	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Beryllium	0.73	mg/kg			0.028	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Beta activity	0.541	pCi/g	0.543	U	2.79	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Beta activity	0.542	pCi/g	0.537	U	2.79	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Bis(2-ethylhexyl)phthalate	100	ug/kg		BJ	46	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	100	ug/kg		BJ	46	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Bromoform	0.2	ug/kg		U	0.2	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Bromoform	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Bromomethane	0.43	ug/kg		U	0.43	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Bromomethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Cadmium	0.18	mg/kg		U	0.18	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Cadmium	0.039	mg/kg		B	0.035	10	12	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Calcium	2300	mg/kg			12	10	12	SOIL	FR	SPS	=	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ08C	WDPZ08C-03-12.0	METAL	Calcium	1500	mg/kg			12	10	12	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Cesium-137	-0.0273	pCi/g	0.109	U	0.307	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Cesium-137	0.0503	pCi/g	0.153	U	0.458	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Chloroethane	0.77	ug/kg		U	0.77	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Chloroethane	0.85	ug/kg		U	0.85	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Chloroform	0.25	ug/kg		U	0.25	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Chloromethane	0.67	ug/kg		U	0.67	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Chloromethane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Chromium	20	mg/kg			0.26	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Chromium	17	mg/kg			0.05	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Cobalt	12	mg/kg			0.44	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Cobalt	9	mg/kg			0.085	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Copper	20	mg/kg			0.19	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Copper	18	mg/kg			0.19	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Dibromochloromethane	0.49	ug/kg		U	0.49	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Dibromomethane	0.73	ug/kg		U	0.73	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Dibromomethane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Iodomethane	0.38	ug/kg		U	0.38	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Iron	36000	mg/kg			3.4	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Iron	28000	mg/kg			3.2	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Lead	20	mg/kg			1.2	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Lead	14	mg/kg			0.23	10	12	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	M + P Xylene	0.9	ug/kg		U	0.9	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Magnesium	2500	mg/kg			3.3	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Magnesium	2900	mg/kg			3.2	10	12	SOIL	REG	SPS	=	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ08C	WDPZ08C-19-12.0	METAL	Manganese	330	mg/kg			0.088	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Manganese	200	mg/kg			0.085	10	12	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Mercury	0.028	mg/kg			0.0055	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Mercury	0.025	mg/kg			0.0052	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Methylene chloride	0.65	ug/kg		U	0.65	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Methylene chloride	0.72	ug/kg		U	0.72	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Molybdenum	1.2	mg/kg		U	1.2	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Molybdenum	0.22	mg/kg		U	0.22	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Neptunium-237	0.00495	pCi/g	0.00429	U	0.0189	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Neptunium-237	0.00553	pCi/g	0.00479	U	0.0212	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Nickel	31	mg/kg			0.54	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Nickel	22	mg/kg			0.11	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	PPCB	PCB-1221	0.016	mg/kg		U	0.016	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	PPCB	PCB-1260	0.0027	mg/kg		U	0.0027	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Phenol	42	ug/kg		J	18	10	12	SOIL	FR	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Phenol	35	ug/kg		J	18	10	12	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Plutonium-238	-0.00251	pCi/g	-0.00355	U	0.024	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Plutonium-238	-0.00323	pCi/g	-0.00456	U	0.0309	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Plutonium-239/240	0.0175	pCi/g	0.00709	U	0.0192	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Plutonium-239/240	0.00967	pCi/g	0.00721	U	0.0309	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	PPCB	Polychlorinated biphenyl	0.0027	mg/kg		U	0.0027	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-18-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Selenium	0.14	mg/kg		B	0.13	10	12	SOIL	FR	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Selenium	0.16	mg/kg		B	0.12	10	12	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Sodium	140	mg/kg		B	52	10	12	SOIL	FR	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Sodium	140	mg/kg		B	50	10	12	SOIL	REG	SPS	J	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Styrene	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Styrene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Technetium-99	0.145	pCi/g	0.161	U	0.535	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Technetium-99	-0.00229	pCi/g	0.161	U	0.541	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Thallium	0.13	mg/kg			0.0033	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Thallium	0.12	mg/kg			0.0032	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Thorium-228	1.5	pCi/g	0.0851	J	0.0367	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Thorium-228	1.73	pCi/g	0.0855	J	0.0402	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Thorium-230	1.05	pCi/g	0.069	J	0.0345	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Thorium-230	0.978	pCi/g	0.0622	J	0.0302	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Thorium-232	1.43	pCi/g	0.0805	J	0.0431	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Thorium-232	1.47	pCi/g	0.0763	J	0.0301	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Toluene	0.6	ug/kg		U	0.6	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Toluene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Total Xylene	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Total Xylene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ08C	WDPZ08C-01-12.0	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Trichloroethene	0.2	ug/kg		U	0.2	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Trichlorofluoromethane	0.9	ug/kg		U	0.9	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Uranium	0.74	mg/kg			0.0015	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Uranium	0.69	mg/kg			0.0014	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Uranium-233/234	1.01	pCi/g	0.0445	J	0.015	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Uranium-233/234	0.958	pCi/g	0.0519	J	0.0397	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Uranium-235	0.0387	pCi/g	0.0108	U	0.0298	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Uranium-235	0.0341	pCi/g	0.0118	U	0.0326	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Uranium-236	0.0152	pCi/g	0.00615	U	0.0166	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Uranium-236	0.0122	pCi/g	0.00749	U	0.0293	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-20-12.0	RADS	Uranium-238	0.887	pCi/g	0.0417	J	0.0149	10	12	SOIL	FR	SPS		9/26/2011
WD-PZ08C	WDPZ08C-04-12.0	RADS	Uranium-238	0.877	pCi/g	0.0493	J	0.0263	10	12	SOIL	REG	SPS		9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Vanadium	33	mg/kg			0.083	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Vanadium	27	mg/kg			0.08	10	12	SOIL	REG	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Vinyl acetate	0.93	ug/kg		U	0.93	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-21-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	FR	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-01-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	9/26/2011
WD-PZ08C	WDPZ08C-19-12.0	METAL	Zinc	230	mg/kg			0.35	10	12	SOIL	FR	SPS	=	9/26/2011
WD-PZ08C	WDPZ08C-03-12.0	METAL	Zinc	170	mg/kg			0.34	10	12	SOIL	REG	SPS	J	9/26/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	1,2,3-Trichloropropane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Acetone	5.1	ug/kg		U	5.1	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Alpha activity	5.7	pCi/g	0.804		2.59	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Aluminum	13000	mg/kg			1.4	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Americium-241	0.0158	pCi/g	0.00696	U	0.0201	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Antimony	0.35	mg/kg		U	0.35	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Arsenic	11	mg/kg			0.05	0	2	SOIL	REG	SPS		9/20/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ09C	WDPZ09C-03-2.0	METAL	Barium	79	mg/kg			0.069	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Benzaldehyde	64	ug/kg		U	64	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Benzene	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Beryllium	0.51	mg/kg			0.03	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Beta activity	4.87	pCi/g	0.727	J	2.85	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Cadmium	0.068	mg/kg		B	0.037	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Calcium	180	mg/kg			13	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Cesium-137	0.217	pCi/g	0.0543	U	0.211	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Chloroethane	0.85	ug/kg		U	0.85	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Chloromethane	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Chromium	14	mg/kg			0.053	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Cobalt	6.8	mg/kg			0.091	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Copper	7.9	mg/kg			0.2	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Dibromomethane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Iron	16000	mg/kg			3.5	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Lead	11	mg/kg			0.25	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	M + P Xylene	0.99	ug/kg		U	0.99	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Magnesium	800	mg/kg			3.4	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Manganese	260	mg/kg			0.091	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Mercury	0.019	mg/kg			0.005	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Methylene chloride	0.71	ug/kg		U	0.71	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Molybdenum	0.72	mg/kg		B	0.22	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Neptunium-237	0.00286	pCi/g	0.00404	U	0.0219	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Nickel	8.3	mg/kg			0.11	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		9/20/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Phenol	17	ug/kg		U	17	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Plutonium-238	0	pCi/g	0.00619	U	0.0334	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Plutonium-239/240	0.0611	pCi/g	0.0185	U	0.0537	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Selenium	0.53	mg/kg			0.13	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Sodium	66	mg/kg		B	54	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Styrene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Technetium-99	0.12	pCi/g	0.158	U	0.526	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Thallium	0.18	mg/kg			0.0034	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Thorium-228	1.01	pCi/g	0.0568	J	0.0305	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Thorium-230	0.829	pCi/g	0.0499	J	0.0229	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Thorium-232	0.789	pCi/g	0.0486	J	0.0229	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Toluene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Total Xylene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Trichlorofluoromethane	0.99	ug/kg		U	0.99	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Uranium	0.8	mg/kg			0.0015	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Uranium-233/234	0.76	pCi/g	0.0436	J	0.0191	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Uranium-235	0.043	pCi/g	0.0119	J	0.0235	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Uranium-236	0.0166	pCi/g	0.00781	U	0.0264	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-2.0	RADS	Uranium-238	0.799	pCi/g	0.0446	J	0.019	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Vanadium	29	mg/kg			0.085	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-2.0	METAL	Zinc	27	mg/kg			0.36	0	2	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	4-Methylphenol	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	4-Nitrophenol	92	ug/kg		U	92	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Acetone	5.2	ug/kg		U	5.2	2.5	4.5	SOIL	REG	SPS		9/20/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ09C	WDPZ09C-01-4.5	VOA	Acrolein	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Alpha activity	4.81	pCi/g	0.772	J	2.72	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Aluminum	17000	mg/kg			1.6	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Americium-241	0.0131	pCi/g	0.00644	U	0.0201	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Antimony	0.38	mg/kg		U	0.38	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Arsenic	13	mg/kg			0.051	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Barium	39	mg/kg			0.076	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Benzaldehyde	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Benzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Benzoic acid	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Beryllium	0.58	mg/kg			0.033	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Beta activity	2.8	pCi/g	0.657	U	2.93	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Bromoform	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Cadmium	0.051	mg/kg		B	0.041	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Calcium	430	mg/kg			14	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Carbazole	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Cesium-137	0.0611	pCi/g	0.0631	U	0.203	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Chloromethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Chromium	20	mg/kg			0.058	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Cobalt	6.1	mg/kg			0.1	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Copper	18	mg/kg			0.22	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Fluoranthene	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Iron	26000	mg/kg			3.8	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Lead	14	mg/kg			0.27	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Magnesium	1700	mg/kg			3.7	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Manganese	45	mg/kg			0.1	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Mercury	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Methylene chloride	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Molybdenum	0.42	mg/kg		B	0.23	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Naphthalene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00397	U	0.0215	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Nickel	17	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		9/20/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ09C	WDPZ09C-02-4.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Phenol	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Plutonium-238	-0.00628	pCi/g	-0.014	U	0.0904	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Plutonium-239/240	0.0314	pCi/g	0.0154	U	0.048	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Pyrene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Selenium	0.53	mg/kg			0.13	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Silver	0.16	mg/kg		U	0.16	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Sodium	150	mg/kg		B	59	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Styrene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Technetium-99	0.0929	pCi/g	0.16	U	0.535	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Thallium	0.19	mg/kg			0.0035	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Thorium-228	1.21	pCi/g	0.0691	J	0.0556	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Thorium-230	1.07	pCi/g	0.0624	J	0.0278	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Thorium-232	1.12	pCi/g	0.064	J	0.0347	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Toluene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Total Xylene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Uranium	0.72	mg/kg			0.0016	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Uranium-233/234	1.01	pCi/g	0.0551	J	0.0229	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Uranium-235	0.0221	pCi/g	0.00976	U	0.0282	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Uranium-236	0.00662	pCi/g	0.00574	U	0.0253	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-4.5	RADS	Uranium-238	0.926	pCi/g	0.0526	J	0.0228	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Vanadium	42	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-4.5	METAL	Zinc	40	mg/kg			0.4	2.5	4.5	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	10	12	SOIL	REG	SPS		9/20/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ09C	WDPZ09C-02-12.0	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	4-Methylphenol	32	ug/kg		U	32	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	4-Nitrophenol	94	ug/kg		U	94	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Acetone	5.3	ug/kg		U	5.3	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Acrolein	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Alpha activity	4.92	pCi/g	0.784	J	2.76	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Aluminum	13000	mg/kg			1.4	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Americium-241	0.0141	pCi/g	0.00692	U	0.0216	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Antimony	0.35	mg/kg		U	0.35	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Arsenic	9.9	mg/kg			0.047	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Barium	67	mg/kg			0.07	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Benzaldehyde	65	ug/kg		U	65	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Benzene	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Benzoic acid	320	ug/kg		U	320	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Beryllium	1.1	mg/kg			0.031	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Beta activity	-0.416	pCi/g	0.505	U	2.9	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Bromoform	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Cadmium	0.038	mg/kg		U	0.038	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Calcium	810	mg/kg			13	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Carbazole	35	ug/kg		U	35	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Cesium-137	0.0129	pCi/g	0.0513	U	0.151	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Chloroform	0.29	ug/kg		U	0.29	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Chloromethane	0.77	ug/kg		U	0.77	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Chromium	19	mg/kg			0.054	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Cobalt	19	mg/kg			0.093	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Copper	24	mg/kg			0.2	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Dibromomethane	0.83	ug/kg		U	0.83	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Fluoranthene	35	ug/kg		U	35	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Iodomethane	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Iron	35000	mg/kg			3.5	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Lead	14	mg/kg			0.25	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Magnesium	2700	mg/kg			3.4	10	12	SOIL	REG	SPS		9/20/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ09C	WDPZ09C-03-12.0	METAL	Manganese	350	mg/kg			0.093	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Mercury	0.054	mg/kg			0.0053	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Methylene chloride	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Molybdenum	0.22	mg/kg		U	0.22	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Neptunium-237	0	pCi/g	0.00512	U	0.0315	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Nickel	46	mg/kg			0.11	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Phenol	18	ug/kg		U	18	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Plutonium-238	0	pCi/g	0.00855	U	0.0526	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Plutonium-239/240	0.0555	pCi/g	0.0165	U	0.0409	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Selenium	0.3	mg/kg		B	0.12	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Sodium	270	mg/kg		B	55	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Styrene	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Technetium-99	-0.141	pCi/g	0.155	U	0.526	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Thallium	0.13	mg/kg			0.0033	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Thorium-228	1.4	pCi/g	0.0789	J	0.0702	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Thorium-230	0.997	pCi/g	0.0644	J	0.0503	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Thorium-232	1.24	pCi/g	0.0713	J	0.0312	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Toluene	0.69	ug/kg		U	0.69	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Total Xylene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Uranium	0.54	mg/kg			0.0015	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Uranium-233/234	0.868	pCi/g	0.0528	J	0.0245	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Uranium-235	0.0237	pCi/g	0.0105	U	0.0302	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Uranium-236	0.0248	pCi/g	0.0106	U	0.034	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-04-12.0	RADS	Uranium-238	0.931	pCi/g	0.0546	J	0.0244	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Vanadium	34	mg/kg			0.087	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-01-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ09C	WDPZ09C-03-12.0	METAL	Zinc	56	mg/kg			0.37	10	12	SOIL	REG	SPS		9/20/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	1,1,1-Trichloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	1,1,2-Trichloroethane	0.9	ug/kg		U	0.9	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	1,1-Dichloroethene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	1,2,3-Trichloropropane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	1,2-Dichloroethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	1,2-Dichloropropane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	1,2-Dimethylbenzene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	2-Butanone	1.9	ug/kg		U	1.9	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	2-Chloroethyl vinyl ether	5.1	ug/kg		U	5.1	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	2-Hexanone	5	ug/kg		U	5	0	2	SOIL	REG	SPS	UJ	9/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	4-Methyl-2-pentanone	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	4-Methylphenol	32	ug/kg		U	32	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	4-Nitrophenol	94	ug/kg		U	94	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Acetone	5.5	ug/kg		U	5.5	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Acrolein	20	ug/kg		U	20	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Acrylonitrile	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Benzaldehyde	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Benzene	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Benzenemethanol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Benzoic acid	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	100	ug/kg		BJ	44	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Bromodichloromethane	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Bromoform	0.24	ug/kg		U	0.24	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Bromomethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Carbazole	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Carbon disulfide	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Carbon tetrachloride	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Chlorobenzene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Chloroethane	0.91	ug/kg		U	0.91	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Chloroform	0.3	ug/kg		U	0.3	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Chloromethane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	cis-1,2-Dichloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Dibromochloromethane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Dibromomethane	0.86	ug/kg		U	0.86	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Dichlorodifluoromethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Ethyl methacrylate	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Ethylbenzene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Fluoranthene	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Iodomethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	M + P Xylene	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Methylene chloride	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	9/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ10C	WDPZ10C-02-2.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Phenol	42	ug/kg		J	17	0	2	SOIL	REG	SPS	J	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Styrene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Tetrachloroethene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Toluene	0.71	ug/kg		U	0.71	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Total Xylene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	trans-1,2-Dichloroethene	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	trans-1,3-Dichloropropene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Trichloroethene	0.24	ug/kg		U	0.24	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Trichlorofluoromethane	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-2.0	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	0	2	SOIL	REG	SPS	UJ	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	1,1,2-Trichloroethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	1,2,3-Trichloropropane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	1,2-Dichloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	1,2-Dichloropropane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	1,2-Dimethylbenzene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	2-Hexanone	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	4-Methyl-2-pentanone	3.7	ug/kg		U	3.7	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Acetone	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Acrolein	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Acrylonitrile	4.1	ug/kg		U	4.1	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Alpha activity	7.93	pCi/g	0.917		2.56	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Aluminum	12000	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Americium-241	0.0217	pCi/g	0.00761	U	0.0184	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	R	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Antimony	0.35	mg/kg		U	0.35	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Arsenic	13	mg/kg			0.047	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Barium	140	mg/kg			0.07	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Benzaldehyde	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	9/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ10C	WDPZ10C-01-4.5	VOA	Benzene	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Beryllium	0.94	mg/kg			0.03	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Beta activity	-2.24	pCi/g	0.393	U	2.69	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	97	ug/kg		BJ	45	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Bromomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Cadmium	0.038	mg/kg		U	0.038	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Calcium	340	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Carbon tetrachloride	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Cesium-137	0.0361	pCi/g	0.0466	U	0.144	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Chlorobenzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Chloroethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Chloroform	0.25	ug/kg		U	0.25	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Chloromethane	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Chromium	18	mg/kg			0.053	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	cis-1,2-Dichloroethene	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Cobalt	16	mg/kg			0.092	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Copper	20	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Dibromochloromethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Dibromomethane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Ethyl methacrylate	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Ethylbenzene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Iron	22000	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Lead	11	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	M + P Xylene	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Magnesium	2900	mg/kg			3.4	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Manganese	140	mg/kg			0.092	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Mercury	0.013	mg/kg		B	0.0053	2.5	4.5	SOIL	REG	SPS	J	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Methylene chloride	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Molybdenum	0.24	mg/kg		U	0.24	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00377	U	0.0255	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Nickel	28	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	PPCB	PCB-1221	0.016	mg/kg		U	0.016	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	PPCB	PCB-1260	0.0027	mg/kg		U	0.0027	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Phenol	39	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS	J	9/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-PZ10C	WDPZ10C-04-4.5	RADS	Plutonium-238	-0.00448	pCi/g	-0.00776	U	0.0551	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Plutonium-239/240	0.00896	pCi/g	0.0127	U	0.0644	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	PPCB	Polychlorinated biphenyl	0.0027	mg/kg		U	0.0027	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	R	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Selenium	2	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Sodium	140	mg/kg		B	54	2.5	4.5	SOIL	REG	SPS	J	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Styrene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Technetium-99	-0.066	pCi/g	0.159	U	0.537	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Thallium	0.13	mg/kg			0.0033	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Thorium-228	1.66	pCi/g	0.0801	J	0.0367	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Thorium-230	0.984	pCi/g	0.0599	J	0.0347	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Thorium-232	1.33	pCi/g	0.0693	J	0.0276	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Toluene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Total Xylene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	trans-1,2-Dichloroethene	0.33	ug/kg		U	0.33	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	trans-1,3-Dichloropropene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Trichlorofluoromethane	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Uranium	0.5	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Uranium-233/234	0.853	pCi/g	0.0523	J	0.0451	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Uranium-235	0.0503	pCi/g	0.015	U	0.037	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Uranium-236	0.0452	pCi/g	0.0135	U	0.0333	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-04-4.5	RADS	Uranium-238	0.99	pCi/g	0.0558	J	0.0299	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Vanadium	25	mg/kg			0.086	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Vinyl acetate	0.92	ug/kg		U	0.92	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-01-4.5	VOA	Vinyl chloride	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-PZ10C	WDPZ10C-03-4.5	METAL	Zinc	65	mg/kg			0.37	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-01	WDSB01-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	1,1,2-Trichloroethane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	1,2,3-Trichloropropane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	1,2-Dichloroethane	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	2-Hexanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	4-Methylphenol	32	ug/kg		U	32	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	4-Nitrophenol	93	ug/kg		U	93	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Acetone	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Acrolein	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Alpha activity	6.5	pCi/g	0.845		2.32	0	2	SOIL	REG	SPS	=	8/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-03-2.0	METAL	Aluminum	14000	mg/kg			1.5	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Americium-241	0.00707	pCi/g	0.00471	U	0.018	0	2	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Antimony	0.37	mg/kg		U	0.37	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Arsenic	25	mg/kg			0.044	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Barium	69	mg/kg			0.073	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Benzaldehyde	64	ug/kg		U	64	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Benzene	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Benzenemethanol	72	ug/kg		J	9.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Benzoic acid	320	ug/kg		U	320	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Beryllium	0.69	mg/kg			0.032	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Beta activity	4.06	pCi/g	0.681	J	2.69	0	2	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	94	ug/kg		BJ	44	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Bromoform	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Bromomethane	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Cadmium	0.039	mg/kg		U	0.039	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Calcium	1000	mg/kg			14	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Carbazole	35	ug/kg		U	35	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Cesium-137	-0.000624	pCi/g	0.0505	U	0.146	0	2	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Chloroethane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Chloroform	0.26	ug/kg		U	0.26	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Chloromethane	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Chromium	18	mg/kg			0.056	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	cis-1,2-Dichloroethene	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Cobalt	6.1	mg/kg			0.096	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Copper	13	mg/kg			0.21	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Dibromochloromethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Dibromomethane	0.75	ug/kg		U	0.75	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Ethylbenzene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Fluoranthene	35	ug/kg		U	35	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Iodomethane	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Iron	32000	mg/kg			3.7	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Lead	14	mg/kg			0.26	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	M + P Xylene	0.92	ug/kg		U	0.92	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Magnesium	1300	mg/kg			3.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Manganese	59	mg/kg			0.096	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Mercury	0.022	mg/kg			0.0053	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Methylene chloride	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Molybdenum	1.6	mg/kg		B	0.25	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Neptunium-237	0	pCi/g	0.00343	U	0.0232	0	2	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Nickel	13	mg/kg			0.12	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		8/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	PPCB	PCB-1260	0.04	mg/kg			0.0026	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Phenol	25	ug/kg		J	17	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Plutonium-238	0.0152	pCi/g	0.00716	U	0.0242	0	2	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Plutonium-239/240	0.0278	pCi/g	0.00876	U	0.0193	0	2	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-02-2.0	PPCB	Polychlorinated biphenyl	0.04	mg/kg			0.0026	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Pyrene	21	ug/kg		J	12	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Selenium	0.16	mg/kg		B	0.11	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Sodium	57	mg/kg		U	57	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Styrene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Technetium-99	0.308	pCi/g	0.136	U	0.443	0	2	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Thallium	0.18	mg/kg			0.003	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Thorium-228	1.17	pCi/g	0.0534	J	0.0345	0	2	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Thorium-230	1.15	pCi/g	0.0519	J	0.0178	0	2	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Thorium-232	1.18	pCi/g	0.0525	J	0.0178	0	2	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Toluene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Total Xylene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	trans-1,3-Dichloropropene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Trichloroethene	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Trichlorofluoromethane	0.92	ug/kg		U	0.92	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Uranium	1.3	mg/kg			0.0014	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Uranium-233/234	0.95	pCi/g	0.0454	J	0.0165	0	2	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Uranium-235	0.048	pCi/g	0.0119	J	0.0255	0	2	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Uranium-236	0.0144	pCi/g	0.00633	U	0.0183	0	2	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-04-2.0	RADS	Uranium-238	0.968	pCi/g	0.0457	J	0.0165	0	2	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Vanadium	40	mg/kg			0.09	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Vinyl acetate	0.95	ug/kg		U	0.95	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-2.0	METAL	Zinc	41	mg/kg			0.38	0	2	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01RAD-0.5FR	RADS	Technetium-99	0.082	pCi/g	0.0626	U	0.207	0.4	0.7	SOIL	FR	AUG	U	4/21/2011
WD-SB-01	WDSB01RAD-0.5	RADS	Technetium-99	0.01	pCi/g	0.0624	U	0.209	0.4	0.7	SOIL	REG	AUG	U	4/21/2011
WD-SB-01	WDSB01RAD-0.5FR	METAL	Total Uranium	2.6	ug/g	0		0.016	0.4	0.7	SOIL	FR	AUG	=	4/21/2011
WD-SB-01	WDSB01RAD-0.5	METAL	Total Uranium	3.06	ug/g	0		0.0171	0.4	0.7	SOIL	REG	AUG	=	4/21/2011
WD-SB-01	WDSB01RAD-0.5FR	RADS	Uranium-233/234	0.77	pCi/g	0.0213		0.0045	0.4	0.7	SOIL	FR	AUG	=	4/21/2011
WD-SB-01	WDSB01RAD-0.5	RADS	Uranium-233/234	1.01	pCi/g	0.0253		0.00483	0.4	0.7	SOIL	REG	AUG	=	4/21/2011
WD-SB-01	WDSB01RAD-0.5FR	RADS	Uranium-235	0.0349	pCi/g	0.00508	J	0.00556	0.4	0.7	SOIL	FR	AUG	J	4/21/2011
WD-SB-01	WDSB01RAD-0.5	RADS	Uranium-235	0.0444	pCi/g	0.00593	J	0.00596	0.4	0.7	SOIL	REG	AUG	J	4/21/2011
WD-SB-01	WDSB01RAD-0.5FR	RADS	Uranium-236	0.00783	pCi/g	0.00235	J	0.00499	0.4	0.7	SOIL	FR	AUG	U	4/21/2011
WD-SB-01	WDSB01RAD-0.5	RADS	Uranium-236	0.0105	pCi/g	0.0028	J	0.00535	0.4	0.7	SOIL	REG	AUG	U	4/21/2011
WD-SB-01	WDSB01RAD-0.5FR	RADS	Uranium-238	0.868	pCi/g	0.0226		0.00448	0.4	0.7	SOIL	FR	AUG	=	4/21/2011
WD-SB-01	WDSB01RAD-0.5	RADS	Uranium-238	1.02	pCi/g	0.0254		0.00481	0.4	0.7	SOIL	REG	AUG	=	4/21/2011
WD-SB-01	WDSB01RAD-2.0FR	RADS	Technetium-99	-0.0833	pCi/g	0.0638	U	0.218	1.916666667	2.333333333	SOIL	FR	AUG	U	4/28/2011
WD-SB-01	WDSB01RAD-2.0	RADS	Technetium-99	0.051	pCi/g	0.0653	U	0.217	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-01	WDSB01RAD-2.0FR	METAL	Total Uranium	2.83	ug/g	0		0.0199	1.916666667	2.333333333	SOIL	FR	AUG	=	4/28/2011
WD-SB-01	WDSB01RAD-2.0	METAL	Total Uranium	2.64	ug/g	0		0.0193	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-01	WDSB01RAD-2.0FR	RADS	Uranium-233/234	0.964	pCi/g	0.0266		0.0056	1.916666667	2.333333333	SOIL	FR	AUG	=	4/28/2011
WD-SB-01	WDSB01RAD-2.0	RADS	Uranium-233/234	0.911	pCi/g	0.0255		0.00544	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-01	WDSB01RAD-2.0FR	RADS	Uranium-235	0.0443	pCi/g	0.00639	J	0.00691	1.916666667	2.333333333	SOIL	FR	AUG	J	4/28/2011
WD-SB-01	WDSB01RAD-2.0	RADS	Uranium-235	0.0404	pCi/g	0.00602	J	0.00671	1.916666667	2.333333333	SOIL	REG	AUG	J	4/28/2011
WD-SB-01	WDSB01RAD-2.0FR	RADS	Uranium-236	0.00406	pCi/g	0.00199	U	0.00621	1.916666667	2.333333333	SOIL	FR	AUG	U	4/28/2011
WD-SB-01	WDSB01RAD-2.0	RADS	Uranium-236	0.00394	pCi/g	0.00193	U	0.00603	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-01	WDSB01RAD-2.0FR	RADS	Uranium-238	0.946	pCi/g	0.0263		0.00558	1.916666667	2.333333333	SOIL	FR	AUG	=	4/28/2011
WD-SB-01	WDSB01RAD-2.0	RADS	Uranium-238	0.882	pCi/g	0.025		0.00542	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-01	WDSB01-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-02-4.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Acetone	5.3	ug/kg		U	5.3	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Alpha activity	10	pCi/g	0.986		2.14	2.5	4.5	SOIL	REG	SPS	=	8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Aluminum	18000	mg/kg			1.3	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Americium-241	0.0191	pCi/g	0.0067	U	0.0162	2.5	4.5	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Antimony	0.33	mg/kg		U	0.33	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Arsenic	9.5	mg/kg			0.048	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Barium	49	mg/kg			0.066	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Benzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Benzenemethanol	64	ug/kg		J	9.6	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Beryllium	0.55	mg/kg			0.029	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Beta activity	0.965	pCi/g	0.526	U	2.44	2.5	4.5	SOIL	REG	SPS	UJ	8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	92	ug/kg		BJ	44	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Cadmium	0.036	mg/kg		U	0.036	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Calcium	880	mg/kg			12	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Cesium-137	0.0157	pCi/g	0.0649	U	0.192	2.5	4.5	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Chloromethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Chromium	21	mg/kg			0.05	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Cobalt	5.5	mg/kg			0.087	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Copper	14	mg/kg			0.19	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS		8/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-01-4.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Iron	26000	mg/kg			3.3	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Lead	14	mg/kg			0.23	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Magnesium	2700	mg/kg			3.2	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Manganese	100	mg/kg			0.087	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Mercury	0.069	mg/kg			0.0053	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Methylene chloride	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Molybdenum	1.2	mg/kg		B	0.23	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Neptunium-237	0	pCi/g	0.003	U	0.0162	2.5	4.5	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Nickel	14	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Phenol	21	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Plutonium-238	-0.00726	pCi/g	-0.00541	U	0.0391	2.5	4.5	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Plutonium-239/240	0.00968	pCi/g	0.00541	U	0.0185	2.5	4.5	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Selenium	0.36	mg/kg		B	0.13	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Sodium	98	mg/kg		B	51	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Styrene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Technetium-99	-0.00193	pCi/g	0.136	U	0.458	2.5	4.5	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Thallium	0.2	mg/kg			0.0033	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Thorium-228	1.12	pCi/g	0.0536	J	0.0196	2.5	4.5	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Thorium-230	1.38	pCi/g	0.0588	J	0.019	2.5	4.5	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Thorium-232	1.05	pCi/g	0.0511	J	0.0238	2.5	4.5	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Toluene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Uranium	1.2	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Uranium-233/234	0.977	pCi/g	0.0452	J	0.016	2.5	4.5	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Uranium-235	0.0335	pCi/g	0.00964	J	0.0197	2.5	4.5	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Uranium-236	0.0139	pCi/g	0.00654	U	0.0222	2.5	4.5	SOIL	REG	SPS	U	8/26/2011
WD-SB-01	WDSB01-04-4.5	RADS	Uranium-238	0.977	pCi/g	0.0452	J	0.0199	2.5	4.5	SOIL	REG	SPS	J	8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Vanadium	33	mg/kg			0.082	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-03-4.5	METAL	Zinc	38	mg/kg			0.35	2.5	4.5	SOIL	REG	SPS		8/26/2011
WD-SB-01	WDSB01-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		8/27/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-01-12.0	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	2-Hexanone	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	4-Nitrophenol	91	ug/kg		U	91	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Acenaphthene	9.6	ug/kg		U	9.6	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Acetone	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Alpha activity	6.13	pCi/g	0.793		2.18	10	12	SOIL	REG	SPS	=	8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Aluminum	14000	mg/kg			1.4	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Americium-241	0.00969	pCi/g	0.00969	U	0.0463	10	12	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Antimony	0.34	mg/kg		U	0.34	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Arsenic	5.6	mg/kg			0.047	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Barium	28	mg/kg			0.068	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Benzaldehyde	63	ug/kg		U	63	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Benzene	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Benzenemethanol	14	ug/kg		J	9.3	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Beryllium	1	mg/kg			0.03	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Beta activity	0.209	pCi/g	0.471	U	2.48	10	12	SOIL	REG	SPS	UJ	8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	84	ug/kg		BJ	43	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Bromomethane	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Cadmium	0.13	mg/kg		B	0.037	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Calcium	990	mg/kg			13	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Carbazole	34	ug/kg		U	34	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Cesium-137	-0.104	pCi/g	0.0636	U	0.154	10	12	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Chloroethane	0.81	ug/kg		U	0.81	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Chloroform	0.26	ug/kg		U	0.26	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Chloromethane	0.7	ug/kg		U	0.7	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Chromium	20	mg/kg			0.052	10	12	SOIL	REG	SPS		8/27/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-02-12.0	SVOA	Chrysene	25	ug/kg		U	25	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Cobalt	11	mg/kg			0.09	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Copper	23	mg/kg			0.2	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Dibromomethane	0.76	ug/kg		U	0.76	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Fluoranthene	34	ug/kg		U	34	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Iodomethane	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Iron	25000	mg/kg			3.4	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Lead	14	mg/kg			0.24	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	M + P Xylene	0.94	ug/kg		U	0.94	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Magnesium	4500	mg/kg			3.3	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Manganese	200	mg/kg			0.09	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Mercury	0.022	mg/kg			0.0052	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Methylene chloride	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Molybdenum	0.67	mg/kg		B	0.23	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Naphthalene	29	ug/kg		U	29	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Neptunium-237	0	pCi/g	0.00315	U	0.017	10	12	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Nickel	31	mg/kg			0.11	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	PPCB	PCB-1221	0.016	mg/kg		U	0.016	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Phenol	22	ug/kg		J	17	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Plutonium-238	-0.00265	pCi/g	-0.0046	U	0.0326	10	12	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Plutonium-239/240	0.0212	pCi/g	0.00839	U	0.0254	10	12	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Pyrene	11	ug/kg		U	11	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-12.0	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Selenium	0.13	mg/kg		B	0.12	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Sodium	200	mg/kg		B	53	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Styrene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Technetium-99	-0.0956	pCi/g	0.146	U	0.494	10	12	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Thallium	0.27	mg/kg			0.0033	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Thorium-228	1.38	pCi/g	0.0741	J	0.0304	10	12	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Thorium-230	1.05	pCi/g	0.0638	J	0.037	10	12	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Thorium-232	1.23	pCi/g	0.0689	J	0.0295	10	12	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Toluene	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Total Xylene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Trichlorofluoromethane	0.94	ug/kg		U	0.94	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Uranium	0.84	mg/kg			0.0015	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Uranium-233/234	0.917	pCi/g	0.0453	J	0.0214	10	12	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Uranium-235	0.0385	pCi/g	0.0107	J	0.021	10	12	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Uranium-236	0.0148	pCi/g	0.00654	U	0.0189	10	12	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-04-12.0	RADS	Uranium-238	0.933	pCi/g	0.0456	J	0.017	10	12	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Vanadium	27	mg/kg			0.085	10	12	SOIL	REG	SPS		8/27/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-01-12.0	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-12.0	METAL	Zinc	65	mg/kg			0.36	10	12	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	2-Butanone	2.3	ug/kg		J	1.7	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	2-Hexanone	4.6	ug/kg		U	4.6	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	4-Methylphenol	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	4-Nitrophenol	92	ug/kg		U	92	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Acetone	9	ug/kg		J	5	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Acrolein	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Alpha activity	4.78	pCi/g	0.695	J	2.08	17.5	19.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Aluminum	15000	mg/kg			1.4	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Americium-241	0.0242	pCi/g	0.00849	U	0.0205	17.5	19.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Aniline	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Antimony	0.33	mg/kg		U	0.33	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Arsenic	4.7	mg/kg			0.047	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Barium	100	mg/kg			0.067	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Benzaldehyde	64	ug/kg		U	64	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Benzene	0.44	ug/kg		U	0.44	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Benzenemethanol	14	ug/kg		J	9.5	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Benzoic acid	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Beryllium	0.89	mg/kg			0.029	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Beta activity	2.09	pCi/g	0.515	U	2.27	17.5	19.5	SOIL	REG	SPS	UJ	8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	85	ug/kg		BJ	44	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Bromoform	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Bromomethane	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Cadmium	0.11	mg/kg		B	0.036	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Calcium	12000	mg/kg			12	17.5	19.5	SOIL	REG	SPS		8/27/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-02-19.5	SVOA	Carbazole	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Cesium-137	0.0279	pCi/g	0.0472	U	0.143	17.5	19.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Chloroethane	0.84	ug/kg		U	0.84	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Chloroform	0.27	ug/kg		U	0.27	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Chloromethane	0.72	ug/kg		U	0.72	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Chromium	21	mg/kg			0.051	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Chrysene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Cobalt	12	mg/kg			0.088	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Copper	20	mg/kg			0.19	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Dibenzofuran	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Dibromomethane	0.79	ug/kg		U	0.79	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Fluoranthene	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Hexachloroethane	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Iodomethane	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Iron	23000	mg/kg			3.3	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Lead	12	mg/kg			0.24	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	M + P Xylene	0.98	ug/kg		U	0.98	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Magnesium	8200	mg/kg			3.2	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Manganese	250	mg/kg			0.088	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Mercury	0.02	mg/kg			0.0054	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Methylene chloride	0.7	ug/kg		U	0.7	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Molybdenum	1.2	mg/kg		B	0.23	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Naphthalene	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Neptunium-237	0.00256	pCi/g	0.00444	U	0.0246	17.5	19.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Nickel	31	mg/kg			0.11	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Nitrobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Phenol	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Plutonium-238	0	pCi/g	0.00388	U	0.0262	17.5	19.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Plutonium-239/240	0.011	pCi/g	0.00671	U	0.0262	17.5	19.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Selenium	0.21	mg/kg		B	0.12	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Silver	0.14	mg/kg		U	0.14	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Sodium	160	mg/kg		B	52	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Styrene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Technetium-99	-0.0205	pCi/g	0.144	U	0.486	17.5	19.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Thallium	0.27	mg/kg			0.0033	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Thorium-228	1.22	pCi/g	0.0562	J	0.0369	17.5	19.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Thorium-230	1.04	pCi/g	0.0511	J	0.0239	17.5	19.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Thorium-232	1.25	pCi/g	0.0558	J	0.019	17.5	19.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Toluene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Total Xylene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS		8/27/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-01-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Uranium	0.91	mg/kg			0.0015	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Uranium-233/234	0.908	pCi/g	0.0475	J	0.019	17.5	19.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Uranium-235	0.0551	pCi/g	0.0133	J	0.0234	17.5	19.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Uranium-236	0.011	pCi/g	0.00614	U	0.021	17.5	19.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-04-19.5	RADS	Uranium-238	1.04	pCi/g	0.0509	J	0.0236	17.5	19.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Vanadium	25	mg/kg			0.082	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Vinyl acetate	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-19.5	METAL	Zinc	60	mg/kg			0.35	17.5	19.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	1,1,1,2-Tetrachloroethane	0.47	ug/kg		U	0.47	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	1,1,1-Trichloroethane	0.44	ug/kg		U	0.44	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	1,1,2,2-Tetrachloroethane	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	1,1,2-Trichloroethane	0.75	ug/kg		U	0.75	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	1,1-Dichloroethene	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	1,2,3-Trichloropropane	0.69	ug/kg		U	0.69	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	1,2-Dichloroethane	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	1,2-Dichloropropane	0.47	ug/kg		U	0.47	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	1,2-Dimethylbenzene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	2-Chloroethyl vinyl ether	4.2	ug/kg		U	4.2	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	2-Hexanone	4.1	ug/kg		U	4.1	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2-Methylphenol	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	4-Methyl-2-pentanone	3.7	ug/kg		U	3.7	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	4-Methylphenol	31	ug/kg		U	31	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	4-Nitrophenol	92	ug/kg		U	92	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Acenaphthylene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Acetone	11	ug/kg		J	4.6	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Acrolein	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Acrylonitrile	4.1	ug/kg		U	4.1	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Alpha activity	8.41	pCi/g	0.943		2.3	22.5	24.5	SOIL	REG	SPS	=	8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Aluminum	13000	mg/kg			1.3	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Americium-241	0.0142	pCi/g	0.0082	U	0.0341	22.5	24.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Aniline	120	ug/kg		U	120	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Anthracene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Antimony	0.33	mg/kg		U	0.33	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Arsenic	3.9	mg/kg			0.047	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Barium	34	mg/kg			0.066	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Benzaldehyde	64	ug/kg		U	64	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Benzene	0.4	ug/kg		U	0.4	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Benzenemethanol	20	ug/kg		J	9.5	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Benzoic acid	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Beryllium	0.82	mg/kg			0.029	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Beta activity	1.93	pCi/g	0.585	U	2.57	22.5	24.5	SOIL	REG	SPS	UJ	8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS		8/27/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-02-24.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Bis(2-ethylhexyl)phthalate	96	ug/kg		BJ	44	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Bromoform	0.19	ug/kg		U	0.19	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Bromomethane	0.42	ug/kg		U	0.42	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Cadmium	0.13	mg/kg		B	0.036	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Calcium	9300	mg/kg			12	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Carbazole	34	ug/kg		U	34	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Carbon tetrachloride	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Cesium-137	0.0167	pCi/g	0.044	U	0.131	22.5	24.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Chlorobenzene	0.46	ug/kg		U	0.46	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Chloroethane	0.75	ug/kg		U	0.75	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Chloroform	0.25	ug/kg		U	0.25	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Chloromethane	0.65	ug/kg		U	0.65	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Chromium	19	mg/kg			0.05	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Chrysene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	cis-1,2-Dichloroethene	0.47	ug/kg		U	0.47	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Cobalt	12	mg/kg			0.087	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Copper	20	mg/kg			0.19	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Dibenzofuran	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Dibromochloromethane	0.48	ug/kg		U	0.48	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Dibromomethane	0.71	ug/kg		U	0.71	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Dichlorodifluoromethane	0.44	ug/kg		U	0.44	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Ethyl methacrylate	0.51	ug/kg		U	0.51	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Ethylbenzene	0.57	ug/kg		U	0.57	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Fluoranthene	34	ug/kg		U	34	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Fluorene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Hexachloroethane	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Iodomethane	0.37	ug/kg		U	0.37	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Iron	22000	mg/kg			3.3	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Isophorone	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Lead	12	mg/kg			0.23	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	M + P Xylene	0.88	ug/kg		U	0.88	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Magnesium	6600	mg/kg			3.2	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Manganese	280	mg/kg			0.087	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Mercury	0.012	mg/kg		B	0.0053	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Methylene chloride	0.64	ug/kg		U	0.64	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Molybdenum	1.7	mg/kg			0.23	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Naphthalene	30	ug/kg		U	30	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Neptunium-237	0	pCi/g	0.00404	U	0.0273	22.5	24.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Nickel	30	mg/kg			0.11	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Nitrobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Phenanthrene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Phenol	23	ug/kg		J	17	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Plutonium-238	-0.00539	pCi/g	-0.00467	U	0.0332	22.5	24.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Plutonium-239/240	0.0135	pCi/g	0.0066	U	0.0206	22.5	24.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-02-24.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Pyrene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-02-24.5	SVOA	Pyridine	120	ug/kg		U	120	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Selenium	0.23	mg/kg		B	0.12	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Silver	0.14	mg/kg		U	0.14	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Sodium	110	mg/kg		B	51	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Styrene	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Technetium-99	-0.0354	pCi/g	0.147	U	0.495	22.5	24.5	SOIL	REG	SPS	U	8/27/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-01	WDSB01-01-24.5	VOA	Tetrachloroethene	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Thallium	0.32	mg/kg			0.0033	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Thorium-228	1.27	pCi/g	0.0599	J	0.0216	22.5	24.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Thorium-230	1.13	pCi/g	0.0559	J	0.021	22.5	24.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Thorium-232	1.09	pCi/g	0.0547	J	0.0263	22.5	24.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Toluene	0.58	ug/kg		U	0.58	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Total Xylene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	trans-1,2-Dichloroethene	0.33	ug/kg		U	0.33	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	trans-1,3-Dichloropropene	0.57	ug/kg		U	0.57	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.57	ug/kg		U	0.57	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Trichloroethene	0.19	ug/kg		U	0.19	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Trichlorofluoromethane	0.88	ug/kg		U	0.88	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Uranium	1.3	mg/kg			0.0015	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Uranium-233/234	0.844	pCi/g	0.0421	J	0.016	22.5	24.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Uranium-235	0.0413	pCi/g	0.0106	J	0.0198	22.5	24.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Uranium-236	0	pCi/g	0.00328	U	0.0222	22.5	24.5	SOIL	REG	SPS	U	8/27/2011
WD-SB-01	WDSB01-04-24.5	RADS	Uranium-238	0.99	pCi/g	0.0455	J	0.02	22.5	24.5	SOIL	REG	SPS	J	8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Vanadium	25	mg/kg			0.082	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Vinyl acetate	0.91	ug/kg		U	0.91	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-01-24.5	VOA	Vinyl chloride	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-01	WDSB01-03-24.5	METAL	Zinc	56	mg/kg			0.35	22.5	24.5	SOIL	REG	SPS		8/27/2011
WD-SB-02	WDSB02-06-2.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	1,2-Dichloroethane	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Acetone	5.2	ug/kg		U	5.2	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Benzene	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Bromomethane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-09-2.0	GTEC	Cation Exchange Capacity	0.208	meq/g			0.0018	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Chloroethane	0.85	ug/kg		U	0.85	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Chloromethane	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Dibromomethane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-07-2.0	WETCHEM	Distribution coefficient, Kd, Tc-99	3.41	mL/g				0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-07-2.0	WETCHEM	Distribution coefficient, Kd, Uranium	39.4	mL/g				0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Methylene chloride	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Styrene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Toluene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	WETCHEM	Total Organic Carbon (TOC)	3.3	g/kg		B	1.7	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Total Xylene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02RAD-0.5	RADS	Technetium-99	-0.0303	pCi/g	0.0651	U	0.22	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-02	WDSB02RAD-0.5	METAL	Total Uranium	2.45	ug/g	0		0.0131	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-02	WDSB02RAD-0.5	RADS	Uranium-233/234	0.814	pCi/g	0.0198		0.0037	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-02	WDSB02RAD-0.5	RADS	Uranium-235	0.0406	pCi/g	0.00496	J	0.00456	0.4	0.8	SOIL	REG	AUG	J	4/25/2011
WD-SB-02	WDSB02RAD-0.5	RADS	Uranium-236	0.00696	pCi/g	0.002	J	0.0041	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-02	WDSB02RAD-0.5	RADS	Uranium-238	0.818	pCi/g	0.0199		0.00368	0.4	0.8	SOIL	REG	AUG	=	4/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-02	WDSB02RAD-2.0	RADS	Technetium-99	-0.0419	pCi/g	0.0616	U	0.209	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-02	WDSB02RAD-2.0	METAL	Total Uranium	2.82	ug/g	0		0.0249	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-02	WDSB02RAD-2.0	RADS	Uranium-233/234	0.938	pCi/g	0.0293		0.00701	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-02	WDSB02RAD-2.0	RADS	Uranium-235	0.052	pCi/g	0.00775	J	0.00864	1.916666667	2.333333333	SOIL	REG	AUG	J	4/28/2011
WD-SB-02	WDSB02RAD-2.0	RADS	Uranium-236	0.00913	pCi/g	0.00321	U	0.00776	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-02	WDSB02RAD-2.0	RADS	Uranium-238	0.94	pCi/g	0.0293		0.00698	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-02	WDSB02-06-4.5	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	2-Hexanone	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Acetone	5.1	ug/kg		BJ	5	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Acrolein	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Benzene	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Bromoform	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Bromomethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-09-4.5	GTEC	Cation Exchange Capacity	0.103	meq/g			0.00171	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Chloroethane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Chloroform	0.27	ug/kg		U	0.27	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Chloromethane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Dibromomethane	0.78	ug/kg		U	0.78	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-07-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	2.81	mL/g				2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-07-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	118	mL/g				2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Iodomethane	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	M + P Xylene	0.97	ug/kg		U	0.97	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Methylene chloride	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Styrene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Toluene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	WETCHEM	Total Organic Carbon (TOC)	1.7	g/kg		U	1.7	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Total Xylene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	2-Hexanone	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Acetone	6.2	ug/kg		BJ	5	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Benzene	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Bromomethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-02	WDSB02-06-12.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-09-12.0	GTEC	Cation Exchange Capacity	0.111	meq/g			0.00176	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Chloroform	0.27	ug/kg		U	0.27	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Chloromethane	0.71	ug/kg		U	0.71	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Dibromomethane	0.78	ug/kg		U	0.78	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-07-12.0	WETCHEM	Distribution coefficient, Kd, Tc-99	3.03	mL/g				10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-07-12.0	WETCHEM	Distribution coefficient, Kd, Uranium	5.56	mL/g				10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Methylene chloride	0.7	ug/kg		U	0.7	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Styrene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Toluene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	WETCHEM	Total Organic Carbon (TOC)	3	g/kg		B	1.7	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Vinyl acetate	0.99	ug/kg		U	0.99	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Acetone	11	ug/kg		BJ	5.2	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Acrolein	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Benzene	0.46	ug/kg		U	0.46	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Bromoform	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-09-19.5	GTEC	Cation Exchange Capacity	0.0895	meq/g			0.00179	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Chloroform	0.28	ug/kg		U	0.28	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Chloromethane	0.75	ug/kg		U	0.75	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-07-19.5	WETCHEM	Distribution coefficient, Kd, Tc-99	8.16	mL/g				17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-07-19.5	WETCHEM	Distribution coefficient, Kd, Uranium	12.3	mL/g				17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	M + P Xylene	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Methylene chloride	0.73	ug/kg		U	0.73	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Styrene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Toluene	0.67	ug/kg		U	0.67	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	WETCHEM	Total Organic Carbon (TOC)	4.2	g/kg			1.7	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Total Xylene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-02	WDSB02-06-19.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Vinyl acetate	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	1,1,2-Trichloroethane	0.78	ug/kg		U	0.78	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	1,2-Dichloroethane	0.62	ug/kg		U	0.62	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	2-Butanone	12	ug/kg		J	1.6	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Acetone	62	ug/kg		B	4.7	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Acrolein	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Benzene	0.41	ug/kg		U	0.41	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Bromoform	0.2	ug/kg		U	0.2	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Carbon disulfide	3.5	ug/kg		BJ	0.37	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-09-24.5	GTEC	Cation Exchange Capacity	0.0507	meq/g			0.00167	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Chloroethane	0.78	ug/kg		U	0.78	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Chloroform	0.26	ug/kg		U	0.26	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Chloromethane	0.68	ug/kg		U	0.68	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Dibromomethane	0.74	ug/kg		U	0.74	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-07-24.5	WETCHEM	Distribution coefficient, Kd, Tc-99	7.29	mL/g				22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-07-24.5	WETCHEM	Distribution coefficient, Kd, Uranium	15.3	mL/g				22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Iodomethane	0.39	ug/kg		U	0.39	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	M + P Xylene	0.92	ug/kg		U	0.92	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Methylene chloride	1	ug/kg		J	0.66	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Styrene	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Toluene	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	WETCHEM	Total Organic Carbon (TOC)	5.2	g/kg			1.7	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Total Xylene	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Trichlorofluoromethane	0.92	ug/kg		U	0.92	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Vinyl acetate	0.94	ug/kg		U	0.94	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-02	WDSB02-06-24.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-03	WDSB03-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-01-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	4-Methylphenol	32	ug/kg		U	32	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	4-Nitrophenol	95	ug/kg		U	95	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Acetone	5	ug/kg		U	5	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Alpha activity	7.01	pCi/g	0.614		1.33	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Aluminum	17000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Americium-241	0.0383	pCi/g	0.0114	U	0.0282	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Antimony	0.36	mg/kg		U	0.36	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Arsenic	15	mg/kg			0.049	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Barium	220	mg/kg			0.071	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Benzaldehyde	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Benzoic acid	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Beryllium	1	mg/kg			0.031	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Beta activity	2.27	pCi/g	0.349	J	1.25	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	52	ug/kg		J	45	0	2	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Bromoform	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Cadmium	0.18	mg/kg		B	0.038	0	2	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Calcium	4200	mg/kg			13	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Carbazole	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Cesium-137	-0.021	pCi/g	0.0667	U	0.185	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Chromium	24	mg/kg			0.054	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	cis-1,2-Dichloroethene	0.75	ug/kg		BJ	0.52	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Cobalt	22	mg/kg			0.093	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Copper	23	mg/kg			0.2	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Dibromomethane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-02-2.0	SVOA	Fluoranthene	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Iron	30000	mg/kg			3.6	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Lead	17	mg/kg			0.25	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Magnesium	7000	mg/kg			3.5	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Manganese	590	mg/kg			0.093	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Mercury	0.033	mg/kg			0.0048	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Methylene chloride	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Molybdenum	1.3	mg/kg		B	0.24	0	2	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Neptunium-237	0.0056	pCi/g	0.0056	U	0.0268	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Nickel	38	mg/kg			0.11	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	PPCB	PCB-1221	0.016	mg/kg		U	0.016	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	PPCB	PCB-1260	0.025	mg/kg		JP	0.0027	0	2	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Phenol	51	ug/kg		J	18	0	2	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Plutonium-238	0.00885	pCi/g	0.00885	U	0.0424	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Plutonium-239/240	0.00884	pCi/g	0.00884	U	0.0423	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-2.0	PPCB	Polychlorinated biphenyl	0.025	mg/kg		JP	0.0027	0	2	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Selenium	0.13	mg/kg		U	0.13	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Sodium	190	mg/kg		B	55	0	2	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Styrene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Technetium-99	-0.105	pCi/g	0.164	U	0.554	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Thallium	0.26	mg/kg			0.0034	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Thorium-228	1.37	pCi/g	0.0876	J	0.0679	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Thorium-230	0.997	pCi/g	0.0723	J	0.0399	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Thorium-232	1.13	pCi/g	0.0768	J	0.0399	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Toluene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Trichloroethene	1.1	ug/kg		BJ	0.21	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Uranium	0.82	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Uranium-233/234	0.815	pCi/g	0.0466	J	0.0203	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Uranium-235	0.0556	pCi/g	0.0139	J	0.025	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Uranium-236	0.0118	pCi/g	0.00657	U	0.0225	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-2.0	RADS	Uranium-238	1.01	pCi/g	0.0518	J	0.0253	0	2	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Vanadium	29	mg/kg			0.088	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-2.0	METAL	Zinc	66	mg/kg			0.37	0	2	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03RAD-0.5	RADS	Technetium-99	0.0191	pCi/g	0.0652	U	0.218	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-03	WDSB03RAD-0.5	METAL	Total Uranium	2.41	ug/g	0		0.0229	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-03	WDSB03RAD-0.5	RADS	Uranium-233/234	0.808	pCi/g	0.0214		0.0127	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-03	WDSB03RAD-0.5	RADS	Uranium-235	0.0331	pCi/g	0.00483	J	0.00528	0.4	0.8	SOIL	REG	AUG	J	4/25/2011
WD-SB-03	WDSB03RAD-0.5	RADS	Uranium-236	0.0093	pCi/g	0.00248	J	0.00474	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-03	WDSB03RAD-0.5	RADS	Uranium-238	0.805	pCi/g	0.0212		0.00685	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-03	WDSB03RAD-2.0	RADS	Technetium-99	0.0779	pCi/g	0.0636	U	0.211	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-03	WDSB03RAD-2.0	METAL	Total Uranium	3.01	ug/g	0		0.0231	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-03	WDSB03RAD-2.0	RADS	Uranium-233/234	1.02	pCi/g	0.0295		0.00652	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-03	WDSB03RAD-2.0	RADS	Uranium-235	0.0473	pCi/g	0.00713	J	0.00804	1.916666667	2.333333333	SOIL	REG	AUG	J	4/28/2011
WD-SB-03	WDSB03RAD-2.0	RADS	Uranium-236	0.00283	pCi/g	0.00189	U	0.00722	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-03	WDSB03RAD-2.0	RADS	Uranium-238	1.01	pCi/g	0.0292		0.00649	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-03	WDSB03-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	1,1,2-Trichloroethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	1,2,3-Trichloropropane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	1,2-Dichloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	1,2-Dichloropropane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	2-Hexanone	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	4-Nitrophenol	95	ug/kg		U	95	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Acetone	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Acrolein	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Alpha activity	3.4	pCi/g	0.472	J	1.48	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Aluminum	12000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Americium-241	0.0268	pCi/g	0.00947	U	0.0321	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Arsenic	25	mg/kg			0.047	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Barium	58	mg/kg			0.072	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Benzene	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Beryllium	0.77	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Beta activity	1.96	pCi/g	0.321	J	1.26	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Bromomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Cadmium	0.039	mg/kg		U	0.039	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Calcium	200	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Carbon tetrachloride	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Cesium-137	-0.0356	pCi/g	0.0482	U	0.128	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-01-4.5	VOA	Chloroethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Chloroform	0.25	ug/kg		U	0.25	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Chloromethane	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Chromium	23	mg/kg			0.055	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	cis-1,2-Dichloroethene	0.69	ug/kg		BJ	0.48	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Cobalt	23	mg/kg			0.095	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Copper	11	mg/kg			0.21	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Dibromochloromethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Dibromomethane	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Iron	37000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Lead	22	mg/kg			0.26	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	M + P Xylene	0.9	ug/kg		U	0.9	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Magnesium	1200	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Manganese	1100	mg/kg			0.095	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Mercury	0.036	mg/kg			0.0054	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Methylene chloride	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Molybdenum	1.3	mg/kg		B	0.25	2.5	4.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00369	U	0.02	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Nickel	14	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Phenol	47	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Plutonium-238	0	pCi/g	0.00557	U	0.0342	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Plutonium-239/240	0.0167	pCi/g	0.00736	U	0.0213	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Selenium	0.41	mg/kg		B	0.12	2.5	4.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Sodium	130	mg/kg		B	56	2.5	4.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Styrene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Technetium-99	-0.206	pCi/g	0.162	U	0.55	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Thallium	0.17	mg/kg			0.0033	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Thorium-228	1.34	pCi/g	0.0789	J	0.0443	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Thorium-230	1.25	pCi/g	0.074	J	0.0335	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Thorium-232	1.17	pCi/g	0.0717	J	0.0334	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Toluene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Total Xylene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Trichloroethene	1	ug/kg		BJ	0.2	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Trichlorofluoromethane	0.9	ug/kg		U	0.9	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Uranium	0.9	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Uranium-233/234	1.03	pCi/g	0.0463	J	0.0159	2.5	4.5	SOIL	REG	SPS		10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-04-4.5	RADS	Uranium-235	0.0513	pCi/g	0.0118	J	0.0196	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Uranium-236	0.00691	pCi/g	0.00461	U	0.0176	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-4.5	RADS	Uranium-238	0.791	pCi/g	0.0406	J	0.0198	2.5	4.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Vanadium	41	mg/kg			0.09	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Vinyl acetate	0.92	ug/kg		U	0.92	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-4.5	METAL	Zinc	36	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	1,2-Dichloroethane	0.67	ug/kg		U	0.67	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	2-Hexanone	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-18-12.0	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	4-Methylphenol	32	ug/kg		U	32	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	4-Nitrophenol	94	ug/kg		U	94	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Acetone	5.2	ug/kg		U	5.2	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Acetone	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Alpha activity	2.67	pCi/g	0.385	J	1.24	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Alpha activity	2.74	pCi/g	0.395	J	1.28	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Aluminum	8400	mg/kg			1.4	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Aluminum	9100	mg/kg			1.5	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Americium-241	0.00221	pCi/g	0.00798	U	0.0423	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Americium-241	0.0157	pCi/g	0.00979	U	0.0429	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Antimony	0.33	mg/kg		U	0.33	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Antimony	0.37	mg/kg		U	0.37	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Arsenic	2.7	mg/kg			0.046	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Arsenic	3.3	mg/kg			0.046	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Barium	57	mg/kg			0.067	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Barium	53	mg/kg			0.074	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Benzaldehyde	65	ug/kg		U	65	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Benzaldehyde	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Benzene	0.45	ug/kg		U	0.45	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Benzene	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Benzoic acid	320	ug/kg		U	320	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Beryllium	0.37	mg/kg		B	0.029	10	12	SOIL	FR	SPS	J	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Beryllium	0.43	mg/kg		B	0.032	10	12	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Beta activity	2.19	pCi/g	0.334	J	1.31	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Beta activity	1.12	pCi/g	0.297	U	1.34	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Bromoform	0.22	ug/kg		U	0.22	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Bromoform	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Bromomethane	0.48	ug/kg		U	0.48	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Bromomethane	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Cadmium	0.036	mg/kg		U	0.036	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Cadmium	0.04	mg/kg		U	0.04	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Calcium	540	mg/kg			12	10	12	SOIL	FR	SPS	=	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-03-12.0	METAL	Calcium	570	mg/kg			14	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Carbazole	35	ug/kg		U	35	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Carbazole	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Cesium-137	0.0093	pCi/g	0.0687	U	0.201	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Cesium-137	-0.121	pCi/g	0.0737	U	0.177	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Chloroethane	0.85	ug/kg		U	0.85	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Chloroethane	0.78	ug/kg		U	0.78	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Chloroform	0.25	ug/kg		U	0.25	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Chloromethane	0.74	ug/kg		U	0.74	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Chloromethane	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Chromium	13	mg/kg			0.051	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Chromium	13	mg/kg			0.056	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	cis-1,2-Dichloroethene	0.77	ug/kg		BJ	0.54	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	cis-1,2-Dichloroethene	0.85	ug/kg		BJ	0.49	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Cobalt	2.4	mg/kg			0.088	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Cobalt	5	mg/kg			0.097	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Copper	8.7	mg/kg			0.19	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Copper	12	mg/kg			0.21	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Dibromomethane	0.81	ug/kg		U	0.81	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Dibromomethane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Fluoranthene	35	ug/kg		U	35	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Fluoranthene	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Iodomethane	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Iron	10000	mg/kg			3.3	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Iron	12000	mg/kg			3.7	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Lead	6.2	mg/kg			0.24	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Lead	9.5	mg/kg			0.26	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	M + P Xylene	0.91	ug/kg		U	0.91	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Magnesium	1500	mg/kg			3.2	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Magnesium	1600	mg/kg			3.6	10	12	SOIL	REG	SPS	=	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-19-12.0	METAL	Manganese	40	mg/kg			0.088	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Manganese	72	mg/kg			0.097	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Mercury	0.017	mg/kg			0.005	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Mercury	0.017	mg/kg			0.005	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Methylene chloride	0.72	ug/kg		U	0.72	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Methylene chloride	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Molybdenum	0.52	mg/kg		B	0.23	10	12	SOIL	FR	SPS	J	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Molybdenum	1	mg/kg		B	0.25	10	12	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Neptunium-237	0.00224	pCi/g	0.00316	U	0.0171	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Neptunium-237	0.0034	pCi/g	0.0034	U	0.0163	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Nickel	7.8	mg/kg			0.11	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Nickel	8.6	mg/kg			0.12	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Phenol	46	ug/kg		J	18	10	12	SOIL	FR	SPS	J	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Phenol	40	ug/kg		J	17	10	12	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Plutonium-238	-0.00825	pCi/g	-0.0055	U	0.0395	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Plutonium-238	-0.00296	pCi/g	-0.00887	U	0.0523	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Plutonium-239/240	0.011	pCi/g	0.00673	U	0.0263	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Plutonium-239/240	0.0118	pCi/g	0.00723	U	0.0283	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-18-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-18-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-12.0	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Selenium	0.12	mg/kg		U	0.12	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Selenium	0.12	mg/kg		U	0.12	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Silver	0.16	mg/kg		U	0.16	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Sodium	100	mg/kg		B	52	10	12	SOIL	FR	SPS	J	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Sodium	120	mg/kg		B	57	10	12	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Styrene	0.6	ug/kg		U	0.6	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Styrene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Technetium-99	-0.162	pCi/g	0.159	U	0.54	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Technetium-99	-0.0022	pCi/g	0.159	U	0.535	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Thallium	0.14	mg/kg			0.0032	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Thallium	0.13	mg/kg			0.0032	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Thorium-228	1.05	pCi/g	0.0619	J	0.0278	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Thorium-228	1.13	pCi/g	0.0513	J	0.0371	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Thorium-230	0.743	pCi/g	0.0507	J	0.0263	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Thorium-230	0.626	pCi/g	0.0369	J	0.0166	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Thorium-232	0.955	pCi/g	0.0574	J	0.0263	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Thorium-232	1.01	pCi/g	0.0469	J	0.0208	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Toluene	0.66	ug/kg		U	0.66	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Toluene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Total Xylene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Total Xylene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-01-12.0	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Trichloroethene	1.2	ug/kg		BJ	0.22	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Trichloroethene	1.2	ug/kg		BJ	0.2	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Trichlorofluoromethane	0.91	ug/kg		U	0.91	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Uranium	0.48	mg/kg			0.0014	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Uranium	0.46	mg/kg			0.0014	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Uranium-233/234	0.572	pCi/g	0.0369	J	0.0226	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Uranium-233/234	0.615	pCi/g	0.0387	J	0.0185	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Uranium-235	0.00875	pCi/g	0.00772	U	0.0359	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Uranium-235	0.0388	pCi/g	0.0112	J	0.0229	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Uranium-236	0	pCi/g	0.00371	U	0.0251	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Uranium-236	0.0107	pCi/g	0.006	U	0.0205	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-20-12.0	RADS	Uranium-238	0.546	pCi/g	0.0359	J	0.018	10	12	SOIL	FR	SPS		10/6/2011
WD-SB-03	WDSB03-04-12.0	RADS	Uranium-238	0.552	pCi/g	0.0366	J	0.0184	10	12	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Vanadium	23	mg/kg			0.082	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Vanadium	31	mg/kg			0.091	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Vinyl acetate	0.94	ug/kg		U	0.94	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-21-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	FR	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-19-12.0	METAL	Zinc	27	mg/kg			0.35	10	12	SOIL	FR	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-12.0	METAL	Zinc	30	mg/kg			0.39	10	12	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	4-Methylphenol	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	4-Nitrophenol	92	ug/kg		U	92	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Acetone	5.3	ug/kg		U	5.3	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Acrolein	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Alpha activity	3.66	pCi/g	0.441	J	1.26	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Aluminum	11000	mg/kg			1.4	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Americium-241	0.0118	pCi/g	0.00913	U	0.0417	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Aniline	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Antimony	0.35	mg/kg		U	0.35	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Arsenic	1.6	mg/kg			0.049	17.5	19.5	SOIL	REG	SPS	=	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-03-19.5	METAL	Barium	69	mg/kg			0.07	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Benzaldehyde	64	ug/kg		U	64	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Benzene	0.46	ug/kg		U	0.46	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Benzoic acid	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	R	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Beryllium	0.49	mg/kg			0.03	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Beta activity	1.26	pCi/g	0.304	U	1.32	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Bromoform	0.23	ug/kg		U	0.23	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Cadmium	0.058	mg/kg		B	0.038	17.5	19.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Calcium	710	mg/kg			13	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Carbazole	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Cesium-137	0.0263	pCi/g	0.0455	U	0.14	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Chloroform	0.28	ug/kg		U	0.28	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Chloromethane	0.75	ug/kg		U	0.75	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Chromium	15	mg/kg			0.053	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Chrysene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	cis-1,2-Dichloroethene	0.95	ug/kg		BJ	0.55	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Cobalt	5	mg/kg			0.092	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Copper	10	mg/kg			0.2	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Dibenzofuran	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Fluoranthene	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Hexachloroethane	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Iron	11000	mg/kg			3.5	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Lead	9.9	mg/kg			0.25	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	M + P Xylene	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Magnesium	1800	mg/kg			3.4	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Manganese	91	mg/kg			0.092	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Mercury	0.039	mg/kg			0.0048	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Methylene chloride	0.73	ug/kg		U	0.73	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Molybdenum	1.8	mg/kg			0.24	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Naphthalene	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Neptunium-237	0.00163	pCi/g	0.00283	U	0.0156	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Nickel	12	mg/kg			0.11	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Nitrobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	PPCB	PCB-1016	0.0047	mg/kg		U	0.0047	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	PPCB	PCB-1221	0.014	mg/kg		U	0.014	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	PPCB	PCB-1232	0.0047	mg/kg		U	0.0047	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	PPCB	PCB-1242	0.0084	mg/kg		U	0.0084	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	PPCB	PCB-1248	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	PPCB	PCB-1254	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	PPCB	PCB-1260	0.0024	mg/kg		U	0.0024	17.5	19.5	SOIL	REG	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-02-19.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Phenol	45	ug/kg		J	17	17.5	19.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Plutonium-238	-0.00564	pCi/g	-0.00564	U	0.0406	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Plutonium-239/240	0.031	pCi/g	0.00977	U	0.0216	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-19.5	PPCB	Polychlorinated biphenyl	0.0024	mg/kg		U	0.0024	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	R	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Selenium	0.13	mg/kg		U	0.13	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Silver	0.15	mg/kg		U	0.15	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Sodium	130	mg/kg		B	54	17.5	19.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Styrene	0.62	ug/kg		U	0.62	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Technetium-99	-0.0907	pCi/g	0.163	U	0.552	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Thallium	0.14	mg/kg			0.0034	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Thorium-228	1.11	pCi/g	0.0529	J	0.0358	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Thorium-230	0.701	pCi/g	0.0408	J	0.0225	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Thorium-232	1.03	pCi/g	0.0493	J	0.018	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Toluene	0.68	ug/kg		U	0.68	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Trichloroethene	1.2	ug/kg		BJ	0.23	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Uranium	0.48	mg/kg			0.0015	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Uranium-233/234	0.723	pCi/g	0.0429	J	0.0242	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Uranium-235	0.0561	pCi/g	0.0139	J	0.0299	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Uranium-236	0.0056	pCi/g	0.00686	U	0.0344	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-19.5	RADS	Uranium-238	0.765	pCi/g	0.0439	J	0.0192	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Vanadium	33	mg/kg			0.086	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Vinyl acetate	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-19.5	METAL	Zinc	40	mg/kg			0.37	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2-Methylphenol	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	4-Methylphenol	33	ug/kg		U	33	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Acenaphthene	10	ug/kg		U	10	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Acenaphthylene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Acetone	5.3	ug/kg		U	5.3	22.5	24.5	SOIL	REG	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-01-24.5	VOA	Acrolein	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Alpha activity	5.08	pCi/g	0.507		1.24	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Aluminum	10000	mg/kg			1.3	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Americium-241	0.0148	pCi/g	0.00653	U	0.0189	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Aniline	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Anthracene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Antimony	0.32	mg/kg		U	0.32	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Arsenic	4.1	mg/kg			0.046	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Barium	54	mg/kg			0.064	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Benzaldehyde	66	ug/kg		U	66	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Benzene	0.46	ug/kg		U	0.46	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Benzoic acid	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Beryllium	0.67	mg/kg			0.028	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Beta activity	1.1	pCi/g	0.302	U	1.28	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Bromoform	0.23	ug/kg		U	0.23	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Cadmium	0.24	mg/kg		B	0.035	22.5	24.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Calcium	300	mg/kg			12	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Carbazole	36	ug/kg		U	36	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Cesium-137	-0.0447	pCi/g	0.0659	U	0.176	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Chloroform	0.28	ug/kg		U	0.28	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Chloromethane	0.76	ug/kg		U	0.76	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Chromium	15	mg/kg			0.049	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Chrysene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	cis-1,2-Dichloroethene	0.8	ug/kg		BJ	0.55	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Cobalt	10	mg/kg			0.085	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Copper	11	mg/kg			0.18	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Dibenzofuran	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Fluoranthene	36	ug/kg		U	36	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Fluorene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Hexachloroethane	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Iron	11000	mg/kg			3.2	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Isophorone	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Lead	7.3	mg/kg			0.23	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	M + P Xylene	1	ug/kg		U	1	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Magnesium	1400	mg/kg			3.1	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Manganese	180	mg/kg			0.085	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Mercury	0.014	mg/kg		B	0.0051	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Methylene chloride	0.74	ug/kg		U	0.74	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Molybdenum	0.97	mg/kg		B	0.22	22.5	24.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Naphthalene	31	ug/kg		U	31	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Neptunium-237	0.0019	pCi/g	0.00268	U	0.0145	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Nickel	20	mg/kg			0.1	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Nitrobenzene	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	22.5	24.5	SOIL	REG	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-03	WDSB03-02-24.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Phenanthrene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Phenol	46	ug/kg		J	18	22.5	24.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Plutonium-238	0.00697	pCi/g	0.00604	U	0.0267	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Plutonium-239/240	0.0174	pCi/g	0.00854	U	0.0267	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-02-24.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Pyrene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-02-24.5	SVOA	Pyridine	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Selenium	0.33	mg/kg		B	0.12	22.5	24.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Silver	0.14	mg/kg		U	0.14	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Sodium	100	mg/kg		B	50	22.5	24.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Styrene	0.62	ug/kg		U	0.62	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Technetium-99	0.0584	pCi/g	0.164	U	0.547	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Thallium	0.3	mg/kg			0.0032	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Thorium-228	1.06	pCi/g	0.0491	J	0.0174	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Thorium-230	1.06	pCi/g	0.0478	J	0.0164	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Thorium-232	0.937	pCi/g	0.0449	J	0.0164	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Toluene	0.68	ug/kg		U	0.68	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Trichloroethene	1.1	ug/kg		BJ	0.23	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Uranium	1.3	mg/kg			0.0014	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Uranium-233/234	0.822	pCi/g	0.0436	J	0.0176	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Uranium-235	0.054	pCi/g	0.0127	J	0.0217	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Uranium-236	0.0051	pCi/g	0.00442	U	0.0195	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-04-24.5	RADS	Uranium-238	0.903	pCi/g	0.0456	J	0.022	22.5	24.5	SOIL	REG	SPS		10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Vanadium	26	mg/kg			0.08	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Vinyl acetate	1	ug/kg		U	1	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-01-24.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	22.5	24.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-03	WDSB03-03-24.5	METAL	Zinc	83	mg/kg			0.34	22.5	24.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-04	WDSB04-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-04	WDSB04-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Acetone	5.4	ug/kg		U	5.4	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Acrolein	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Alpha activity	2.87	pCi/g	0.611	U	2.57	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Aluminum	15000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Americium-241	0.0218	pCi/g	0.00936	U	0.0299	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Antimony	0.35	mg/kg		U	0.35	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Arsenic	12	mg/kg			0.05	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Barium	51	mg/kg			0.07	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Benzaldehyde	67	ug/kg		U	67	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Benzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Benzoic acid	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Beryllium	0.52	mg/kg			0.031	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Beta activity	0.994	pCi/g	0.52	U	2.68	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Cadmium	0.04	mg/kg		B	0.038	0	2	SOIL	REG	SPS	J	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Calcium	41	mg/kg		B	13	0	2	SOIL	REG	SPS	J	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Cesium-137	0.338	pCi/g	0.055	U	0.212	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Chloroethane	0.89	ug/kg		U	0.89	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Chloromethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Chromium	18	mg/kg			0.054	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	cis-1,2-Dichloroethene	0.87	ug/kg		BJ	0.56	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Cobalt	5.6	mg/kg			0.093	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Copper	13	mg/kg			0.2	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Dibromomethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Iodomethane	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Iron	23000	mg/kg			3.5	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Lead	12	mg/kg			0.25	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Magnesium	1200	mg/kg			3.4	0	2	SOIL	REG	SPS	=	10/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-04	WDSB04-03-2.0	METAL	Manganese	80	mg/kg			0.093	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Mercury	0.031	mg/kg			0.0054	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Methylene chloride	0.75	ug/kg		U	0.75	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Molybdenum	0.61	mg/kg		B	0.24	0	2	SOIL	REG	SPS	J	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Neptunium-237	0.00196	pCi/g	0.00277	U	0.015	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Nickel	13	mg/kg			0.11	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Phenol	38	ug/kg		J	18	0	2	SOIL	REG	SPS	J	10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Plutonium-238	0.00327	pCi/g	0.00567	U	0.0313	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Plutonium-239/240	0.00981	pCi/g	0.00654	U	0.025	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-02-2.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Selenium	0.18	mg/kg		B	0.13	0	2	SOIL	REG	SPS	J	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Sodium	74	mg/kg		B	55	0	2	SOIL	REG	SPS	J	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Styrene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Technetium-99	-0.248	pCi/g	0.162	U	0.555	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Thallium	0.19	mg/kg			0.0035	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Thorium-228	1.09	pCi/g	0.0565	J	0.0224	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Thorium-230	1.03	pCi/g	0.0535	J	0.0212	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Thorium-232	0.88	pCi/g	0.0495	J	0.0265	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Toluene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Total Xylene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Trichloroethene	1.3	ug/kg		BJ	0.23	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Uranium	0.55	mg/kg			0.0016	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Uranium-233/234	0.83	pCi/g	0.0461	J	0.0195	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Uranium-235	0.0441	pCi/g	0.0122	J	0.0241	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Uranium-236	0.0142	pCi/g	0.00749	U	0.0271	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-2.0	RADS	Uranium-238	0.697	pCi/g	0.0423	J	0.0244	0	2	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Vanadium	36	mg/kg			0.087	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-2.0	METAL	Zinc	38	mg/kg			0.37	0	2	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04RAD-0.5	RADS	Technetium-99	0.0503	pCi/g	0.0632	U	0.21	0.4	0.7	SOIL	REG	AUG	U	4/21/2011
WD-SB-04	WDSB04RAD-0.5	METAL	Total Uranium	2.68	ug/g	0		0.0244	0.4	0.7	SOIL	REG	AUG	=	4/21/2011
WD-SB-04	WDSB04RAD-0.5	RADS	Uranium-233/234	0.887	pCi/g	0.0257		0.00568	0.4	0.7	SOIL	REG	AUG	=	4/21/2011
WD-SB-04	WDSB04RAD-0.5	RADS	Uranium-235	0.0403	pCi/g	0.00614	J	0.00701	0.4	0.7	SOIL	REG	AUG	J	4/21/2011
WD-SB-04	WDSB04RAD-0.5	RADS	Uranium-236	0.00411	pCi/g	0.00247	U	0.0101	0.4	0.7	SOIL	REG	AUG	U	4/21/2011
WD-SB-04	WDSB04RAD-0.5	RADS	Uranium-238	0.895	pCi/g	0.0257		0.00708	0.4	0.7	SOIL	REG	AUG	=	4/21/2011
WD-SB-04	WDSB04RAD-2.0	RADS	Technetium-99	-0.00507	pCi/g	0.0648	U	0.218	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-04	WDSB04RAD-2.0	METAL	Total Uranium	2.74	ug/g	0		0.0173	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-04	WDSB04RAD-2.0	RADS	Uranium-233/234	0.859	pCi/g	0.0234		0.00488	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-04	WDSB04RAD-2.0	RADS	Uranium-235	0.0433	pCi/g	0.00589	J	0.00602	1.916666667	2.333333333	SOIL	REG	AUG	J	4/28/2011
WD-SB-04	WDSB04RAD-2.0	RADS	Uranium-236	0.00424	pCi/g	0.002	U	0.00677	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-04	WDSB04RAD-2.0	RADS	Uranium-238	0.915	pCi/g	0.0241		0.00486	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-04	WDSB04-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-04	WDSB04-02-4.5	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	2-Hexanone	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Acetone	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Acrolein	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Alpha activity	5.56	pCi/g	0.554		1.36	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Aluminum	12000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Americium-241	0.0222	pCi/g	0.00962	U	0.0342	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Arsenic	16	mg/kg			0.045	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Barium	700	mg/kg			0.072	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Benzene	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Beryllium	0.81	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Beta activity	1.23	pCi/g	0.323	U	1.36	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Bromoform	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Bromomethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Cadmium	0.039	mg/kg		U	0.039	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Calcium	190	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Cesium-137	-0.017	pCi/g	0.0531	U	0.147	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Chloroethane	0.84	ug/kg		U	0.84	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Chloroform	0.27	ug/kg		U	0.27	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Chloromethane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Chromium	17	mg/kg			0.055	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	cis-1,2-Dichloroethene	0.88	ug/kg		BJ	0.53	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Cobalt	14	mg/kg			0.095	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Copper	17	mg/kg			0.21	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Dibromomethane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS	U	10/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-04	WDSB04-01-4.5	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Iodomethane	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Iron	19000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Lead	11	mg/kg			0.26	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	M + P Xylene	0.98	ug/kg		U	0.98	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Magnesium	2500	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Manganese	140	mg/kg			0.095	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Mercury	0.026	mg/kg			0.0054	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Methylene chloride	1	ug/kg		BJ	0.7	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Molybdenum	0.25	mg/kg		U	0.25	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00422	U	0.0286	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Nickel	24	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Phenol	47	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS	J	10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Plutonium-238	-0.00337	pCi/g	-0.00583	U	0.0414	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Plutonium-239/240	0.0135	pCi/g	0.00752	U	0.0257	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Selenium	0.12	mg/kg		U	0.12	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Sodium	130	mg/kg		B	56	2.5	4.5	SOIL	REG	SPS	J	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Styrene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Technetium-99	0.0864	pCi/g	0.166	U	0.554	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Thallium	0.15	mg/kg			0.0031	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Thorium-228	1.6	pCi/g	0.089	J	0.0377	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Thorium-230	0.765	pCi/g	0.0601	J	0.0447	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Thorium-232	1.44	pCi/g	0.082	J	0.0356	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Toluene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Total Xylene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Trichloroethene	1.3	ug/kg		BJ	0.22	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Uranium	0.38	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Uranium-233/234	0.728	pCi/g	0.0457	J	0.0218	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Uranium-235	0.0423	pCi/g	0.0127	J	0.027	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Uranium-236	0.019	pCi/g	0.00837	U	0.0242	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-4.5	RADS	Uranium-238	0.677	pCi/g	0.044	J	0.0218	2.5	4.5	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Vanadium	27	mg/kg			0.09	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-4.5	METAL	Zinc	50	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	1,1,2-Trichloroethane	0.79	ug/kg		U	0.79	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	1,1-Dichloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-04	WDSB04-01-12.0	VOA	1,2,3-Trichloropropane	0.72	ug/kg		U	0.72	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	1,2-Dichloroethane	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	2-Hexanone	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	4-Methylphenol	32	ug/kg		U	32	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	4-Nitrophenol	94	ug/kg		U	94	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Acetone	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Alpha activity	5.14	pCi/g	0.536		1.36	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Aluminum	13000	mg/kg			1.4	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Americium-241	0.0259	pCi/g	0.0091	U	0.022	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Antimony	0.34	mg/kg		U	0.34	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Arsenic	11	mg/kg			0.044	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Barium	45	mg/kg			0.068	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Benzaldehyde	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Benzene	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Benzenemethanol	9.6	ug/kg		U	9.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Benzoic acid	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Beryllium	0.88	mg/kg			0.029	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Beta activity	2.89	pCi/g	0.372	J	1.31	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Bromomethane	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Cadmium	0.037	mg/kg		U	0.037	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Calcium	810	mg/kg			13	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Carbazole	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Cesium-137	0.0531	pCi/g	0.0507	U	0.162	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Chloroethane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Chloroform	0.26	ug/kg		U	0.26	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Chloromethane	0.69	ug/kg		U	0.69	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Chromium	21	mg/kg			0.052	10	12	SOIL	REG	SPS	=	10/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-04	WDSB04-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	cis-1,2-Dichloroethene	0.72	ug/kg		BJ	0.5	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Cobalt	11	mg/kg			0.089	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Copper	24	mg/kg			0.19	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Dibromochloromethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Dibromomethane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Ethylbenzene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Fluoranthene	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Iodomethane	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Iron	22000	mg/kg			3.4	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Lead	17	mg/kg			0.24	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	M + P Xylene	0.93	ug/kg		U	0.93	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Magnesium	3800	mg/kg			3.3	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Manganese	180	mg/kg			0.089	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Mercury	0.022	mg/kg			0.0054	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Methylene chloride	0.69	ug/kg		BJ	0.67	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Molybdenum	0.23	mg/kg		U	0.23	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Neptunium-237	0	pCi/g	0.00385	U	0.0208	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Nickel	29	mg/kg			0.11	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	PPCB	PCB-1016	0.0048	mg/kg		JU	0.0048	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	PPCB	PCB-1221	0.015	mg/kg		JU	0.015	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	PPCB	PCB-1232	0.0049	mg/kg		JU	0.0049	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	PPCB	PCB-1242	0.0087	mg/kg		JU	0.0087	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	PPCB	PCB-1248	0.0053	mg/kg		JU	0.0053	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	PPCB	PCB-1254	0.0053	mg/kg		JU	0.0053	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	PPCB	PCB-1260	0.0025	mg/kg		JU	0.0025	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Phenol	43	ug/kg		J	17	10	12	SOIL	REG	SPS	J	10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Plutonium-238	0	pCi/g	0.00534	U	0.0289	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Plutonium-239/240	0.00377	pCi/g	0.00844	U	0.0464	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-02-12.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		JU	0.0025	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Selenium	0.12	mg/kg		U	0.12	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Sodium	250	mg/kg		B	53	10	12	SOIL	REG	SPS	J	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Styrene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Technetium-99	-0.119	pCi/g	0.15	U	0.508	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Tetrachloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Thallium	0.15	mg/kg			0.0031	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Thorium-228	1.45	pCi/g	0.0813	J	0.0645	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Thorium-230	0.87	pCi/g	0.0609	J	0.0325	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Thorium-232	1.31	pCi/g	0.0747	J	0.0324	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Toluene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Total Xylene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	trans-1,3-Dichloropropene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Trichloroethene	0.87	ug/kg		BJ	0.21	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Trichlorofluoromethane	0.93	ug/kg		U	0.93	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Uranium	0.54	mg/kg			0.0014	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Uranium-233/234	0.869	pCi/g	0.0513	J	0.0231	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Uranium-235	0.00372	pCi/g	0.00645	U	0.0357	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Uranium-236	0.00334	pCi/g	0.00579	U	0.032	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-04-12.0	RADS	Uranium-238	0.812	pCi/g	0.0495	J	0.023	10	12	SOIL	REG	SPS		10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Vanadium	31	mg/kg			0.084	10	12	SOIL	REG	SPS	=	10/7/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-04	WDSB04-01-12.0	VOA	Vinyl acetate	0.96	ug/kg		U	0.96	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-01-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	10/7/2011
WD-SB-04	WDSB04-03-12.0	METAL	Zinc	61	mg/kg			0.36	10	12	SOIL	REG	SPS	=	10/7/2011
WD-SB-05	WDSB05-06-2.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Acetone	18	ug/kg		BJ	5	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Alpha activity	7.18	pCi/g	0.821		2.05	0	2	SOIL	REG	SPS	=	8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Aluminum	12000	mg/kg			1.5	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Americium-241	0.0212	pCi/g	0.00972	U	0.0381	0	2	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Antimony	0.38	mg/kg		U	0.38	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Arsenic	12	mg/kg			0.051	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Barium	83	mg/kg			0.075	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Benzaldehyde	67	ug/kg		U	67	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Benzenemethanol	26	ug/kg		J	9.9	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Benzoic acid	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Beryllium	0.63	mg/kg			0.033	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Beta activity	0.917	pCi/g	0.488	U	2.34	0	2	SOIL	REG	SPS	UJ	8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Bromoform	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Cadmium	0.086	mg/kg		B	0.041	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Calcium	1800	mg/kg			14	0	2	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-05	WDSB05-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-09-2.0	GTEC	Cation Exchange Capacity	0.242	meq/g			0.00181	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Cesium-137	0.348	pCi/g	0.0769	U	0.308	0	2	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Chromium	17	mg/kg			0.057	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Cobalt	11	mg/kg			0.099	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Copper	13	mg/kg			0.21	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Dibromomethane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-07-2.0	WETCHEM	Distribution coefficient, Kd, Tc-99	2.72	mL/g				0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-07-2.0	WETCHEM	Distribution coefficient, Kd, Uranium	5.98	mL/g				0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Iron	23000	mg/kg			3.8	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Lead	16	mg/kg			0.27	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Magnesium	2100	mg/kg			3.7	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Manganese	290	mg/kg			0.099	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Mercury	0.025	mg/kg			0.0055	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Methylene chloride	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Molybdenum	2	mg/kg			0.26	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Neptunium-237	0.00245	pCi/g	0.00346	U	0.0187	0	2	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Nickel	17	mg/kg			0.12	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	PPCB	PCB-1221	0.016	mg/kg		U	0.016	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Phenol	21	ug/kg		J	18	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Plutonium-238	0.0025	pCi/g	0.00662	U	0.036	0	2	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Plutonium-239/240	0.045	pCi/g	0.0109	J	0.0191	0	2	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Pyrene	12	ug/kg		J	12	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Selenium	0.25	mg/kg		B	0.13	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Silver	0.16	mg/kg		U	0.16	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Sodium	58	mg/kg		B	58	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Styrene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Technetium-99	0.144	pCi/g	0.145	U	0.482	0	2	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Thallium	0.24	mg/kg			0.0035	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Thorium-228	1.11	pCi/g	0.0554	J	0.0578	0	2	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Thorium-230	1.23	pCi/g	0.0566	J	0.0198	0	2	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Thorium-232	1.06	pCi/g	0.0525	J	0.0198	0	2	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Toluene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-05	WDSB05-06-2.0	WETCHEM	Total Organic Carbon (TOC)	1.7	g/kg		U	1.7	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Uranium	0.97	mg/kg			0.0016	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Uranium-233/234	1.22	pCi/g	0.0516	J	0.0166	0	2	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Uranium-235	0.0564	pCi/g	0.0126	J	0.0205	0	2	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Uranium-236	0.00964	pCi/g	0.0059	U	0.0231	0	2	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-04-2.0	RADS	Uranium-238	1.08	pCi/g	0.0484	J	0.0166	0	2	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Vanadium	29	mg/kg			0.093	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-2.0	METAL	Zinc	41	mg/kg			0.39	0	2	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05RAD-0.5	RADS	Technetium-99	-0.0903	pCi/g	0.0647	U	0.221	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-05	WDSB05RAD-0.5	METAL	Total Uranium	2.19	ug/g	0		0.014	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-05	WDSB05RAD-0.5	RADS	Uranium-233/234	0.729	pCi/g	0.0194		0.00395	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-05	WDSB05RAD-0.5	RADS	Uranium-235	0.0459	pCi/g	0.00544	J	0.00487	0.4	0.8	SOIL	REG	AUG	J	4/25/2011
WD-SB-05	WDSB05RAD-0.5	RADS	Uranium-236	0.00458	pCi/g	0.00172	U	0.00438	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-05	WDSB05RAD-0.5	RADS	Uranium-238	0.728	pCi/g	0.0194		0.00393	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-05	WDSB05RAD-2.0	RADS	Technetium-99	-0.0225	pCi/g	0.0619	U	0.209	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-05	WDSB05RAD-2.0	METAL	Total Uranium	2.94	ug/g	0		0.0255	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-05	WDSB05RAD-2.0	RADS	Uranium-233/234	0.887	pCi/g	0.0289		0.00718	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-05	WDSB05RAD-2.0	RADS	Uranium-235	0.0393	pCi/g	0.00685	J	0.00885	1.916666667	2.333333333	SOIL	REG	AUG	J	4/28/2011
WD-SB-05	WDSB05RAD-2.0	RADS	Uranium-236	0.00727	pCi/g	0.00294	U	0.00795	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-05	WDSB05RAD-2.0	RADS	Uranium-238	0.984	pCi/g	0.0303		0.00715	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-05	WDSB05-06-4.5	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	1,2,3-Trichloropropane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	2-Hexanone	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Acetone	9.9	ug/kg		BJ	5.1	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Acrolein	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Benzene	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Bromoform	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Bromomethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-09-4.5	GTEC	Cation Exchange Capacity	0.206	meq/g			0.00176	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Chloroethane	0.84	ug/kg		U	0.84	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Chloromethane	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Dibromomethane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-07-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	3.75	mL/g				2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-07-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	6.32	mL/g				2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Iodomethane	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	M + P Xylene	0.99	ug/kg		U	0.99	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Methylene chloride	0.71	ug/kg		U	0.71	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Styrene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Toluene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	WETCHEM	Total Organic Carbon (TOC)	1.7	g/kg		U	1.7	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Total Xylene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Trichlorofluoromethane	0.99	ug/kg		U	0.99	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-05	WDSB05-06-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	1,1,1,2-Tetrachloroethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	1,1,1-Trichloroethane	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	1,1,2,2-Tetrachloroethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	1,1,2-Trichloroethane	0.73	ug/kg		U	0.73	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	1,1-Dichloroethane	0.17	ug/kg		U	0.17	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	1,1-Dichloroethene	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	1,2,3-Trichloropropane	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	1,2-Dichloroethane	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	1,2-Dichloropropane	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	1,2-Dimethylbenzene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	2-Butanone	1.5	ug/kg		U	1.5	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	2-Chloroethyl vinyl ether	4.1	ug/kg		U	4.1	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	2-Hexanone	4.3	ug/kg		U	4.3	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	2-Hexanone	4	ug/kg		U	4	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	4-Methyl-2-pentanone	3.6	ug/kg		U	3.6	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Acetone	5.6	ug/kg		BJ	4.7	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Acetone	9.9	ug/kg		BJ	4.4	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Acrolein	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Acrylonitrile	4	ug/kg		U	4	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Alpha activity	4.79	pCi/g	0.666	J	1.94	10	12	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Aluminum	11000	mg/kg			1.4	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Americium-241	0.028	pCi/g	0.0108	U	0.0411	10	12	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Antimony	0.44	mg/kg		B	0.36	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Arsenic	13	mg/kg			0.049	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Barium	64	mg/kg			0.071	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Benzene	0.41	ug/kg		U	0.41	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Benzene	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Benzenemethanol	32	ug/kg		J	9.9	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-05	WDSB05-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Beryllium	0.7	mg/kg			0.031	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Beta activity	1.34	pCi/g	0.474	U	2.22	10	12	SOIL	REG	SPS	UJ	8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Bromodichloromethane	0.18	ug/kg		U	0.18	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Bromoform	0.2	ug/kg		U	0.2	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Bromoform	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Bromomethane	0.44	ug/kg		U	0.44	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Bromomethane	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Cadmium	0.22	mg/kg		B	0.038	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Calcium	1600	mg/kg			13	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Carbon disulfide	0.35	ug/kg		U	0.35	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Carbon tetrachloride	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-23-12.0	GTEC	Cation Exchange Capacity	0.189	meq/g			0.00174	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-09-12.0	GTEC	Cation Exchange Capacity	0.382	meq/g			0.00176	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Cesium-137	0.0217	pCi/g	0.0504	U	0.153	10	12	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Chlorobenzene	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Chloroethane	0.78	ug/kg		U	0.78	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Chloroethane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Chloroform	0.25	ug/kg		U	0.25	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Chloroform	0.24	ug/kg		U	0.24	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Chloromethane	0.67	ug/kg		U	0.67	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Chloromethane	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Chromium	16	mg/kg			0.054	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	cis-1,2-Dichloroethene	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Cobalt	15	mg/kg			0.093	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Copper	18	mg/kg			0.2	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Dibromochloromethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Dibromomethane	0.74	ug/kg		U	0.74	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Dibromomethane	0.69	ug/kg		U	0.69	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Dichlorodifluoromethane	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-22-12.0	WETCHEM	Distribution coefficient, Kd, Tc-99	4.72	mL/g				10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-07-12.0	WETCHEM	Distribution coefficient, Kd, Tc-99	3.81	mL/g				10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-22-12.0	WETCHEM	Distribution coefficient, Kd, Uranium	11.3	mL/g				10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-07-12.0	WETCHEM	Distribution coefficient, Kd, Uranium	6.04	mL/g				10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Ethyl methacrylate	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Ethylbenzene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Iodomethane	0.39	ug/kg		U	0.39	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Iodomethane	0.36	ug/kg		U	0.36	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Iron	24000	mg/kg			3.6	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Lead	12	mg/kg			0.25	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	M + P Xylene	0.91	ug/kg		U	0.91	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	M + P Xylene	0.86	ug/kg		U	0.86	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Magnesium	3000	mg/kg			3.5	10	12	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-05	WDSB05-03-12.0	METAL	Manganese	680	mg/kg			0.093	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Mercury	0.015	mg/kg		B	0.0051	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Methylene chloride	0.66	ug/kg		U	0.66	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Methylene chloride	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Molybdenum	2	mg/kg			0.24	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Neptunium-237	0.0139	pCi/g	0.00615	U	0.0178	10	12	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Nickel	25	mg/kg			0.11	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Phenol	23	ug/kg		J	18	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Plutonium-238	0.00239	pCi/g	0.00338	U	0.0183	10	12	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Plutonium-239/240	0.0335	pCi/g	0.00926	J	0.0183	10	12	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Selenium	0.27	mg/kg		B	0.13	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Sodium	180	mg/kg		B	55	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Styrene	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Styrene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Technetium-99	-0.121	pCi/g	0.139	U	0.473	10	12	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Tetrachloroethene	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Thallium	0.24	mg/kg			0.0034	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Thorium-228	1.01	pCi/g	0.0504	J	0.0466	10	12	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Thorium-230	1.1	pCi/g	0.0512	J	0.0226	10	12	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Thorium-232	0.914	pCi/g	0.0465	J	0.0181	10	12	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Toluene	0.6	ug/kg		U	0.6	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Toluene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	WETCHEM	Total Organic Carbon (TOC)	2.3	g/kg		B	1.7	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	WETCHEM	Total Organic Carbon (TOC)	1.7	g/kg		U	1.7	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Total Xylene	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Total Xylene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	trans-1,2-Dichloroethene	0.32	ug/kg		U	0.32	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	trans-1,3-Dichloropropene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Trichloroethene	0.2	ug/kg		U	0.2	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Trichloroethene	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Trichlorofluoromethane	0.91	ug/kg		U	0.91	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Trichlorofluoromethane	0.86	ug/kg		U	0.86	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Uranium	0.75	mg/kg			0.0015	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Uranium-233/234	0.749	pCi/g	0.039	J	0.0155	10	12	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Uranium-235	0.0424	pCi/g	0.0106	J	0.0191	10	12	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Uranium-236	0.0112	pCi/g	0.00549	U	0.0172	10	12	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-04-12.0	RADS	Uranium-238	1.01	pCi/g	0.0452	J	0.0154	10	12	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Vanadium	26	mg/kg			0.088	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Vinyl acetate	0.94	ug/kg		U	0.94	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Vinyl acetate	0.88	ug/kg		U	0.88	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-17-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	FR	SPS		8/23/2011
WD-SB-05	WDSB05-06-12.0	VOA	Vinyl chloride	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-12.0	METAL	Zinc	50	mg/kg			0.37	10	12	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-05	WDSB05-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	2-Hexanone	4.5	ug/kg		U	4.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	4-Methylphenol	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	4-Nitrophenol	92	ug/kg		U	92	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Acetone	7.2	ug/kg		BJ	4.9	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Acrolein	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Alpha activity	5.42	pCi/g	0.728		2.06	17.5	19.5	SOIL	REG	SPS	=	8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Aluminum	12000	mg/kg			1.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Americium-241	0.0138	pCi/g	0.00863	U	0.0372	17.5	19.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Aniline	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Antimony	0.36	mg/kg		U	0.36	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Arsenic	2.5	mg/kg			0.043	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Barium	67	mg/kg			0.072	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Benzaldehyde	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Benzene	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Benzenemethanol	29	ug/kg		J	9.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Benzoic acid	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Beryllium	0.61	mg/kg			0.031	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Beta activity	2.18	pCi/g	0.52	U	2.26	17.5	19.5	SOIL	REG	SPS	UJ	8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Bromoform	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Bromomethane	0.46	ug/kg		U	0.46	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Cadmium	0.043	mg/kg		B	0.039	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Calcium	1200	mg/kg			13	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Carbazole	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-09-19.5	GTEC	Cation Exchange Capacity	0.148	meq/g			0.00175	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Cesium-137	-0.047	pCi/g	0.0601	U	0.159	17.5	19.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Chloroethane	0.81	ug/kg		U	0.81	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Chloroform	0.26	ug/kg		U	0.26	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Chloromethane	0.7	ug/kg		U	0.7	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Chromium	16	mg/kg			0.055	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Chrysene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Cobalt	7.4	mg/kg			0.095	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Copper	9.9	mg/kg			0.21	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-05	WDSB05-02-19.5	SVOA	Dibenzofuran	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Dibromomethane	0.76	ug/kg		U	0.76	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-07-19.5	WETCHEM	Distribution coefficient, Kd, Tc-99	4.19	mL/g				17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-07-19.5	WETCHEM	Distribution coefficient, Kd, Uranium	12.1	mL/g				17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Fluoranthene	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Hexachloroethane	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Iodomethane	0.4	ug/kg		U	0.4	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Iron	14000	mg/kg			3.6	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Lead	7.2	mg/kg			0.26	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	M + P Xylene	0.95	ug/kg		U	0.95	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Magnesium	2600	mg/kg			3.5	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Manganese	160	mg/kg			0.095	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Mercury	0.0053	mg/kg		U	0.0053	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Methylene chloride	0.68	ug/kg		U	0.68	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Molybdenum	0.85	mg/kg		B	0.25	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Naphthalene	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Neptunium-237	0	pCi/g	0.00328	U	0.0177	17.5	19.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Nickel	19	mg/kg			0.12	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Nitrobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Phenol	22	ug/kg		J	17	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Plutonium-238	0.00265	pCi/g	0.00375	U	0.0203	17.5	19.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Plutonium-239/240	0.0106	pCi/g	0.00592	U	0.0203	17.5	19.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Pyrene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Selenium	0.11	mg/kg		U	0.11	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Silver	0.15	mg/kg		U	0.15	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Sodium	170	mg/kg		B	56	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Styrene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Technetium-99	-0.12	pCi/g	0.153	U	0.519	17.5	19.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Thallium	0.19	mg/kg			0.003	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Thorium-228	1.24	pCi/g	0.0694	J	0.0612	17.5	19.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Thorium-230	1.35	pCi/g	0.0709	J	0.0451	17.5	19.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Thorium-232	1.06	pCi/g	0.0632	J	0.0592	17.5	19.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Toluene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	WETCHEM	Total Organic Carbon (TOC)	1.7	g/kg		U	1.7	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Total Xylene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Trichlorofluoromethane	0.95	ug/kg		U	0.95	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Uranium	0.59	mg/kg			0.0013	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Uranium-233/234	1.31	pCi/g	0.0545	J	0.0174	17.5	19.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Uranium-235	0.0616	pCi/g	0.0134	J	0.0214	17.5	19.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Uranium-236	0.0126	pCi/g	0.00615	U	0.0192	17.5	19.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-04-19.5	RADS	Uranium-238	1.08	pCi/g	0.0495	J	0.0173	17.5	19.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Vanadium	22	mg/kg			0.09	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-19.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-19.5	METAL	Zinc	48	mg/kg			0.38	17.5	19.5	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-05	WDSB05-06-24.5	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2-Methylphenol	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	4-Methylphenol	31	ug/kg		U	31	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	4-Nitrophenol	91	ug/kg		U	91	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Acenaphthene	9.6	ug/kg		U	9.6	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Acenaphthylene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Acetone	5	ug/kg		BJ	4.7	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Acrolein	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Alpha activity	6.78	pCi/g	0.775		1.94	22.5	24.5	SOIL	REG	SPS	=	8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Aluminum	11000	mg/kg			1.4	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Americium-241	-0.00449	pCi/g	0.00952	U	0.0534	22.5	24.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Aniline	120	ug/kg		U	120	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Anthracene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Antimony	0.35	mg/kg		U	0.35	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Arsenic	6.8	mg/kg			0.046	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Barium	65	mg/kg			0.07	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Benzaldehyde	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Benzene	0.41	ug/kg		U	0.41	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Benzenemethanol	21	ug/kg		J	9.3	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Benzoic acid	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Beryllium	0.55	mg/kg			0.03	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Beta activity	0.53	pCi/g	0.449	U	2.23	22.5	24.5	SOIL	REG	SPS	UJ	8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Bis(2-ethylhexyl)phthalate	43	ug/kg		U	43	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Bromoform	0.2	ug/kg		U	0.2	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Cadmium	0.12	mg/kg		B	0.038	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Calcium	1100	mg/kg			13	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Carbazole	34	ug/kg		U	34	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-05	WDSB05-09-24.5	GTEC	Cation Exchange Capacity	0.119	meq/g			0.00176	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Cesium-137	0.0144	pCi/g	0.0499	U	0.148	22.5	24.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Chloroethane	0.78	ug/kg		U	0.78	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Chloroform	0.25	ug/kg		U	0.25	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Chloromethane	0.67	ug/kg		U	0.67	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Chromium	15	mg/kg			0.053	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Chrysene	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Cobalt	5.7	mg/kg			0.092	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Copper	11	mg/kg			0.2	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Dibenzofuran	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Dibromomethane	0.73	ug/kg		U	0.73	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Dimethyl phthalate	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-07-24.5	WETCHEM	Distribution coefficient, Kd, Tc-99	4.07	mL/g				22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-07-24.5	WETCHEM	Distribution coefficient, Kd, Uranium	3.67	mL/g				22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Fluoranthene	34	ug/kg		U	34	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Fluorene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Hexachloroethane	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Iron	16000	mg/kg			3.5	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Isophorone	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Lead	7.4	mg/kg			0.25	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	M + P Xylene	0.91	ug/kg		U	0.91	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Magnesium	1800	mg/kg			3.4	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Manganese	94	mg/kg			0.092	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Mercury	0.0072	mg/kg		B	0.0048	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Methylene chloride	0.66	ug/kg		U	0.66	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Molybdenum	2.3	mg/kg			0.24	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Naphthalene	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Neptunium-237	0	pCi/g	0.00293	U	0.0158	22.5	24.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Nickel	15	mg/kg			0.11	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Nitrobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Phenanthrene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Phenol	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Plutonium-238	0.0138	pCi/g	0.00862	U	0.0372	22.5	24.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Plutonium-239/240	0.0161	pCi/g	0.00691	U	0.022	22.5	24.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-02-24.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Pyrene	11	ug/kg		U	11	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-02-24.5	SVOA	Pyridine	120	ug/kg		U	120	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Selenium	0.12	mg/kg		U	0.12	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Silver	0.15	mg/kg		U	0.15	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Sodium	140	mg/kg		B	54	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Styrene	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Technetium-99	0.0819	pCi/g	0.162	U	0.541	22.5	24.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Thallium	0.28	mg/kg			0.0032	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Thorium-228	1.15	pCi/g	0.0544	J	0.041	22.5	24.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Thorium-230	1.54	pCi/g	0.0615	J	0.0188	22.5	24.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Thorium-232	1.1	pCi/g	0.0521	J	0.0188	22.5	24.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Toluene	0.6	ug/kg		U	0.6	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	WETCHEM	Total Organic Carbon (TOC)	1.7	g/kg		U	1.7	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Total Xylene	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	22.5	24.5	SOIL	REG	SPS		8/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-05	WDSB05-06-24.5	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Trichlorofluoromethane	0.91	ug/kg		U	0.91	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Uranium	0.97	mg/kg			0.0014	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Uranium-233/234	1.37	pCi/g	0.0521	J	0.019	22.5	24.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Uranium-235	0.0782	pCi/g	0.014	J	0.0187	22.5	24.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Uranium-236	0.0132	pCi/g	0.00581	U	0.0168	22.5	24.5	SOIL	REG	SPS	U	8/23/2011
WD-SB-05	WDSB05-04-24.5	RADS	Uranium-238	1.37	pCi/g	0.052	J	0.0189	22.5	24.5	SOIL	REG	SPS	J	8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Vanadium	34	mg/kg			0.086	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Vinyl acetate	0.93	ug/kg		U	0.93	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-06-24.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-05	WDSB05-03-24.5	METAL	Zinc	53	mg/kg			0.37	22.5	24.5	SOIL	REG	SPS		8/23/2011
WD-SB-06	WDSB06-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	1,2-Dimethylbenzene	1.1	ug/kg		J	0.59	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2,4,5-Trichlorophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2,4,6-Trichlorophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2,4-Dichlorophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2-Chloronaphthalene	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	2-Nitrophenol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	4-Nitrophenol	91	ug/kg		U	91	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Acetone	5.2	ug/kg		U	5.2	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Alpha activity	5.44	pCi/g	0.753		2.37	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Aluminum	13000	mg/kg			1.5	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Americium-241	0.031	pCi/g	0.0109	U	0.0346	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Antimony	0.38	mg/kg		U	0.38	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Arsenic	12	mg/kg			0.045	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Barium	67	mg/kg			0.075	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Benzaldehyde	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Benzene	0.53	ug/kg		J	0.46	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Benzenemethanol	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Beryllium	0.7	mg/kg			0.033	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Beta activity	3.43	pCi/g	0.618	J	2.53	0	2	SOIL	REG	SPS		10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-06	WDSB06-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	63	ug/kg		J	43	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Cadmium	0.041	mg/kg		U	0.041	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Calcium	79	mg/kg			14	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Cesium-137	0.27	pCi/g	0.115	U	0.417	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Chloroethane	0.86	ug/kg		U	0.86	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Chloromethane	0.75	ug/kg		U	0.75	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Chromium	15	mg/kg			0.057	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Chrysene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Cobalt	30	mg/kg			0.099	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Copper	9.2	mg/kg			0.21	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Dibromomethane	0.82	ug/kg		U	0.82	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Ethylbenzene	0.75	ug/kg		J	0.65	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Hexachlorobutadiene	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Iodomethane	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Iron	19000	mg/kg			3.8	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Lead	26	mg/kg			0.27	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	M + P Xylene	3.6	ug/kg			1	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Magnesium	1100	mg/kg			3.7	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Manganese	1400	mg/kg			0.099	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Mercury	0.024	mg/kg			0.0052	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Methylene chloride	2.1	ug/kg		BJ	0.73	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Molybdenum	0.56	mg/kg		B	0.26	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Neptunium-237	0	pCi/g	0.00361	U	0.0195	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Nickel	12	mg/kg			0.12	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Phenol	40	ug/kg		J	17	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Plutonium-238	0.00374	pCi/g	0.00648	U	0.0358	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Plutonium-239/240	0.0224	pCi/g	0.00989	U	0.0286	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Pyrene	13	ug/kg		J	11	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Selenium	0.3	mg/kg		B	0.12	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Silver	0.16	mg/kg		U	0.16	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Sodium	72	mg/kg		B	58	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Styrene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-06	WDSB06-04-2.0	RADS	Technetium-99	-0.223	pCi/g	0.161	U	0.548	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Thallium	0.2	mg/kg			0.0031	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Thorium-228	1.04	pCi/g	0.0562	J	0.0233	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Thorium-230	1.03	pCi/g	0.0547	J	0.0221	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Thorium-232	1.03	pCi/g	0.0547	J	0.0276	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Toluene	3.8	ug/kg		J	0.67	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Total Xylene	4.7	ug/kg		J	0.59	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Trichloroethene	0.88	ug/kg		BJ	0.22	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Uranium	0.86	mg/kg			0.0014	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Uranium-233/234	0.989	pCi/g	0.0507	J	0.0198	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Uranium-235	0.0639	pCi/g	0.0146	J	0.0244	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Uranium-236	0.00574	pCi/g	0.00497	U	0.0219	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-2.0	RADS	Uranium-238	0.861	pCi/g	0.0472	J	0.0197	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Vanadium	32	mg/kg			0.093	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-2.0	METAL	Zinc	42	mg/kg			0.39	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06RAD-0.5	RADS	Technetium-99	-0.0203	pCi/g	0.0654	U	0.221	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-06	WDSB06RAD-0.5	METAL	Total Uranium	2.55	ug/g	0		0.0176	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-06	WDSB06RAD-0.5	RADS	Uranium-233/234	0.837	pCi/g	0.0212		0.00411	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-06	WDSB06RAD-0.5	RADS	Uranium-235	0.0404	pCi/g	0.00521	J	0.00506	0.4	0.8	SOIL	REG	AUG	J	4/25/2011
WD-SB-06	WDSB06RAD-0.5	RADS	Uranium-236	0.00594	pCi/g	0.00197	U	0.00455	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-06	WDSB06RAD-0.5	RADS	Uranium-238	0.852	pCi/g	0.0214		0.00512	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-06	WDSB06RAD-2.0	RADS	Technetium-99	0.0059	pCi/g	0.0637	U	0.214	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-06	WDSB06RAD-2.0	METAL	Total Uranium	2.23	ug/g	0		0.0156	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-06	WDSB06RAD-2.0	RADS	Uranium-233/234	0.728	pCi/g	0.0205		0.0044	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-06	WDSB06RAD-2.0	RADS	Uranium-235	0.0362	pCi/g	0.00511	J	0.00542	1.916666667	2.333333333	SOIL	REG	AUG	J	4/27/2011
WD-SB-06	WDSB06RAD-2.0	RADS	Uranium-236	0.00191	pCi/g	0.00127	U	0.00487	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-06	WDSB06RAD-2.0	RADS	Uranium-238	0.743	pCi/g	0.0206		0.00438	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-06	WDSB06-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	1,2,3-Trichloropropane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2,4,5-Trichlorophenol	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2,4,6-Trichlorophenol	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2,4-Dichlorophenol	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	UJ	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2-Chloronaphthalene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	2-Nitrophenol	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	3,3'-Dichlorobenzidine	90	ug/kg		U	90	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	4-Chlorobenzenamine	82	ug/kg		U	82	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	4-Nitrobenzenamine	73	ug/kg		U	73	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	4-Nitrophenol	97	ug/kg		U	97	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Acetone	6.3	ug/kg		BJ	4.7	2.5	4.5	SOIL	REG	SPS	U	10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-06	WDSB06-01-4.5	VOA	Acrolein	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Alpha activity	4.92	pCi/g	0.548	J	1.47	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Aluminum	13000	mg/kg			1.3	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Americium-241	0.0259	pCi/g	0.00857	U	0.0198	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Antimony	0.42	mg/kg		B	0.32	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Arsenic	14	mg/kg			0.05	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Barium	58	mg/kg			0.063	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Benzaldehyde	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Benzene	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Benzenemethanol	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Beryllium	0.69	mg/kg			0.028	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Beta activity	1.98	pCi/g	0.343	J	1.33	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Bis(2-chloroethyl) ether	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Cadmium	0.05	mg/kg		B	0.034	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Calcium	45	mg/kg			12	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Cesium-137	-0.112	pCi/g	0.0616	U	0.143	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Chloroethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Chloroform	0.25	ug/kg		U	0.25	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Chloromethane	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Chromium	19	mg/kg			0.048	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Cobalt	7.2	mg/kg			0.083	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Copper	23	mg/kg			0.18	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Dibromomethane	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Hexachlorobutadiene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Iron	18000	mg/kg			3.2	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Lead	16	mg/kg			0.23	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	M + P Xylene	0.9	ug/kg		U	0.9	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Magnesium	2400	mg/kg			3.1	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Manganese	75	mg/kg			0.083	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Mercury	0.028	mg/kg			0.005	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Methylene chloride	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Molybdenum	0.22	mg/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Neptunium-237	-0.00216	pCi/g	0.00305	U	0.0206	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Nickel	21	mg/kg			0.1	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-06	WDSB06-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Phenol	49	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Plutonium-238	0.00328	pCi/g	0.00464	U	0.0251	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Plutonium-239/240	0.0262	pCi/g	0.00983	U	0.0251	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Selenium	0.17	mg/kg		B	0.13	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Silver	0.13	mg/kg		U	0.13	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Sodium	110	mg/kg		B	49	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Styrene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Technetium-99	0.138	pCi/g	0.168	U	0.56	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Thallium	0.17	mg/kg			0.0034	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Thorium-228	1.38	pCi/g	0.067	J	0.0247	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Thorium-230	1.02	pCi/g	0.056	J	0.0235	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Thorium-232	1.23	pCi/g	0.0615	J	0.0293	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Toluene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Total Xylene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Trichlorofluoromethane	0.9	ug/kg		U	0.9	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Uranium	0.53	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Uranium-233/234	0.804	pCi/g	0.0446	J	0.0236	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Uranium-235	0.0485	pCi/g	0.0125	J	0.0232	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Uranium-236	0.00817	pCi/g	0.00545	U	0.0208	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-04-4.5	RADS	Uranium-238	0.886	pCi/g	0.0467	J	0.0187	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Vanadium	32	mg/kg			0.078	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Vinyl acetate	0.93	ug/kg		U	0.93	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-01-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-06	WDSB06-03-4.5	METAL	Zinc	59	mg/kg			0.33	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-07	WDSB07-06-2.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Acetone	5.3	ug/kg		U	5.3	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Acrolein	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Benzene	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-09-2.0	GTEC	Cation Exchange Capacity	0.135	meq/g			0.00217	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Dibromomethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-07-2.0	WETCHEM	Distribution coefficient, Kd, Tc-99	3.36	mL/g				0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-07-2.0	WETCHEM	Distribution coefficient, Kd, Uranium	12.7	mL/g				0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		8/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-07	WDSB07-06-2.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Iodomethane	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Methylene chloride	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Styrene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Toluene	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	WETCHEM	Total Organic Carbon (TOC)	7.4	g/kg			1.7	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07RAD-0.5	RADS	Technetium-99	0.0692	pCi/g	0.066	U	0.219	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-07	WDSB07RAD-0.5	METAL	Total Uranium	1.82	ug/g	0		0.0127	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-07	WDSB07RAD-0.5	RADS	Uranium-233/234	0.699	pCi/g	0.0181		0.00358	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-07	WDSB07RAD-0.5	RADS	Uranium-235	0.0306	pCi/g	0.00424	J	0.00442	0.4	0.8	SOIL	REG	AUG	J	4/26/2011
WD-SB-07	WDSB07RAD-0.5	RADS	Uranium-236	0.00829	pCi/g	0.00214	J	0.00396	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-07	WDSB07RAD-0.5	RADS	Uranium-238	0.606	pCi/g	0.0168		0.00356	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-07	WDSB07RAD-2.0	RADS	Technetium-99	0.0839	pCi/g	0.0673	U	0.223	1.916666667	2.083333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-07	WDSB07RAD-2.0	METAL	Total Uranium	1.95	ug/g	0		0.0154	1.916666667	2.083333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-07	WDSB07RAD-2.0	RADS	Uranium-233/234	0.671	pCi/g	0.0195		0.00435	1.916666667	2.083333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-07	WDSB07RAD-2.0	RADS	Uranium-235	0.0316	pCi/g	0.00476	J	0.00537	1.916666667	2.083333333	SOIL	REG	AUG	J	4/27/2011
WD-SB-07	WDSB07RAD-2.0	RADS	Uranium-236	0.00315	pCi/g	0.00154	U	0.00482	1.916666667	2.083333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-07	WDSB07RAD-2.0	RADS	Uranium-238	0.65	pCi/g	0.0192		0.00433	1.916666667	2.083333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-07	WDSB07-06-4.5	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	4-Nitrophenol	93	ug/kg		U	93	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Acetone	5.2	ug/kg		U	5.2	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Acrolein	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Alpha activity	7.87	pCi/g	0.899		2.25	2.5	4.5	SOIL	REG	SPS	=	8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Aluminum	12000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Americium-241	0.0112	pCi/g	0.00591	U	0.0214	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		8/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-07	WDSB07-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Antimony	0.37	mg/kg		U	0.37	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Arsenic	34	mg/kg			0.044	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Barium	90	mg/kg			0.073	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Benzaldehyde	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Benzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Benzenemethanol	10	ug/kg		J	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Beryllium	1.2	mg/kg			0.032	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Beta activity	-0.0625	pCi/g	0.471	U	2.48	2.5	4.5	SOIL	REG	SPS	UJ	8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	87	ug/kg		BJ	44	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Bromoform	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Cadmium	0.21	mg/kg		B	0.039	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Calcium	970	mg/kg			14	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Carbazole	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-09-4.5	GTEC	Cation Exchange Capacity	0.135	meq/g			0.00211	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Cesium-137	0.0131	pCi/g	0.0795	U	0.236	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Chloromethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Chromium	24	mg/kg			0.056	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Cobalt	100	mg/kg			0.096	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Copper	13	mg/kg			0.21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-07-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	4.01	mL/g				2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-07-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	61.5	mL/g				2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Fluoranthene	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Iron	39000	mg/kg			3.7	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Lead	45	mg/kg			0.26	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Magnesium	1400	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Manganese	2700	mg/kg			0.48	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Mercury	0.028	mg/kg			0.005	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Methylene chloride	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Molybdenum	1.1	mg/kg		B	0.25	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00381	U	0.0206	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Nickel	17	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS		8/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-07	WDSB07-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Phenol	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Plutonium-238	0	pCi/g	0.00345	U	0.0234	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Plutonium-239/240	0.0219	pCi/g	0.00808	U	0.0233	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Selenium	0.54	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Sodium	57	mg/kg		U	57	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Styrene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Technetium-99	0.023	pCi/g	0.148	U	0.497	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Thallium	0.19	mg/kg			0.0031	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Thorium-228	1.3	pCi/g	0.0564	J	0.0186	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Thorium-230	1.3	pCi/g	0.0554	J	0.0181	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Thorium-232	1.2	pCi/g	0.0533	J	0.0226	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Toluene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	WETCHEM	Total Organic Carbon (TOC)	6.8	g/kg			1.7	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Total Xylene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Uranium	0.97	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Uranium-233/234	1.07	pCi/g	0.0473	J	0.02	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Uranium-235	0.0593	pCi/g	0.0126	J	0.0197	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Uranium-236	0.0162	pCi/g	0.00655	U	0.0177	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-04-4.5	RADS	Uranium-238	0.97	pCi/g	0.0451	J	0.0256	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Vanadium	49	mg/kg			0.45	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-4.5	METAL	Zinc	55	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-07	WDSB07-06-12.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	4-Methylphenol	32	ug/kg		U	32	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	4-Nitrophenol	95	ug/kg		U	95	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Acetone	5.1	ug/kg		U	5.1	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Alpha activity	6.42	pCi/g	0.809		2.16	10	12	SOIL	REG	SPS	=	8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Aluminum	11000	mg/kg			1.4	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Americium-241	0.0063	pCi/g	0.00555	U	0.0258	10	12	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Antimony	0.34	mg/kg		U	0.34	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Arsenic	16	mg/kg			0.047	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Barium	58	mg/kg			0.067	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Benzene	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Benzenemethanol	10	ug/kg		J	9.8	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Benzoic acid	320	ug/kg		U	320	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Beryllium	0.81	mg/kg			0.029	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Beta activity	4.76	pCi/g	0.659	J	2.44	10	12	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	96	ug/kg		BJ	45	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Bromoform	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Cadmium	0.036	mg/kg		U	0.036	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Calcium	490	mg/kg			12	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Carbazole	35	ug/kg		U	35	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-09-12.0	GTEC	Cation Exchange Capacity	0.459	meq/g			0.00211	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Cesium-137	0.0434	pCi/g	0.0567	U	0.175	10	12	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Chloroethane	0.84	ug/kg		U	0.84	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Chloroform	0.27	ug/kg		U	0.27	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Chromium	16	mg/kg			0.051	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Cobalt	12	mg/kg			0.088	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Copper	24	mg/kg			0.19	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Dibromomethane	0.79	ug/kg		U	0.79	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-07-12.0	WETCHEM	Distribution coefficient, Kd, Tc-99	3.88	mL/g				10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-07-12.0	WETCHEM	Distribution coefficient, Kd, Uranium	2.34	mL/g				10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Fluoranthene	35	ug/kg		U	35	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Iron	29000	mg/kg			3.4	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Lead	16	mg/kg			0.24	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	M + P Xylene	0.98	ug/kg		U	0.98	10	12	SOIL	REG	SPS		8/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-07	WDSB07-03-12.0	METAL	Magnesium	3400	mg/kg			3.3	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Manganese	530	mg/kg			0.088	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Mercury	0.0098	mg/kg		B	0.0054	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Methylene chloride	1.4	ug/kg		J	0.71	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Molybdenum	0.23	mg/kg		U	0.23	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Neptunium-237	0	pCi/g	0.00383	U	0.0207	10	12	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Nickel	31	mg/kg			0.11	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Phenol	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Plutonium-238	0.00254	pCi/g	0.00762	U	0.041	10	12	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Plutonium-239/240	0.00762	pCi/g	0.00568	U	0.0243	10	12	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Selenium	0.12	mg/kg		U	0.12	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Sodium	220	mg/kg		B	52	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Styrene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Technetium-99	-0.093	pCi/g	0.159	U	0.539	10	12	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Thallium	0.14	mg/kg			0.0033	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Thorium-228	1.51	pCi/g	0.075	J	0.0453	10	12	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Thorium-230	1.12	pCi/g	0.0635	J	0.0274	10	12	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Thorium-232	1.53	pCi/g	0.0741	J	0.0273	10	12	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Toluene	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	WETCHEM	Total Organic Carbon (TOC)	5.1	g/kg			1.7	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Uranium	0.53	mg/kg			0.0015	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Uranium-233/234	0.888	pCi/g	0.0439	J	0.0166	10	12	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Uranium-235	0.0428	pCi/g	0.012	U	0.0329	10	12	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Uranium-236	0.0192	pCi/g	0.00721	U	0.0184	10	12	SOIL	REG	SPS	U	8/25/2011
WD-SB-07	WDSB07-04-12.0	RADS	Uranium-238	0.951	pCi/g	0.0454	J	0.0165	10	12	SOIL	REG	SPS	J	8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Vanadium	26	mg/kg			0.083	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-06-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-07	WDSB07-03-12.0	METAL	Zinc	78	mg/kg			0.35	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-08	WDSB08-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	UJ	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-08	WDSB08-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Acetone	5	ug/kg		U	5	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Alpha activity	4.13	pCi/g	0.475	J	1.29	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Aluminum	9100	mg/kg			1.3	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Americium-241	0.0114	pCi/g	0.00601	U	0.0218	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Antimony	0.32	mg/kg		U	0.32	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Arsenic	10	mg/kg			0.048	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Barium	56	mg/kg			0.064	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Benzaldehyde	67	ug/kg		U	67	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Benzoic acid	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Beryllium	0.61	mg/kg			0.028	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Beta activity	0.966	pCi/g	0.295	U	1.31	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Cadmium	0.066	mg/kg		B	0.034	0	2	SOIL	REG	SPS	J	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Calcium	110	mg/kg			12	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Cesium-137	-0.0167	pCi/g	0.079	U	0.223	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Chromium	15	mg/kg			0.049	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Cobalt	14	mg/kg			0.084	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Copper	6.9	mg/kg			0.18	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Dibromomethane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-08	WDSB08-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Iron	20000	mg/kg			3.2	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Lead	21	mg/kg			0.23	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Magnesium	750	mg/kg			3.1	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Manganese	890	mg/kg			0.084	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Mercury	0.031	mg/kg			0.0051	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Methylene chloride	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Molybdenum	0.75	mg/kg		B	0.22	0	2	SOIL	REG	SPS	J	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Neptunium-237	0.00243	pCi/g	0.00344	U	0.0186	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Nickel	9.5	mg/kg			0.1	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Phenol	42	ug/kg		J	18	0	2	SOIL	REG	SPS	J	10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Plutonium-238	0.00306	pCi/g	0.0053	U	0.0293	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Plutonium-239/240	0.0122	pCi/g	0.00683	U	0.0234	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Pyrene	12	ug/kg		J	12	0	2	SOIL	REG	SPS	J	10/10/2011
WD-SB-08	WDSB08-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Selenium	0.29	mg/kg		B	0.13	0	2	SOIL	REG	SPS	J	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Silver	0.13	mg/kg		U	0.13	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Sodium	50	mg/kg		B	50	0	2	SOIL	REG	SPS	J	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Styrene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Technetium-99	-0.202	pCi/g	0.143	U	0.488	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Thallium	0.16	mg/kg			0.0033	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Thorium-228	1.39	pCi/g	0.0872	J	0.0416	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Thorium-230	0.826	pCi/g	0.0655	J	0.0395	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Thorium-232	1.09	pCi/g	0.0751	J	0.0394	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Toluene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Uranium	0.7	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Uranium-233/234	0.751	pCi/g	0.0415	J	0.0278	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Uranium-235	0.0223	pCi/g	0.00883	U	0.0267	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Uranium-236	0.01	pCi/g	0.00614	U	0.024	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-2.0	RADS	Uranium-238	0.764	pCi/g	0.0415	J	0.0172	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Vanadium	27	mg/kg			0.079	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-2.0	METAL	Zinc	30	mg/kg			0.33	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08RAD-0.5	RADS	Technetium-99	0.0633	pCi/g	0.0655	U	0.217	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-08	WDSB08RAD-0.5	METAL	Total Uranium	2.02	ug/g	0		0.0137	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-08	WDSB08RAD-0.5	RADS	Uranium-233/234	0.615	pCi/g	0.0177		0.00485	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-08	WDSB08RAD-0.5	RADS	Uranium-235	0.0356	pCi/g	0.00475	J	0.00478	0.4	0.8	SOIL	REG	AUG	J	4/26/2011
WD-SB-08	WDSB08RAD-0.5	RADS	Uranium-236	0.00336	pCi/g	0.00148	U	0.00429	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-08	WDSB08RAD-0.5	RADS	Uranium-238	0.673	pCi/g	0.0184		0.00385	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-08	WDSB08RAD-2.0	RADS	Technetium-99	-0.00685	pCi/g	0.064	U	0.215	1.916666667	2.25	SOIL	REG	AUG	U	4/27/2011
WD-SB-08	WDSB08RAD-2.0	METAL	Total Uranium	1.86	ug/g	0		0.0189	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-08	WDSB08RAD-2.0	RADS	Uranium-233/234	0.604	pCi/g	0.0205		0.00534	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-08	WDSB08RAD-2.0	RADS	Uranium-235	0.0301	pCi/g	0.00516	J	0.00658	1.916666667	2.25	SOIL	REG	AUG	J	4/27/2011
WD-SB-08	WDSB08RAD-2.0	RADS	Uranium-236	0.00618	pCi/g	0.00232	U	0.00591	1.916666667	2.25	SOIL	REG	AUG	U	4/27/2011
WD-SB-08	WDSB08RAD-2.0	RADS	Uranium-238	0.622	pCi/g	0.0208		0.00531	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-08	WDSB08-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS	U	10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-08	WDSB08-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS	UJ	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	2-Hexanone	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Acetone	5.4	ug/kg		U	5.4	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Alpha activity	4.46	pCi/g	0.487	J	1.28	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Aluminum	14000	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Americium-241	0.0251	pCi/g	0.00822	U	0.0218	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Antimony	0.35	mg/kg		U	0.35	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Arsenic	17	mg/kg			0.048	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Barium	56	mg/kg			0.07	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Benzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Benzenemethanol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Beryllium	0.65	mg/kg			0.03	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Beta activity	1.61	pCi/g	0.321	U	1.3	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Cadmium	0.038	mg/kg		U	0.038	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Calcium	150	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Cesium-137	-0.0531	pCi/g	0.0563	U	0.146	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Chloroethane	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS	U	10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-08	WDSB08-01-4.5	VOA	Chloromethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Chromium	19	mg/kg			0.053	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Cobalt	8.7	mg/kg			0.092	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Copper	22	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Dibromomethane	0.84	ug/kg		U	0.84	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Iron	24000	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Lead	16	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Magnesium	2400	mg/kg			3.4	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Manganese	110	mg/kg			0.092	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Mercury	0.0089	mg/kg		B	0.005	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Methylene chloride	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Molybdenum	0.57	mg/kg		B	0.24	2.5	4.5	SOIL	REG	SPS	J	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Neptunium-237	-0.0045	pCi/g	0.0039	U	0.0277	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Nickel	22	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Phenol	45	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS	J	10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Plutonium-238	0	pCi/g	0.00482	U	0.0326	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Plutonium-239/240	0.0272	pCi/g	0.0108	U	0.0326	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Selenium	0.13	mg/kg		U	0.13	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Sodium	110	mg/kg		B	54	2.5	4.5	SOIL	REG	SPS	J	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Styrene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Technetium-99	-0.0111	pCi/g	0.161	U	0.54	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Thallium	0.13	mg/kg			0.0033	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Thorium-228	1.38	pCi/g	0.0663	J	0.0305	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Thorium-230	0.656	pCi/g	0.0447	J	0.0231	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Thorium-232	1.16	pCi/g	0.0592	J	0.0231	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Toluene	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Total Xylene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Uranium	0.47	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Uranium-233/234	0.804	pCi/g	0.0437	J	0.0181	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Uranium-235	0.0321	pCi/g	0.0105	U	0.0279	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-04-4.5	RADS	Uranium-236	0.0157	pCi/g	0.00693	U	0.02	2.5	4.5	SOIL	REG	SPS		10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-08	WDSB08-04-4.5	RADS	Uranium-238	0.737	pCi/g	0.0418	J	0.0225	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Vanadium	35	mg/kg			0.086	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-08	WDSB08-03-4.5	METAL	Zinc	58	mg/kg			0.37	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-09	WDSB09-06-2.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	1,2,3-Trichloropropane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Acetone	5.1	ug/kg		U	5.1	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Alpha activity	4.77	pCi/g	0.691	J	2.07	0	2	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Aluminum	11000	mg/kg			1.3	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Americium-241	0.0111	pCi/g	0.0049	U	0.0142	0	2	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Antimony	0.32	mg/kg		U	0.32	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Arsenic	6.4	mg/kg			0.043	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Barium	83	mg/kg			0.065	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Benzaldehyde	64	ug/kg		U	64	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Benzenemethanol	16	ug/kg		J	9.5	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Beryllium	0.54	mg/kg			0.028	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Beta activity	0.799	pCi/g	0.482	U	2.45	0	2	SOIL	REG	SPS	UJ	8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	140	ug/kg		BJ	44	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS		8/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-09	WDSB09-03-2.0	METAL	Cadmium	0.036	mg/kg		B	0.035	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Calcium	560	mg/kg			12	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-09-2.0	GTEC	Cation Exchange Capacity	0.176	meq/g			0.00212	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Cesium-137	-0.107	pCi/g	0.158	U	0.419	0	2	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Chloroethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Chloromethane	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Chromium	13	mg/kg			0.05	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Cobalt	8.5	mg/kg			0.085	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Copper	7.1	mg/kg			0.19	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Dibromomethane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-07-2.0	WETCHEM	Distribution coefficient, Kd, Tc-99	4.2	mL/g				0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-07-2.0	WETCHEM	Distribution coefficient, Kd, Uranium	27.8	mL/g				0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Iron	13000	mg/kg			3.2	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Lead	14	mg/kg			0.23	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	M + P Xylene	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Magnesium	1100	mg/kg			3.2	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Manganese	330	mg/kg			0.085	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Mercury	0.024	mg/kg			0.0054	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Methylene chloride	0.71	ug/kg		U	0.71	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Molybdenum	1	mg/kg		B	0.22	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Neptunium-237	-0.00239	pCi/g	0.00338	U	0.0229	0	2	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Nickel	9.3	mg/kg			0.11	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	PPCB	PCB-1221	0.016	mg/kg		U	0.016	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	PPCB	PCB-1260	0.0027	mg/kg		U	0.0027	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Phenol	27	ug/kg		J	17	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Plutonium-238	-0.00658	pCi/g	-0.00491	U	0.0354	0	2	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Plutonium-239/240	0.0219	pCi/g	0.0076	U	0.021	0	2	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-02-2.0	PPCB	Polychlorinated biphenyl	0.0027	mg/kg		U	0.0027	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Selenium	0.37	mg/kg		B	0.11	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Sodium	50	mg/kg		U	50	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Styrene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Technetium-99	0.0723	pCi/g	0.147	U	0.491	0	2	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Thallium	0.22	mg/kg			0.0029	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Thorium-228	0.987	pCi/g	0.0473	J	0.0216	0	2	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Thorium-230	1.02	pCi/g	0.0474	J	0.021	0	2	SOIL	REG	SPS	J	8/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-09	WDSB09-04-2.0	RADS	Thorium-232	0.856	pCi/g	0.0433	J	0.0167	0	2	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Toluene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	WETCHEM	Total Organic Carbon (TOC)	5.7	g/kg			1.7	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Total Xylene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Uranium	0.74	mg/kg			0.0013	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Uranium-233/234	0.849	pCi/g	0.0376	J	0.0159	0	2	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Uranium-235	0.0347	pCi/g	0.00936	U	0.0251	0	2	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Uranium-236	0.00183	pCi/g	0.00485	U	0.0264	0	2	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-04-2.0	RADS	Uranium-238	0.9	pCi/g	0.0387	J	0.0237	0	2	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Vanadium	22	mg/kg			0.08	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-2.0	METAL	Zinc	30	mg/kg			0.34	0	2	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09RAD-0.5	RADS	Technetium-99	-0.132	pCi/g	0.0636	U	0.219	0.4	0.8	SOIL	REG	AUG	J	4/25/2011
WD-SB-09	WDSB09RAD-0.5	METAL	Total Uranium	2.54	ug/g	0		0.0148	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-09	WDSB09RAD-0.5	RADS	Uranium-233/234	0.753	pCi/g	0.0199		0.00503	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-09	WDSB09RAD-0.5	RADS	Uranium-235	0.044	pCi/g	0.00542	J	0.0062	0.4	0.8	SOIL	REG	AUG	J	4/25/2011
WD-SB-09	WDSB09RAD-0.5	RADS	Uranium-236	0.00523	pCi/g	0.00184	U	0.00445	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-09	WDSB09RAD-0.5	RADS	Uranium-238	0.847	pCi/g	0.021		0.004	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-09	WDSB09RAD-2.0	RADS	Technetium-99	0.0151	pCi/g	0.0643	U	0.216	1.916666667	2.25	SOIL	REG	AUG	U	4/27/2011
WD-SB-09	WDSB09RAD-2.0	METAL	Total Uranium	1.98	ug/g	0		0.0225	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-09	WDSB09RAD-2.0	RADS	Uranium-233/234	0.569	pCi/g	0.0194		0.00507	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-09	WDSB09RAD-2.0	RADS	Uranium-235	0.0237	pCi/g	0.00456	J	0.00784	1.916666667	2.25	SOIL	REG	AUG	J	4/27/2011
WD-SB-09	WDSB09RAD-2.0	RADS	Uranium-236	0.00294	pCi/g	0.00164	U	0.00562	1.916666667	2.25	SOIL	REG	AUG	U	4/27/2011
WD-SB-09	WDSB09RAD-2.0	RADS	Uranium-238	0.661	pCi/g	0.0209		0.00633	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-09	WDSB09-06-4.5	VOA	1,1,1,2-Tetrachloroethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	1,1,2,2-Tetrachloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	1,1,2-Trichloroethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	1,2,3-Trichloropropane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	1,2-Dichloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	1,2-Dichloropropane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	1,2-Dimethylbenzene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	2-Hexanone	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	4-Methyl-2-pentanone	3.7	ug/kg		U	3.7	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	4-Nitrophenol	93	ug/kg		U	93	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Acetone	6.4	ug/kg		BJ	4.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Acrolein	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Acrylonitrile	4.1	ug/kg		U	4.1	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Alpha activity	7.01	pCi/g	0.827		2.12	2.5	4.5	SOIL	REG	SPS	=	8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Aluminum	19000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS		8/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-09	WDSB09-04-4.5	RADS	Americium-241	0.0208	pCi/g	0.00731	U	0.0177	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Arsenic	19	mg/kg			0.043	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Barium	57	mg/kg			0.072	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Benzaldehyde	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Benzene	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Benzenemethanol	15	ug/kg		J	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Beryllium	0.62	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Beta activity	4.88	pCi/g	0.665	J	2.44	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	200	ug/kg		BJ	44	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Bromomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Cadmium	0.039	mg/kg		U	0.039	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Calcium	470	mg/kg			13	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Carbon tetrachloride	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-09-4.5	GTEC	Cation Exchange Capacity	0.191	meq/g			0.00214	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Cesium-137	0.0854	pCi/g	0.0556	U	0.195	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Chlorobenzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Chloroethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Chloroform	0.25	ug/kg		U	0.25	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Chloromethane	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Chromium	21	mg/kg			0.055	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	cis-1,2-Dichloroethene	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Cobalt	5.5	mg/kg			0.095	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Copper	17	mg/kg			0.21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Dibromochloromethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Dibromomethane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-07-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	4.31	mL/g				2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-07-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	44.5	mL/g				2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Iron	33000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Lead	17	mg/kg			0.26	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	M + P Xylene	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Magnesium	2100	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Manganese	37	mg/kg			0.095	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Mercury	0.027	mg/kg			0.005	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Methylene chloride	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Molybdenum	1.4	mg/kg		B	0.25	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Neptunium-237	-0.00273	pCi/g	0.00386	U	0.0262	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Nickel	13	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-09	WDSB09-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	PPCB	PCB-1221	0.016	mg/kg		U	0.016	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Phenol	24	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Plutonium-238	-0.019	pCi/g	-0.00769	U	0.0554	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Plutonium-239/240	0.0136	pCi/g	0.00665	U	0.0208	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Selenium	0.2	mg/kg		B	0.11	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Sodium	92	mg/kg		B	56	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Styrene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Technetium-99	0.135	pCi/g	0.144	U	0.479	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Thallium	0.2	mg/kg			0.003	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Thorium-228	1.4	pCi/g	0.0712	J	0.0345	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Thorium-230	0.958	pCi/g	0.0583	J	0.043	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Thorium-232	1.53	pCi/g	0.0733	J	0.0334	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Toluene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	WETCHEM	Total Organic Carbon (TOC)	4.4	g/kg			1.7	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Total Xylene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Trichlorofluoromethane	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Uranium	0.66	mg/kg			0.0013	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Uranium-233/234	0.787	pCi/g	0.0424	J	0.0423	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Uranium-235	0.0437	pCi/g	0.0113	J	0.0209	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Uranium-236	0.0123	pCi/g	0.006	U	0.0187	2.5	4.5	SOIL	REG	SPS	U	8/25/2011
WD-SB-09	WDSB09-04-4.5	RADS	Uranium-238	0.789	pCi/g	0.0417	J	0.0168	2.5	4.5	SOIL	REG	SPS	J	8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Vanadium	46	mg/kg			0.09	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Vinyl acetate	0.92	ug/kg		U	0.92	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-03-4.5	METAL	Zinc	64	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Acetone	8.1	ug/kg		BJ	5.2	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Benzene	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Bromoform	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Bromomethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Chloroethane	0.86	ug/kg		U	0.86	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Chloromethane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Dibromomethane	0.81	ug/kg		U	0.81	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Iodomethane	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	REG	SPS		8/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-09	WDSB09-06-12.0	VOA	Methylene chloride	0.72	ug/kg		U	0.72	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Styrene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Toluene	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	WETCHEM	Total Organic Carbon (TOC)	3.6	g/kg		B	1.7	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Total Xylene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	2-Hexanone	4.7	ug/kg		U	4.7	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Acetone	5.7	ug/kg		BJ	5.2	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Acrolein	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Benzene	0.45	ug/kg		U	0.45	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Bromoform	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Bromomethane	0.48	ug/kg		U	0.48	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Chloroethane	0.86	ug/kg		U	0.86	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Chloroform	0.28	ug/kg		U	0.28	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Chloromethane	0.74	ug/kg		U	0.74	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Dibromomethane	0.81	ug/kg		U	0.81	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	M + P Xylene	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Methylene chloride	0.73	ug/kg		U	0.73	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Styrene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Toluene	0.67	ug/kg		U	0.67	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	WETCHEM	Total Organic Carbon (TOC)	5.9	g/kg			1.7	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Total Xylene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Vinyl acetate	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-09	WDSB09-06-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS		8/25/2011
WD-SB-10	WDSB10RAD-0.5	RADS	Technetium-99	0.0529	pCi/g	0.0651	U	0.217	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-10	WDSB10RAD-0.5	METAL	Total Uranium	1.97	ug/g	0		0.0164	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-10	WDSB10RAD-0.5	RADS	Uranium-233/234	0.621	pCi/g	0.0177		0.00882	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-10	WDSB10RAD-0.5	RADS	Uranium-235	0.0252	pCi/g	0.00398	J	0.0047	0.4	0.8	SOIL	REG	AUG	J	4/26/2011
WD-SB-10	WDSB10RAD-0.5	RADS	Uranium-236	0.00221	pCi/g	0.00123	U	0.00422	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-10	WDSB10RAD-0.5	RADS	Uranium-238	0.659	pCi/g	0.0181		0.00475	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-10	WDSB10RAD-2.0	RADS	Technetium-99	0.066	pCi/g	0.0654	U	0.217	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-10	WDSB10RAD-2.0	METAL	Total Uranium	1.92	ug/g	0		0.0194	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-10	WDSB10RAD-2.0	RADS	Uranium-233/234	0.601	pCi/g	0.0207		0.00547	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-10	WDSB10RAD-2.0	RADS	Uranium-235	0.0265	pCi/g	0.00491	J	0.00675	1.916666667	2.333333333	SOIL	REG	AUG	J	4/27/2011
WD-SB-10	WDSB10RAD-2.0	RADS	Uranium-236	0.00396	pCi/g	0.0021	U	0.00758	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-10	WDSB10RAD-2.0	RADS	Uranium-238	0.641	pCi/g	0.0214		0.00545	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-11	WDSB11-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	10/5/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-11	WDSB11-01-2.0	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	1,2,3-Trichloropropane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	UJ	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	4-Methylphenol	32	ug/kg		U	32	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	4-Nitrophenol	95	ug/kg		U	95	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Acetone	6.7	ug/kg		BJ	5.1	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Alpha activity	4.68	pCi/g	0.512	J	1.34	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Aluminum	14000	mg/kg			1.3	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Americium-241	0.0188	pCi/g	0.0117	U	0.0514	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Antimony	0.33	mg/kg		U	0.33	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Arsenic	25	mg/kg			0.048	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Barium	54	mg/kg			0.066	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Benzaldehyde	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Benzoic acid	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Beryllium	0.42	mg/kg		B	0.028	0	2	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Beta activity	2.31	pCi/g	0.358	J	1.37	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	100	ug/kg		BJ	45	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Cadmium	0.041	mg/kg		B	0.035	0	2	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Calcium	170	mg/kg			12	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Carbazole	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Cesium-137	0.0475	pCi/g	0.0478	U	0.155	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Chloroethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Chloromethane	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS	U	10/5/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-11	WDSB11-03-2.0	METAL	Chromium	16	mg/kg			0.05	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Cobalt	4.3	mg/kg			0.086	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Copper	11	mg/kg			0.19	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Dibromomethane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Fluoranthene	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Iron	20000	mg/kg			3.3	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Lead	11	mg/kg			0.23	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	M + P Xylene	0.99	ug/kg		J	0.98	0	2	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Magnesium	1400	mg/kg			3.2	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Manganese	46	mg/kg			0.086	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Mercury	0.017	mg/kg			0.0052	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Methylene chloride	0.71	ug/kg		U	0.71	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Molybdenum	0.77	mg/kg		B	0.22	0	2	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Neptunium-237	0.0101	pCi/g	0.00617	U	0.0241	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Nickel	10	mg/kg			0.11	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	PPCB	PCB-1016	0.0047	mg/kg		U	0.0047	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	PPCB	PCB-1221	0.014	mg/kg		U	0.014	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	PPCB	PCB-1242	0.0085	mg/kg		U	0.0085	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	PPCB	PCB-1248	0.0052	mg/kg		U	0.0052	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	PPCB	PCB-1254	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Phenol	27	ug/kg		J	18	0	2	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Plutonium-238	0	pCi/g	0.00881	U	0.0503	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Plutonium-239/240	0.0187	pCi/g	0.0088	U	0.0298	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-02-2.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Selenium	0.24	mg/kg		B	0.13	0	2	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Sodium	86	mg/kg		B	51	0	2	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Styrene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Technetium-99	0.254	pCi/g	0.158	U	0.52	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Thallium	0.22	mg/kg			0.0033	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Thorium-228	1.63	pCi/g	0.0935	J	0.0509	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Thorium-230	0.875	pCi/g	0.0665	J	0.0385	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Thorium-232	1.18	pCi/g	0.0771	J	0.0384	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Toluene	1.1	ug/kg		J	0.65	0	2	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Total Xylene	0.99	ug/kg		J	0.58	0	2	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Uranium	0.78	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Uranium-233/234	0.729	pCi/g	0.0443	J	0.0424	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Uranium-235	0.042	pCi/g	0.0121	J	0.0247	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Uranium-236	0.00871	pCi/g	0.00581	U	0.0222	0	2	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-2.0	RADS	Uranium-238	0.752	pCi/g	0.0445	J	0.025	0	2	SOIL	REG	SPS		10/5/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-11	WDSB11-03-2.0	METAL	Vanadium	34	mg/kg			0.081	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-2.0	METAL	Zinc	30	mg/kg			0.34	0	2	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11RAD-0.5	RADS	Technetium-99	0.0275	pCi/g	0.0656	U	0.219	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-11	WDSB11RAD-0.5	METAL	Total Uranium	2.33	ug/g	0		0.014	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-11	WDSB11RAD-0.5	RADS	Uranium-233/234	0.74	pCi/g	0.0195		0.00493	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-11	WDSB11RAD-0.5	RADS	Uranium-235	0.0407	pCi/g	0.00512	J	0.00486	0.4	0.8	SOIL	REG	AUG	J	4/25/2011
WD-SB-11	WDSB11RAD-0.5	RADS	Uranium-236	0.00571	pCi/g	0.00189	U	0.00437	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-11	WDSB11RAD-0.5	RADS	Uranium-238	0.777	pCi/g	0.02		0.00392	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-11	WDSB11RAD-2.0	RADS	Technetium-99	-0.0539	pCi/g	0.0629	U	0.213	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-11	WDSB11RAD-2.0	METAL	Total Uranium	1.72	ug/g	0		0.0192	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-11	WDSB11RAD-2.0	RADS	Uranium-233/234	0.569	pCi/g	0.0201		0.0054	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-11	WDSB11RAD-2.0	RADS	Uranium-235	0.0322	pCi/g	0.00537	J	0.00667	1.916666667	2.333333333	SOIL	REG	AUG	J	4/27/2011
WD-SB-11	WDSB11RAD-2.0	RADS	Uranium-236	0.00626	pCi/g	0.00235	U	0.00598	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-11	WDSB11RAD-2.0	RADS	Uranium-238	0.575	pCi/g	0.0201		0.00538	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-11	WDSB11-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	1,2-Dichloroethane	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	UJ	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	2-Hexanone	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Acetone	6.4	ug/kg		BJ	5.1	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Acrolein	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Alpha activity	6.41	pCi/g	0.578		1.29	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Aluminum	12000	mg/kg			1.3	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Americium-241	0.0296	pCi/g	0.0117	U	0.0434	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Antimony	0.33	mg/kg		U	0.33	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Arsenic	35	mg/kg			0.043	2.5	4.5	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Barium	66	mg/kg			0.066	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Benzaldehyde	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Benzene	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	U	10/5/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-11	WDSB11-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Beryllium	0.82	mg/kg			0.028	2.5	4.5	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Beta activity	2.49	pCi/g	0.361	J	1.3	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	100	ug/kg		BJ	45	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Bromoform	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Bromomethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Cadmium	0.08	mg/kg		B	0.035	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Calcium	470	mg/kg			12	2.5	4.5	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Cesium-137	0.0401	pCi/g	0.0449	U	0.14	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Chloroethane	0.85	ug/kg		U	0.85	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Chloromethane	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Chromium	19	mg/kg			0.05	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Cobalt	9.8	mg/kg			0.086	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Copper	20	mg/kg			0.19	2.5	4.5	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Dibromomethane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Iodomethane	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Iron	21000	mg/kg			3.3	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Lead	14	mg/kg			0.23	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Magnesium	2600	mg/kg			3.2	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Manganese	70	mg/kg			0.086	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Mercury	0.06	mg/kg			0.0051	2.5	4.5	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Methylene chloride	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Molybdenum	0.43	mg/kg		B	0.22	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Neptunium-237	-0.00501	pCi/g	0.00501	U	0.0361	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Nickel	26	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	PPCB	PCB-1016	0.0046	mg/kg		U	0.0046	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	PPCB	PCB-1221	0.014	mg/kg		U	0.014	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	PPCB	PCB-1232	0.0047	mg/kg		U	0.0047	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	PPCB	PCB-1242	0.0083	mg/kg		U	0.0083	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	PPCB	PCB-1248	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	PPCB	PCB-1254	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	PPCB	PCB-1260	0.0024	mg/kg		U	0.0024	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Phenol	23	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Plutonium-238	-0.00661	pCi/g	-0.00661	U	0.0476	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Plutonium-239/240	0.0264	pCi/g	0.0104	U	0.0316	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-02-4.5	PPCB	Polychlorinated biphenyl	0.0024	mg/kg		U	0.0024	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Selenium	0.15	mg/kg		B	0.11	2.5	4.5	SOIL	REG	SPS	J	10/5/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-11	WDSB11-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Sodium	160	mg/kg		B	51	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Styrene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Technetium-99	0.29	pCi/g	0.16	U	0.527	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Thallium	0.15	mg/kg			0.0029	2.5	4.5	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Thorium-228	1.51	pCi/g	0.089	J	0.0639	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Thorium-230	1.13	pCi/g	0.0747	J	0.0375	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Thorium-232	1.22	pCi/g	0.0775	J	0.0375	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Toluene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Total Xylene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Uranium	0.38	mg/kg			0.0013	2.5	4.5	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Uranium-233/234	0.861	pCi/g	0.0486	J	0.0209	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Uranium-235	0.0539	pCi/g	0.0139	J	0.0258	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Uranium-236	0.00908	pCi/g	0.00605	U	0.0232	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-4.5	RADS	Uranium-238	0.95	pCi/g	0.0509	J	0.0208	2.5	4.5	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Vanadium	32	mg/kg			0.081	2.5	4.5	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-4.5	METAL	Zinc	53	mg/kg			0.34	2.5	4.5	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	1,1,1,2-Tetrachloroethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	1,1,1-Trichloroethane	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	1,1,2,2-Tetrachloroethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	1,1,2-Trichloroethane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	1,1-Dichloroethene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	1,2,3-Trichloropropane	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	1,2-Dichloroethane	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	1,2-Dichloropropane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	1,2-Dimethylbenzene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	2-Butanone	1.5	ug/kg		U	1.5	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	2-Chloroethyl vinyl ether	4.2	ug/kg		U	4.2	10	12	SOIL	REG	SPS	UJ	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	2-Hexanone	4.1	ug/kg		U	4.1	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	4-Methyl-2-pentanone	3.7	ug/kg		U	3.7	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Acetone	6.3	ug/kg		BJ	4.5	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Acrolein	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Acrylonitrile	4.1	ug/kg		U	4.1	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Alpha activity	6.17	pCi/g	0.574		1.32	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Aluminum	11000	mg/kg			1.3	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Americium-241	0.0126	pCi/g	0.00754	U	0.0309	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Antimony	0.32	mg/kg		U	0.32	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Arsenic	10	mg/kg			0.046	10	12	SOIL	REG	SPS	=	10/5/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-11	WDSB11-03-12	METAL	Barium	36	mg/kg			0.064	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Benzene	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Beryllium	0.78	mg/kg			0.028	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Beta activity	3.2	pCi/g	0.396	J	1.36	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Bis(2-ethylhexyl)phthalate	110	ug/kg		BJ	46	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Bromoform	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Bromomethane	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Cadmium	0.041	mg/kg		B	0.034	10	12	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Calcium	900	mg/kg			12	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Carbon tetrachloride	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Cesium-137	-0.0429	pCi/g	0.0653	U	0.175	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Chlorobenzene	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Chloroethane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Chloroform	0.25	ug/kg		U	0.25	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Chloromethane	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Chromium	17	mg/kg			0.049	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	cis-1,2-Dichloroethene	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Cobalt	5.5	mg/kg			0.084	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Copper	24	mg/kg			0.18	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Dibromochloromethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Dibromomethane	0.71	ug/kg		U	0.71	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Dichlorodifluoromethane	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Ethyl methacrylate	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Ethylbenzene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Iodomethane	0.37	ug/kg		U	0.37	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Iron	12000	mg/kg			3.2	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Lead	12	mg/kg			0.23	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	M + P Xylene	0.88	ug/kg		U	0.88	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Magnesium	2700	mg/kg			3.1	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Manganese	84	mg/kg			0.084	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Mercury	0.025	mg/kg			0.0049	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Methylene chloride	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Molybdenum	0.22	mg/kg		B	0.22	10	12	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Neptunium-237	0	pCi/g	0.00696	U	0.0397	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Nickel	16	mg/kg			0.1	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	10/5/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-11	WDSB11-02-12	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Phenol	24	ug/kg		J	18	10	12	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Plutonium-238	0.00298	pCi/g	0.00666	U	0.0366	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Plutonium-239/240	0.0268	pCi/g	0.00987	U	0.0285	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-02-12	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-02-12	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Selenium	0.18	mg/kg		B	0.12	10	12	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Silver	0.13	mg/kg		U	0.13	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Sodium	230	mg/kg		B	50	10	12	SOIL	REG	SPS	J	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Styrene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Technetium-99	0.0338	pCi/g	0.164	U	0.549	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Tetrachloroethene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Thallium	0.13	mg/kg			0.0032	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Thorium-228	1.57	pCi/g	0.0926	J	0.0663	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Thorium-230	1.34	pCi/g	0.0828	J	0.039	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Thorium-232	1.39	pCi/g	0.0842	J	0.0389	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Toluene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Total Xylene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	trans-1,2-Dichloroethene	0.33	ug/kg		U	0.33	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	trans-1,3-Dichloropropene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Trans-1,4-Dichloro-2-butene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Trichloroethene	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Trichlorofluoromethane	0.88	ug/kg		U	0.88	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Uranium	1.3	mg/kg			0.0014	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Uranium-233/234	1.09	pCi/g	0.0521	J	0.0237	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Uranium-235	0.0459	pCi/g	0.0122	J	0.0234	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Uranium-236	0.00824	pCi/g	0.00549	U	0.021	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-04-12	RADS	Uranium-238	0.839	pCi/g	0.0456	J	0.0189	10	12	SOIL	REG	SPS		10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Vanadium	29	mg/kg			0.079	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Vinyl acetate	0.9	ug/kg		U	0.9	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-01-12	VOA	Vinyl chloride	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	10/5/2011
WD-SB-11	WDSB11-03-12	METAL	Zinc	59	mg/kg			0.33	10	12	SOIL	REG	SPS	=	10/5/2011
WD-SB-11	WDSB11-01-19.5	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2,4,5-Trichlorophenol	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2,4,6-Trichlorophenol	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2,4-Dichlorophenol	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2-Chloronaphthalene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2-Methylphenol	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	2-Nitrophenol	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	3,3'-Dichlorobenzidine	90	ug/kg		U	90	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	4-Chlorobenzenamine	82	ug/kg		U	82	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	4-Methylphenol	33	ug/kg		U	33	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	4-Nitrobenzenamine	73	ug/kg		U	73	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	4-Nitrophenol	97	ug/kg		U	97	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Acenaphthene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Acenaphthylene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Acetone	5.2	ug/kg		U	5.2	17.5	19.5	SOIL	REG	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-11	WDSB11-01-19.5	VOA	Acrolein	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Alpha activity	3.03	pCi/g	0.439	J	1.42	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Aluminum	10000	mg/kg			1.4	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Americium-241	0.0206	pCi/g	0.00882	U	0.0281	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Aniline	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Anthracene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Antimony	0.35	mg/kg		U	0.35	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Arsenic	17	mg/kg			0.046	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Barium	30	mg/kg			0.07	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Benzaldehyde	67	ug/kg		U	67	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Benzene	0.46	ug/kg		U	0.46	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Benzenemethanol	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Benzoic acid	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Beryllium	0.57	mg/kg			0.031	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Beta activity	3.07	pCi/g	0.37	J	1.33	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Bis(2-chloroethyl) ether	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Bromoform	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Cadmium	0.046	mg/kg		B	0.038	17.5	19.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Calcium	670	mg/kg			13	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Carbazole	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Cesium-137	-0.0116	pCi/g	0.0903	U	0.256	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Chloroform	0.28	ug/kg		U	0.28	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Chloromethane	0.75	ug/kg		U	0.75	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Chromium	17	mg/kg			0.054	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Chrysene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Cobalt	5.1	mg/kg			0.093	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Copper	15	mg/kg			0.2	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Dibenzofuran	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Fluoranthene	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Fluorene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Hexachlorobutadiene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Hexachloroethane	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Iron	15000	mg/kg			3.5	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Isophorone	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Lead	9.4	mg/kg			0.25	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	M + P Xylene	1.5	ug/kg		J	1	17.5	19.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Magnesium	2700	mg/kg			3.4	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Manganese	120	mg/kg			0.093	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Mercury	0.034	mg/kg			0.0055	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Methylene chloride	1.4	ug/kg		BJ	0.73	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Molybdenum	0.24	mg/kg		U	0.24	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Naphthalene	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Neptunium-237	0	pCi/g	0.00346	U	0.0187	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Nickel	16	mg/kg			0.11	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Nitrobenzene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	17.5	19.5	SOIL	REG	SPS	U	10/6/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-11	WDSB11-02-19.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Phenanthrene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Phenol	34	ug/kg		J	18	17.5	19.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Plutonium-238	-0.00381	pCi/g	-0.00539	U	0.0365	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Plutonium-239/240	0.00761	pCi/g	0.00761	U	0.0364	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-02-19.5	SVOA	Pyridine	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Selenium	0.12	mg/kg		U	0.12	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Silver	0.15	mg/kg		U	0.15	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Sodium	150	mg/kg		B	55	17.5	19.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Styrene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Technetium-99	0.00634	pCi/g	0.153	U	0.515	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Thallium	0.13	mg/kg			0.0032	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Thorium-228	0.829	pCi/g	0.0663	J	0.0736	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Thorium-230	0.538	pCi/g	0.0522	J	0.0691	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Thorium-232	0.782	pCi/g	0.0624	J	0.069	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Toluene	0.75	ug/kg		J	0.67	17.5	19.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Total Xylene	1.5	ug/kg		J	0.59	17.5	19.5	SOIL	REG	SPS	J	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Trichloroethene	0.69	ug/kg		BJ	0.22	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Uranium	0.67	mg/kg			0.0014	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Uranium-233/234	0.853	pCi/g	0.0514	J	0.0236	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Uranium-235	0.0572	pCi/g	0.0153	J	0.0292	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Uranium-236	0	pCi/g	0.00485	U	0.0262	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-04-19.5	RADS	Uranium-238	0.809	pCi/g	0.05	J	0.0235	17.5	19.5	SOIL	REG	SPS		10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Vanadium	26	mg/kg			0.087	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Vinyl acetate	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-01-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS	U	10/6/2011
WD-SB-11	WDSB11-03-19.5	METAL	Zinc	59	mg/kg			0.37	17.5	19.5	SOIL	REG	SPS	=	10/6/2011
WD-SB-12	WDSB12-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	2-Hexanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-02-2.0	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	4-Methylphenol	32	ug/kg		U	32	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	4-Nitrophenol	94	ug/kg		U	94	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Acetone	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Acrolein	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Alpha activity	8.66	pCi/g	0.698		1.4	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Aluminum	11000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Americium-241	0.025	pCi/g	0.00939	U	0.0328	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Antimony	0.33	mg/kg		U	0.33	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Arsenic	9.8	mg/kg			0.049	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Barium	53	mg/kg			0.067	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Benzaldehyde	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Benzene	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Benzenemethanol	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Benzoic acid	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Beryllium	0.58	mg/kg			0.029	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Beta activity	1.32	pCi/g	0.34	U	1.33	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Bromoform	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Bromomethane	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Cadmium	0.037	mg/kg		B	0.036	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Calcium	930	mg/kg			12	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Carbazole	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Cesium-137	0.192	pCi/g	0.043	U	0.206	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Chloroethane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Chloroform	0.25	ug/kg		U	0.25	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Chloromethane	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Chromium	15	mg/kg			0.051	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	cis-1,2-Dichloroethene	0.97	ug/kg		BJ	0.49	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Cobalt	7.6	mg/kg			0.088	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Copper	8.7	mg/kg			0.19	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Dibromomethane	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Fluoranthene	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Iodomethane	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Iron	22000	mg/kg			3.3	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Lead	12	mg/kg			0.24	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	M + P Xylene	1	ug/kg		J	0.91	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Magnesium	1200	mg/kg			3.2	0	2	SOIL	REG	SPS	=	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-03-2.0	METAL	Manganese	530	mg/kg			0.088	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Mercury	0.022	mg/kg			0.0054	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Methylene chloride	1.5	ug/kg		BJ	0.65	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Molybdenum	1.8	mg/kg			0.23	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Neptunium-237	0.00209	pCi/g	0.00296	U	0.016	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Nickel	8	mg/kg			0.11	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Phenol	32	ug/kg		J	17	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Plutonium-238	0	pCi/g	0.00397	U	0.0214	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Plutonium-239/240	0.0056	pCi/g	0.0056	U	0.0268	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Selenium	0.38	mg/kg		B	0.13	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Sodium	59	mg/kg		B	52	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Styrene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Technetium-99	-0.0124	pCi/g	0.165	U	0.553	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Thallium	0.19	mg/kg			0.0034	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Thorium-228	1.1	pCi/g	0.0743	J	0.0474	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Thorium-230	1.24	pCi/g	0.0771	J	0.0673	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Thorium-232	1.02	pCi/g	0.0699	J	0.0672	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Toluene	1.8	ug/kg		J	0.6	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Total Xylene	1	ug/kg		J	0.53	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Trichloroethene	1.3	ug/kg		BJ	0.2	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Trichlorofluoromethane	0.91	ug/kg		U	0.91	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Uranium	0.91	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Uranium-233/234	0.853	pCi/g	0.0465	J	0.0194	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Uranium-235	0.0344	pCi/g	0.0108	U	0.0239	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Uranium-236	0.0168	pCi/g	0.00742	U	0.0214	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-2.0	RADS	Uranium-238	0.917	pCi/g	0.0482	J	0.0193	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Vanadium	26	mg/kg			0.082	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Vinyl acetate	0.93	ug/kg		U	0.93	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-2.0	METAL	Zinc	27	mg/kg			0.35	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12RAD-0.5	RADS	Technetium-99	-0.14	pCi/g	0.0644	U	0.222	0.4	0.8	SOIL	REG	AUG	J	4/25/2011
WD-SB-12	WDSB12RAD-0.5	METAL	Total Uranium	2.43	ug/g	0		0.0138	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-12	WDSB12RAD-0.5	RADS	Uranium-233/234	0.819	pCi/g	0.0204		0.00389	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-12	WDSB12RAD-0.5	RADS	Uranium-235	0.0414	pCi/g	0.00513	J	0.00479	0.4	0.8	SOIL	REG	AUG	J	4/25/2011
WD-SB-12	WDSB12RAD-0.5	RADS	Uranium-236	0.00563	pCi/g	0.00187	U	0.0043	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-12	WDSB12RAD-0.5	RADS	Uranium-238	0.81	pCi/g	0.0202		0.00387	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-12	WDSB12RAD-2.0	RADS	Technetium-99	-0.0221	pCi/g	0.0633	U	0.214	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-12	WDSB12RAD-2.0	METAL	Total Uranium	2.45	ug/g	0		0.0182	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-12	WDSB12RAD-2.0	RADS	Uranium-233/234	0.82	pCi/g	0.0213		0.00529	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-12	WDSB12RAD-2.0	RADS	Uranium-235	0.0457	pCi/g	0.00562	J	0.00522	1.916666667	2.333333333	SOIL	REG	AUG	J	4/28/2011
WD-SB-12	WDSB12RAD-2.0	RADS	Uranium-236	0.00429	pCi/g	0.00173	U	0.00468	1.916666667	2.333333333	SOIL	REG	AUG	U	4/28/2011
WD-SB-12	WDSB12RAD-2.0	RADS	Uranium-238	0.817	pCi/g	0.0212		0.00527	1.916666667	2.333333333	SOIL	REG	AUG	=	4/28/2011
WD-SB-12	WDSB12-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-02-4.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	2-Butanone	29	ug/kg			1.7	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	2-Hexanone	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Acetone	150	ug/kg		B	4.9	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Acrolein	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Alpha activity	4.11	pCi/g	0.485	J	1.35	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Aluminum	11000	mg/kg			1.3	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Americium-241	0.0241	pCi/g	0.00791	U	0.021	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Antimony	0.33	mg/kg		U	0.33	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Arsenic	6.7	mg/kg			0.043	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Barium	55	mg/kg			0.066	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Benzaldehyde	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Benzene	0.49	ug/kg		J	0.43	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Beryllium	0.4	mg/kg		B	0.029	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Beta activity	2.36	pCi/g	0.355	J	1.35	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	240	ug/kg		BJ	46	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Bromoform	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Bromomethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Cadmium	0.041	mg/kg		B	0.036	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Calcium	640	mg/kg			12	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Cesium-137	0.00125	pCi/g	0.0491	U	0.143	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Chloroethane	0.81	ug/kg		U	0.81	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Chloroform	0.26	ug/kg		U	0.26	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Chloromethane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Chromium	12	mg/kg			0.05	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	cis-1,2-Dichloroethene	1	ug/kg		BJ	0.51	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Cobalt	7.6	mg/kg			0.087	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Copper	10	mg/kg			0.19	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Dibromomethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-01-4.5	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Iodomethane	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Iron	21000	mg/kg			3.3	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Lead	11	mg/kg			0.23	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	M + P Xylene	1.4	ug/kg		J	0.95	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Magnesium	1100	mg/kg			3.2	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Manganese	760	mg/kg			0.087	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Mercury	0.023	mg/kg			0.005	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Methylene chloride	2.4	ug/kg		BJ	0.68	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Molybdenum	1.3	mg/kg		B	0.23	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00354	U	0.0191	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Nickel	8.5	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Phenol	32	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Plutonium-238	-0.0028	pCi/g	-0.00485	U	0.0345	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Plutonium-239/240	0.0308	pCi/g	0.00969	U	0.0214	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Selenium	0.41	mg/kg		B	0.11	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Sodium	72	mg/kg		B	51	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Styrene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Technetium-99	0.0286	pCi/g	0.167	U	0.56	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Thallium	0.2	mg/kg			0.003	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Thorium-228	0.858	pCi/g	0.0682	J	0.107	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Thorium-230	1.17	pCi/g	0.0748	J	0.0674	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Thorium-232	0.809	pCi/g	0.0618	J	0.0448	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Toluene	2.9	ug/kg		J	0.63	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Total Xylene	1.4	ug/kg		J	0.56	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Trichloroethene	1.5	ug/kg		BJ	0.21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Trichlorofluoromethane	0.95	ug/kg		U	0.95	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Uranium	0.91	mg/kg			0.0013	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Uranium-233/234	0.703	pCi/g	0.0399	J	0.0173	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Uranium-235	0.0307	pCi/g	0.01	U	0.0267	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Uranium-236	0.0175	pCi/g	0.00708	U	0.0191	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-4.5	RADS	Uranium-238	0.852	pCi/g	0.0438	J	0.0172	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Vanadium	23	mg/kg			0.082	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-4.5	METAL	Zinc	30	mg/kg			0.35	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-21-12	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	1,1,2-Trichloroethane	0.81	ug/kg		U	0.81	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	1,2-Dichloroethane	0.67	ug/kg		U	0.67	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	2-Hexanone	4.7	ug/kg		U	4.7	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	2-Hexanone	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	4-Methylphenol	32	ug/kg		U	32	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	4-Nitrophenol	95	ug/kg		U	95	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	FR	SPS	UJ	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-02-12	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Acetone	5.2	ug/kg		U	5.2	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Acetone	5	ug/kg		U	5	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Alpha activity	4.97	pCi/g	0.553	J	1.49	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Alpha activity	6.16	pCi/g	0.608		1.46	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Aluminum	14000	mg/kg			1.3	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Aluminum	15000	mg/kg			1.5	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Americium-241	0.0349	pCi/g	0.0109	U	0.0278	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Americium-241	0.0243	pCi/g	0.00962	U	0.0291	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Antimony	0.32	mg/kg		U	0.32	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Antimony	0.36	mg/kg		U	0.36	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Arsenic	5.8	mg/kg			0.047	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Arsenic	6.6	mg/kg			0.047	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Barium	88	mg/kg			0.064	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Barium	93	mg/kg			0.072	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Benzene	0.45	ug/kg		U	0.45	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Benzene	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Benzoic acid	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Beryllium	0.91	mg/kg			0.028	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Beryllium	0.99	mg/kg			0.031	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Beta activity	2.06	pCi/g	0.345	J	1.33	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Beta activity	3.44	pCi/g	0.413	J	1.4	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Bis(2-ethylhexyl)phthalate	1200	ug/kg		B	45	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Bromoform	0.22	ug/kg		U	0.22	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Bromomethane	0.48	ug/kg		U	0.48	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Bromomethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Cadmium	0.12	mg/kg		B	0.034	10	12	SOIL	FR	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Cadmium	0.16	mg/kg		B	0.039	10	12	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Calcium	9400	mg/kg			12	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Calcium	15000	mg/kg			13	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Carbazole	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Cesium-137	-0.00527	pCi/g	0.0851	U	0.244	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Cesium-137	0.0189	pCi/g	0.0668	U	0.199	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Chloroethane	0.86	ug/kg		U	0.86	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Chloroethane	0.82	ug/kg		U	0.82	10	12	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-21-12	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Chloroform	0.27	ug/kg		U	0.27	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Chloromethane	0.74	ug/kg		U	0.74	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Chloromethane	0.71	ug/kg		U	0.71	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Chromium	19	mg/kg			0.049	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Chromium	21	mg/kg			0.055	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	cis-1,2-Dichloroethene	1.2	ug/kg		BJ	0.54	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	cis-1,2-Dichloroethene	1	ug/kg		BJ	0.52	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Cobalt	11	mg/kg			0.084	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Cobalt	13	mg/kg			0.094	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Copper	19	mg/kg			0.18	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Copper	19	mg/kg			0.2	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Dibromomethane	0.81	ug/kg		U	0.81	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Dibromomethane	0.77	ug/kg		U	0.77	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Fluoranthene	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Iodomethane	0.42	ug/kg		U	0.42	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Iodomethane	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Iron	24000	mg/kg			3.2	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Iron	24000	mg/kg			3.6	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Lead	10	mg/kg			0.23	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Lead	12	mg/kg			0.25	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	M + P Xylene	0.96	ug/kg		U	0.96	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Magnesium	6000	mg/kg			3.1	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Magnesium	5900	mg/kg			3.5	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Manganese	220	mg/kg			0.084	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Manganese	250	mg/kg			0.094	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Mercury	0.024	mg/kg			0.005	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Mercury	0.018	mg/kg			0.0049	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Methylene chloride	1.2	ug/kg		BJ	0.72	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Methylene chloride	1.1	ug/kg		BJ	0.69	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Molybdenum	1.5	mg/kg		B	0.22	10	12	SOIL	FR	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Molybdenum	1.4	mg/kg		B	0.25	10	12	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Neptunium-237	0	pCi/g	0.00664	U	0.0359	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Neptunium-237	0	pCi/g	0.00448	U	0.0242	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Nickel	28	mg/kg			0.1	10	12	SOIL	FR	SPS	=	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-03-12	METAL	Nickel	29	mg/kg			0.12	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-12	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-12	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-12	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-12	PPCB	PCB-1242	0.009	mg/kg		U	0.009	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-12	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-12	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-12	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Pentachlorophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Phenol	18	ug/kg		U	18	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Phenol	36	ug/kg		J	18	10	12	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Plutonium-238	0	pCi/g	0.00477	U	0.0258	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Plutonium-238	-0.00356	pCi/g	-0.00503	U	0.034	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Plutonium-239/240	0.00337	pCi/g	0.0101	U	0.0544	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Plutonium-239/240	0.032	pCi/g	0.0118	U	0.034	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-18-12	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-12	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-18-12	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	FR	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-12	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Selenium	0.17	mg/kg		B	0.12	10	12	SOIL	FR	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Selenium	0.19	mg/kg		B	0.12	10	12	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Silver	0.13	mg/kg		U	0.13	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Sodium	220	mg/kg		B	50	10	12	SOIL	FR	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Sodium	220	mg/kg		B	56	10	12	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Styrene	0.61	ug/kg		U	0.61	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Styrene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Technetium-99	-0.206	pCi/g	0.162	U	0.551	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Technetium-99	0.112	pCi/g	0.166	U	0.554	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Thallium	0.23	mg/kg			0.0033	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Thallium	0.29	mg/kg			0.0033	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Thorium-228	1.36	pCi/g	0.141	J	0.262	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Thorium-228	1.42	pCi/g	0.0943	J	0.132	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Thorium-230	1.62	pCi/g	0.141	J	0.116	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Thorium-230	1.14	pCi/g	0.081	J	0.0974	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Thorium-232	1.27	pCi/g	0.125	J	0.0926	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Thorium-232	1.24	pCi/g	0.0827	J	0.0526	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Toluene	0.66	ug/kg		U	0.66	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Toluene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Total Xylene	0.59	ug/kg		U	0.59	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Total Xylene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Trichloroethene	1.6	ug/kg		BJ	0.22	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Trichloroethene	1.2	ug/kg		BJ	0.21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Trichlorofluoromethane	0.96	ug/kg		U	0.96	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Uranium	0.81	mg/kg			0.0015	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Uranium	0.87	mg/kg			0.0015	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Uranium-233/234	1	pCi/g	0.0525	J	0.021	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Uranium-233/234	0.884	pCi/g	0.0524	J	0.0237	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Uranium-235	0.0677	pCi/g	0.0155	J	0.0259	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Uranium-235	0.061	pCi/g	0.0157	J	0.0292	10	12	SOIL	REG	SPS		10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-20-12	RADS	Uranium-236	0.00912	pCi/g	0.00608	U	0.0233	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Uranium-236	0.00343	pCi/g	0.00593	U	0.0328	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-20-12	RADS	Uranium-238	0.979	pCi/g	0.0518	J	0.0209	10	12	SOIL	FR	SPS		10/4/2011
WD-SB-12	WDSB12-04-12	RADS	Uranium-238	0.942	pCi/g	0.0542	J	0.0379	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Vanadium	27	mg/kg			0.079	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Vanadium	28	mg/kg			0.089	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Vinyl acetate	0.99	ug/kg		U	0.99	10	12	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-21-12	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	FR	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-12	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-19-12	METAL	Zinc	51	mg/kg			0.33	10	12	SOIL	FR	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-12	METAL	Zinc	54	mg/kg			0.38	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2,4,5-Trichlorophenol	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2,4,6-Trichlorophenol	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2,4-Dichlorophenol	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2-Chloronaphthalene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2-Methylphenol	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	2-Nitrophenol	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	3,3'-Dichlorobenzidine	90	ug/kg		U	90	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	4-Chlorobenzenamine	82	ug/kg		U	82	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	4-Methylphenol	33	ug/kg		U	33	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	4-Nitrophenol	97	ug/kg		U	97	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Acenaphthene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Acenaphthylene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Acetone	5.4	ug/kg		BJ	4.7	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Acrolein	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Alpha activity	5.64	pCi/g	0.563		1.38	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Aluminum	15000	mg/kg			1.5	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Americium-241	0.018	pCi/g	0.00712	U	0.0216	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Aniline	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Anthracene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Antimony	0.37	mg/kg		U	0.37	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Arsenic	5.6	mg/kg			0.043	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Barium	81	mg/kg			0.073	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Benzaldehyde	67	ug/kg		U	67	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Benzene	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Benzenemethanol	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Benzoic acid	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Beryllium	0.85	mg/kg			0.032	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Beta activity	1.99	pCi/g	0.349	J	1.34	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-02-19.5	SVOA	Bis(2-chloroethyl) ether	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Bromoform	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Cadmium	0.11	mg/kg		B	0.039	17.5	19.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Calcium	1600	mg/kg			14	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Carbazole	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Cesium-137	-0.075	pCi/g	0.0535	U	0.131	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Chloroethane	0.78	ug/kg		U	0.78	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Chloroform	0.25	ug/kg		U	0.25	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Chloromethane	0.67	ug/kg		U	0.67	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Chromium	20	mg/kg			0.056	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Chrysene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	cis-1,2-Dichloroethene	1.1	ug/kg		BJ	0.49	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Cobalt	11	mg/kg			0.096	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Copper	18	mg/kg			0.21	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Dibenzofuran	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Dibromomethane	0.73	ug/kg		U	0.73	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Fluoranthene	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Fluorene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Hexachlorobutadiene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Hexachloroethane	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Iron	22000	mg/kg			3.7	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Isophorone	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Lead	9.3	mg/kg			0.26	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	M + P Xylene	0.91	ug/kg		U	0.91	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Magnesium	4000	mg/kg			3.6	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Manganese	150	mg/kg			0.096	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Mercury	0.02	mg/kg			0.0051	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Methylene chloride	0.83	ug/kg		BJ	0.66	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Molybdenum	0.74	mg/kg		B	0.25	17.5	19.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Naphthalene	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Neptunium-237	0	pCi/g	0.00363	U	0.0196	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Nickel	26	mg/kg			0.12	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Nitrobenzene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Phenanthrene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Phenol	35	ug/kg		J	18	17.5	19.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Plutonium-238	0	pCi/g	0.00364	U	0.0247	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Plutonium-239/240	0.0257	pCi/g	0.00891	U	0.0246	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-19.5	SVOA	Pyridine	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Selenium	0.11	mg/kg		U	0.11	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Silver	0.15	mg/kg		U	0.15	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Sodium	170	mg/kg		B	57	17.5	19.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Styrene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Technetium-99	0.102	pCi/g	0.166	U	0.552	17.5	19.5	SOIL	REG	SPS		10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-01-19.5	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Thallium	0.22	mg/kg			0.0029	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Thorium-228	1.33	pCi/g	0.0844	J	0.0646	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Thorium-230	1.31	pCi/g	0.0809	J	0.0475	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Thorium-232	1.25	pCi/g	0.0791	J	0.0474	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Toluene	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Total Xylene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Trichloroethene	1.3	ug/kg		BJ	0.2	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Trichlorofluoromethane	0.91	ug/kg		U	0.91	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Uranium	0.79	mg/kg			0.0013	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Uranium-233/234	0.811	pCi/g	0.0434	J	0.0177	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Uranium-235	0.0429	pCi/g	0.0114	J	0.0219	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Uranium-236	0.00257	pCi/g	0.00363	U	0.0196	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-19.5	RADS	Uranium-238	0.831	pCi/g	0.0439	J	0.0221	17.5	19.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Vanadium	27	mg/kg			0.09	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Vinyl acetate	0.94	ug/kg		U	0.94	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-19.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-19.5	METAL	Zinc	51	mg/kg			0.38	17.5	19.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	2-Hexanone	4.7	ug/kg		U	4.7	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2-Methylphenol	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	4-Methylphenol	32	ug/kg		U	32	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	4-Nitrophenol	95	ug/kg		U	95	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Acenaphthene	10	ug/kg		U	10	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Acenaphthylene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Acetone	5.2	ug/kg		U	5.2	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Acrolein	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Alpha activity	4.54	pCi/g	0.503	J	1.35	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Aluminum	7700	mg/kg			1.4	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Americium-241	0.0102	pCi/g	0.00624	U	0.0244	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Aniline	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Anthracene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Antimony	0.35	mg/kg		U	0.35	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Arsenic	6	mg/kg			0.044	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Barium	46	mg/kg			0.07	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Benzaldehyde	65	ug/kg		U	65	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Benzene	0.45	ug/kg		U	0.45	22.5	24.5	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-02-24.5	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Benzoic acid	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Beryllium	0.45	mg/kg		B	0.031	22.5	24.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Beta activity	-0.159	pCi/g	0.256	U	1.37	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Bromoform	0.22	ug/kg		U	0.22	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Bromomethane	0.48	ug/kg		U	0.48	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Cadmium	0.079	mg/kg		B	0.038	22.5	24.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Calcium	710	mg/kg			13	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Carbazole	35	ug/kg		U	35	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Cesium-137	-0.0405	pCi/g	0.0597	U	0.159	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Chloroethane	0.86	ug/kg		U	0.86	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Chloroform	0.28	ug/kg		U	0.28	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Chloromethane	0.74	ug/kg		U	0.74	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Chromium	10	mg/kg			0.054	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Chrysene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	cis-1,2-Dichloroethene	1.1	ug/kg		BJ	0.54	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Cobalt	6.5	mg/kg			0.093	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Copper	8.7	mg/kg			0.2	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Dibenzofuran	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Dibromomethane	0.81	ug/kg		U	0.81	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Fluoranthene	35	ug/kg		U	35	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Fluorene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Hexachloroethane	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Iron	13000	mg/kg			3.5	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Isophorone	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Lead	7.7	mg/kg			0.25	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	M + P Xylene	1	ug/kg		U	1	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Magnesium	1100	mg/kg			3.4	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Manganese	170	mg/kg			0.093	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Mercury	0.044	mg/kg			0.005	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Methylene chloride	0.73	ug/kg		U	0.73	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Molybdenum	2.2	mg/kg			0.24	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Naphthalene	30	ug/kg		U	30	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Neptunium-237	0	pCi/g	0.00309	U	0.0167	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Nickel	9.9	mg/kg			0.11	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Nitrobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	PPCB	PCB-1221	0.016	mg/kg		U	0.016	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	PPCB	PCB-1260	0.0027	mg/kg		U	0.0027	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Phenanthrene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Phenol	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Plutonium-238	-0.00323	pCi/g	-0.00559	U	0.0397	22.5	24.5	SOIL	REG	SPS		10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-12	WDSB12-04-24.5	RADS	Plutonium-239/240	0.0193	pCi/g	0.00912	U	0.0309	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-02-24.5	PPCB	Polychlorinated biphenyl	0.0027	mg/kg		U	0.0027	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Pyrene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-02-24.5	SVOA	Pyridine	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	UJ	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Selenium	0.11	mg/kg		U	0.11	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Silver	0.15	mg/kg		U	0.15	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Sodium	70	mg/kg		B	55	22.5	24.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Styrene	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Technetium-99	-0.112	pCi/g	0.16	U	0.542	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Thallium	0.21	mg/kg			0.003	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Thorium-228	1.09	pCi/g	0.0807	J	0.107	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Thorium-230	1.19	pCi/g	0.0802	J	0.0653	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Thorium-232	1.07	pCi/g	0.0755	J	0.0405	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Toluene	0.67	ug/kg		U	0.67	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Total Xylene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Trichloroethene	1.2	ug/kg		BJ	0.22	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Uranium	0.67	mg/kg			0.0014	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Uranium-233/234	0.906	pCi/g	0.0505	J	0.0215	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Uranium-235	0.0553	pCi/g	0.0143	J	0.0265	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Uranium-236	0.0155	pCi/g	0.00761	U	0.0238	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-04-24.5	RADS	Uranium-238	0.81	pCi/g	0.0476	J	0.0214	22.5	24.5	SOIL	REG	SPS		10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Vanadium	25	mg/kg			0.087	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Vinyl acetate	1	ug/kg		U	1	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-01-24.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	22.5	24.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-12	WDSB12-03-24.5	METAL	Zinc	36	mg/kg			0.37	22.5	24.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-13	WDSB13RAD-0.5	RADS	Technetium-99	0.0333	pCi/g	0.0663	U	0.221	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-13	WDSB13RAD-0.5	METAL	Total Uranium	1.86	ug/g	0		0.0149	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-13	WDSB13RAD-0.5	RADS	Uranium-233/234	0.551	pCi/g	0.0174		0.00419	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-13	WDSB13RAD-0.5	RADS	Uranium-235	0.023	pCi/g	0.00399	J	0.00517	0.4	0.8	SOIL	REG	AUG	J	4/25/2011
WD-SB-13	WDSB13RAD-0.5	RADS	Uranium-236	0.00546	pCi/g	0.00192	U	0.00464	0.4	0.8	SOIL	REG	AUG	U	4/25/2011
WD-SB-13	WDSB13RAD-0.5	RADS	Uranium-238	0.621	pCi/g	0.0184		0.00417	0.4	0.8	SOIL	REG	AUG	=	4/25/2011
WD-SB-13	WDSB13RAD-2.0	RADS	Technetium-99	-0.000455	pCi/g	0.0637	U	0.214	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-13	WDSB13RAD-2.0	METAL	Total Uranium	1.55	ug/g	0		0.0154	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-13	WDSB13RAD-2.0	RADS	Uranium-233/234	0.496	pCi/g	0.0168		0.00434	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-13	WDSB13RAD-2.0	RADS	Uranium-235	0.0238	pCi/g	0.00414	J	0.00536	1.916666667	2.333333333	SOIL	REG	AUG	J	4/27/2011
WD-SB-13	WDSB13RAD-2.0	RADS	Uranium-236	0.00566	pCi/g	0.00199	U	0.00481	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-13	WDSB13RAD-2.0	RADS	Uranium-238	0.518	pCi/g	0.0171		0.00432	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-14	WDSB14RAD-0.5	RADS	Technetium-99	-0.0294	pCi/g	0.0651	U	0.22	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-14	WDSB14RAD-0.5	METAL	Total Uranium	2.07	ug/g	0		0.0137	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-14	WDSB14RAD-0.5	RADS	Uranium-233/234	0.659	pCi/g	0.0179		0.00372	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-14	WDSB14RAD-0.5	RADS	Uranium-235	0.0282	pCi/g	0.0042	J	0.00575	0.4	0.8	SOIL	REG	AUG	J	4/26/2011
WD-SB-14	WDSB14RAD-0.5	RADS	Uranium-236	0.00269	pCi/g	0.00132	U	0.00412	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-14	WDSB14RAD-0.5	RADS	Uranium-238	0.693	pCi/g	0.0183		0.0037	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-14	WDSB14RAD-2.0	RADS	Technetium-99	-0.0669	pCi/g	0.063	U	0.214	1.916666667	2.25	SOIL	REG	AUG	U	4/27/2011
WD-SB-14	WDSB14RAD-2.0	METAL	Total Uranium	1.73	ug/g	0		0.0157	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-14	WDSB14RAD-2.0	RADS	Uranium-233/234	0.574	pCi/g	0.0182		0.00443	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-14	WDSB14RAD-2.0	RADS	Uranium-235	0.0236	pCi/g	0.00417	J	0.00547	1.916666667	2.25	SOIL	REG	AUG	J	4/27/2011
WD-SB-14	WDSB14RAD-2.0	RADS	Uranium-236	0.00257	pCi/g	0.00157	U	0.00614	1.916666667	2.25	SOIL	REG	AUG	U	4/27/2011
WD-SB-14	WDSB14RAD-2.0	RADS	Uranium-238	0.58	pCi/g	0.0183		0.00441	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-15	WDSB15RAD-0.5	RADS	Technetium-99	-0.156	pCi/g	0.0628	U	0.217	0.4	0.8	SOIL	REG	AUG	J	4/26/2011
WD-SB-15	WDSB15RAD-0.5	METAL	Total Uranium	1.84	ug/g	0		0.0133	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-15	WDSB15RAD-0.5	RADS	Uranium-233/234	0.613	pCi/g	0.017		0.00452	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-15	WDSB15RAD-0.5	RADS	Uranium-235	0.0227	pCi/g	0.00373	J	0.00558	0.4	0.8	SOIL	REG	AUG	J	4/26/2011
WD-SB-15	WDSB15RAD-0.5	RADS	Uranium-236	0.00262	pCi/g	0.00128	U	0.004	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-15	WDSB15RAD-0.5	RADS	Uranium-238	0.616	pCi/g	0.017		0.0036	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-15	WDSB15RAD-2.0	RADS	Technetium-99	0.038	pCi/g	0.0631	U	0.211	1.916666667	2.25	SOIL	REG	AUG	U	4/27/2011
WD-SB-15	WDSB15RAD-2.0	METAL	Total Uranium	1.91	ug/g	0		0.0233	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-15	WDSB15RAD-2.0	RADS	Uranium-233/234	0.579	pCi/g	0.0223		0.00657	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-15	WDSB15RAD-2.0	RADS	Uranium-235	0.0265	pCi/g	0.0054	J	0.0081	1.916666667	2.25	SOIL	REG	AUG	J	4/27/2011
WD-SB-15	WDSB15RAD-2.0	RADS	Uranium-236	0.0076	pCi/g	0.00285	U	0.00727	1.916666667	2.25	SOIL	REG	AUG	U	4/27/2011
WD-SB-15	WDSB15RAD-2.0	RADS	Uranium-238	0.64	pCi/g	0.0234		0.00654	1.916666667	2.25	SOIL	REG	AUG	=	4/27/2011
WD-SB-16	WDSB16-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	1,1,2-Trichloroethane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	1,2,3-Trichloropropane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	1,2-Dichloroethane	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-16	WDSB16-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	2-Hexanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Acetone	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Acrolein	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Alpha activity	3.08	pCi/g	0.425	J	1.34	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Aluminum	9700	mg/kg			1.4	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Americium-241	0.00513	pCi/g	0.00513	U	0.0245	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Antimony	0.34	mg/kg		U	0.34	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Arsenic	24	mg/kg			0.047	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Barium	38	mg/kg			0.067	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Benzaldehyde	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Benzene	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Beryllium	0.65	mg/kg			0.029	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Beta activity	0.764	pCi/g	0.285	U	1.34	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Bromoform	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Bromomethane	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Cadmium	0.036	mg/kg		U	0.036	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Calcium	490	mg/kg			12	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Cesium-137	0.0364	pCi/g	0.0546	U	0.169	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Chloroethane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Chloroform	0.26	ug/kg		U	0.26	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Chloromethane	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Chromium	15	mg/kg			0.051	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		J	0.5	0	2	SOIL	REG	SPS	J	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Cobalt	4.7	mg/kg			0.088	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Copper	19	mg/kg			0.19	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-16	WDSB16-01-2.0	VOA	Dibromochloromethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Dibromomethane	0.75	ug/kg		U	0.75	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Ethylbenzene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Iodomethane	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Iron	32000	mg/kg			3.4	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Lead	11	mg/kg			0.24	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	M + P Xylene	0.92	ug/kg		U	0.92	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Magnesium	1000	mg/kg			3.3	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Manganese	43	mg/kg			0.088	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Mercury	0.0096	mg/kg		B	0.0049	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Methylene chloride	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Molybdenum	0.23	mg/kg		U	0.23	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Neptunium-237	0.00197	pCi/g	0.00279	U	0.0151	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Nickel	13	mg/kg			0.11	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Phenol	39	ug/kg		J	17	0	2	SOIL	REG	SPS	J	10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Plutonium-238	-0.00312	pCi/g	-0.00441	U	0.0299	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Plutonium-239/240	0.0156	pCi/g	0.00763	U	0.0238	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Selenium	0.12	mg/kg		U	0.12	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Sodium	81	mg/kg		B	52	0	2	SOIL	REG	SPS	J	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Styrene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Technetium-99	0.0821	pCi/g	0.146	U	0.488	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Thallium	0.11	mg/kg			0.0033	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Thorium-228	1.25	pCi/g	0.0736	J	0.033	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Thorium-230	0.851	pCi/g	0.0592	J	0.0313	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Thorium-232	0.944	pCi/g	0.0622	J	0.0313	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Toluene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Total Xylene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	trans-1,3-Dichloropropene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Trichloroethene	0.79	ug/kg		BJ	0.2	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Trichlorofluoromethane	0.92	ug/kg		U	0.92	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Uranium	1.2	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Uranium-233/234	0.771	pCi/g	0.0426	J	0.018	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Uranium-235	0.0348	pCi/g	0.0105	J	0.0222	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Uranium-236	0	pCi/g	0.00368	U	0.0249	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-2.0	RADS	Uranium-238	0.859	pCi/g	0.0451	J	0.0288	0	2	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Vanadium	30	mg/kg			0.083	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Vinyl acetate	0.95	ug/kg		U	0.95	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-2.0	METAL	Zinc	50	mg/kg			0.35	0	2	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16RAD-0.5	RADS	Technetium-99	-0.00231	pCi/g	0.0662	U	0.222	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-16	WDSB16RAD-0.5	METAL	Total Uranium	2.12	ug/g	0		0.0136	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-16	WDSB16RAD-0.5	RADS	Uranium-233/234	0.692	pCi/g	0.0186		0.00383	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-16	WDSB16RAD-0.5	RADS	Uranium-235	0.0284	pCi/g	0.00423	J	0.00472	0.4	0.8	SOIL	REG	AUG	J	4/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-16	WDSB16RAD-0.5	RADS	Uranium-236	0.00499	pCi/g	0.00175	U	0.00424	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-16	WDSB16RAD-0.5	RADS	Uranium-238	0.709	pCi/g	0.0188		0.00381	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-16	WDSB16RAD-2.0	RADS	Technetium-99	0.0382	pCi/g	0.065	U	0.217	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-16	WDSB16RAD-2.0	METAL	Total Uranium	2.19	ug/g	0		0.0166	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-16	WDSB16RAD-2.0	RADS	Uranium-233/234	0.657	pCi/g	0.0182		0.00483	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-16	WDSB16RAD-2.0	RADS	Uranium-235	0.0323	pCi/g	0.00453	J	0.00476	1.916666667	2.333333333	SOIL	REG	AUG	J	4/27/2011
WD-SB-16	WDSB16RAD-2.0	RADS	Uranium-236	0.00391	pCi/g	0.00158	U	0.00427	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-16	WDSB16RAD-2.0	RADS	Uranium-238	0.732	pCi/g	0.0192		0.00481	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-16	WDSB16-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	1,1,2-Trichloroethane	0.81	ug/kg		U	0.81	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	2-Hexanone	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Acetone	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Acrolein	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Alpha activity	5.34	pCi/g	0.554		1.4	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Aluminum	12000	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Americium-241	0.0119	pCi/g	0.00685	U	0.0285	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Antimony	0.47	mg/kg		B	0.35	2.5	4.5	SOIL	REG	SPS	J	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Arsenic	29	mg/kg			0.045	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Barium	56	mg/kg			0.069	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Benzaldehyde	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Benzene	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Beryllium	0.78	mg/kg			0.03	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Beta activity	0.732	pCi/g	0.299	U	1.35	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-16	WDSB16-01-4.5	VOA	Bromoform	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Bromomethane	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Cadmium	0.037	mg/kg		U	0.037	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Calcium	690	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Cesium-137	0.00294	pCi/g	0.0564	U	0.163	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Chloroethane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Chloroform	0.27	ug/kg		U	0.27	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Chloromethane	0.71	ug/kg		U	0.71	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Chromium	19	mg/kg			0.053	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Cobalt	9.6	mg/kg			0.091	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Copper	25	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Dibromomethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Iodomethane	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Iron	38000	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Lead	10	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	M + P Xylene	0.96	ug/kg		U	0.96	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Magnesium	1100	mg/kg			3.4	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Manganese	57	mg/kg			0.091	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Mercury	0.039	mg/kg			0.0054	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Methylene chloride	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Molybdenum	0.24	mg/kg		U	0.24	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00346	U	0.0187	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Nickel	20	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	PPCB	PCB-1016	0.0047	mg/kg		U	0.0047	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	PPCB	PCB-1221	0.014	mg/kg		U	0.014	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	PPCB	PCB-1232	0.0047	mg/kg		U	0.0047	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	PPCB	PCB-1242	0.0084	mg/kg		U	0.0084	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	PPCB	PCB-1248	0.0052	mg/kg		U	0.0052	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	PPCB	PCB-1254	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	PPCB	PCB-1260	0.0024	mg/kg		U	0.0024	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Phenol	47	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS	J	10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Plutonium-238	0.0129	pCi/g	0.00683	U	0.0247	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Plutonium-239/240	0.00258	pCi/g	0.00365	U	0.0197	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-02-4.5	PPCB	Polychlorinated biphenyl	0.0024	mg/kg		U	0.0024	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Selenium	0.17	mg/kg		B	0.12	2.5	4.5	SOIL	REG	SPS	J	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Sodium	110	mg/kg		B	54	2.5	4.5	SOIL	REG	SPS	J	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Styrene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Technetium-99	-0.0847	pCi/g	0.161	U	0.543	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Thallium	0.13	mg/kg			0.0031	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Thorium-228	1.4	pCi/g	0.0798	J	0.0839	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Thorium-230	1.16	pCi/g	0.0702	J	0.06	2.5	4.5	SOIL	REG	SPS		10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-16	WDSB16-04-4.5	RADS	Thorium-232	1.42	pCi/g	0.077	J	0.0318	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Toluene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Total Xylene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Trichloroethene	0.78	ug/kg		BJ	0.21	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Trichlorofluoromethane	0.96	ug/kg		U	0.96	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Uranium	0.84	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Uranium-233/234	0.82	pCi/g	0.0415	J	0.016	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Uranium-235	0.0129	pCi/g	0.00634	U	0.0198	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Uranium-236	0.00232	pCi/g	0.00329	U	0.0178	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-4.5	RADS	Uranium-238	0.512	pCi/g	0.0328	J	0.02	2.5	4.5	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Vanadium	41	mg/kg			0.085	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Vinyl acetate	0.98	ug/kg		U	0.98	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-4.5	METAL	Zinc	73	mg/kg			0.36	2.5	4.5	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	1,1,2-Trichloroethane	0.78	ug/kg		U	0.78	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	1,2,3-Trichloropropane	0.72	ug/kg		U	0.72	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	1,2-Dichloroethane	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	2-Butanone	1.6	ug/kg		U	1.6	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	UJ	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	2-Hexanone	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Acetone	6.8	ug/kg		BJ	4.8	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Alpha activity	2.14	pCi/g	0.367	J	1.37	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Aluminum	13000	mg/kg			1.4	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Americium-241	0.00963	pCi/g	0.0051	U	0.0185	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Antimony	0.33	mg/kg		U	0.33	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Arsenic	10	mg/kg			0.049	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Barium	31	mg/kg			0.067	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Benzene	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-16	WDSB16-02-12	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Beryllium	0.74	mg/kg			0.029	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Beta activity	0.287	pCi/g	0.253	U	1.34	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Bromoform	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Bromomethane	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Cadmium	0.036	mg/kg		U	0.036	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Calcium	1000	mg/kg			12	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Cesium-137	0.117	pCi/g	0.0432	U	0.166	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Chloroethane	0.79	ug/kg		U	0.79	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Chloroform	0.26	ug/kg		U	0.26	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Chloromethane	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Chromium	19	mg/kg			0.051	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	cis-1,2-Dichloroethene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Cobalt	7	mg/kg			0.088	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Copper	20	mg/kg			0.19	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Dibromomethane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Iodomethane	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Iron	22000	mg/kg			3.3	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Lead	13	mg/kg			0.24	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	M + P Xylene	0.92	ug/kg		U	0.92	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Magnesium	2900	mg/kg			3.2	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Manganese	110	mg/kg			0.088	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Mercury	0.025	mg/kg			0.0051	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Methylene chloride	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Molybdenum	0.23	mg/kg		U	0.23	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Neptunium-237	0	pCi/g	0.00298	U	0.0161	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Nickel	31	mg/kg			0.11	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Phenol	53	ug/kg		J	18	10	12	SOIL	REG	SPS	J	10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Plutonium-238	0.00254	pCi/g	0.0044	U	0.0243	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Plutonium-239/240	0.0152	pCi/g	0.00672	U	0.0194	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-02-12	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-02-12	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-16	WDSB16-03-12	METAL	Selenium	0.13	mg/kg		U	0.13	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Sodium	170	mg/kg		B	52	10	12	SOIL	REG	SPS	J	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Styrene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Technetium-99	0.334	pCi/g	0.161	U	0.528	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Thallium	0.12	mg/kg			0.0034	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Thorium-228	1.3	pCi/g	0.0673	J	0.0331	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Thorium-230	0.788	pCi/g	0.051	J	0.0251	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Thorium-232	1.15	pCi/g	0.0616	J	0.0251	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Toluene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Total Xylene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Trichloroethene	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Trichlorofluoromethane	0.92	ug/kg		U	0.92	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Uranium	0.58	mg/kg			0.0015	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Uranium-233/234	0.558	pCi/g	0.0335	J	0.0243	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Uranium-235	0.0366	pCi/g	0.00976	J	0.0187	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Uranium-236	0	pCi/g	0.0031	U	0.0168	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-04-12	RADS	Uranium-238	0.577	pCi/g	0.0338	J	0.0151	10	12	SOIL	REG	SPS		10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Vanadium	32	mg/kg			0.082	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Vinyl acetate	0.95	ug/kg		U	0.95	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-01-12	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	10/10/2011
WD-SB-16	WDSB16-03-12	METAL	Zinc	70	mg/kg			0.35	10	12	SOIL	REG	SPS	=	10/10/2011
WD-SB-17	WDSB17-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2,4,5-Trichlorophenol	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2,4,6-Trichlorophenol	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2,4-Dichlorophenol	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	0	2	SOIL	REG	SPS	UJ	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2-Chloronaphthalene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	2-Nitrophenol	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	3,3'-Dichlorobenzidine	90	ug/kg		U	90	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	4-Chlorobenzenamine	82	ug/kg		U	82	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	4-Nitrophenol	97	ug/kg		U	97	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Acetone	6.2	ug/kg		BJ	5.4	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Acrolein	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Alpha activity	5.1	pCi/g	0.494		1.2	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Aluminum	13000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Americium-241	0.0342	pCi/g	0.0108	U	0.0323	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Antimony	0.34	mg/kg		U	0.34	0	2	SOIL	REG	SPS	U	10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-03-2.0	METAL	Arsenic	12	mg/kg			0.049	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Barium	43	mg/kg			0.068	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Benzaldehyde	67	ug/kg		U	67	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Benzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Benzenemethanol	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Benzoic acid	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Beryllium	0.4	mg/kg		B	0.029	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Beta activity	0.896	pCi/g	0.298	U	1.32	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Bis(2-chloroethyl) ether	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Cadmium	0.037	mg/kg		U	0.037	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Calcium	36	mg/kg		B	13	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Cesium-137	0.267	pCi/g	0.0412	U	0.156	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Chloroethane	0.89	ug/kg		U	0.89	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Chloromethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Chromium	15	mg/kg			0.052	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Cobalt	5.3	mg/kg			0.089	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Copper	8.9	mg/kg			0.19	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Dibromomethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Hexachlorobutadiene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Iodomethane	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Iron	20000	mg/kg			3.4	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Lead	14	mg/kg			0.24	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Magnesium	1300	mg/kg			3.3	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Manganese	66	mg/kg			0.089	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Mercury	0.045	mg/kg			0.0052	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Methylene chloride	0.75	ug/kg		U	0.75	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Molybdenum	0.56	mg/kg		B	0.23	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Neptunium-237	0.00203	pCi/g	0.00287	U	0.0155	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Nickel	11	mg/kg			0.11	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS	U	10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Phenol	48	ug/kg		J	18	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Plutonium-238	0.00672	pCi/g	0.00582	U	0.0257	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Plutonium-239/240	0.0268	pCi/g	0.0101	U	0.0257	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Selenium	0.25	mg/kg		B	0.13	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Sodium	65	mg/kg		B	53	0	2	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Styrene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Technetium-99	-0.355	pCi/g	0.167	U	0.572	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Thallium	0.16	mg/kg			0.0034	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Thorium-228	1.14	pCi/g	0.0513	J	0.022	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Thorium-230	0.992	pCi/g	0.0465	J	0.0208	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Thorium-232	1.09	pCi/g	0.0486	J	0.0166	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Toluene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Total Xylene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Uranium	0.69	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Uranium-233/234	0.777	pCi/g	0.044	J	0.019	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Uranium-235	0.0337	pCi/g	0.0106	U	0.0234	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Uranium-236	0.00825	pCi/g	0.0055	U	0.021	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-2.0	RADS	Uranium-238	0.767	pCi/g	0.0437	J	0.0237	0	2	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Vanadium	34	mg/kg			0.084	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-2.0	METAL	Zinc	34	mg/kg			0.36	0	2	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17RAD-0.5	RADS	Technetium-99	0.0134	pCi/g	0.0648	U	0.217	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-17	WDSB17RAD-0.5	METAL	Total Uranium	1.89	ug/g	0		0.0154	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-17	WDSB17RAD-0.5	RADS	Uranium-233/234	0.608	pCi/g	0.0182		0.00416	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-17	WDSB17RAD-0.5	RADS	Uranium-235	0.0302	pCi/g	0.0046	J	0.00643	0.4	0.8	SOIL	REG	AUG	J	4/26/2011
WD-SB-17	WDSB17RAD-0.5	RADS	Uranium-236	0.00422	pCi/g	0.0017	U	0.00461	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-17	WDSB17RAD-0.5	RADS	Uranium-238	0.63	pCi/g	0.0185		0.00414	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-17	WDSB17RAD-2.0	RADS	Technetium-99	-0.0751	pCi/g	0.0636	U	0.217	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-17	WDSB17RAD-2.0	METAL	Total Uranium	1.76	ug/g	0		0.0166	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-17	WDSB17RAD-2.0	RADS	Uranium-233/234	0.547	pCi/g	0.0166		0.00387	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-17	WDSB17RAD-2.0	RADS	Uranium-235	0.0306	pCi/g	0.00441	J	0.00478	1.916666667	2.333333333	SOIL	REG	AUG	J	4/27/2011
WD-SB-17	WDSB17RAD-2.0	RADS	Uranium-236	0.00392	pCi/g	0.00159	U	0.00429	1.916666667	2.333333333	SOIL	REG	AUG	U	4/27/2011
WD-SB-17	WDSB17RAD-2.0	RADS	Uranium-238	0.589	pCi/g	0.0172		0.00483	1.916666667	2.333333333	SOIL	REG	AUG	=	4/27/2011
WD-SB-17	WDSB17-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	1,1,2-Trichloroethane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	1,1-Dichloroethene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	1,2,3-Trichloropropane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	1,2-Dichloroethane	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	REG	SPS	UJ	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	2-Hexanone	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-02-4.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	4-Nitrophenol	93	ug/kg		U	93	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Acetone	5	ug/kg		BJ	4.8	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Acrolein	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Alpha activity	5.01	pCi/g	0.504		1.27	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Aluminum	15000	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Americium-241	0.0187	pCi/g	0.0081	U	0.0288	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Antimony	0.34	mg/kg		U	0.34	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Arsenic	14	mg/kg			0.049	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Barium	38	mg/kg			0.068	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Benzaldehyde	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Benzene	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Benzenemethanol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Beryllium	0.59	mg/kg			0.029	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Beta activity	0.643	pCi/g	0.291	U	1.34	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	85	ug/kg		J	44	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Bromoform	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Bromomethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Cadmium	0.037	mg/kg		U	0.037	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Calcium	73	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Cesium-137	0.0205	pCi/g	0.0698	U	0.206	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Chloroethane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Chloroform	0.26	ug/kg		U	0.26	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Chloromethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Chromium	20	mg/kg			0.052	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	cis-1,2-Dichloroethene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Cobalt	9.4	mg/kg			0.089	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Copper	20	mg/kg			0.19	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Dibromochloromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Dibromomethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Ethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Iodomethane	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Iron	22000	mg/kg			3.4	2.5	4.5	SOIL	REG	SPS	=	10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Lead	15	mg/kg			0.24	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	M + P Xylene	0.93	ug/kg		U	0.93	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Magnesium	2400	mg/kg			3.3	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Manganese	86	mg/kg			0.089	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Mercury	0.0075	mg/kg		B	0.0052	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Methylene chloride	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Molybdenum	0.33	mg/kg		B	0.23	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Neptunium-237	0.00396	pCi/g	0.00561	U	0.0285	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Nickel	21	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	PPCB	PCB-1016	0.0047	mg/kg		U	0.0047	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	PPCB	PCB-1221	0.014	mg/kg		U	0.014	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	PPCB	PCB-1232	0.0047	mg/kg		U	0.0047	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	PPCB	PCB-1242	0.0084	mg/kg		U	0.0084	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	PPCB	PCB-1248	0.0052	mg/kg		U	0.0052	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	PPCB	PCB-1254	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	PPCB	PCB-1260	0.0024	mg/kg		U	0.0024	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Phenol	36	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Plutonium-238	-0.00231	pCi/g	-0.00327	U	0.0221	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Plutonium-239/240	0.0115	pCi/g	0.00611	U	0.0221	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-02-4.5	PPCB	Polychlorinated biphenyl	0.0024	mg/kg		U	0.0024	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Selenium	0.17	mg/kg		B	0.13	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Sodium	99	mg/kg		B	53	2.5	4.5	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Styrene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Technetium-99	-0.269	pCi/g	0.165	U	0.562	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Tetrachloroethene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Thallium	0.15	mg/kg			0.0034	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Thorium-228	1.28	pCi/g	0.053	J	0.021	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Thorium-230	0.831	pCi/g	0.0416	J	0.0159	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Thorium-232	1.12	pCi/g	0.0483	J	0.0159	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Toluene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Total Xylene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	trans-1,3-Dichloropropene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Trichlorofluoromethane	0.93	ug/kg		U	0.93	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Uranium	0.47	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Uranium-233/234	0.637	pCi/g	0.0337	J	0.0136	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Uranium-235	0.0374	pCi/g	0.00933	J	0.0168	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Uranium-236	0.00198	pCi/g	0.00342	U	0.0189	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-04-4.5	RADS	Uranium-238	0.671	pCi/g	0.0346	J	0.0136	2.5	4.5	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Vanadium	36	mg/kg			0.084	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Vinyl acetate	0.96	ug/kg		U	0.96	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-4.5	METAL	Zinc	52	mg/kg			0.36	2.5	4.5	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2,4,5-Trichlorophenol	9.4	ug/kg		U	9.4	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2,4,5-Trichlorophenol	9.4	ug/kg		U	9.4	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2,4,6-Trichlorophenol	9.4	ug/kg		U	9.4	10	12	SOIL	FR	SPS	U	10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-02-12	SVOA	2,4,6-Trichlorophenol	9.4	ug/kg		U	9.4	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2,4-Dichlorophenol	9.4	ug/kg		U	9.4	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2,4-Dichlorophenol	9.4	ug/kg		U	9.4	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS	UJ	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2-Chloronaphthalene	9.4	ug/kg		U	9.4	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2-Chloronaphthalene	9.4	ug/kg		U	9.4	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	2-Hexanone	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	2-Nitrophenol	9.4	ug/kg		U	9.4	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	2-Nitrophenol	9.4	ug/kg		U	9.4	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	4-Nitrophenol	91	ug/kg		U	91	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	4-Nitrophenol	91	ug/kg		U	91	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Acetone	5.2	ug/kg		BJ	5.2	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Alpha activity	6.51	pCi/g	0.59		1.35	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Alpha activity	6.15	pCi/g	0.574		1.35	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Aluminum	13000	mg/kg			1.3	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Aluminum	13000	mg/kg			1.4	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Americium-241	0.0143	pCi/g	0.00698	U	0.0218	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Americium-241	0.0216	pCi/g	0.0114	U	0.0442	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Antimony	0.32	mg/kg		U	0.32	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Antimony	0.35	mg/kg		U	0.35	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Arsenic	13	mg/kg			0.047	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Arsenic	17	mg/kg			0.046	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Barium	34	mg/kg			0.064	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Barium	45	mg/kg			0.07	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Benzaldehyde	63	ug/kg		U	63	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Benzaldehyde	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Benzene	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Benzenemethanol	9.4	ug/kg		U	9.4	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Benzenemethanol	9.4	ug/kg		U	9.4	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-18-12	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Beryllium	0.8	mg/kg			0.028	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Beryllium	0.85	mg/kg			0.03	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Beta activity	0.691	pCi/g	0.303	U	1.34	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Beta activity	0.454	pCi/g	0.305	U	1.42	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Bis(2-ethylhexyl)phthalate	53	ug/kg		J	43	10	12	SOIL	FR	SPS	J	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Bis(2-ethylhexyl)phthalate	52	ug/kg		J	43	10	12	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Bromoform	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Bromomethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Cadmium	0.035	mg/kg		U	0.035	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Cadmium	0.038	mg/kg		U	0.038	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Calcium	900	mg/kg			12	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Calcium	930	mg/kg			13	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Carbazole	34	ug/kg		U	34	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Carbazole	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Cesium-137	-0.0734	pCi/g	0.0988	U	0.261	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Cesium-137	0.0878	pCi/g	0.0839	U	0.268	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Chloroethane	0.86	ug/kg		U	0.86	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Chloromethane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Chromium	20	mg/kg			0.049	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Chromium	20	mg/kg			0.053	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Chrysene	25	ug/kg		U	25	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Chrysene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Cobalt	9	mg/kg			0.085	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Cobalt	9.4	mg/kg			0.092	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Copper	21	mg/kg			0.18	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Copper	23	mg/kg			0.2	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Dibromomethane	0.82	ug/kg		U	0.82	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Diethyl phthalate	24	ug/kg		U	24	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Diethyl phthalate	24	ug/kg		U	24	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Fluoranthene	34	ug/kg		U	34	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Fluoranthene	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Hexachlorobenzene	27	ug/kg		U	27	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Hexachlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Hexachlorobutadiene	9.4	ug/kg		U	9.4	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Hexachlorobutadiene	9.4	ug/kg		U	9.4	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-02-12	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Iodomethane	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Iron	20000	mg/kg			3.2	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Iron	24000	mg/kg			3.5	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Lead	12	mg/kg			0.23	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Lead	14	mg/kg			0.25	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Magnesium	3400	mg/kg			3.1	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Magnesium	3300	mg/kg			3.4	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Manganese	130	mg/kg			0.085	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Manganese	140	mg/kg			0.092	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Mercury	0.026	mg/kg			0.0051	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Mercury	0.022	mg/kg			0.0054	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Methylene chloride	0.73	ug/kg		U	0.73	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Molybdenum	0.22	mg/kg		U	0.22	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Molybdenum	0.34	mg/kg		B	0.24	10	12	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Naphthalene	29	ug/kg		U	29	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Naphthalene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Neptunium-237	0.00391	pCi/g	0.00339	U	0.015	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Neptunium-237	0.00616	pCi/g	0.0041	U	0.0157	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Nickel	27	mg/kg			0.1	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Nickel	27	mg/kg			0.11	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Phenol	44	ug/kg		J	17	10	12	SOIL	FR	SPS	J	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Phenol	39	ug/kg		J	17	10	12	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Plutonium-238	0	pCi/g	0.00414	U	0.0224	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Plutonium-238	0.00386	pCi/g	0.00545	U	0.0295	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Plutonium-239/240	0.0263	pCi/g	0.00923	U	0.0223	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Plutonium-239/240	0.0308	pCi/g	0.0116	U	0.0295	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-18-12	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Pyrene	11	ug/kg		U	11	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Pyrene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-18-12	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-02-12	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Selenium	0.12	mg/kg		U	0.12	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Selenium	0.13	mg/kg		B	0.12	10	12	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Sodium	230	mg/kg		B	50	10	12	SOIL	FR	SPS	J	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Sodium	230	mg/kg		B	54	10	12	SOIL	REG	SPS	J	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Styrene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Technetium-99	-0.529	pCi/g	0.16	U	0.556	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Technetium-99	-0.258	pCi/g	0.162	U	0.554	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Thallium	0.13	mg/kg			0.0033	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Thallium	0.14	mg/kg			0.0032	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Thorium-228	1.49	pCi/g	0.0637	J	0.0208	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Thorium-228	1.64	pCi/g	0.0659	J	0.0202	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Thorium-230	1.15	pCi/g	0.0544	J	0.0197	10	12	SOIL	FR	SPS		10/8/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-04-12	RADS	Thorium-230	1.07	pCi/g	0.0517	J	0.0191	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Thorium-232	1.44	pCi/g	0.0608	J	0.0196	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Thorium-232	1.36	pCi/g	0.0582	J	0.0239	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Toluene	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Total Xylene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Trichloroethene	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Uranium	0.46	mg/kg			0.0015	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Uranium	0.58	mg/kg			0.0014	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Uranium-233/234	1.17	pCi/g	0.0551	J	0.0198	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Uranium-233/234	0.777	pCi/g	0.0475	J	0.0276	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Uranium-235	0.0512	pCi/g	0.0132	J	0.0245	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Uranium-235	0.0497	pCi/g	0.0159	U	0.0511	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Uranium-236	0.00287	pCi/g	0.00406	U	0.022	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Uranium-236	0.00956	pCi/g	0.00638	U	0.0244	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-20-12	RADS	Uranium-238	1.04	pCi/g	0.0518	J	0.0198	10	12	SOIL	FR	SPS		10/8/2011
WD-SB-17	WDSB17-04-12	RADS	Uranium-238	0.865	pCi/g	0.05	J	0.0274	10	12	SOIL	REG	SPS		10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Vanadium	34	mg/kg			0.08	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Vanadium	31	mg/kg			0.086	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-12	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	10/8/2011
WD-SB-17	WDSB17-19-12	METAL	Zinc	56	mg/kg			0.34	10	12	SOIL	FR	SPS	=	10/8/2011
WD-SB-17	WDSB17-03-12	METAL	Zinc	75	mg/kg			0.37	10	12	SOIL	REG	SPS	=	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	2-Butanone	1.8	ug/kg		U	1.8	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	10.5	12.5	SOIL	FR	SPS	UJ	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	2-Hexanone	4.8	ug/kg		U	4.8	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Acetone	5.9	ug/kg		BJ	5.2	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Acrolein	20	ug/kg		U	20	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Benzene	0.46	ug/kg		U	0.46	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Bromoform	0.22	ug/kg		U	0.22	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Bromomethane	0.49	ug/kg		U	0.49	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Chloroethane	0.87	ug/kg		U	0.87	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Chloroform	0.28	ug/kg		U	0.28	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Chloromethane	0.75	ug/kg		U	0.75	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Dibromomethane	0.82	ug/kg		U	0.82	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Iodomethane	0.43	ug/kg		U	0.43	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	M + P Xylene	1	ug/kg		U	1	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Methylene chloride	0.73	ug/kg		U	0.73	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Styrene	0.61	ug/kg		U	0.61	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Toluene	0.67	ug/kg		U	0.67	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Total Xylene	0.6	ug/kg		U	0.6	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Trichloroethene	0.22	ug/kg		U	0.22	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Vinyl acetate	1	ug/kg		U	1	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-21-12	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10.5	12.5	SOIL	FR	SPS	U	10/8/2011
WD-SB-17	WDSB17-01-19.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS	U	10/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-01-19.5	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	17.5	19.5	SOIL	REG	SPS	UJ	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	4-Methylphenol	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	4-Nitrophenol	92	ug/kg		U	92	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Acetone	5.8	ug/kg		BJ	5.2	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Acrolein	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Alpha activity	7.52	pCi/g	0.622		1.32	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Aluminum	12000	mg/kg			1.4	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Americium-241	0.0294	pCi/g	0.0102	U	0.0282	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Aniline	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Antimony	0.35	mg/kg		B	0.35	17.5	19.5	SOIL	REG	SPS	J	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Arsenic	21	mg/kg			0.049	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Barium	52	mg/kg			0.069	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Benzaldehyde	64	ug/kg		U	64	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Benzene	0.46	ug/kg		U	0.46	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Benzoic acid	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Beryllium	0.81	mg/kg			0.03	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Beta activity	0.0872	pCi/g	0.285	U	1.35	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Bromoform	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Cadmium	0.055	mg/kg		B	0.037	17.5	19.5	SOIL	REG	SPS	J	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Calcium	900	mg/kg			13	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Carbazole	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Cesium-137	-0.18	pCi/g	0.125	U	0.306	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Chloroform	0.28	ug/kg		U	0.28	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Chloromethane	0.75	ug/kg		U	0.75	17.5	19.5	SOIL	REG	SPS	U	10/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-03-19.5	METAL	Chromium	19	mg/kg			0.053	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Chrysene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Cobalt	18	mg/kg			0.091	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Copper	21	mg/kg			0.2	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Dibenzofuran	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Fluoranthene	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Hexachloroethane	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Iron	26000	mg/kg			3.5	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Lead	17	mg/kg			0.25	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	M + P Xylene	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Magnesium	3300	mg/kg			3.4	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Manganese	240	mg/kg			0.091	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Mercury	0.034	mg/kg			0.0054	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Methylene chloride	0.73	ug/kg		U	0.73	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Molybdenum	0.37	mg/kg		B	0.24	17.5	19.5	SOIL	REG	SPS	J	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Naphthalene	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Neptunium-237	0.00196	pCi/g	0.00339	U	0.0188	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Nickel	28	mg/kg			0.11	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Nitrobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Phenol	47	ug/kg		J	17	17.5	19.5	SOIL	REG	SPS	J	10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Plutonium-238	0.00317	pCi/g	0.00448	U	0.0242	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Plutonium-239/240	0.0285	pCi/g	0.01	U	0.0242	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Selenium	0.13	mg/kg		U	0.13	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Silver	0.15	mg/kg		U	0.15	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Sodium	200	mg/kg		B	54	17.5	19.5	SOIL	REG	SPS	J	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Styrene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Technetium-99	-0.284	pCi/g	0.163	U	0.558	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Thallium	0.15	mg/kg			0.0034	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Thorium-228	1.59	pCi/g	0.0643	J	0.0249	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Thorium-230	1.15	pCi/g	0.0534	J	0.0188	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Thorium-232	1.47	pCi/g	0.0601	J	0.0188	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Toluene	0.67	ug/kg		U	0.67	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Total Xylene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Uranium	0.68	mg/kg			0.0015	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Uranium-233/234	0.963	pCi/g	0.0467	J	0.0173	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Uranium-235	0.0502	pCi/g	0.0122	J	0.0213	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Uranium-236	0.0025	pCi/g	0.00434	U	0.024	17.5	19.5	SOIL	REG	SPS		10/9/2011
WD-SB-17	WDSB17-04-19.5	RADS	Uranium-238	0.891	pCi/g	0.0448	J	0.0172	17.5	19.5	SOIL	REG	SPS		10/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-17	WDSB17-03-19.5	METAL	Vanadium	31	mg/kg			0.085	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Vinyl acetate	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-01-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS	U	10/9/2011
WD-SB-17	WDSB17-03-19.5	METAL	Zinc	84	mg/kg			0.36	17.5	19.5	SOIL	REG	SPS	=	10/9/2011
WD-SB-18	WDSB18-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2,4,5-Trichlorophenol	9.2	ug/kg		U	9.2	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2,4,6-Trichlorophenol	9.2	ug/kg		U	9.2	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2,4-Dichlorophenol	9.2	ug/kg		U	9.2	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2-Chloronaphthalene	9.2	ug/kg		U	9.2	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2-Chlorophenol	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	2-Nitrophenol	9.2	ug/kg		U	9.2	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	3,3'-Dichlorobenzidine	83	ug/kg		U	83	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	3-Nitrobenzenamine	67	ug/kg		U	67	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	4-Methylphenol	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	4-Nitrobenzenamine	67	ug/kg		U	67	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	4-Nitrophenol	90	ug/kg		U	90	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Acenaphthene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Acetone	8.8	ug/kg		J	5.4	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Acrolein	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Alpha activity	7.94	pCi/g	0.977		3.04	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Aluminum	13000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Americium-241	0.025	pCi/g	0.0106	U	0.0404	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Antimony	0.33	mg/kg		U	0.33	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Arsenic	15	mg/kg			0.044	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Barium	93	mg/kg			0.067	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Benz(a)anthracene	30	ug/kg		J	18	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Benzaldehyde	62	ug/kg		U	62	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Benzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Benzenemethanol	11	ug/kg		J	9.2	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Benzo(a)pyrene	31	ug/kg		J	18	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Benzo(b)fluoranthene	61	ug/kg		J	24	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Benzo(ghi)perylene	25	ug/kg		J	15	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Benzoic acid	300	ug/kg		U	300	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Beryllium	0.76	mg/kg			0.029	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Beta activity	-1.65	pCi/g	0.458	U	2.84	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	42	ug/kg		U	42	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Cadmium	0.15	mg/kg		B	0.036	0	2	SOIL	REG	SPS	J	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-18	WDSB18-03-2.0	METAL	Calcium	5200	mg/kg			12	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Carbazole	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Cesium-137	0.134	pCi/g	0.0527	U	0.188	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Chloroethane	0.89	ug/kg		U	0.89	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Chloromethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Chromium	17	mg/kg			0.051	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Chrysene	37	ug/kg		J	25	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Cobalt	8.3	mg/kg			0.088	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Copper	15	mg/kg			0.19	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Dibenzofuran	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Dibromomethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Diphenyldiazene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Fluoranthene	71	ug/kg		J	33	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Hexachlorobutadiene	9.2	ug/kg		U	9.2	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		J	20	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Iodomethane	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Iron	23000	mg/kg			3.3	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Lead	16	mg/kg			0.24	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Magnesium	3400	mg/kg			3.2	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Manganese	170	mg/kg			0.088	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Mercury	0.012	mg/kg		B	0.0049	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Methylene chloride	0.93	ug/kg		J	0.75	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Molybdenum	2.7	mg/kg			0.23	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Neptunium-237	0.00237	pCi/g	0.00335	U	0.0181	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Nickel	17	mg/kg			0.11	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Nitrobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Pentachlorophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Phenanthrene	33	ug/kg		J	16	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Phenol	23	ug/kg		J	17	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Plutonium-238	0	pCi/g	0.00439	U	0.0237	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Plutonium-239/240	0.0403	pCi/g	0.012	U	0.0297	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Pyrene	60	ug/kg		J	11	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Selenium	0.17	mg/kg		B	0.11	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Sodium	110	mg/kg		B	52	0	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Styrene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Technetium-99	0.288	pCi/g	0.166	U	0.548	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Thallium	0.27	mg/kg			0.003	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Thorium-228	0.911	pCi/g	0.0562	J	0.0708	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Thorium-230	1.07	pCi/g	0.0586	J	0.0245	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Thorium-232	0.763	pCi/g	0.0495	J	0.0244	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Toluene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Total Xylene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-18	WDSB18-01-2.0	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Uranium	1.2	mg/kg			0.0014	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Uranium-233/234	0.955	pCi/g	0.0499	J	0.0199	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Uranium-235	0.0546	pCi/g	0.0136	J	0.0246	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Uranium-236	0.0115	pCi/g	0.00644	U	0.022	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-2.0	RADS	Uranium-238	1.02	pCi/g	0.0515	J	0.0198	0	2	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Vanadium	27	mg/kg			0.082	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	UJ	8/16/2011
WD-SB-18	WDSB18-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-2.0	METAL	Zinc	47	mg/kg			0.35	0	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18RAD-0.5	RADS	Technetium-99	-0.0212	pCi/g	0.0627	U	0.212	0.4	0.8	SOIL	REG	AUG	U	5/19/2011
WD-SB-18	WDSB18RAD-0.5	METAL	Total Uranium	3.33	ug/g	0		0.0238	0.4	0.8	SOIL	REG	AUG	J	5/19/2011
WD-SB-18	WDSB18RAD-0.5	RADS	Uranium-233/234	1.1	pCi/g	0.031		0.00671	0.4	0.8	SOIL	REG	AUG	=	5/19/2011
WD-SB-18	WDSB18RAD-0.5	RADS	Uranium-235	0.0444	pCi/g	0.00701	J	0.00828	0.4	0.8	SOIL	REG	AUG	J	5/19/2011
WD-SB-18	WDSB18RAD-0.5	RADS	Uranium-236	0.0117	pCi/g	0.0035	J	0.00743	0.4	0.8	SOIL	REG	AUG	UJ	5/19/2011
WD-SB-18	WDSB18RAD-0.5	RADS	Uranium-238	1.11	pCi/g	0.0312		0.00668	0.4	0.8	SOIL	REG	AUG	=	5/19/2011
WD-SB-18	WDSB18RAD-2.0	RADS	Technetium-99	0.0299	pCi/g	0.0623	U	0.208	1.833333333	2.25	SOIL	REG	AUG	U	5/19/2011
WD-SB-18	WDSB18RAD-2.0	METAL	Total Uranium	3.35	ug/g	0		0.0425	1.833333333	2.25	SOIL	REG	AUG	J	5/19/2011
WD-SB-18	WDSB18RAD-2.0	RADS	Uranium-233/234	1.03	pCi/g	0.0289		0.00621	1.833333333	2.25	SOIL	REG	AUG	=	5/19/2011
WD-SB-18	WDSB18RAD-2.0	RADS	Uranium-235	0.0451	pCi/g	0.00679	J	0.00766	1.833333333	2.25	SOIL	REG	AUG	J	5/19/2011
WD-SB-18	WDSB18RAD-2.0	RADS	Uranium-236	0.00809	pCi/g	0.00324	U	0.0111	1.833333333	2.25	SOIL	REG	AUG	UJ	5/19/2011
WD-SB-18	WDSB18RAD-2.0	RADS	Uranium-238	1.12	pCi/g	0.0302		0.0131	1.833333333	2.25	SOIL	REG	AUG	=	5/19/2011
WD-SB-18	WDSB18-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2-Chlorophenol	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	2-Hexanone	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	3,3'-Dichlorobenzidine	83	ug/kg		U	83	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	4-Methylphenol	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	4-Nitrobenzenamine	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	4-Nitrophenol	90	ug/kg		U	90	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Acenaphthene	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Acetone	6.6	ug/kg		J	5.4	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Alpha activity	6.47	pCi/g	0.873		2.94	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Aluminum	17000	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Americium-241	0	pCi/g	0.00702	U	0.0401	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Antimony	0.33	mg/kg		U	0.33	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Arsenic	8.7	mg/kg			0.048	2.5	4.5	SOIL	REG	SPS	=	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-18	WDSB18-03-4.5	METAL	Barium	33	mg/kg			0.067	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Benzaldehyde	62	ug/kg		U	62	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Benzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Benzenemethanol	14	ug/kg		J	9.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Benzoic acid	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Beryllium	0.49	mg/kg			0.029	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Beta activity	2.22	pCi/g	0.626	U	2.83	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Cadmium	0.071	mg/kg		B	0.036	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Calcium	2000	mg/kg			12	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Carbazole	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Cesium-137	0.0106	pCi/g	0.0512	U	0.15	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Chloroethane	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Chloromethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Chromium	19	mg/kg			0.051	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Chrysene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Cobalt	4.3	mg/kg			0.088	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Copper	12	mg/kg			0.19	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Dibromomethane	0.84	ug/kg		U	0.84	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Dimethyl phthalate	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Diphenyldiazene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Fluoranthene	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Iron	26000	mg/kg			3.3	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Lead	10	mg/kg			0.24	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Magnesium	2200	mg/kg			3.2	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Manganese	110	mg/kg			0.088	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Mercury	0.0088	mg/kg		B	0.0049	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Methylene chloride	1.8	ug/kg		J	0.75	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Molybdenum	1.7	mg/kg		B	0.23	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Naphthalene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Neptunium-237	0.00479	pCi/g	0.00415	U	0.0183	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Nickel	9.8	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Nitrobenzene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-18	WDSB18-02-4.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Phenol	25	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Plutonium-238	0.00292	pCi/g	0.00413	U	0.0224	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Plutonium-239/240	0.00877	pCi/g	0.00584	U	0.0224	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Pyrene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Selenium	0.14	mg/kg		B	0.13	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Sodium	410	mg/kg		B	52	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Styrene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Technetium-99	-0.21	pCi/g	0.158	U	0.54	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Thallium	0.26	mg/kg			0.0033	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Thorium-228	0.839	pCi/g	0.0469	J	0.0484	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Thorium-230	1.22	pCi/g	0.0552	J	0.0304	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Thorium-232	0.898	pCi/g	0.0475	J	0.0355	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Toluene	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Total Xylene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Uranium	0.96	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Uranium-233/234	0.915	pCi/g	0.0467	J	0.0182	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Uranium-235	0.0322	pCi/g	0.0106	U	0.0281	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Uranium-236	0.00263	pCi/g	0.00372	U	0.0201	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-4.5	RADS	Uranium-238	0.946	pCi/g	0.0474	J	0.0181	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Vanadium	33	mg/kg			0.082	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	UJ	8/16/2011
WD-SB-18	WDSB18-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-4.5	METAL	Zinc	21	mg/kg			0.35	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	2-Butanone	10	ug/kg		J	1.8	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	4-Methylphenol	32	ug/kg		U	32	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	4-Nitrophenol	95	ug/kg		U	95	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Acetone	53	ug/kg			5.3	10	12	SOIL	REG	SPS	=	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-18	WDSB18-01-12.0	VOA	Acrolein	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Alpha activity	3.49	pCi/g	0.703	U	2.99	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Aluminum	10000	mg/kg			1.6	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Americium-241	0.0329	pCi/g	0.00955	U	0.0269	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Antimony	0.38	mg/kg		U	0.38	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Arsenic	6.4	mg/kg			0.047	10	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Barium	64	mg/kg			0.076	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Benzaldehyde	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Benzene	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Benzenemethanol	17	ug/kg		J	9.8	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Benzoic acid	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Beryllium	0.66	mg/kg			0.033	10	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Beta activity	1.51	pCi/g	0.589	U	2.92	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Bromoform	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Cadmium	0.18	mg/kg		B	0.041	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Calcium	440	mg/kg			14	10	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Carbazole	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Cesium-137	-0.000585	pCi/g	0.0473	U	0.137	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Chloroethane	0.87	ug/kg		U	0.87	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Chromium	11	mg/kg			0.058	10	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Cobalt	10	mg/kg			0.1	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Copper	7.5	mg/kg			0.22	10	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Dibromomethane	0.82	ug/kg		U	0.82	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Fluoranthene	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Iodomethane	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Iron	14000	mg/kg			3.8	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Lead	14	mg/kg			0.27	10	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Magnesium	850	mg/kg			3.7	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Manganese	1200	mg/kg			0.1	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Mercury	0.016	mg/kg		B	0.0054	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Methylene chloride	2.4	ug/kg		J	0.74	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Molybdenum	1.7	mg/kg		B	0.26	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Neptunium-237	0	pCi/g	0.00345	U	0.0233	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Nickel	8.8	mg/kg			0.12	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-18	WDSB18-02-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	PPCB	PCB-1016	0.0047	mg/kg		U	0.0047	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	PPCB	PCB-1221	0.014	mg/kg		U	0.014	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	PPCB	PCB-1242	0.0085	mg/kg		U	0.0085	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	PPCB	PCB-1248	0.0052	mg/kg		U	0.0052	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	PPCB	PCB-1254	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Phenol	31	ug/kg		J	18	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Plutonium-238	-0.00285	pCi/g	-0.00403	U	0.0273	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Plutonium-239/240	0.00285	pCi/g	0.00494	U	0.0273	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-12.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Selenium	0.3	mg/kg		B	0.12	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Silver	0.16	mg/kg		U	0.16	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Sodium	60	mg/kg		B	59	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Styrene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Technetium-99	0.0831	pCi/g	0.161	U	0.538	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Thallium	0.2	mg/kg			0.0033	10	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Thorium-228	0.961	pCi/g	0.0534	J	0.0548	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Thorium-230	1.32	pCi/g	0.061	J	0.0268	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Thorium-232	1.05	pCi/g	0.0541	J	0.0214	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Toluene	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Trichloroethene	1.4	ug/kg		J	0.23	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Uranium	0.71	mg/kg			0.0015	10	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Uranium-233/234	0.896	pCi/g	0.0441	J	0.0165	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Uranium-235	0.0373	pCi/g	0.0103	J	0.0204	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Uranium-236	0.00239	pCi/g	0.00414	U	0.0229	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-12.0	RADS	Uranium-238	0.966	pCi/g	0.0456	J	0.0165	10	12	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Vanadium	0.94	mg/kg		U	0.94	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	UJ	8/16/2011
WD-SB-18	WDSB18-01-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-12.0	METAL	Zinc	29	mg/kg			0.4	10	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	2-Hexanone	4.9	ug/kg		U	4.9	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2-Methylphenol	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-18	WDSB18-02-19.5	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	4-Methylphenol	32	ug/kg		U	32	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	4-Nitrophenol	95	ug/kg		U	95	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Acenaphthene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Acenaphthylene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Acetone	8.9	ug/kg		J	5.4	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Acrolein	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Alpha activity	2.92	pCi/g	0.636	U	2.8	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Aluminum	8200	mg/kg			1.4	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Americium-241	0.00711	pCi/g	0.00918	U	0.0453	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Aniline	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Anthracene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Antimony	0.35	mg/kg		U	0.35	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Arsenic	7.6	mg/kg			0.045	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Barium	44	mg/kg			0.07	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Benzaldehyde	66	ug/kg		U	66	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Benzene	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Benzenemethanol	36	ug/kg		J	9.8	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Benzoic acid	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Beryllium	0.42	mg/kg		B	0.031	17.5	19.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Beta activity	-1.07	pCi/g	0.436	U	2.78	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Bromoform	0.23	ug/kg		U	0.23	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Cadmium	0.079	mg/kg		B	0.038	17.5	19.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Calcium	150	mg/kg			13	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Carbazole	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Cesium-137	0.0302	pCi/g	0.0397	U	0.128	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Chloroethane	0.89	ug/kg		U	0.89	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Chloroform	0.29	ug/kg		U	0.29	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Chloromethane	0.77	ug/kg		U	0.77	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Chromium	15	mg/kg			0.054	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Chrysene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Cobalt	3.3	mg/kg			0.093	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Copper	8.5	mg/kg			0.2	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Dibenzofuran	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Dibromomethane	0.84	ug/kg		U	0.84	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Fluoranthene	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Fluorene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Hexachloroethane	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Iron	22000	mg/kg			3.5	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Isophorone	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Lead	9.1	mg/kg			0.25	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	M + P Xylene	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Magnesium	870	mg/kg			3.4	17.5	19.5	SOIL	REG	SPS	=	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-18	WDSB18-03-19.5	METAL	Manganese	47	mg/kg			0.093	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Mercury	0.0048	mg/kg		U	0.0048	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Methylene chloride	1.2	ug/kg		J	0.75	17.5	19.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Molybdenum	2.8	mg/kg			0.24	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Naphthalene	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Neptunium-237	0.00607	pCi/g	0.00607	U	0.029	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Nickel	7	mg/kg			0.11	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Nitrobenzene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Phenanthrene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Phenol	36	ug/kg		J	18	17.5	19.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Plutonium-238	0	pCi/g	0.00447	U	0.0302	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Plutonium-239/240	0.0158	pCi/g	0.0105	U	0.0454	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-19.5	SVOA	Pyridine	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Selenium	0.12	mg/kg		U	0.12	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Silver	0.15	mg/kg		U	0.15	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Sodium	140	mg/kg		B	55	17.5	19.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Styrene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Technetium-99	0.0547	pCi/g	0.163	U	0.546	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Thallium	0.17	mg/kg			0.0031	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Thorium-228	0.907	pCi/g	0.0522	J	0.0472	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Thorium-230	1.2	pCi/g	0.0589	J	0.0351	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Thorium-232	0.83	pCi/g	0.0493	J	0.0461	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Toluene	0.69	ug/kg		U	0.69	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Total Xylene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Uranium	0.53	mg/kg			0.0014	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Uranium-233/234	0.801	pCi/g	0.0417	J	0.0166	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Uranium-235	0.0294	pCi/g	0.00962	U	0.0256	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Uranium-236	0.00479	pCi/g	0.00415	U	0.0183	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-19.5	RADS	Uranium-238	0.72	pCi/g	0.0394	J	0.0165	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Vanadium	30	mg/kg			0.087	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	17.5	19.5	SOIL	REG	SPS	UJ	8/16/2011
WD-SB-18	WDSB18-01-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-19.5	METAL	Zinc	23	mg/kg			0.37	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	1,1,2-Trichloroethane	0.78	ug/kg		U	0.78	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	1,2,3-Trichloropropane	0.72	ug/kg		U	0.72	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	1,2-Dichloroethane	0.62	ug/kg		U	0.62	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	22.5	24.5	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-18	WDSB18-02-24.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2-Methylphenol	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	4-Methylphenol	32	ug/kg		U	32	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	4-Nitrophenol	93	ug/kg		U	93	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Acenaphthylene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Acetone	5.3	ug/kg		J	4.8	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Acrolein	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Alpha activity	3.72	pCi/g	0.661	J	2.6	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Aluminum	4000	mg/kg			1.4	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Americium-241	0.0167	pCi/g	0.00925	U	0.0386	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Aniline	120	ug/kg		U	120	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Anthracene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Antimony	0.34	mg/kg		U	0.34	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Arsenic	2.6	mg/kg			0.046	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Barium	26	mg/kg			0.067	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Benzaldehyde	64	ug/kg		U	64	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Benzene	0.42	ug/kg		U	0.42	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Benzenemethanol	26	ug/kg		J	9.6	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Benzoic acid	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Beryllium	0.25	mg/kg		B	0.029	22.5	24.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Beta activity	-0.404	pCi/g	0.45	U	2.62	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Bromoform	0.2	ug/kg		U	0.2	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Cadmium	0.037	mg/kg		B	0.036	22.5	24.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Calcium	270	mg/kg			12	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Carbazole	34	ug/kg		U	34	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Cesium-137	0.0227	pCi/g	0.0523	U	0.159	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Chloroethane	0.79	ug/kg		U	0.79	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Chloroform	0.26	ug/kg		U	0.26	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Chloromethane	0.68	ug/kg		U	0.68	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Chromium	11	mg/kg			0.051	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Chrysene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	cis-1,2-Dichloroethene	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Cobalt	1.7	mg/kg			0.088	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Copper	5.4	mg/kg			0.19	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Dibenzofuran	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Dibromomethane	0.74	ug/kg		U	0.74	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Fluoranthene	34	ug/kg		U	34	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Fluorene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	22.5	24.5	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-18	WDSB18-02-24.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Hexachloroethane	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Iodomethane	0.39	ug/kg		U	0.39	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Iron	5900	mg/kg			3.4	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Isophorone	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Lead	4.9	mg/kg			0.24	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	M + P Xylene	0.92	ug/kg		U	0.92	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Magnesium	510	mg/kg			3.3	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Manganese	15	mg/kg			0.088	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Mercury	0.0052	mg/kg		U	0.0052	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Methylene chloride	1.1	ug/kg		J	0.66	22.5	24.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Molybdenum	2.8	mg/kg			0.23	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Naphthalene	30	ug/kg		U	30	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Neptunium-237	0.00521	pCi/g	0.00451	U	0.0199	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Nickel	6.3	mg/kg			0.11	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Nitrobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	PPCB	PCB-1242	0.0086	mg/kg		U	0.0086	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Phenanthrene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Phenol	29	ug/kg		J	17	22.5	24.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Plutonium-238	0	pCi/g	0.00364	U	0.0197	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Plutonium-239/240	0.0206	pCi/g	0.00772	U	0.0197	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-02-24.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Pyrene	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-02-24.5	SVOA	Pyridine	120	ug/kg		U	120	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Selenium	0.12	mg/kg		U	0.12	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Silver	0.14	mg/kg		U	0.14	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Sodium	170	mg/kg		B	52	22.5	24.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Styrene	0.56	ug/kg		U	0.56	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Technetium-99	-0.0392	pCi/g	0.155	U	0.523	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Thallium	0.18	mg/kg			0.0032	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Thorium-228	1.01	pCi/g	0.0582	J	0.0617	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Thorium-230	1.46	pCi/g	0.0679	J	0.0301	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Thorium-232	1.01	pCi/g	0.0568	J	0.0387	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Toluene	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Total Xylene	0.54	ug/kg		U	0.54	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Trichlorofluoromethane	0.92	ug/kg		U	0.92	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Uranium	0.57	mg/kg			0.0014	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Uranium-233/234	0.73	pCi/g	0.0396	J	0.0164	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Uranium-235	0.0317	pCi/g	0.00952	J	0.0202	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Uranium-236	0.0166	pCi/g	0.00671	U	0.0181	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-04-24.5	RADS	Uranium-238	0.861	pCi/g	0.043	J	0.0204	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Vanadium	20	mg/kg			0.083	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Vinyl acetate	0.95	ug/kg		U	0.95	22.5	24.5	SOIL	REG	SPS	UJ	8/16/2011
WD-SB-18	WDSB18-01-24.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-18	WDSB18-03-24.5	METAL	Zinc	22	mg/kg			0.35	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-19	WDSB19-06-2.0	VOA	1,1,1,2-Tetrachloroethane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	1,1,2-Trichloroethane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	1,2,3-Trichloropropane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	1,2-Dichloroethane	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	1,2-Dichloropropane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	2-Hexanone	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Acetone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Acrolein	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Benzene	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	8/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-19	WDSB19-06-2.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Bromoform	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Bromomethane	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Carbon tetrachloride	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-09-2.0	GTEC	Cation Exchange Capacity	0.115	meq/g			0.00176	0	2	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Chloroethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Chloroform	0.25	ug/kg		U	0.25	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Chloromethane	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	cis-1,2-Dichloroethene	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Dibromochloromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Dibromomethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-07-2.0	WETCHEM	Distribution coefficient, Kd, Tc-99	4.47	mL/g				0	2	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-07-2.0	WETCHEM	Distribution coefficient, Kd, Uranium	-7.93	mL/g				0	2	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Iodomethane	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	M + P Xylene	0.9	ug/kg		U	0.9	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Methylene chloride	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Styrene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Toluene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	WETCHEM	Total Organic Carbon (TOC)	2.3	g/kg		B	1.7	0	2	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Total Xylene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Trichloroethene	0.64	ug/kg		J	0.2	0	2	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Trichlorofluoromethane	0.9	ug/kg		U	0.9	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Vinyl acetate	0.92	ug/kg		U	0.92	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19RAD-0.5	RADS	Technetium-99	0.129	pCi/g	0.0661	U	0.217	0.4	0.8	SOIL	REG	AUG	U	5/5/2011
WD-SB-19	WDSB19RAD-0.5	METAL	Total Uranium	2.71	ug/g	0		0.0198	0.4	0.8	SOIL	REG	AUG	=	5/5/2011
WD-SB-19	WDSB19RAD-0.5	RADS	Uranium-233/234	0.889	pCi/g	0.0255		0.007	0.4	0.8	SOIL	REG	AUG	=	5/5/2011
WD-SB-19	WDSB19RAD-0.5	RADS	Uranium-235	0.0487	pCi/g	0.00669	J	0.0069	0.4	0.8	SOIL	REG	AUG	J	5/5/2011
WD-SB-19	WDSB19RAD-0.5	RADS	Uranium-236	0.00971	pCi/g	0.00292	J	0.00619	0.4	0.8	SOIL	REG	AUG	U	5/5/2011
WD-SB-19	WDSB19RAD-0.5	RADS	Uranium-238	0.904	pCi/g	0.0257		0.00557	0.4	0.8	SOIL	REG	AUG	=	5/5/2011
WD-SB-19	WDSB19RAD-2.0	RADS	Technetium-99	-0.0133	pCi/g	0.062	U	0.209	1.833333333	2.25	SOIL	REG	AUG	U	5/5/2011
WD-SB-19	WDSB19RAD-2.0	METAL	Total Uranium	1.79	ug/g	0		0.0185	1.833333333	2.25	SOIL	REG	AUG	=	5/5/2011
WD-SB-19	WDSB19RAD-2.0	RADS	Uranium-233/234	0.519	pCi/g	0.0153		0.00556	1.833333333	2.25	SOIL	REG	AUG	=	5/5/2011
WD-SB-19	WDSB19RAD-2.0	RADS	Uranium-235	0.0284	pCi/g	0.00402	J	0.00427	1.833333333	2.25	SOIL	REG	AUG	J	5/5/2011
WD-SB-19	WDSB19RAD-2.0	RADS	Uranium-236	0.00451	pCi/g	0.00158	U	0.00383	1.833333333	2.25	SOIL	REG	AUG	U	5/5/2011
WD-SB-19	WDSB19RAD-2.0	RADS	Uranium-238	0.596	pCi/g	0.0164		0.00554	1.833333333	2.25	SOIL	REG	AUG	=	5/5/2011
WD-SB-19	WDSB19-06-4.5	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	1,1,2-Trichloroethane	0.78	ug/kg		U	0.78	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	1,1-Dichloroethene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	1,2,3-Trichloropropane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	1,2-Dichloroethane	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	2-Hexanone	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Acetone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Acrolein	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Benzene	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Bromomethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-09-4.5	GTEC	Cation Exchange Capacity	0.159	meq/g			0.00179	2.5	4.5	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Chloroethane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Chloroform	0.26	ug/kg		U	0.26	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Chloromethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	cis-1,2-Dichloroethene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Dibromochloromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Dibromomethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	8/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-19	WDSB19-07-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	3.98	mL/g				2.5	4.5	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-07-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	417	mL/g				2.5	4.5	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Ethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Iodomethane	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	M + P Xylene	0.93	ug/kg		U	0.93	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Methylene chloride	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Styrene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Tetrachloroethene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Toluene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	WETCHEM	Total Organic Carbon (TOC)	1.9	g/kg		B	1.7	2.5	4.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Total Xylene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	trans-1,3-Dichloropropene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Trichlorofluoromethane	0.93	ug/kg		U	0.93	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Vinyl acetate	0.95	ug/kg		U	0.95	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2,4,5-Trichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2,4,6-Trichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2,4-Dichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2-Chloronaphthalene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	2-Nitrophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	3,3'-Dichlorobenzidine	90	ug/kg		U	90	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	4-Chlorobenzenamine	82	ug/kg		U	82	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	4-Nitrophenol	97	ug/kg		U	97	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Acetone	5	ug/kg		U	5	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Aluminum	7200	mg/kg			1.6	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Antimony	0.38	mg/kg		U	0.38	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Arsenic	12	mg/kg			0.046	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Barium	71	mg/kg			0.076	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Benzaldehyde	67	ug/kg		U	67	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Benzene	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Benzenemethanol	23	ug/kg		J	10	10	12	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	8/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-19	WDSB19-02-12.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Beryllium	0.67	mg/kg			0.033	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Bis(2-chloroethyl) ether	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	100	ug/kg		BJ	46	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Cadmium	0.24	mg/kg		B	0.041	10	12	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Calcium	560	mg/kg			14	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-09-12.0	GTEC	Cation Exchange Capacity	0.0875	meq/g			0.00177	10	12	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Chloroform	0.27	ug/kg		U	0.27	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Chromium	10	mg/kg			0.058	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Cobalt	110	mg/kg			0.1	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Copper	12	mg/kg			0.22	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Dibromomethane	0.78	ug/kg		U	0.78	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-07-12.0	WETCHEM	Distribution coefficient, Kd, Tc-99	4.01	mL/g				10	12	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-07-12.0	WETCHEM	Distribution coefficient, Kd, Uranium	-13.3	mL/g				10	12	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Hexachlorobutadiene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Iron	16000	mg/kg			3.8	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Lead	23	mg/kg			0.27	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Magnesium	1100	mg/kg			3.7	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Manganese	460	mg/kg			0.1	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Mercury	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Methylene chloride	0.7	ug/kg		U	0.7	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Molybdenum	7.6	mg/kg			0.26	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Nickel	27	mg/kg			0.12	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Phenol	35	ug/kg		J	18	10	12	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Pyrene	15	ug/kg		BJ	12	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Selenium	0.13	mg/kg		B	0.12	10	12	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Silver	0.16	mg/kg		U	0.16	10	12	SOIL	REG	SPS	U	8/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-19	WDSB19-03-12.0	METAL	Sodium	120	mg/kg		B	59	10	12	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Styrene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Thallium	0.41	mg/kg			0.0032	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Toluene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	WETCHEM	Total Organic Carbon (TOC)	2.1	g/kg		B	1.7	10	12	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Trichloroethene	0.65	ug/kg		J	0.21	10	12	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Uranium	1.6	mg/kg			0.0014	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Vanadium	7.6	mg/kg			0.094	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-12.0	METAL	Zinc	57	mg/kg			0.4	10	12	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	2-Hexanone	4.5	ug/kg		U	4.5	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	4-Methylphenol	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	4-Nitrophenol	92	ug/kg		U	92	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Acetone	4.9	ug/kg		U	4.9	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Acrolein	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Aluminum	6300	mg/kg			1.5	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Aniline	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Antimony	0.37	mg/kg		U	0.37	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Arsenic	14	mg/kg			0.047	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Barium	55	mg/kg			0.073	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Benzaldehyde	64	ug/kg		U	64	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Benzene	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Benzenemethanol	15	ug/kg		J	9.5	17.5	19.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Benzoic acid	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	8/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-19	WDSB19-03-19.5	METAL	Beryllium	0.66	mg/kg			0.032	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	98	ug/kg		BJ	44	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Bromoform	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Bromomethane	0.46	ug/kg		U	0.46	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Cadmium	0.5	mg/kg			0.039	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Calcium	510	mg/kg			14	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Carbazole	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-09-19.5	GTEC	Cation Exchange Capacity	0.0841	meq/g			0.00177	17.5	19.5	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Chloroethane	0.81	ug/kg		U	0.81	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Chloroform	0.26	ug/kg		U	0.26	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Chloromethane	0.7	ug/kg		U	0.7	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Chromium	11	mg/kg			0.056	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Chrysene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Cobalt	12	mg/kg			0.096	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Copper	14	mg/kg			0.21	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Dibenzofuran	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Dibromomethane	0.77	ug/kg		U	0.77	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-07-19.5	WETCHEM	Distribution coefficient, Kd, Tc-99	3.56	mL/g				17.5	19.5	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-07-19.5	WETCHEM	Distribution coefficient, Kd, Uranium	-9.32	mL/g				17.5	19.5	SOIL	REG	SPS		8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Fluoranthene	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Hexachloroethane	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Iodomethane	0.4	ug/kg		U	0.4	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Iron	24000	mg/kg			3.7	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Lead	11	mg/kg			0.26	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	M + P Xylene	0.95	ug/kg		U	0.95	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Magnesium	940	mg/kg			3.6	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Manganese	250	mg/kg			0.096	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Mercury	0.022	mg/kg			0.0053	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Methylene chloride	0.68	ug/kg		U	0.68	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Molybdenum	7.3	mg/kg			0.25	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Naphthalene	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Nickel	32	mg/kg			0.12	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Nitrobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Phenol	20	ug/kg		J	17	17.5	19.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Selenium	0.14	mg/kg		B	0.12	17.5	19.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Silver	0.15	mg/kg		U	0.15	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Sodium	100	mg/kg		B	57	17.5	19.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Styrene	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS	U	8/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-19	WDSB19-06-19.5	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Thallium	0.46	mg/kg			0.0033	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Toluene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	WETCHEM	Total Organic Carbon (TOC)	1.7	g/kg		U	1.7	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Total Xylene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Trichloroethene	0.68	ug/kg		J	0.21	17.5	19.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Trichlorofluoromethane	0.95	ug/kg		U	0.95	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Uranium	2.3	mg/kg			0.0015	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Vanadium	20	mg/kg			0.09	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Vinyl acetate	0.98	ug/kg		U	0.98	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-19.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-03-19.5	METAL	Zinc	79	mg/kg			0.38	17.5	19.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	1,2-Dichloroethane	0.62	ug/kg		U	0.62	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Acetone	4.7	ug/kg		U	4.7	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Acrolein	18	ug/kg		U	18	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Benzene	0.41	ug/kg		U	0.41	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Bromoform	0.2	ug/kg		U	0.2	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Chloroethane	0.78	ug/kg		U	0.78	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Chloroform	0.26	ug/kg		U	0.26	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Chloromethane	0.68	ug/kg		U	0.68	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Dibromomethane	0.74	ug/kg		U	0.74	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Iodomethane	0.39	ug/kg		U	0.39	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	M + P Xylene	0.92	ug/kg		U	0.92	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Methylene chloride	0.66	ug/kg		U	0.66	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Styrene	0.55	ug/kg		U	0.55	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Toluene	0.61	ug/kg		U	0.61	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	WETCHEM	Total Organic Carbon (TOC)	2.2	g/kg		B	1.7	22.5	23.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Total Xylene	0.54	ug/kg		U	0.54	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Trichlorofluoromethane	0.92	ug/kg		U	0.92	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Vinyl acetate	0.94	ug/kg		U	0.94	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-19	WDSB19-06-24.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	22.5	23.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-20	WDSB20RAD-0.5	RADS	Technetium-99	0.00839	pCi/g	0.0654	U	0.219	0.4	0.8	SOIL	REG	AUG	U	5/5/2011
WD-SB-20	WDSB20RAD-0.5	METAL	Total Uranium	3.41	ug/g	0		0.0284	0.4	0.8	SOIL	REG	AUG	=	5/5/2011
WD-SB-20	WDSB20RAD-0.5	RADS	Uranium-233/234	1.05	pCi/g	0.0302		0.014	0.4	0.8	SOIL	REG	AUG	=	5/5/2011
WD-SB-20	WDSB20RAD-0.5	RADS	Uranium-235	0.0534	pCi/g	0.00762	J	0.00817	0.4	0.8	SOIL	REG	AUG	J	5/5/2011
WD-SB-20	WDSB20RAD-0.5	RADS	Uranium-236	0.00575	pCi/g	0.00254	U	0.00733	0.4	0.8	SOIL	REG	AUG	U	5/5/2011
WD-SB-20	WDSB20RAD-0.5	RADS	Uranium-238	1.14	pCi/g	0.0313		0.00825	0.4	0.8	SOIL	REG	AUG	=	5/5/2011
WD-SB-20	WDSB20-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	1.5	2	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-20	WDSB20-01-2.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	2-Butanone	8.2	ug/kg		J	1.7	1.5	2	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Acetone	29	ug/kg			5	1.5	2	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Acrolein	19	ug/kg		U	19	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Bromoform	0.21	ug/kg		U	0.21	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Dibromomethane	0.78	ug/kg		U	0.78	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Methylene chloride	0.7	ug/kg		U	0.7	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Styrene	0.59	ug/kg		U	0.59	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Toluene	0.64	ug/kg		U	0.64	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	1.5	2	SOIL	REG	SPS	UJ	8/16/2011
WD-SB-20	WDSB20-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	1.5	2	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20RAD-2.0	RADS	Technetium-99	-0.0285	pCi/g	0.064	U	0.216	1.916666667	2.166666667	SOIL	REG	AUG	U	5/5/2011
WD-SB-20	WDSB20RAD-2.0	METAL	Total Uranium	3.48	ug/g	0		0.0434	1.916666667	2.166666667	SOIL	REG	AUG	=	5/5/2011
WD-SB-20	WDSB20RAD-2.0	RADS	Uranium-233/234	1.08	pCi/g	0.0316		0.00704	1.916666667	2.166666667	SOIL	REG	AUG	=	5/5/2011
WD-SB-20	WDSB20RAD-2.0	RADS	Uranium-235	0.0522	pCi/g	0.00778	J	0.00869	1.916666667	2.166666667	SOIL	REG	AUG	J	5/5/2011
WD-SB-20	WDSB20RAD-2.0	RADS	Uranium-236	0.00408	pCi/g	0.00288	U	0.0125	1.916666667	2.166666667	SOIL	REG	AUG	U	5/5/2011
WD-SB-20	WDSB20RAD-2.0	RADS	Uranium-238	1.16	pCi/g	0.0327		0.0132	1.916666667	2.166666667	SOIL	REG	AUG	=	5/5/2011
WD-SB-20	WDSB20-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	1,1,2-Trichloroethane	0.78	ug/kg		U	0.78	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	1,2,3-Trichloropropane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	1,2-Dichloroethane	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-20	WDSB20-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	4-Nitrophenol	93	ug/kg		U	93	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Acetone	14	ug/kg		J	4.8	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Acrolein	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Alpha activity	5.69	pCi/g	0.913		3.38	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Aluminum	15000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Americium-241	0.00621	pCi/g	0.00802	U	0.0395	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Arsenic	12	mg/kg			0.046	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Barium	100	mg/kg			0.072	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Benzaldehyde	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Benzene	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Benzenemethanol	16	ug/kg		J	9.6	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Beryllium	0.9	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Beta activity	1.8	pCi/g	0.623	U	2.93	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Cadmium	0.12	mg/kg		B	0.039	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Calcium	15000	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Carbazole	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Cesium-137	0.175	pCi/g	0.056	U	0.212	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Chloroethane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Chloroform	0.26	ug/kg		U	0.26	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Chloromethane	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Chromium	20	mg/kg			0.055	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	cis-1,2-Dichloroethene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Cobalt	7.8	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Copper	20	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Dibromochloromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Dibromomethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Fluoranthene	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Iodomethane	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Iron	26000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Lead	10	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS	=	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-20	WDSB20-01-4.5	VOA	M + P Xylene	0.92	ug/kg		U	0.92	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Magnesium	7900	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Manganese	240	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Mercury	0.012	mg/kg		B	0.0053	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Methylene chloride	0.97	ug/kg		J	0.67	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Molybdenum	1.4	mg/kg		B	0.25	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Neptunium-237	0.00289	pCi/g	0.00409	U	0.0221	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Nickel	28	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Phenol	30	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Plutonium-238	-0.00234	pCi/g	-0.00406	U	0.0288	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Plutonium-239/240	0.014	pCi/g	0.00619	U	0.0179	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Selenium	0.12	mg/kg		U	0.12	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Sodium	380	mg/kg		B	56	2.5	4.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Styrene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Technetium-99	0.224	pCi/g	0.153	U	0.507	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Thallium	0.26	mg/kg			0.0032	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Thorium-228	0.912	pCi/g	0.0712	J	0.105	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Thorium-230	1.11	pCi/g	0.0747	J	0.0384	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Thorium-232	0.868	pCi/g	0.0662	J	0.0384	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Toluene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Total Xylene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Trichlorofluoromethane	0.92	ug/kg		U	0.92	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Uranium	1.2	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Uranium-233/234	0.565	pCi/g	0.035	J	0.0206	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Uranium-235	0.0239	pCi/g	0.00838	U	0.0203	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Uranium-236	0.00476	pCi/g	0.00412	U	0.0182	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-4.5	RADS	Uranium-238	0.637	pCi/g	0.0372	J	0.0263	2.5	4.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Vanadium	24	mg/kg			0.089	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Vinyl acetate	0.95	ug/kg		U	0.95	2.5	4.5	SOIL	REG	SPS	UJ	8/16/2011
WD-SB-20	WDSB20-01-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-4.5	METAL	Zinc	59	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	10.8	12	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-20	WDSB20-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	2-Hexanone	4.5	ug/kg		U	4.5	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	4-Methylphenol	32	ug/kg		U	32	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	4-Nitrophenol	93	ug/kg		U	93	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Acetone	4.9	ug/kg		U	4.9	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Acrolein	18	ug/kg		U	18	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Alpha activity	6.24	pCi/g	0.841		2.83	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Aluminum	13000	mg/kg			1.4	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Americium-241	0.0169	pCi/g	0.00889	U	0.0346	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Antimony	0.34	mg/kg		U	0.34	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Arsenic	6.9	mg/kg			0.048	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Barium	27	mg/kg			0.067	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Benzaldehyde	64	ug/kg		U	64	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Benzene	0.43	ug/kg		U	0.43	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Benzenemethanol	14	ug/kg		J	9.6	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Benzoic acid	320	ug/kg		U	320	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Beryllium	0.89	mg/kg			0.029	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Beta activity	2.07	pCi/g	0.591	U	2.67	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Bromomethane	0.46	ug/kg		U	0.46	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Cadmium	0.11	mg/kg		B	0.036	10.8	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Calcium	2100	mg/kg			12	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Carbazole	35	ug/kg		U	35	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Cesium-137	-0.023	pCi/g	0.0508	U	0.139	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Chloroethane	0.81	ug/kg		U	0.81	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Chloroform	0.26	ug/kg		U	0.26	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Chloromethane	0.7	ug/kg		U	0.7	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Chromium	18	mg/kg			0.051	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Cobalt	9.4	mg/kg			0.088	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Copper	17	mg/kg			0.19	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Dibromomethane	0.77	ug/kg		U	0.77	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Fluoranthene	35	ug/kg		U	35	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10.8	12	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-20	WDSB20-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Iodomethane	0.4	ug/kg		U	0.4	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Iron	22000	mg/kg			3.4	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Lead	14	mg/kg			0.24	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	M + P Xylene	0.95	ug/kg		U	0.95	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Magnesium	3800	mg/kg			3.3	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Manganese	200	mg/kg			0.088	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Mercury	0.02	mg/kg			0.005	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Methylene chloride	1.2	ug/kg		J	0.69	10.8	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Molybdenum	1.1	mg/kg		B	0.23	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Neptunium-237	0	pCi/g	0.00379	U	0.0256	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Nickel	25	mg/kg			0.11	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Phenol	27	ug/kg		J	17	10.8	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Plutonium-238	0	pCi/g	0.00879	U	0.0516	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Plutonium-239/240	0.0251	pCi/g	0.0101	U	0.0274	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Selenium	0.13	mg/kg		U	0.13	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Sodium	190	mg/kg		B	52	10.8	12	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Styrene	0.58	ug/kg		U	0.58	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Technetium-99	0.0183	pCi/g	0.163	U	0.548	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Thallium	0.24	mg/kg			0.0033	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Thorium-228	1.09	pCi/g	0.0637	J	0.0524	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Thorium-230	0.796	pCi/g	0.0533	J	0.0272	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Thorium-232	1.06	pCi/g	0.0616	J	0.0436	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Toluene	0.63	ug/kg		U	0.63	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Total Xylene	0.56	ug/kg		U	0.56	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Trichlorofluoromethane	0.95	ug/kg		U	0.95	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Uranium	0.71	mg/kg			0.0015	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Uranium-233/234	0.821	pCi/g	0.0458	J	0.0194	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Uranium-235	0.0658	pCi/g	0.0147	J	0.024	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Uranium-236	0.00282	pCi/g	0.00488	U	0.027	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-12.0	RADS	Uranium-238	0.967	pCi/g	0.0496	J	0.0242	10.8	12	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Vanadium	23	mg/kg			0.083	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Vinyl acetate	0.98	ug/kg		U	0.98	10.8	12	SOIL	REG	SPS	UJ	8/16/2011
WD-SB-20	WDSB20-01-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10.8	12	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-12.0	METAL	Zinc	58	mg/kg			0.35	10.8	12	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	1,1,2-Trichloroethane	0.81	ug/kg		U	0.81	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2,4,5-Trichlorophenol	9.4	ug/kg		U	9.4	17.5	19.5	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-20	WDSB20-02-19.5	SVOA	2,4,6-Trichlorophenol	9.4	ug/kg		U	9.4	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2,4-Dichlorophenol	9.4	ug/kg		U	9.4	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2-Chloronaphthalene	9.4	ug/kg		U	9.4	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	2-Hexanone	4.5	ug/kg		U	4.5	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	2-Nitrophenol	9.4	ug/kg		U	9.4	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	4-Methylphenol	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	4-Nitrophenol	91	ug/kg		U	91	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Acetone	8	ug/kg		J	5	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Acrolein	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Alpha activity	6.55	pCi/g	0.856		2.8	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Aluminum	13000	mg/kg			1.5	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Americium-241	0.0192	pCi/g	0.0106	U	0.0443	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Aniline	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Antimony	0.36	mg/kg		U	0.36	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Arsenic	7.3	mg/kg			0.051	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Barium	110	mg/kg			0.072	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Benzaldehyde	63	ug/kg		U	63	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Benzene	0.43	ug/kg		U	0.43	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Benzenemethanol	18	ug/kg		J	9.4	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Benzoic acid	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Beryllium	0.8	mg/kg			0.031	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Beta activity	1.8	pCi/g	0.572	U	2.64	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	320	ug/kg			43	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Bromoform	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Bromomethane	0.46	ug/kg		U	0.46	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Cadmium	0.35	mg/kg		B	0.039	17.5	19.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Calcium	1700	mg/kg			13	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Carbazole	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Cesium-137	0.00387	pCi/g	0.0573	U	0.166	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Chloroethane	0.82	ug/kg		U	0.82	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Chloroform	0.27	ug/kg		U	0.27	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Chloromethane	0.71	ug/kg		U	0.71	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Chromium	17	mg/kg			0.055	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Chrysene	25	ug/kg		U	25	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Cobalt	28	mg/kg			0.094	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Copper	17	mg/kg			0.2	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Dibenzofuran	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Dibromomethane	0.78	ug/kg		U	0.78	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	17.5	19.5	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-20	WDSB20-02-19.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Fluoranthene	34	ug/kg		U	34	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Hexachlorobutadiene	9.4	ug/kg		U	9.4	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Hexachloroethane	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Iodomethane	0.41	ug/kg		U	0.41	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Iron	19000	mg/kg			3.6	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Lead	18	mg/kg			0.25	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	M + P Xylene	0.96	ug/kg		U	0.96	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Magnesium	3600	mg/kg			3.5	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Manganese	1200	mg/kg			0.094	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Mercury	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Methylene chloride	1.4	ug/kg		J	0.69	17.5	19.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Molybdenum	2	mg/kg			0.25	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Naphthalene	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Neptunium-237	0	pCi/g	0.00372	U	0.0201	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Nickel	34	mg/kg			0.12	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Nitrobenzene	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Phenanthrene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Phenol	33	ug/kg		J	17	17.5	19.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Plutonium-238	0	pCi/g	0.00806	U	0.0473	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Plutonium-239/240	0.023	pCi/g	0.0093	U	0.0252	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Pyrene	11	ug/kg		U	11	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Selenium	0.16	mg/kg		B	0.13	17.5	19.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Silver	0.15	mg/kg		U	0.15	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Sodium	120	mg/kg		B	56	17.5	19.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Styrene	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Technetium-99	-0.0499	pCi/g	0.161	U	0.544	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Thallium	0.34	mg/kg			0.0035	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Thorium-228	1.29	pCi/g	0.0732	J	0.0504	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Thorium-230	1.18	pCi/g	0.0699	J	0.0764	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Thorium-232	1.13	pCi/g	0.0691	J	0.0907	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Toluene	0.64	ug/kg		U	0.64	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Total Xylene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Trichlorofluoromethane	0.96	ug/kg		U	0.96	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Uranium	0.61	mg/kg			0.0016	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Uranium-233/234	0.904	pCi/g	0.0489	J	0.0202	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Uranium-235	0.0358	pCi/g	0.0113	U	0.0249	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Uranium-236	0.00876	pCi/g	0.00653	U	0.0279	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-19.5	RADS	Uranium-238	1.02	pCi/g	0.0517	J	0.0251	17.5	19.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Vanadium	0.89	mg/kg		U	0.89	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Vinyl acetate	0.99	ug/kg		U	0.99	17.5	19.5	SOIL	REG	SPS	UJ	8/16/2011
WD-SB-20	WDSB20-01-19.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-19.5	METAL	Zinc	62	mg/kg			0.38	17.5	19.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	22.5	24.5	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-20	WDSB20-02-24.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2,4,5-Trichlorophenol	9.4	ug/kg		U	9.4	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2,4,6-Trichlorophenol	9.4	ug/kg		U	9.4	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2,4-Dichlorophenol	9.4	ug/kg		U	9.4	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2-Chloronaphthalene	9.4	ug/kg		U	9.4	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2-Methylphenol	12	ug/kg		U	12	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	2-Nitrophenol	9.4	ug/kg		U	9.4	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	4-Methylphenol	31	ug/kg		U	31	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	4-Nitrophenol	91	ug/kg		U	91	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Acenaphthylene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Acetone	5	ug/kg		J	4.7	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Acrolein	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Alpha activity	6.22	pCi/g	0.878		2.99	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Aluminum	4800	mg/kg			1.5	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Americium-241	0	pCi/g	0.00995	U	0.0537	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Aniline	120	ug/kg		U	120	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Anthracene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Antimony	0.37	mg/kg		U	0.37	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Arsenic	8.7	mg/kg			0.044	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Barium	33	mg/kg			0.074	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Benzaldehyde	63	ug/kg		U	63	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Benzene	0.41	ug/kg		U	0.41	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Benzenemethanol	15	ug/kg		J	9.4	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Benzoic acid	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Beryllium	0.31	mg/kg		B	0.032	22.5	24.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Beta activity	-0.771	pCi/g	0.497	U	2.89	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Bis(2-ethylhexyl)phthalate	43	ug/kg		U	43	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Bromoform	0.2	ug/kg		U	0.2	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Cadmium	0.13	mg/kg		B	0.04	22.5	24.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Calcium	3400	mg/kg			14	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Carbazole	34	ug/kg		U	34	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Cesium-137	-0.0341	pCi/g	0.0489	U	0.131	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Chloroethane	0.78	ug/kg		U	0.78	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Chloroform	0.25	ug/kg		U	0.25	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Chloromethane	0.68	ug/kg		U	0.68	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Chromium	7.4	mg/kg			0.056	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Chrysene	25	ug/kg		U	25	22.5	24.5	SOIL	REG	SPS	U	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-20	WDSB20-01-24.5	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Cobalt	5	mg/kg			0.097	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Copper	6.5	mg/kg			0.21	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Dibenzofuran	19	ug/kg		U	19	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Dibromomethane	0.74	ug/kg		U	0.74	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Fluoranthene	34	ug/kg		U	34	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Fluorene	17	ug/kg		U	17	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Hexachlorobutadiene	9.4	ug/kg		U	9.4	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Hexachloroethane	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Iodomethane	0.39	ug/kg		U	0.39	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Iron	13000	mg/kg			3.7	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Isophorone	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Lead	6.5	mg/kg			0.26	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	M + P Xylene	0.91	ug/kg		U	0.91	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Magnesium	2700	mg/kg			3.6	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Manganese	250	mg/kg			0.097	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Mercury	0.0048	mg/kg		U	0.0048	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Methylene chloride	2.2	ug/kg		J	0.66	22.5	24.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Molybdenum	4.2	mg/kg			0.25	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Naphthalene	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Neptunium-237	0	pCi/g	0.00331	U	0.0179	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Nickel	8.6	mg/kg			0.12	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Nitrobenzene	21	ug/kg		U	21	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Phenanthrene	16	ug/kg		U	16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Phenol	27	ug/kg		J	17	22.5	24.5	SOIL	REG	SPS	J	8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Plutonium-238	-0.00525	pCi/g	-0.00454	U	0.0323	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Plutonium-239/240	0.0236	pCi/g	0.00829	U	0.0201	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-02-24.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Pyrene	11	ug/kg		U	11	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-02-24.5	SVOA	Pyridine	120	ug/kg		U	120	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Selenium	0.12	mg/kg		U	0.12	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Silver	0.16	mg/kg		U	0.16	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Sodium	57	mg/kg		U	57	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Styrene	0.55	ug/kg		U	0.55	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Technetium-99	0.0245	pCi/g	0.16	U	0.535	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Thallium	0.12	mg/kg			0.0031	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Thorium-228	1.03	pCi/g	0.0525	J	0.0526	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Thorium-230	1.22	pCi/g	0.0559	J	0.0445	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Thorium-232	0.967	pCi/g	0.0493	J	0.0192	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Toluene	0.61	ug/kg		U	0.61	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Total Xylene	0.53	ug/kg		U	0.53	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Trichlorofluoromethane	0.91	ug/kg		U	0.91	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Uranium	0.5	mg/kg			0.0014	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Uranium-233/234	1.09	pCi/g	0.0504	J	0.0178	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Uranium-235	0.0573	pCi/g	0.014	J	0.0352	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Uranium-236	0.0154	pCi/g	0.0068	U	0.0197	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-04-24.5	RADS	Uranium-238	1.09	pCi/g	0.0503	J	0.0177	22.5	24.5	SOIL	REG	SPS		8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Vanadium	9	mg/kg			0.091	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-20	WDSB20-01-24.5	VOA	Vinyl acetate	0.94	ug/kg		U	0.94	22.5	24.5	SOIL	REG	SPS	UJ	8/16/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-20	WDSB20-01-24.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	22.5	24.5	SOIL	REG	SPS	U	8/16/2011
WD-SB-20	WDSB20-03-24.5	METAL	Zinc	33	mg/kg			0.39	22.5	24.5	SOIL	REG	SPS	=	8/16/2011
WD-SB-21	WDSB21RAD-0.5FR	RADS	Technetium-99	0.167	pCi/g	0.0639	U	0.208	0.4	0.8	SOIL	FR	AUG	U	5/5/2011
WD-SB-21	WDSB21RAD-0.5	RADS	Technetium-99	0.146	pCi/g	0.0657	U	0.215	0.4	0.8	SOIL	REG	AUG	U	5/5/2011
WD-SB-21	WDSB21RAD-0.5FR	METAL	Total Uranium	4.2	ug/g	0		0.0227	0.4	0.8	SOIL	FR	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-0.5	METAL	Total Uranium	4.04	ug/g	0		0.0336	0.4	0.8	SOIL	REG	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-0.5FR	RADS	Uranium-233/234	2.59	pCi/g	0.0456		0.00614	0.4	0.8	SOIL	FR	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-0.5	RADS	Uranium-233/234	2.87	pCi/g	0.0544		0.0209	0.4	0.8	SOIL	REG	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-0.5FR	RADS	Uranium-235	0.135	pCi/g	0.0116		0.00948	0.4	0.8	SOIL	FR	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-0.5	RADS	Uranium-235	0.116	pCi/g	0.0122		0.00967	0.4	0.8	SOIL	REG	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-0.5FR	RADS	Uranium-236	0.0169	pCi/g	0.00398	J	0.0068	0.4	0.8	SOIL	FR	AUG	J	5/5/2011
WD-SB-21	WDSB21RAD-0.5	RADS	Uranium-236	0.0216	pCi/g	0.00507	J	0.00868	0.4	0.8	SOIL	REG	AUG	J	5/5/2011
WD-SB-21	WDSB21RAD-0.5FR	RADS	Uranium-238	1.39	pCi/g	0.0333		0.00611	0.4	0.8	SOIL	FR	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-0.5	RADS	Uranium-238	1.34	pCi/g	0.037		0.00977	0.4	0.8	SOIL	REG	AUG	=	5/5/2011
WD-SB-21	WDSB21-06-2.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	1,1,2-Trichloroethane	0.81	ug/kg		U	0.81	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	1.5	3	SOIL	REG	SPS	UJ	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	2-Hexanone	4.5	ug/kg		U	4.5	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Acetone	5	ug/kg		U	5	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Acrolein	18	ug/kg		U	18	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Benzene	0.43	ug/kg		U	0.43	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Bromoform	0.21	ug/kg		U	0.21	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Bromomethane	0.46	ug/kg		U	0.46	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-09-2.0	GTEC	Cation Exchange Capacity	0.0355	meq/g			0.0018	1.5	3	SOIL	REG	SPS		8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Chloroethane	0.82	ug/kg		U	0.82	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Chloromethane	0.71	ug/kg		U	0.71	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Dibromomethane	0.77	ug/kg		U	0.77	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-07-2.0	WETCHEM	Distribution coefficient, Kd, Tc-99	4.23	mL/g				1.5	3	SOIL	REG	SPS		8/9/2011
WD-SB-21	WDSB21-07-2.0	WETCHEM	Distribution coefficient, Kd, Uranium	-17.2	mL/g				1.5	3	SOIL	REG	SPS		8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	M + P Xylene	0.96	ug/kg		U	0.96	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Methylene chloride	0.69	ug/kg		U	0.69	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Styrene	0.58	ug/kg		U	0.58	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Toluene	0.64	ug/kg		U	0.64	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	WETCHEM	Total Organic Carbon (TOC)	1.7	g/kg		U	1.7	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Total Xylene	0.56	ug/kg		U	0.56	1.5	3	SOIL	REG	SPS	UJ	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Trichloroethene	0.69	ug/kg		J	0.21	1.5	3	SOIL	REG	SPS	J	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Trichlorofluoromethane	0.96	ug/kg		U	0.96	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Vinyl acetate	0.99	ug/kg		U	0.99	1.5	3	SOIL	REG	SPS	UJ	8/9/2011
WD-SB-21	WDSB21-06-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	1.5	3	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21RAD-2.0FR	RADS	Technetium-99	0.095	pCi/g	0.0651	U	0.215	1.916666667	2.25	SOIL	FR	AUG	U	5/5/2011
WD-SB-21	WDSB21RAD-2.0	RADS	Technetium-99	0.115	pCi/g	0.0636	U	0.209	1.916666667	2.25	SOIL	REG	AUG	U	5/5/2011
WD-SB-21	WDSB21RAD-2.0FR	METAL	Total Uranium	4.79	ug/g	0		0.0185	1.916666667	2.25	SOIL	FR	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-2.0	METAL	Total Uranium	4	ug/g	0		0.0272	1.916666667	2.25	SOIL	REG	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-2.0FR	RADS	Uranium-233/234	1.61	pCi/g	0.0331		0.0052	1.916666667	2.25	SOIL	FR	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-2.0	RADS	Uranium-233/234	1.35	pCi/g	0.0299		0.00637	1.916666667	2.25	SOIL	REG	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-2.0FR	RADS	Uranium-235	0.0839	pCi/g	0.00843	J	0.00642	1.916666667	2.25	SOIL	FR	AUG	J	5/5/2011
WD-SB-21	WDSB21RAD-2.0	RADS	Uranium-235	0.0583	pCi/g	0.00696	J	0.00628	1.916666667	2.25	SOIL	REG	AUG	J	5/5/2011
WD-SB-21	WDSB21RAD-2.0FR	RADS	Uranium-236	0.0098	pCi/g	0.00282	J	0.00576	1.916666667	2.25	SOIL	FR	AUG	U	5/5/2011
WD-SB-21	WDSB21RAD-2.0	RADS	Uranium-236	0.00442	pCi/g	0.00195	U	0.00564	1.916666667	2.25	SOIL	REG	AUG	U	5/5/2011
WD-SB-21	WDSB21RAD-2.0FR	RADS	Uranium-238	1.6	pCi/g	0.0329		0.00518	1.916666667	2.25	SOIL	FR	AUG	=	5/5/2011
WD-SB-21	WDSB21RAD-2.0	RADS	Uranium-238	1.34	pCi/g	0.0298		0.00815	1.916666667	2.25	SOIL	REG	AUG	=	5/5/2011
WD-SB-21	WDSB21-06-4.5	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	4	4.5	SOIL	REG	SPS	U	8/9/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-21	WDSB21-06-4.5	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	2-Hexanone	4.4	ug/kg		U	4.4	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Acetone	4.9	ug/kg		U	4.9	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Acrolein	18	ug/kg		U	18	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Benzene	0.43	ug/kg		U	0.43	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Bromoform	0.21	ug/kg		U	0.21	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Bromomethane	0.45	ug/kg		U	0.45	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Chloroethane	0.81	ug/kg		U	0.81	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Chloroform	0.26	ug/kg		U	0.26	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Chloromethane	0.7	ug/kg		U	0.7	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Dibromomethane	0.76	ug/kg		U	0.76	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-07-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	4.97	mL/g				4	4.5	SOIL	REG	SPS		8/9/2011
WD-SB-21	WDSB21-07-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	2.05	mL/g				4	4.5	SOIL	REG	SPS		8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Iodomethane	0.4	ug/kg		U	0.4	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	M + P Xylene	0.95	ug/kg		U	0.95	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Methylene chloride	0.68	ug/kg		U	0.68	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Styrene	0.57	ug/kg		U	0.57	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Toluene	0.63	ug/kg		U	0.63	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	WETCHEM	Total Organic Carbon (TOC)	1.7	g/kg		U	1.7	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Total Xylene	0.55	ug/kg		U	0.55	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Trichlorofluoromethane	0.95	ug/kg		U	0.95	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	4	4.5	SOIL	REG	SPS	U	8/9/2011
WD-SB-21	WDSB21-06-12.0	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	1,1,2-Trichloroethane	0.76	ug/kg		U	0.76	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	1,2,3-Trichloropropane	0.7	ug/kg		U	0.7	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	2-Hexanone	4.2	ug/kg		U	4.2	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Acetone	4.7	ug/kg		U	4.7	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Acrolein	17	ug/kg		U	17	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Benzene	0.41	ug/kg		U	0.41	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Bromoform	0.2	ug/kg		U	0.2	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Bromomethane	0.43	ug/kg		U	0.43	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-09-12.0	GTEC	Cation Exchange Capacity	0.0783	meq/g			0.0018	11.5	13	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Chloroethane	0.77	ug/kg		U	0.77	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Chloroform	0.25	ug/kg		U	0.25	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Chloromethane	0.67	ug/kg		U	0.67	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	11.5	13	SOIL	REG	SPS	U	8/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-21	WDSB21-06-12.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Dibromochloromethane	0.49	ug/kg		U	0.49	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Dibromomethane	0.73	ug/kg		U	0.73	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-07-12.0	WETCHEM	Distribution coefficient, Kd, Tc-99	4.19	mL/g				11.5	13	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-07-12.0	WETCHEM	Distribution coefficient, Kd, Uranium	-14.2	mL/g				11.5	13	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Iodomethane	0.38	ug/kg		U	0.38	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	M + P Xylene	0.9	ug/kg		U	0.9	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Methylene chloride	0.65	ug/kg		U	0.65	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Styrene	0.55	ug/kg		U	0.55	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Toluene	0.6	ug/kg		U	0.6	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	WETCHEM	Total Organic Carbon (TOC)	1.7	g/kg		U	1.7	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Total Xylene	0.53	ug/kg		U	0.53	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Trichloroethene	0.2	ug/kg		U	0.2	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Trichlorofluoromethane	0.9	ug/kg		U	0.9	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Vinyl acetate	0.93	ug/kg		U	0.93	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	11.5	13	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	2-Butanone	4.4	ug/kg		J	1.7	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	2-Hexanone	4.6	ug/kg		U	4.6	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2-Methylnaphthalene	1900	ug/kg			18	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2-Methylphenol	12	ug/kg		U	12	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	4-Methylphenol	32	ug/kg		U	32	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	4-Nitrophenol	93	ug/kg		U	93	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Acenaphthene	52	ug/kg		J	9.8	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Acenaphthylene	16	ug/kg		U	16	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Acetone	21	ug/kg			5	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Acrolein	19	ug/kg		U	19	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Alpha activity	14.6	pCi/g	1		1.95	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Aluminum	4600	mg/kg			1.6	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Americium-241	0.00757	pCi/g	0.00837	U	0.0408	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Aniline	120	ug/kg		U	120	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Anthracene	16	ug/kg		U	16	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Antimony	2.8	mg/kg			0.38	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Arsenic	45	mg/kg			0.049	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Barium	50	mg/kg			0.076	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	19	20.5	SOIL	REG	SPS	U	8/10/2011

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-21	WDSB21-02-19.5	SVOA	Benzaldehyde	64	ug/kg		U	64	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Benzene	0.44	ug/kg		U	0.44	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Benzenemethanol	43	ug/kg		J	9.6	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Benzo(ghi)perylene	38	ug/kg		J	15	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Benzoic acid	320	ug/kg		U	320	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Beryllium	0.58	mg/kg			0.033	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Beta activity	10.8	pCi/g	0.725		1.85	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Bromoform	0.22	ug/kg		U	0.22	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Bromomethane	0.47	ug/kg		U	0.47	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Cadmium	9.9	mg/kg			0.041	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Calcium	820	mg/kg			14	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Carbazole	34	ug/kg		U	34	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-09-19.5	GTEC	Cation Exchange Capacity	0.123	meq/g			0.0018	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Cesium-137	-0.03	pCi/g	0.107	U	0.298	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Chloroethane	0.84	ug/kg		U	0.84	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Chloroform	0.27	ug/kg		U	0.27	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Chloromethane	0.72	ug/kg		U	0.72	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Chromium	13	mg/kg			0.058	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Chrysene	26	ug/kg		U	26	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Cobalt	6.1	mg/kg			0.1	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Copper	40	mg/kg			0.22	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Dibenzofuran	43	ug/kg		J	19	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Dibromomethane	0.79	ug/kg		U	0.79	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-07-19.5	WETCHEM	Distribution coefficient, Kd, Tc-99	4.32	mL/g				19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-07-19.5	WETCHEM	Distribution coefficient, Kd, Uranium	-25.5	mL/g				19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Fluoranthene	34	ug/kg		U	34	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Fluorene	17	ug/kg		U	17	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Hexachloroethane	20	ug/kg		U	20	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Iodomethane	0.41	ug/kg		U	0.41	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Iron	15000	mg/kg			3.8	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Isophorone	16	ug/kg		U	16	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Lead	12	mg/kg			0.27	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	M + P Xylene	0.98	ug/kg		U	0.98	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Magnesium	750	mg/kg			3.7	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Manganese	15	mg/kg			0.1	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Mercury	0.094	mg/kg			0.0051	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Methylene chloride	0.7	ug/kg		U	0.7	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Molybdenum	190	mg/kg			0.26	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Naphthalene	1000	ug/kg			30	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Neptunium-237	0	pCi/g	0.00415	U	0.0281	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Nickel	110	mg/kg			0.12	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Nitrobenzene	21	ug/kg		U	21	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	N-Nitrosodiphenylamine	170	ug/kg		J	20	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	PPCB	PCB-1242	0.0086	mg/kg		U	0.0086	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	19	20.5	SOIL	REG	SPS	U	8/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-21	WDSB21-02-19.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Phenanthrene	110	ug/kg		J	16	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Phenol	39	ug/kg		J	17	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Plutonium-238	0.00503	pCi/g	0.00435	U	0.0192	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Plutonium-239/240	0.0251	pCi/g	0.00833	U	0.0192	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-02-19.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Pyrene	61	ug/kg		BJ	12	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-02-19.5	SVOA	Pyridine	120	ug/kg		U	120	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Selenium	32	mg/kg			0.13	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Silver	1.1	mg/kg			0.16	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Sodium	92	mg/kg		B	59	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Styrene	0.59	ug/kg		U	0.59	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Technetium-99	0.0534	pCi/g	0.153	U	0.512	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Thallium	15	mg/kg			0.0034	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Thorium-228	0.738	pCi/g	0.0478	J	0.0375	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Thorium-230	7.65	pCi/g	0.15		0.0227	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Thorium-232	0.789	pCi/g	0.0485	J	0.0283	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Toluene	0.65	ug/kg		U	0.65	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	WETCHEM	Total Organic Carbon (TOC)	47	g/kg			1.7	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Total Xylene	0.57	ug/kg		U	0.57	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Trichloroethene	0.6	ug/kg		J	0.22	19	20.5	SOIL	REG	SPS	J	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Uranium	24	mg/kg			0.0015	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Uranium-233/234	7.22	pCi/g	0.133		0.0188	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Uranium-235	0.285	pCi/g	0.0295	J	0.0232	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Uranium-236	0.0299	pCi/g	0.00942	U	0.0208	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-04-19.5	RADS	Uranium-238	7.16	pCi/g	0.132		0.0187	19	20.5	SOIL	REG	SPS		8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Vanadium	230	mg/kg			0.094	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Vinyl acetate	1	ug/kg		U	1	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-06-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	19	20.5	SOIL	REG	SPS	U	8/10/2011
WD-SB-21	WDSB21-03-19.5	METAL	Zinc	260	mg/kg			0.4	19	20.5	SOIL	REG	SPS	=	8/10/2011
WD-SB-22	WDSB22-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	4-Methylphenol	32	ug/kg		U	32	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	4-Nitrophenol	95	ug/kg		U	95	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-22	WDSB22-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Acetone	5.2	ug/kg		U	5.2	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Alpha activity	5.94	pCi/g	0.796		2.25	0	2	SOIL	REG	SPS	=	8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Aluminum	12000	mg/kg			1.3	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Americium-241	0.00742	pCi/g	0.00892	U	0.0438	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Antimony	0.33	mg/kg		U	0.33	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Arsenic	7.8	mg/kg			0.046	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Barium	110	mg/kg			0.066	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Benzaldehyde	66	ug/kg		U	66	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Benzene	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Benzoic acid	320	ug/kg		U	320	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Beryllium	0.85	mg/kg			0.029	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Beta activity	0.953	pCi/g	0.534	U	2.65	0	2	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Bromomethane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Cadmium	0.1	mg/kg		B	0.036	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Calcium	200	mg/kg			12	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Carbazole	35	ug/kg		U	35	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Cesium-137	0.0661	pCi/g	0.0581	U	0.187	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Chloroethane	0.86	ug/kg		U	0.86	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Chloromethane	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Chromium	12	mg/kg			0.05	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Cobalt	16	mg/kg			0.087	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Copper	7.9	mg/kg			0.19	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Dibromomethane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Fluoranthene	35	ug/kg		U	35	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Iron	17000	mg/kg			3.3	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Lead	20	mg/kg			0.23	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Magnesium	1100	mg/kg			3.2	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Manganese	1700	mg/kg			0.43	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Mercury	0.039	mg/kg			0.0051	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Methylene chloride	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Molybdenum	0.71	mg/kg		B	0.23	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Neptunium-237	0.00236	pCi/g	0.00914	U	0.0481	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Nickel	12	mg/kg			0.11	0	2	SOIL	REG	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-22	WDSB22-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Phenol	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Plutonium-238	-0.0061	pCi/g	-0.00528	U	0.0375	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Plutonium-239/240	0.0183	pCi/g	0.00862	U	0.0292	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Selenium	0.54	mg/kg			0.12	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Sodium	51	mg/kg		B	51	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Styrene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Technetium-99	-0.208	pCi/g	0.156	U	0.531	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Thallium	0.2	mg/kg			0.0032	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Thorium-228	0.987	pCi/g	0.0485	J	0.0182	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Thorium-230	1.22	pCi/g	0.0535	J	0.0178	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Thorium-232	0.975	pCi/g	0.0478	J	0.0223	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Toluene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Total Xylene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Uranium	0.83	mg/kg			0.0014	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Uranium-233/234	1.06	pCi/g	0.0472	J	0.016	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Uranium-235	0.0258	pCi/g	0.00857	U	0.0198	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Uranium-236	0.0116	pCi/g	0.00614	U	0.0222	0	2	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-22	WDSB22-04-2.0	RADS	Uranium-238	1.01	pCi/g	0.046	J	0.02	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Vanadium	27	mg/kg			0.41	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-2.0	METAL	Zinc	36	mg/kg			0.35	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22RAD-0.5	RADS	Technetium-99	-0.0284	pCi/g	0.065	U	0.22	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-22	WDSB22RAD-0.5	METAL	Total Uranium	2.62	ug/g	0		0.0167	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-22	WDSB22RAD-0.5	RADS	Uranium-233/234	0.837	pCi/g	0.0227		0.0047	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-22	WDSB22RAD-0.5	RADS	Uranium-235	0.0334	pCi/g	0.00509	J	0.0058	0.4	0.8	SOIL	REG	AUG	J	5/2/2011
WD-SB-22	WDSB22RAD-0.5	RADS	Uranium-236	0.00817	pCi/g	0.00245	J	0.00521	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-22	WDSB22RAD-0.5	RADS	Uranium-238	0.875	pCi/g	0.0232		0.00468	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-22	WDSB22RAD-2.0	RADS	Technetium-99	-0.214	pCi/g	0.0628	U	0.219	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-22	WDSB22RAD-2.0	METAL	Total Uranium	2.55	ug/g	0		0.0392	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-22	WDSB22RAD-2.0	RADS	Uranium-233/234	0.754	pCi/g	0.0228		0.00526	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-22	WDSB22RAD-2.0	RADS	Uranium-235	0.0272	pCi/g	0.00488	J	0.00649	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-22	WDSB22RAD-2.0	RADS	Uranium-236	0.00686	pCi/g	0.00275	U	0.00937	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-22	WDSB22RAD-2.0	RADS	Uranium-238	0.854	pCi/g	0.0243		0.0121	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-22	WDSB22-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-22	WDSB22-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	2-Hexanone	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Acetone	5.4	ug/kg		U	5.4	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Alpha activity	10.2	pCi/g	0.982		2.1	2.5	4.5	SOIL	REG	SPS	=	8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Aluminum	14000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Americium-241	0.0108	pCi/g	0.0066	U	0.0258	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Antimony	0.37	mg/kg		U	0.37	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Arsenic	8.6	mg/kg			0.046	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Barium	63	mg/kg			0.074	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Benzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Benzenemethanol	12	ug/kg		J	9.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Beryllium	0.47	mg/kg		B	0.032	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Beta activity	3.25	pCi/g	0.624	J	2.44	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Cadmium	0.04	mg/kg		U	0.04	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Calcium	130	mg/kg			14	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Cesium-137	-0.0651	pCi/g	0.0613	U	0.157	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Chloroethane	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Chloromethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Chromium	18	mg/kg			0.056	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Cobalt	4.6	mg/kg			0.097	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Copper	13	mg/kg			0.21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Dibromomethane	0.84	ug/kg		U	0.84	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-22	WDSB22-01-4.5	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Iron	24000	mg/kg			3.7	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Lead	13	mg/kg			0.26	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Magnesium	1700	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Manganese	110	mg/kg			0.097	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Mercury	0.031	mg/kg			0.0053	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Methylene chloride	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Molybdenum	0.86	mg/kg		B	0.25	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Neptunium-237	0.00283	pCi/g	0.0049	U	0.0271	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Nickel	10	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Phenol	17	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Plutonium-238	-0.00309	pCi/g	-0.00818	U	0.05	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Plutonium-239/240	0.0216	pCi/g	0.00874	U	0.0237	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Selenium	0.4	mg/kg		B	0.12	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Silver	0.16	mg/kg		U	0.16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Sodium	72	mg/kg		B	57	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Styrene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Technetium-99	-0.0329	pCi/g	0.155	U	0.521	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Thallium	0.17	mg/kg			0.0032	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Thorium-228	1.08	pCi/g	0.0542	J	0.0259	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Thorium-230	1.38	pCi/g	0.0606	J	0.0254	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Thorium-232	0.959	pCi/g	0.0505	J	0.0203	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Toluene	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Total Xylene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Uranium	0.94	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Uranium-233/234	1.05	pCi/g	0.0482	J	0.0169	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Uranium-235	0.0492	pCi/g	0.0122	J	0.0262	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Uranium-236	0.00981	pCi/g	0.00548	U	0.0188	2.5	4.5	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-22	WDSB22-04-4.5	RADS	Uranium-238	1.06	pCi/g	0.0483	J	0.0169	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Vanadium	33	mg/kg			0.091	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-4.5	METAL	Zinc	38	mg/kg			0.39	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	1,1,2-Trichloroethane	0.81	ug/kg		U	0.81	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-22	WDSB22-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	2-Butanone	25	ug/kg			1.7	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	2-Hexanone	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Acetone	5	ug/kg		U	5	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Alpha activity	5.88	pCi/g	0.794		2.24	10	12	SOIL	REG	SPS	=	8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Aluminum	12000	mg/kg			1.5	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Americium-241	0.0122	pCi/g	0.00734	U	0.0301	10	12	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Antimony	0.37	mg/kg		U	0.37	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Arsenic	8.7	mg/kg			0.046	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Barium	44	mg/kg			0.074	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Benzene	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Benzenemethanol	15	ug/kg		J	9.9	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Beryllium	0.8	mg/kg			0.032	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Beta activity	4.69	pCi/g	0.675	J	2.55	10	12	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Bromomethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Cadmium	0.048	mg/kg		B	0.04	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Calcium	750	mg/kg			14	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Cesium-137	-0.00678	pCi/g	0.0526	U	0.149	10	12	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Chloroethane	0.82	ug/kg		U	0.82	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Chloroform	0.27	ug/kg		U	0.27	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Chloromethane	0.71	ug/kg		U	0.71	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Chromium	18	mg/kg			0.056	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Cobalt	9.8	mg/kg			0.097	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Copper	30	mg/kg			0.21	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-22	WDSB22-01-12.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Dibromomethane	0.77	ug/kg		U	0.77	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Iodomethane	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Iron	19000	mg/kg			3.7	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Lead	12	mg/kg			0.26	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	M + P Xylene	0.96	ug/kg		U	0.96	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Magnesium	3500	mg/kg			3.6	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Manganese	160	mg/kg			0.097	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Mercury	0.012	mg/kg		B	0.0054	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Methylene chloride	0.69	ug/kg		U	0.69	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Molybdenum	0.54	mg/kg		B	0.25	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Neptunium-237	0.00515	pCi/g	0.00515	U	0.0247	10	12	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Nickel	28	mg/kg			0.12	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Phenol	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Plutonium-238	-0.00262	pCi/g	-0.00454	U	0.0322	10	12	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Plutonium-239/240	0.0236	pCi/g	0.00828	U	0.02	10	12	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-22	WDSB22-02-12.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Selenium	0.5	mg/kg			0.12	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Silver	0.16	mg/kg		U	0.16	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Sodium	180	mg/kg		B	57	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Styrene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Technetium-99	-0.0229	pCi/g	0.162	U	0.545	10	12	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Thallium	0.19	mg/kg			0.0032	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Thorium-228	1.4	pCi/g	0.0702	J	0.0498	10	12	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Thorium-230	1.08	pCi/g	0.0607	J	0.0326	10	12	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Thorium-232	1.33	pCi/g	0.0673	J	0.026	10	12	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Toluene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Total Xylene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Trichlorofluoromethane	0.96	ug/kg		U	0.96	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Uranium	0.45	mg/kg			0.0014	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Uranium-233/234	0.923	pCi/g	0.0468	J	0.0226	10	12	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Uranium-235	0.067	pCi/g	0.0146	J	0.0279	10	12	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Uranium-236	0.00523	pCi/g	0.00453	U	0.02	10	12	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-22	WDSB22-04-12.0	RADS	Uranium-238	0.898	pCi/g	0.046	J	0.0225	10	12	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Vanadium	16	mg/kg			0.091	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Vinyl acetate	0.98	ug/kg		U	0.98	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-12.0	METAL	Zinc	66	mg/kg			0.39	10	12	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	17.5	19.5	SOIL	REG	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-22	WDSB22-01-19.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	1,2,3-Trichloropropane	0.77	ug/kg		U	0.77	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	2-Hexanone	4.6	ug/kg		U	4.6	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2-Methylphenol	13	ug/kg		U	13	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	4-Methylphenol	33	ug/kg		U	33	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Acenaphthene	10	ug/kg		U	10	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Acenaphthylene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Acetone	5.1	ug/kg		U	5.1	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Acrolein	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Alpha activity	8.32	pCi/g	0.916		2.18	17.5	19.5	SOIL	REG	SPS	=	8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Aluminum	11000	mg/kg			1.3	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Americium-241	0.0267	pCi/g	0.00842	U	0.0186	17.5	19.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Aniline	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Anthracene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Antimony	0.32	mg/kg		U	0.32	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Arsenic	12	mg/kg			0.049	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Barium	49	mg/kg			0.064	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Benzaldehyde	66	ug/kg		U	66	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Benzene	0.44	ug/kg		U	0.44	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Benzenemethanol	11	ug/kg		J	9.9	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Benzoic acid	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Beryllium	0.7	mg/kg			0.028	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Beta activity	4.41	pCi/g	0.667	J	2.49	17.5	19.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Bromoform	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Bromomethane	0.47	ug/kg		U	0.47	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Cadmium	0.034	mg/kg		U	0.034	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Calcium	670	mg/kg			12	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Carbazole	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Cesium-137	0.0388	pCi/g	0.0516	U	0.16	17.5	19.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Chloroethane	0.84	ug/kg		U	0.84	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Chloroform	0.27	ug/kg		U	0.27	17.5	19.5	SOIL	REG	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-22	WDSB22-01-19.5	VOA	Chloromethane	0.73	ug/kg		U	0.73	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Chromium	16	mg/kg			0.049	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Chrysene	27	ug/kg		U	27	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Cobalt	8.2	mg/kg			0.084	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Copper	27	mg/kg			0.18	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Dibenzofuran	20	ug/kg		U	20	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Dibromomethane	0.79	ug/kg		U	0.79	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Fluoranthene	36	ug/kg		U	36	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Fluorene	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Hexachloroethane	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Iodomethane	0.42	ug/kg		U	0.42	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Iron	19000	mg/kg			3.2	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Isophorone	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Lead	12	mg/kg			0.23	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	M + P Xylene	0.98	ug/kg		U	0.98	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Magnesium	3400	mg/kg			3.1	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Manganese	150	mg/kg			0.084	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Mercury	0.017	mg/kg			0.0054	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Methylene chloride	0.71	ug/kg		U	0.71	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Molybdenum	0.22	mg/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Naphthalene	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Neptunium-237	0	pCi/g	0.00512	U	0.0315	17.5	19.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Nickel	23	mg/kg			0.1	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Nitrobenzene	22	ug/kg		U	22	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Phenanthrene	17	ug/kg		U	17	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Phenol	18	ug/kg		U	18	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Plutonium-238	0.003	pCi/g	0.009	U	0.0484	17.5	19.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Plutonium-239/240	0.00599	pCi/g	0.00599	U	0.0287	17.5	19.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-02-19.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Pyrene	12	ug/kg		U	12	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-02-19.5	SVOA	Pyridine	130	ug/kg		U	130	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Selenium	0.25	mg/kg		B	0.13	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Silver	0.13	mg/kg		U	0.13	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Sodium	170	mg/kg		B	50	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Styrene	0.6	ug/kg		U	0.6	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Technetium-99	0.051	pCi/g	0.157	U	0.527	17.5	19.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Thallium	0.13	mg/kg			0.0034	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Thorium-228	1.48	pCi/g	0.0719	J	0.0495	17.5	19.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Thorium-230	1.16	pCi/g	0.0627	J	0.0258	17.5	19.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Thorium-232	1.21	pCi/g	0.064	J	0.0258	17.5	19.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Toluene	0.65	ug/kg		U	0.65	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Total Xylene	0.58	ug/kg		U	0.58	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Uranium	0.54	mg/kg			0.0015	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Uranium-233/234	0.855	pCi/g	0.0451	J	0.0182	17.5	19.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Uranium-235	0.044	pCi/g	0.0117	J	0.0224	17.5	19.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-04-19.5	RADS	Uranium-236	0.0105	pCi/g	0.00589	U	0.0201	17.5	19.5	SOIL	REG	SPS	UJ	8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-22	WDSB22-04-19.5	RADS	Uranium-238	0.901	pCi/g	0.0462	J	0.0181	17.5	19.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Vanadium	13	mg/kg			0.079	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Vinyl acetate	1	ug/kg		U	1	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-01-19.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-22	WDSB22-03-19.5	METAL	Zinc	55	mg/kg			0.33	17.5	19.5	SOIL	REG	SPS		8/30/2011
WD-SB-23	WDSB23-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	1,2,3-Trichloropropane	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	1,2-Dichloroethane	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	2-Hexanone	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Acetone	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Acrolein	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Alpha activity	2.74	pCi/g	0.394	J	1.27	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Aluminum	6800	mg/kg			1.4	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Americium-241	0.0197	pCi/g	0.00922	U	0.0355	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Antimony	0.35	mg/kg		U	0.35	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Arsenic	5.4	mg/kg			0.045	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Barium	40	mg/kg			0.07	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Benzene	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Beryllium	0.34	mg/kg		B	0.031	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Beta activity	0.512	pCi/g	0.269	U	1.34	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Bromoform	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Bromomethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Cadmium	0.045	mg/kg		B	0.038	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Calcium	73	mg/kg			13	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Cesium-137	0.0456	pCi/g	0.0627	U	0.196	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Chloroethane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Chloroform	0.26	ug/kg		U	0.26	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Chloromethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Chromium	8.4	mg/kg			0.054	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	cis-1,2-Dichloroethene	0.88	ug/kg		BJ	0.51	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Cobalt	5.8	mg/kg			0.093	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Copper	4.1	mg/kg			0.2	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Dibromomethane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Iodomethane	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Iron	8800	mg/kg			3.5	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Lead	11	mg/kg			0.25	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	M + P Xylene	1.2	ug/kg		J	0.94	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Magnesium	570	mg/kg			3.4	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Manganese	220	mg/kg			0.093	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Mercury	0.018	mg/kg			0.0052	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Methylene chloride	1.8	ug/kg		BJ	0.68	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Molybdenum	0.6	mg/kg		B	0.24	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Neptunium-237	0.00467	pCi/g	0.00404	U	0.0179	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Nickel	5.4	mg/kg			0.11	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Plutonium-238	0.00558	pCi/g	0.00558	U	0.0267	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Plutonium-239/240	0.0502	pCi/g	0.0122	J	0.0213	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Selenium	0.26	mg/kg		B	0.12	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Sodium	55	mg/kg		U	55	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Styrene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Technetium-99	0.00572	pCi/g	0.167	U	0.562	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Thallium	0.14	mg/kg			0.0031	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Thorium-228	1.02	pCi/g	0.0822	J	0.111	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Thorium-230	1.15	pCi/g	0.0826	J	0.0565	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Thorium-232	0.96	pCi/g	0.0757	J	0.0564	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Toluene	1.8	ug/kg		J	0.63	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Total Xylene	1.2	ug/kg		J	0.55	0	2	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	0	2	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-23	WDSB23-01-2.0	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Trichloroethene	1.1	ug/kg		BJ	0.21	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Trichlorofluoromethane	0.94	ug/kg		U	0.94	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Uranium	0.61	mg/kg			0.0014	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Uranium-233/234	0.709	pCi/g	0.0406	J	0.0177	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Uranium-235	0.0171	pCi/g	0.00808	U	0.0274	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Uranium-236	0.0103	pCi/g	0.00629	U	0.0246	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-2.0	RADS	Uranium-238	0.764	pCi/g	0.042	J	0.0176	0	2	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Vanadium	15	mg/kg			0.087	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-2.0	METAL	Zinc	18	mg/kg			0.37	0	2	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23RAD-0.5	RADS	Technetium-99	-0.074	pCi/g	0.0642	U	0.219	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-23	WDSB23RAD-0.5	METAL	Total Uranium	2.55	ug/g	0		0.0219	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-23	WDSB23RAD-0.5	RADS	Uranium-233/234	0.808	pCi/g	0.0233		0.0118	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-23	WDSB23RAD-0.5	RADS	Uranium-235	0.0271	pCi/g	0.00479	J	0.00628	0.4	0.8	SOIL	REG	AUG	J	5/2/2011
WD-SB-23	WDSB23RAD-0.5	RADS	Uranium-236	0.00443	pCi/g	0.00195	U	0.00564	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-23	WDSB23RAD-0.5	RADS	Uranium-238	0.855	pCi/g	0.0238		0.00635	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-23	WDSB23RAD-2.0	RADS	Technetium-99	-0.103	pCi/g	0.0638	U	0.218	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-23	WDSB23RAD-2.0	METAL	Total Uranium	2.45	ug/g	0		0.0255	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-23	WDSB23RAD-2.0	RADS	Uranium-233/234	0.764	pCi/g	0.0263		0.00692	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-23	WDSB23RAD-2.0	RADS	Uranium-235	0.0368	pCi/g	0.0066	J	0.0107	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-23	WDSB23RAD-2.0	RADS	Uranium-236	0.013	pCi/g	0.00375	J	0.00766	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-23	WDSB23RAD-2.0	RADS	Uranium-238	0.817	pCi/g	0.0271		0.00689	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-23	WDSB23-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	2-Hexanone	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	4-Nitrophenol	96	ug/kg		U	96	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Acetone	5.2	ug/kg		U	5.2	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Acrolein	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Alpha activity	7.28	pCi/g	0.641		1.42	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Aluminum	13000	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Americium-241	0.0262	pCi/g	0.00816	U	0.0209	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Antimony	0.34	mg/kg		U	0.34	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Arsenic	12	mg/kg			0.047	2.5	4.5	SOIL	REG	SPS	=	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-23	WDSB23-03-4.5	METAL	Barium	51	mg/kg			0.067	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Benzaldehyde	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Benzene	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Beryllium	0.81	mg/kg			0.029	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Beta activity	0.693	pCi/g	0.317	U	1.39	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Bromoform	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Bromomethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Cadmium	0.039	mg/kg		B	0.036	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Calcium	230	mg/kg			12	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Cesium-137	-0.0577	pCi/g	0.0698	U	0.183	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Chloroethane	0.86	ug/kg		U	0.86	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Chloromethane	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Chromium	18	mg/kg			0.051	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	cis-1,2-Dichloroethene	0.97	ug/kg		BJ	0.54	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Cobalt	9.3	mg/kg			0.088	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Copper	23	mg/kg			0.19	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Dibromomethane	0.81	ug/kg		U	0.81	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Iron	27000	mg/kg			3.4	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Lead	14	mg/kg			0.24	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Magnesium	2200	mg/kg			3.3	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Manganese	95	mg/kg			0.088	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Mercury	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Methylene chloride	1.5	ug/kg		BJ	0.72	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Molybdenum	0.52	mg/kg		B	0.23	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Neptunium-237	0.00242	pCi/g	0.00342	U	0.0185	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Nickel	21	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-23	WDSB23-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Phenol	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Plutonium-238	-0.0106	pCi/g	-0.00594	U	0.0429	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Plutonium-239/240	0.0212	pCi/g	0.00839	U	0.0254	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Selenium	0.12	mg/kg		B	0.12	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Sodium	100	mg/kg		B	52	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Styrene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Technetium-99	0.0308	pCi/g	0.167	U	0.56	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Thallium	0.13	mg/kg			0.0033	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Thorium-228	1.33	pCi/g	0.128	J	0.187	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Thorium-230	1.67	pCi/g	0.136	J	0.0836	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Thorium-232	1.13	pCi/g	0.112	J	0.0835	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Toluene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Total Xylene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Trichloroethene	1.3	ug/kg		BJ	0.22	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Uranium	0.43	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Uranium-233/234	0.545	pCi/g	0.0348	J	0.0169	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Uranium-235	0.0218	pCi/g	0.00819	U	0.0209	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Uranium-236	0.0049	pCi/g	0.00425	U	0.0188	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-4.5	RADS	Uranium-238	0.373	pCi/g	0.0287	J	0.0169	2.5	4.5	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Vanadium	37	mg/kg			0.083	2.5	4.5	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-4.5	METAL	Zinc	65	mg/kg			0.35	2.5	4.5	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Acetone	5.3	ug/kg		U	5.3	10	12	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-23	WDSB23-01-12.0	VOA	Acrolein	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Alpha activity	5	pCi/g	0.546	J	1.43	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Aluminum	13000	mg/kg			1.5	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Americium-241	0.0122	pCi/g	0.00648	U	0.0234	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Antimony	0.37	mg/kg		U	0.37	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Arsenic	15	mg/kg			0.049	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Barium	30	mg/kg			0.073	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Benzene	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Beryllium	0.75	mg/kg			0.032	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Beta activity	1.59	pCi/g	0.343	U	1.4	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Bromoform	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Cadmium	0.049	mg/kg		B	0.039	10	12	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Calcium	1000	mg/kg			14	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Cesium-137	0.022	pCi/g	0.0468	U	0.141	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Chloroethane	0.87	ug/kg		U	0.87	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Chloromethane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Chromium	17	mg/kg			0.056	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	cis-1,2-Dichloroethene	1.1	ug/kg		BJ	0.55	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Cobalt	8.7	mg/kg			0.096	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Copper	22	mg/kg			0.21	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Dibromomethane	0.82	ug/kg		U	0.82	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Iodomethane	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Iron	20000	mg/kg			3.7	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Lead	12	mg/kg			0.26	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Magnesium	3200	mg/kg			3.6	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Manganese	94	mg/kg			0.096	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Mercury	0.012	mg/kg		B	0.005	10	12	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Methylene chloride	1.3	ug/kg		BJ	0.73	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Molybdenum	0.25	mg/kg		U	0.25	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Neptunium-237	0	pCi/g	0.00323	U	0.0175	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Nickel	28	mg/kg			0.12	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	10/4/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-23	WDSB23-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Phenol	27	ug/kg		J	18	10	12	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Plutonium-238	0.00305	pCi/g	0.00431	U	0.0233	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Plutonium-239/240	0.00914	pCi/g	0.00609	U	0.0233	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Selenium	0.13	mg/kg		U	0.13	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Sodium	180	mg/kg		B	57	10	12	SOIL	REG	SPS	J	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Styrene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Technetium-99	0.165	pCi/g	0.171	U	0.566	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Thallium	0.14	mg/kg			0.0034	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Thorium-228	1.5	pCi/g	0.107	J	0.0919	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Thorium-230	1.07	pCi/g	0.0875	J	0.0676	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Thorium-232	1.41	pCi/g	0.0998	J	0.0539	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Toluene	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Trichloroethene	1.5	ug/kg		BJ	0.22	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Uranium	0.65	mg/kg			0.0015	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Uranium-233/234	0.928	pCi/g	0.0486	J	0.0194	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Uranium-235	0.0375	pCi/g	0.0113	J	0.0239	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Uranium-236	0.00281	pCi/g	0.00397	U	0.0215	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-04-12.0	RADS	Uranium-238	0.825	pCi/g	0.0458	J	0.0242	10	12	SOIL	REG	SPS		10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Vanadium	35	mg/kg			0.09	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-01-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	10/4/2011
WD-SB-23	WDSB23-03-12.0	METAL	Zinc	75	mg/kg			0.38	10	12	SOIL	REG	SPS	=	10/4/2011
WD-SB-24	WDSB24-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	1,1,2-Trichloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	1,2-Dichloroethane	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2,4,5-Trichlorophenol	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2,4,6-Trichlorophenol	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2,4-Dichlorophenol	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2-Chloronaphthalene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	2-Nitrophenol	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	3,3'-Dichlorobenzidine	90	ug/kg		U	90	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-24	WDSB24-02-2.0	SVOA	4-Chlorobenzenamine	82	ug/kg		U	82	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	4-Nitrobenzenamine	73	ug/kg		U	73	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	4-Nitrophenol	97	ug/kg		U	97	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Acetone	5	ug/kg		U	5	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Alpha activity	2.6	pCi/g	0.385	J	1.2	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Aluminum	10000	mg/kg			1.4	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Americium-241	0.0231	pCi/g	0.01	U	0.0356	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Antimony	0.34	mg/kg		U	0.34	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Arsenic	8.7	mg/kg			0.046	0	2	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Barium	50	mg/kg			0.068	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Benzaldehyde	67	ug/kg		U	67	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Benzenemethanol	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Benzoic acid	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Beryllium	0.61	mg/kg			0.029	0	2	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Beta activity	0.926	pCi/g	0.312	U	1.47	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Bis(2-chloroethyl) ether	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	97	ug/kg		BJ	46	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Cadmium	0.037	mg/kg		U	0.037	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Calcium	230	mg/kg			13	0	2	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Cesium-137	0.644	pCi/g	0.0945		0.351	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Chromium	15	mg/kg			0.052	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Cobalt	9.2	mg/kg			0.089	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Copper	9.1	mg/kg			0.19	0	2	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Dibromomethane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Hexachlorobutadiene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Iron	25000	mg/kg			3.4	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Lead	19	mg/kg			0.24	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	M + P Xylene	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Magnesium	850	mg/kg			3.3	0	2	SOIL	REG	SPS	J	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-24	WDSB24-03-2.0	METAL	Manganese	350	mg/kg			0.089	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Mercury	0.028	mg/kg			0.0055	0	2	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Methylene chloride	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Molybdenum	0.75	mg/kg		B	0.23	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Neptunium-237	0.00252	pCi/g	0.00357	U	0.0193	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Nickel	12	mg/kg			0.11	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Phenol	38	ug/kg		J	18	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Plutonium-238	0	pCi/g	0.00389	U	0.0263	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Plutonium-239/240	0.0385	pCi/g	0.0106	J	0.021	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-02-2.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Selenium	0.41	mg/kg		B	0.12	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Silver	0.15	mg/kg		B	0.14	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Sodium	53	mg/kg		U	53	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Styrene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Technetium-99	0.133	pCi/g	0.16	U	0.533	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Thallium	0.17	mg/kg			0.0032	0	2	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Thorium-228	1.02	pCi/g	0.0587	J	0.0259	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Thorium-230	0.967	pCi/g	0.0556	J	0.0243	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Thorium-232	0.889	pCi/g	0.0532	J	0.0243	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Toluene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Trichlorofluoromethane	0.98	ug/kg		U	0.98	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Uranium	0.66	mg/kg			0.0014	0	2	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Uranium-233/234	0.781	pCi/g	0.0413	J	0.0167	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Uranium-235	0.035	pCi/g	0.0101	J	0.0206	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Uranium-236	0.0193	pCi/g	0.00725	U	0.0185	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-04-2.0	RADS	Uranium-238	0.738	pCi/g	0.0401	J	0.0166	0	2	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Vanadium	29	mg/kg			0.084	0	2	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS	UJ	9/26/2011
WD-SB-24	WDSB24-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-2.0	METAL	Zinc	56	mg/kg			0.36	0	2	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24RAD-0.5	RADS	Technetium-99	0.0152	pCi/g	0.0647	U	0.217	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-24	WDSB24RAD-0.5	METAL	Total Uranium	1.82	ug/g	0		0.0127	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-24	WDSB24RAD-0.5	RADS	Uranium-233/234	0.596	pCi/g	0.0167		0.00358	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-24	WDSB24RAD-0.5	RADS	Uranium-235	0.0306	pCi/g	0.00424	J	0.00441	0.4	0.8	SOIL	REG	AUG	J	4/26/2011
WD-SB-24	WDSB24RAD-0.5	RADS	Uranium-236	0.00362	pCi/g	0.00155	U	0.00496	0.4	0.8	SOIL	REG	AUG	U	4/26/2011
WD-SB-24	WDSB24RAD-0.5	RADS	Uranium-238	0.607	pCi/g	0.0168		0.00356	0.4	0.8	SOIL	REG	AUG	=	4/26/2011
WD-SB-24	WDSB24RAD-2.0	RADS	Technetium-99	-0.0511	pCi/g	0.0644	U	0.218	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-24	WDSB24RAD-2.0	METAL	Total Uranium	2.31	ug/g	0		0.0175	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-24	WDSB24RAD-2.0	RADS	Uranium-233/234	0.728	pCi/g	0.0213		0.00593	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-24	WDSB24RAD-2.0	RADS	Uranium-235	0.0336	pCi/g	0.00518	J	0.00732	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-24	WDSB24RAD-2.0	RADS	Uranium-236	0.00823	pCi/g	0.00247	J	0.00525	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-24	WDSB24RAD-2.0	RADS	Uranium-238	0.772	pCi/g	0.0218		0.00472	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-24	WDSB24-21-4.5	VOA	1,1,1,2-Tetrachloroethane	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	1,1,1-Trichloroethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	1,1,2,2-Tetrachloroethane	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	1,1,2-Trichloroethane	0.91	ug/kg		U	0.91	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	1,1-Dichloroethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	1,1-Dichloroethene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	1,2,3-Trichloropropane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	2.5	4.5	SOIL	FR	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-24	WDSB24-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	1,2-Dichloroethane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	1,2-Dichloropropane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	1,2-Dimethylbenzene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2,4,5-Trichlorophenol	9.4	ug/kg		U	9.4	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2,4,6-Trichlorophenol	9.4	ug/kg		U	9.4	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2,4-Dichlorophenol	9.4	ug/kg		U	9.4	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	2-Butanone	1.9	ug/kg		U	1.9	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	2-Chloroethyl vinyl ether	5.2	ug/kg		U	5.2	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2-Chloronaphthalene	9.4	ug/kg		U	9.4	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	2-Hexanone	5	ug/kg		U	5	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	2-Nitrophenol	9.4	ug/kg		U	9.4	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	4-Chlorobenzenamine	77	ug/kg		U	77	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	4-Methyl-2-pentanone	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	4-Methylphenol	31	ug/kg		U	31	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	4-Nitrophenol	91	ug/kg		U	91	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Acetone	5.5	ug/kg		U	5.5	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Acetone	5.3	ug/kg		U	5.3	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Acrolein	21	ug/kg		U	21	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Acrylonitrile	5	ug/kg		U	5	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-24	WDSB24-20-4.5	RADS	Alpha activity	6.7	pCi/g	0.851		2.36	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Alpha activity	6.51	pCi/g	0.828		2.29	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Aluminum	16000	mg/kg			1.6	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Aluminum	16000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Americium-241	0.0402	pCi/g	0.012	U	0.0296	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Americium-241	0.0224	pCi/g	0.00907	U	0.0245	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Antimony	0.38	mg/kg		U	0.38	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Arsenic	11	mg/kg			0.045	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Arsenic	11	mg/kg			0.042	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Barium	38	mg/kg			0.076	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Barium	43	mg/kg			0.072	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Benzaldehyde	63	ug/kg		U	63	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Benzene	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Benzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Benzenemethanol	9.4	ug/kg		U	9.4	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Benzoic acid	310	ug/kg		U	310	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Beryllium	0.82	mg/kg			0.033	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Beryllium	0.75	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Beta activity	0.93	pCi/g	0.574	U	2.85	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Beta activity	1.33	pCi/g	0.58	U	2.8	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Bis(2-ethylhexyl)phthalate	99	ug/kg		BJ	43	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	100	ug/kg		BJ	45	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Bromodichloromethane	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Bromoform	0.24	ug/kg		U	0.24	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Bromoform	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Bromomethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Cadmium	0.041	mg/kg		U	0.041	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Cadmium	0.039	mg/kg		U	0.039	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Calcium	190	mg/kg			14	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Calcium	170	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Carbazole	34	ug/kg		U	34	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Carbon disulfide	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Carbon tetrachloride	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Cesium-137	0.0939	pCi/g	0.123	U	0.397	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Cesium-137	0.212	pCi/g	0.13	U	0.442	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Chlorobenzene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Chloroethane	0.92	ug/kg		U	0.92	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Chloroform	0.3	ug/kg		U	0.3	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Chloromethane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Chloromethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Chromium	20	mg/kg			0.058	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Chromium	20	mg/kg			0.055	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Chrysene	25	ug/kg		U	25	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	cis-1,2-Dichloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	FR	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-24	WDSB24-01-4.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Cobalt	10	mg/kg			0.1	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Cobalt	9.3	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Copper	22	mg/kg			0.22	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Copper	22	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Dibromochloromethane	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Dibromomethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Dichlorodifluoromethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Ethyl methacrylate	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Ethylbenzene	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Fluoranthene	34	ug/kg		U	34	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Hexachlorobutadiene	9.4	ug/kg		U	9.4	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Iodomethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Iron	27000	mg/kg			3.8	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Iron	22000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Lead	12	mg/kg			0.27	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Lead	12	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	M + P Xylene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Magnesium	2600	mg/kg			3.7	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Magnesium	2600	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Manganese	87	mg/kg			0.1	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Manganese	81	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Mercury	0.01	mg/kg		B	0.0049	2.5	4.5	SOIL	FR	SPS	J	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Mercury	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Methylene chloride	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Methylene chloride	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Molybdenum	0.26	mg/kg		U	0.26	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Molybdenum	0.25	mg/kg		U	0.25	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Naphthalene	29	ug/kg		U	29	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Neptunium-237	0.00649	pCi/g	0.00562	U	0.0248	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00346	U	0.0187	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Nickel	28	mg/kg			0.12	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Nickel	26	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-24	WDSB24-18-4.5	PPCB	PCB-1016	0.0047	mg/kg		U	0.0047	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	PPCB	PCB-1221	0.014	mg/kg		U	0.014	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	PPCB	PCB-1232	0.0047	mg/kg		U	0.0047	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	PPCB	PCB-1242	0.0084	mg/kg		U	0.0084	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	PPCB	PCB-1248	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	PPCB	PCB-1254	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	PPCB	PCB-1260	0.0024	mg/kg		U	0.0024	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Phenol	35	ug/kg		J	17	2.5	4.5	SOIL	FR	SPS	J	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Phenol	44	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Plutonium-238	0.00428	pCi/g	0.00605	U	0.0327	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Plutonium-238	-0.00281	pCi/g	-0.00487	U	0.0346	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Plutonium-239/240	0.0171	pCi/g	0.00956	U	0.0327	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Plutonium-239/240	0.00843	pCi/g	0.00628	U	0.0269	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-18-4.5	PPCB	Polychlorinated biphenyl	0.0024	mg/kg		U	0.0024	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Pyrene	11	ug/kg		U	11	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-18-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Selenium	0.12	mg/kg		U	0.12	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Selenium	0.11	mg/kg		B	0.11	2.5	4.5	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Silver	0.16	mg/kg		U	0.16	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Sodium	100	mg/kg		B	59	2.5	4.5	SOIL	FR	SPS	J	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Sodium	92	mg/kg		B	56	2.5	4.5	SOIL	REG	SPS	J	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Styrene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Styrene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Technetium-99	-0.0655	pCi/g	0.153	U	0.515	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Technetium-99	0.194	pCi/g	0.159	U	0.525	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Tetrachloroethene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Thallium	0.14	mg/kg			0.0031	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Thallium	0.13	mg/kg			0.0029	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Thorium-228	1.79	pCi/g	0.104	J	0.0574	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Thorium-228	1.37	pCi/g	0.0801	J	0.0356	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Thorium-230	1.05	pCi/g	0.0774	J	0.0539	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Thorium-230	0.966	pCi/g	0.0651	J	0.0334	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Thorium-232	1.5	pCi/g	0.092	J	0.043	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Thorium-232	1.44	pCi/g	0.0796	J	0.0418	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Toluene	0.71	ug/kg		U	0.71	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Toluene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Total Xylene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	trans-1,2-Dichloroethene	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	trans-1,3-Dichloropropene	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Trichloroethene	0.24	ug/kg		U	0.24	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Trichlorofluoromethane	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Uranium	0.52	mg/kg			0.0014	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Uranium	0.44	mg/kg			0.0013	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Uranium-233/234	0.898	pCi/g	0.0481	J	0.0246	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Uranium-233/234	0.745	pCi/g	0.0389	J	0.0193	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Uranium-235	0.0348	pCi/g	0.0123	U	0.0389	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Uranium-235	0.0274	pCi/g	0.00898	U	0.0239	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Uranium-236	0.00852	pCi/g	0.00635	U	0.0272	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Uranium-236	0.0112	pCi/g	0.00671	U	0.0275	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-20-4.5	RADS	Uranium-238	0.807	pCi/g	0.0455	J	0.0195	2.5	4.5	SOIL	FR	SPS		9/26/2011
WD-SB-24	WDSB24-04-4.5	RADS	Uranium-238	0.784	pCi/g	0.0398	J	0.0154	2.5	4.5	SOIL	REG	SPS		9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Vanadium	34	mg/kg			0.094	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Vanadium	33	mg/kg			0.089	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	FR	SPS	U	9/26/2011
WD-SB-24	WDSB24-01-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-21-4.5	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	2.5	4.5	SOIL	FR	SPS	U	9/26/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-24	WDSB24-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/26/2011
WD-SB-24	WDSB24-19-4.5	METAL	Zinc	54	mg/kg			0.4	2.5	4.5	SOIL	FR	SPS	=	9/26/2011
WD-SB-24	WDSB24-03-4.5	METAL	Zinc	48	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS	=	9/26/2011
WD-SB-24	WDSB24-34-CU10	WETCHEM	Total Organic Carbon (TOC)	6.8	g/kg			1.7	19.3	19.8	SOLID	REG	GRA	=	9/26/2011
WD-SB-24	WDSB24-09-CU10	GTEC	Cation Exchange Capacity	0.138	meq/g			0.00134	19.8	20.4	SOLID	REG	GRA		9/26/2011
WD-SB-24	WDSB24-07-CU10	WETCHEM	Distribution coefficient, Kd, Tc-99	2.82	mL/g				20.4	21	SOLID	REG	GRA		9/26/2011
WD-SB-24	WDSB24-07-CU10	WETCHEM	Distribution coefficient, Kd, Uranium	1.86	mL/g				20.4	21	SOLID	REG	GRA		9/26/2011
WD-SB-24	WDSB24-34-SU10	WETCHEM	Total Organic Carbon (TOC)	2.1	g/kg		B	1.7	118.6	119	SOLID	REG	GRA	J	9/27/2011
WD-SB-24	WDSB24-09-SU10	GTEC	Cation Exchange Capacity	0.122	meq/g			0.00134	119	119.4	SOLID	REG	GRA		9/27/2011
WD-SB-24	WDSB24-07-SU10	WETCHEM	Distribution coefficient, Kd, Tc-99	130	mL/g				119.4	119.9	SOLID	REG	GRA		9/27/2011
WD-SB-24	WDSB24-07-SU10	WETCHEM	Distribution coefficient, Kd, Uranium	26.2	mL/g				119.4	119.9	SOLID	REG	GRA		9/27/2011
WD-SB-24	WDSB24-34-BE10	WETCHEM	Total Organic Carbon (TOC)	71	g/kg			1.7	138.4	138.9	SOLID	REG	GRA	=	9/28/2011
WD-SB-24	WDSB24-09-BE10	GTEC	Cation Exchange Capacity	0.00755	meq/g			0.00134	138.9	139.4	SOLID	REG	GRA		9/28/2011
WD-SB-24	WDSB24-07-BE10	WETCHEM	Distribution coefficient, Kd, Tc-99	2.92	mL/g				139.4	139.9	SOLID	REG	GRA		9/28/2011
WD-SB-24	WDSB24-07-BE10	WETCHEM	Distribution coefficient, Kd, Uranium	1.73	mL/g				139.4	139.9	SOLID	REG	GRA		9/28/2011
WD-SB-25	WDSB25-06-2.0	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	1,2,3-Trichloropropane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	1,2-Dichloroethane	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Acetone	5.1	ug/kg		U	5.1	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Alpha activity	4.76	pCi/g	0.718	J	2.26	0	2	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Aluminum	9900	mg/kg			1.4	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Americium-241	0.0294	pCi/g	0.0125	U	0.0475	0	2	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Antimony	0.35	mg/kg		U	0.35	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Arsenic	11	mg/kg			0.043	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Barium	77	mg/kg			0.07	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Benzaldehyde	66	ug/kg		U	66	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Benzene	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Benzenemethanol	18	ug/kg		J	9.9	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Benzoic acid	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-25	WDSB25-03-2.0	METAL	Beryllium	0.8	mg/kg			0.031	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Beta activity	5.03	pCi/g	0.696		2.62	0	2	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Bromomethane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Cadmium	0.038	mg/kg		U	0.038	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Calcium	1200	mg/kg			13	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-09-2.0	GTEC	Cation Exchange Capacity	0.0699	meq/g			0.0021	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Cesium-137	0.0778	pCi/g	0.0658	U	0.211	0	2	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Chloroethane	0.85	ug/kg		U	0.85	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Chloromethane	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Chromium	17	mg/kg			0.054	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Cobalt	11	mg/kg			0.093	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Copper	8.5	mg/kg			0.2	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Dibromomethane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-07-2.0	WETCHEM	Distribution coefficient, Kd, Tc-99	3.08	mL/g				0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-07-2.0	WETCHEM	Distribution coefficient, Kd, Uranium	11.8	mL/g				0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Iron	24000	mg/kg			3.5	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Lead	23	mg/kg			0.25	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	M + P Xylene	0.99	ug/kg		U	0.99	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Magnesium	1000	mg/kg			3.4	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Manganese	570	mg/kg			0.093	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Mercury	0.031	mg/kg			0.0053	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Methylene chloride	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Molybdenum	0.95	mg/kg		B	0.24	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Neptunium-237	0	pCi/g	0.0032	U	0.0216	0	2	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Nickel	11	mg/kg			0.11	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Phenol	23	ug/kg		J	18	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Plutonium-238	0	pCi/g	0.00493	U	0.0266	0	2	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Plutonium-239/240	0.00696	pCi/g	0.00603	U	0.0266	0	2	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-25	WDSB25-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Selenium	0.47	mg/kg			0.11	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Sodium	55	mg/kg		U	55	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Styrene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Technetium-99	0.297	pCi/g	0.165	U	0.543	0	2	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Thallium	0.16	mg/kg			0.0029	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Thorium-228	1.17	pCi/g	0.0538	J	0.0428	0	2	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Thorium-230	1.25	pCi/g	0.0547	J	0.0227	0	2	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Thorium-232	1.11	pCi/g	0.0514	J	0.0181	0	2	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Toluene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	WETCHEM	Total Organic Carbon (TOC)	7.3	g/kg			1.7	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Total Xylene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Trichlorofluoromethane	0.99	ug/kg		U	0.99	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Uranium	0.96	mg/kg			0.0013	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Uranium-233/234	1.01	pCi/g	0.046	J	0.0159	0	2	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Uranium-235	0.0386	pCi/g	0.0106	J	0.0246	0	2	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Uranium-236	0.00923	pCi/g	0.00516	U	0.0177	0	2	SOIL	REG	SPS	UJ	8/31/2011
WD-SB-25	WDSB25-04-2.0	RADS	Uranium-238	0.973	pCi/g	0.045	J	0.0159	0	2	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Vanadium	15	mg/kg			0.087	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-2.0	METAL	Zinc	37	mg/kg			0.37	0	2	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25RAD-0.5	RADS	Technetium-99	0.0302	pCi/g	0.0638	U	0.213	0.4	0.8	SOIL	REG	AUG	U	4/28/2011
WD-SB-25	WDSB25RAD-0.5	METAL	Total Uranium	2.54	ug/g	0		0.0235	0.4	0.8	SOIL	REG	AUG	=	4/28/2011
WD-SB-25	WDSB25RAD-0.5	RADS	Uranium-233/234	0.86	pCi/g	0.0248		0.00548	0.4	0.8	SOIL	REG	AUG	=	4/28/2011
WD-SB-25	WDSB25RAD-0.5	RADS	Uranium-235	0.0442	pCi/g	0.00631	J	0.00676	0.4	0.8	SOIL	REG	AUG	J	4/28/2011
WD-SB-25	WDSB25RAD-0.5	RADS	Uranium-236	0.00634	pCi/g	0.00238	U	0.00607	0.4	0.8	SOIL	REG	AUG	U	4/28/2011
WD-SB-25	WDSB25RAD-0.5	RADS	Uranium-238	0.848	pCi/g	0.0246		0.00683	0.4	0.8	SOIL	REG	AUG	=	4/28/2011
WD-SB-25	WDSB25RAD-2.0	RADS	Technetium-99	-0.0971	pCi/g	0.0647	U	0.221	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-25	WDSB25RAD-2.0	METAL	Total Uranium	3.29	ug/g	0		0.0203	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-25	WDSB25RAD-2.0	RADS	Uranium-233/234	1.09	pCi/g	0.0285		0.0092	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-25	WDSB25RAD-2.0	RADS	Uranium-235	0.0489	pCi/g	0.00678	J	0.00706	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-25	WDSB25RAD-2.0	RADS	Uranium-236	0.0124	pCi/g	0.00342	J	0.00794	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-25	WDSB25RAD-2.0	RADS	Uranium-238	1.1	pCi/g	0.0286		0.0057	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-25	WDSB25-06-4.5	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2,4,5-Trichlorophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2,4,6-Trichlorophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2,4-Dichlorophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2-Chloronaphthalene	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	2-Hexanone	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	2-Nitrophenol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS		8/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-25	WDSB25-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	4-Nitrophenol	95	ug/kg		U	95	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Acetone	9.2	ug/kg		J	5.2	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Acrolein	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Alpha activity	6.49	pCi/g	0.818		2.18	2.5	4.5	SOIL	REG	SPS	=	8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Aluminum	9700	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Americium-241	0.0204	pCi/g	0.0102	U	0.0412	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Antimony	0.37	mg/kg		U	0.37	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Arsenic	29	mg/kg			0.046	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Barium	51	mg/kg			0.074	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Benzaldehyde	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Benzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Benzenemethanol	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Beryllium	0.76	mg/kg			0.032	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Beta activity	4.46	pCi/g	0.658	J	2.48	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Bromoform	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Cadmium	0.04	mg/kg		U	0.04	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Calcium	1400	mg/kg			14	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-09-4.5	GTEC	Cation Exchange Capacity	0.276	meq/g			0.00213	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Cesium-137	0.0529	pCi/g	0.0812	U	0.254	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Chloroethane	0.86	ug/kg		U	0.86	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Chloromethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Chromium	16	mg/kg			0.056	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Cobalt	14	mg/kg			0.097	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Copper	14	mg/kg			0.21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-07-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	4.62	mL/g				2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-07-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	58.5	mL/g				2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Ethyl methacrylate	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Hexachlorobutadiene	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Iron	27000	mg/kg			3.7	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Lead	15	mg/kg			0.26	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Magnesium	1400	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS		8/31/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-25	WDSB25-03-4.5	METAL	Manganese	350	mg/kg			0.097	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Mercury	0.014	mg/kg		B	0.005	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Methylene chloride	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Molybdenum	0.53	mg/kg		B	0.25	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00375	U	0.0203	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Nickel	18	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Phenol	20	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Plutonium-238	0.0067	pCi/g	0.0058	U	0.0256	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Plutonium-239/240	0.0134	pCi/g	0.00749	U	0.0256	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Selenium	0.3	mg/kg		B	0.12	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Silver	0.16	mg/kg		U	0.16	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Sodium	57	mg/kg		U	57	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Styrene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Technetium-99	0.0816	pCi/g	0.161	U	0.539	2.5	4.5	SOIL	REG	SPS	U	8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Thallium	0.14	mg/kg			0.0032	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Thorium-228	1.31	pCi/g	0.0695	J	0.0798	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Thorium-230	1.34	pCi/g	0.0683	J	0.033	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Thorium-232	1.3	pCi/g	0.0671	J	0.0263	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Toluene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	WETCHEM	Total Organic Carbon (TOC)	4.8	g/kg			1.7	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Total Xylene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Uranium	0.57	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Uranium-233/234	1.02	pCi/g	0.0486	J	0.0176	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Uranium-235	0.0483	pCi/g	0.012	J	0.0217	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Uranium-236	0	pCi/g	0.00361	U	0.0244	2.5	4.5	SOIL	REG	SPS	UJ	8/31/2011
WD-SB-25	WDSB25-04-4.5	RADS	Uranium-238	0.946	pCi/g	0.0467	J	0.0219	2.5	4.5	SOIL	REG	SPS	J	8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Vanadium	18	mg/kg			0.091	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-06-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-25	WDSB25-03-4.5	METAL	Zinc	53	mg/kg			0.39	2.5	4.5	SOIL	REG	SPS		8/31/2011
WD-SB-26	WDSB26-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	1,2-Dichloroethane	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/28/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-26	WDSB26-01-2.0	VOA	2-Hexanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	4-Nitrobenzenamine	67	ug/kg		U	67	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	4-Nitrophenol	90	ug/kg		U	90	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Acenaphthene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Acetone	5.4	ug/kg		J	4.7	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Acrolein	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Alpha activity	3.88	pCi/g	0.66	J	2.3	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Aluminum	12000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Americium-241	0.00896	pCi/g	0.00896	U	0.043	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Antimony	0.34	mg/kg		B	0.33	0	2	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Arsenic	16	mg/kg			0.046	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Barium	63	mg/kg			0.067	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Benzaldehyde	62	ug/kg		U	62	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Benzene	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Benzenemethanol	21	ug/kg		J	9.3	0	2	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Beryllium	0.61	mg/kg			0.029	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Beta activity	0.35	pCi/g	0.534	U	2.87	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Bromoform	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Bromomethane	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Cadmium	0.055	mg/kg		B	0.036	0	2	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Calcium	190	mg/kg			12	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Carbazole	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Cesium-137	0.0529	pCi/g	0.0529	U	0.168	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Chloroethane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Chloroform	0.26	ug/kg		U	0.26	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Chloromethane	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Chromium	16	mg/kg			0.051	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Chrysene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Cobalt	8.6	mg/kg			0.088	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Copper	16	mg/kg			0.19	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Dibromomethane	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Diphenyldiazene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Fluoranthene	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/28/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-26	WDSB26-02-2.0	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Iodomethane	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Iron	24000	mg/kg			3.3	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Lead	16	mg/kg			0.24	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	M + P Xylene	0.92	ug/kg		U	0.92	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Magnesium	1400	mg/kg			3.2	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Manganese	310	mg/kg			0.088	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Mercury	0.021	mg/kg			0.0054	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Methylene chloride	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Molybdenum	0.5	mg/kg		B	0.23	0	2	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Neptunium-237	0	pCi/g	0.0044	U	0.0238	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Nickel	15	mg/kg			0.11	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Nitrobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Phenol	29	ug/kg		J	17	0	2	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Plutonium-238	0.0108	pCi/g	0.00807	U	0.0346	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Plutonium-239/240	0.0108	pCi/g	0.00722	U	0.0276	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Selenium	0.29	mg/kg		B	0.12	0	2	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Sodium	63	mg/kg		B	52	0	2	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Styrene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Technetium-99	0.0287	pCi/g	0.155	U	0.521	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Thallium	0.15	mg/kg			0.0032	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Thorium-228	1.43	pCi/g	0.088	J	0.0413	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Thorium-230	0.852	pCi/g	0.066	J	0.0388	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Thorium-232	1.22	pCi/g	0.0788	J	0.0387	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Toluene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Total Xylene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Trichloroethene	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Trichlorofluoromethane	0.92	ug/kg		U	0.92	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Uranium	0.69	mg/kg			0.0014	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Uranium-233/234	0.703	pCi/g	0.0413	J	0.0185	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Uranium-235	0.0478	pCi/g	0.0123	J	0.0229	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Uranium-236	0.00537	pCi/g	0.00537	U	0.0257	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-2.0	RADS	Uranium-238	0.741	pCi/g	0.0424	J	0.0231	0	2	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Vanadium	32	mg/kg			0.082	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Vinyl acetate	0.94	ug/kg		U	0.94	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-2.0	METAL	Zinc	57	mg/kg			0.35	0	2	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26RAD-0.5	RADS	Technetium-99	-0.0674	pCi/g	0.065	U	0.221	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-26	WDSB26RAD-0.5	METAL	Total Uranium	2.83	ug/g	0		0.0218	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-26	WDSB26RAD-0.5	RADS	Uranium-233/234	0.958	pCi/g	0.0277		0.00613	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-26	WDSB26RAD-0.5	RADS	Uranium-235	0.0455	pCi/g	0.00678	J	0.00757	0.4	0.8	SOIL	REG	AUG	J	5/2/2011
WD-SB-26	WDSB26RAD-0.5	RADS	Uranium-236	0.00799	pCi/g	0.00281	U	0.00679	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-26	WDSB26RAD-0.5	RADS	Uranium-238	0.944	pCi/g	0.0275		0.00611	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-26	WDSB26RAD-2.0	RADS	Technetium-99	-0.0507	pCi/g	0.0651	U	0.221	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-26	WDSB26RAD-2.0	METAL	Total Uranium	2.76	ug/g	0		0.0206	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-26	WDSB26RAD-2.0	RADS	Uranium-233/234	0.994	pCi/g	0.0269		0.00558	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-26	WDSB26RAD-2.0	RADS	Uranium-235	0.0423	pCi/g	0.0063	J	0.00862	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-26	WDSB26RAD-2.0	RADS	Uranium-236	0.00808	pCi/g	0.00268	U	0.00618	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-26	WDSB26RAD-2.0	RADS	Uranium-238	0.922	pCi/g	0.0259		0.00556	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-26	WDSB26-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	9/28/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-26	WDSB26-01-4.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2,4,5-Trichlorophenol	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2,4,6-Trichlorophenol	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2,4-Dichlorophenol	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2-Chloronaphthalene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2-Chlorophenol	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	2-Nitrophenol	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	3,3'-Dichlorobenzidine	90	ug/kg		U	90	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	4-Chlorobenzenamine	82	ug/kg		U	82	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	4-Methylphenol	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	4-Nitrobenzenamine	73	ug/kg		U	73	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	4-Nitrophenol	97	ug/kg		U	97	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Acetone	5.3	ug/kg		U	5.3	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Alpha activity	4.97	pCi/g	0.735	J	2.29	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Aluminum	11000	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Americium-241	0.011	pCi/g	0.00777	U	0.0338	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Antimony	0.38	mg/kg		B	0.36	2.5	4.5	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Arsenic	35	mg/kg			0.048	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Barium	35	mg/kg			0.071	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Benz(a)anthracene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Benzaldehyde	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Benzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Benzenemethanol	17	ug/kg		J	10	2.5	4.5	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Benzoic acid	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Beryllium	1	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Beta activity	2.17	pCi/g	0.606	U	2.81	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Bis(2-chloroethyl) ether	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Bromoform	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Cadmium	0.041	mg/kg		B	0.038	2.5	4.5	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Calcium	240	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Carbazole	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Cesium-137	-0.0396	pCi/g	0.0547	U	0.146	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Chloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Chloromethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	9/28/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-26	WDSB26-03-4.5	METAL	Chromium	16	mg/kg			0.054	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Chrysene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Cobalt	11	mg/kg			0.093	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Copper	34	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Dibenzofuran	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Dibromomethane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Diethyl phthalate	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Dimethyl phthalate	23	ug/kg		U	23	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Diphenyldiazene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Fluoranthene	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Hexachlorobenzene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Hexachlorobutadiene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Iron	43000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Lead	17	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Magnesium	1600	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Manganese	200	mg/kg			0.093	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Mercury	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Methylene chloride	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Molybdenum	0.28	mg/kg		B	0.24	2.5	4.5	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Naphthalene	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00379	U	0.0257	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Nickel	26	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Nitrobenzene	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	PPCB	PCB-1221	0.016	mg/kg		U	0.016	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Pentachlorophenol	330	ug/kg		U	330	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Phenol	22	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Plutonium-238	0.00777	pCi/g	0.00579	U	0.0248	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Plutonium-239/240	0.0207	pCi/g	0.00818	U	0.0248	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Selenium	0.18	mg/kg		B	0.13	2.5	4.5	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Sodium	110	mg/kg		B	55	2.5	4.5	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Styrene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Technetium-99	0.232	pCi/g	0.157	U	0.517	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Thallium	0.11	mg/kg			0.0033	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Thorium-228	1.45	pCi/g	0.0799	J	0.0418	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Thorium-230	0.952	pCi/g	0.0626	J	0.0314	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Thorium-232	1.11	pCi/g	0.0676	J	0.0313	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Toluene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	trans-1,3-Dichloropropene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.65	ug/kg		U	0.65	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Uranium	1.8	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Uranium-233/234	0.653	pCi/g	0.038	J	0.0169	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Uranium-235	0.0245	pCi/g	0.00861	U	0.0208	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Uranium-236	0.00489	pCi/g	0.00423	U	0.0187	2.5	4.5	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-04-4.5	RADS	Uranium-238	0.672	pCi/g	0.0386	J	0.021	2.5	4.5	SOIL	REG	SPS		9/28/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-26	WDSB26-03-4.5	METAL	Vanadium	29	mg/kg			0.088	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-4.5	METAL	Zinc	61	mg/kg			0.37	2.5	4.5	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	1,1-Dichloroethene	0.51	ug/kg		U	0.51	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2,4,5-Trichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2,4,6-Trichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2,4-Dichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2-Chloronaphthalene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	2-Hexanone	4.3	ug/kg		U	4.3	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	2-Hexanone	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	2-Nitrophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	3,3'-Dichlorobenzidine	90	ug/kg		U	90	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	4-Chlorobenzenamine	82	ug/kg		U	82	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	9/28/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-26	WDSB26-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	4-Nitrobenzenamine	73	ug/kg		U	73	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	4-Nitrophenol	97	ug/kg		U	97	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Acetone	12	ug/kg		J	4.7	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Acetone	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Acrolein	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Alpha activity	4.99	pCi/g	0.739	J	2.3	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Alpha activity	4.55	pCi/g	0.489	J	1.19	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Aluminum	11000	mg/kg			1.4	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Aluminum	10000	mg/kg			1.4	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Americium-241	0.0133	pCi/g	0.00938	U	0.0408	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Americium-241	0.0237	pCi/g	0.00936	U	0.0283	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Antimony	0.35	mg/kg		U	0.35	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Antimony	0.34	mg/kg		U	0.34	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Arsenic	17	mg/kg			0.048	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Arsenic	17	mg/kg			0.049	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Barium	96	mg/kg			0.07	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Barium	39	mg/kg			0.067	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Benzaldehyde	67	ug/kg		U	67	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Benzene	0.41	ug/kg		U	0.41	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Benzene	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Benzenemethanol	22	ug/kg		J	9.9	10	12	SOIL	FR	SPS	J	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Benzenemethanol	18	ug/kg		J	10	10	12	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Beryllium	1.1	mg/kg			0.031	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Beryllium	0.79	mg/kg			0.029	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Beta activity	3.22	pCi/g	0.657	U	2.85	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Beta activity	1.79	pCi/g	0.346	J	1.42	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Bis(2-chloroethyl) ether	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Bromoform	0.2	ug/kg		U	0.2	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Bromoform	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Bromomethane	0.44	ug/kg		U	0.44	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Bromomethane	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Cadmium	0.077	mg/kg		B	0.038	10	12	SOIL	FR	SPS	J	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Cadmium	0.042	mg/kg		B	0.036	10	12	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Calcium	780	mg/kg			13	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Calcium	730	mg/kg			12	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	9/28/2011

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-26	WDSB26-21-12.0	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Cesium-137	-0.191	pCi/g	0.0883	U	0.2	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Cesium-137	0.046	pCi/g	0.0676	U	0.207	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Chloroethane	0.78	ug/kg		U	0.78	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Chloroethane	0.78	ug/kg		U	0.78	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Chloroform	0.25	ug/kg		U	0.25	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Chloroform	0.25	ug/kg		U	0.25	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Chloromethane	0.67	ug/kg		U	0.67	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Chloromethane	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Chromium	16	mg/kg			0.054	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Chromium	17	mg/kg			0.051	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Cobalt	28	mg/kg			0.093	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Cobalt	11	mg/kg			0.088	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Copper	27	mg/kg			0.2	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Copper	24	mg/kg			0.19	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Dibromomethane	0.73	ug/kg		U	0.73	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Dibromomethane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Ethyl methacrylate	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Ethylbenzene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Hexachlorobutadiene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Iodomethane	0.38	ug/kg		U	0.38	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Iodomethane	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Iron	24000	mg/kg			3.5	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Iron	18000	mg/kg			3.4	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Lead	21	mg/kg			0.25	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Lead	26	mg/kg			0.24	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	M + P Xylene	0.91	ug/kg		U	0.91	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	M + P Xylene	0.91	ug/kg		U	0.91	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Magnesium	3200	mg/kg			3.4	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Magnesium	3100	mg/kg			3.3	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Manganese	370	mg/kg			0.093	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Manganese	130	mg/kg			0.088	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Mercury	0.0054	mg/kg		U	0.0054	10	12	SOIL	FR	SPS	U	9/28/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-26	WDSB26-03-12.0	METAL	Mercury	0.027	mg/kg			0.0051	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Methylene chloride	0.65	ug/kg		U	0.65	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Methylene chloride	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Molybdenum	0.24	mg/kg		U	0.24	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Molybdenum	0.75	mg/kg		B	0.23	10	12	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Neptunium-237	0.00349	pCi/g	0.00493	U	0.0267	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Neptunium-237	0	pCi/g	0.00569	U	0.035	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Nickel	38	mg/kg			0.11	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Nickel	25	mg/kg			0.11	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Phenol	27	ug/kg		J	18	10	12	SOIL	FR	SPS	J	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Phenol	23	ug/kg		J	18	10	12	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Plutonium-238	-0.0186	pCi/g	-0.00909	U	0.0657	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Plutonium-238	0.0113	pCi/g	0.00751	U	0.0287	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Plutonium-239/240	0.0111	pCi/g	0.00829	U	0.0355	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Plutonium-239/240	0.0263	pCi/g	0.0106	U	0.0287	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-18-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-18-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Selenium	0.13	mg/kg		U	0.13	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Selenium	0.13	mg/kg		U	0.13	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Sodium	160	mg/kg		B	55	10	12	SOIL	FR	SPS	J	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Sodium	140	mg/kg		B	52	10	12	SOIL	REG	SPS	J	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Styrene	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Styrene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Technetium-99	0.0171	pCi/g	0.151	U	0.506	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Technetium-99	0.155	pCi/g	0.151	U	0.501	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Tetrachloroethene	0.51	ug/kg		U	0.51	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Thallium	0.18	mg/kg			0.0033	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Thallium	0.14	mg/kg			0.0034	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Thorium-228	1.99	pCi/g	0.108	J	0.0448	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Thorium-228	1.43	pCi/g	0.0804	J	0.0429	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Thorium-230	1.1	pCi/g	0.0782	J	0.0422	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Thorium-230	1.08	pCi/g	0.0675	J	0.0323	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Thorium-232	1.83	pCi/g	0.1	J	0.0421	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Thorium-232	1.41	pCi/g	0.0771	J	0.0322	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Toluene	0.6	ug/kg		U	0.6	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Toluene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Total Xylene	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Total Xylene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	trans-1,3-Dichloropropene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	9/28/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-26	WDSB26-21-12.0	VOA	Trichloroethene	0.2	ug/kg		U	0.2	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Trichloroethene	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Trichlorofluoromethane	0.91	ug/kg		U	0.91	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Trichlorofluoromethane	0.91	ug/kg		U	0.91	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Uranium	0.59	mg/kg			0.0015	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Uranium	0.58	mg/kg			0.0015	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Uranium-233/234	0.869	pCi/g	0.0479	J	0.0202	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Uranium-233/234	0.913	pCi/g	0.0487	J	0.0198	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Uranium-235	0.0325	pCi/g	0.0108	U	0.0249	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Uranium-235	0.0512	pCi/g	0.0132	J	0.0245	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Uranium-236	0.00875	pCi/g	0.00584	U	0.0223	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Uranium-236	0.00575	pCi/g	0.00575	U	0.0275	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-20-12.0	RADS	Uranium-238	0.85	pCi/g	0.0474	J	0.0251	10	12	SOIL	FR	SPS		9/28/2011
WD-SB-26	WDSB26-04-12.0	RADS	Uranium-238	0.832	pCi/g	0.0464	J	0.0198	10	12	SOIL	REG	SPS		9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Vanadium	22	mg/kg			0.087	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Vanadium	21	mg/kg			0.083	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Vinyl acetate	0.93	ug/kg		U	0.93	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Vinyl acetate	0.94	ug/kg		U	0.94	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-21-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	FR	SPS	U	9/28/2011
WD-SB-26	WDSB26-01-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	9/28/2011
WD-SB-26	WDSB26-19-12.0	METAL	Zinc	110	mg/kg			0.37	10	12	SOIL	FR	SPS	=	9/28/2011
WD-SB-26	WDSB26-03-12.0	METAL	Zinc	110	mg/kg			0.35	10	12	SOIL	REG	SPS	=	9/28/2011
WD-SB-27	WDSB27-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Acetone	5.4	ug/kg		U	5.4	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Acrolein	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Alpha activity	4.08	pCi/g	0.681	J	2.51	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Aluminum	18000	mg/kg			1.4	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Americium-241	-0.00309	pCi/g	0.0103	U	0.0591	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Antimony	0.33	mg/kg		U	0.33	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Arsenic	11	mg/kg			0.043	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Barium	57	mg/kg			0.067	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Benzaldehyde	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	9/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-27	WDSB27-01-2.0	VOA	Benzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Beryllium	0.63	mg/kg			0.029	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Beta activity	2.1	pCi/g	0.593	U	2.75	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	93	ug/kg		BJ	44	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Cadmium	0.052	mg/kg		B	0.036	0	2	SOIL	REG	SPS	J	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Calcium	46	mg/kg			12	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Cesium-137	0.00271	pCi/g	0.106	U	0.309	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Chloroethane	0.89	ug/kg		U	0.89	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Chloromethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Chromium	20	mg/kg			0.051	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Cobalt	6.1	mg/kg			0.088	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Copper	14	mg/kg			0.19	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Dibromomethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Iodomethane	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Iron	24000	mg/kg			3.3	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Lead	16	mg/kg			0.24	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Magnesium	1500	mg/kg			3.2	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Manganese	150	mg/kg			0.088	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Mercury	0.036	mg/kg			0.0049	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Methylene chloride	1.9	ug/kg		BJ	0.75	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Molybdenum	1.1	mg/kg		B	0.23	0	2	SOIL	REG	SPS	J	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Neptunium-237	0.00267	pCi/g	0.00378	U	0.0204	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Nickel	12	mg/kg			0.11	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	PPCB	PCB-1242	0.0086	mg/kg		U	0.0086	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Phenol	39	ug/kg		J	17	0	2	SOIL	REG	SPS	J	9/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-27	WDSB27-04-2.0	RADS	Plutonium-238	0.00812	pCi/g	0.00994	U	0.0499	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Plutonium-239/240	0.0162	pCi/g	0.00994	U	0.0388	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-02-2.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Selenium	0.96	mg/kg			0.11	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Silver	0.14	mg/kg		U	0.14	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Sodium	69	mg/kg		B	52	0	2	SOIL	REG	SPS	J	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Styrene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Technetium-99	0.269	pCi/g	0.162	U	0.532	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Thallium	0.23	mg/kg			0.0029	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Thorium-228	1.19	pCi/g	0.0694	J	0.057	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Thorium-230	1.17	pCi/g	0.0662	J	0.0286	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Thorium-232	0.94	pCi/g	0.0594	J	0.0357	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Toluene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Total Xylene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Uranium	0.94	mg/kg			0.0013	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Uranium-233/234	0.938	pCi/g	0.0511	J	0.0393	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Uranium-235	0.054	pCi/g	0.0139	J	0.0258	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Uranium-236	0.0182	pCi/g	0.00801	U	0.0232	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-2.0	RADS	Uranium-238	0.836	pCi/g	0.0478	J	0.0208	0	2	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Vanadium	36	mg/kg			0.082	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-2.0	METAL	Zinc	43	mg/kg			0.35	0	2	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27RAD-0.5	RADS	Technetium-99	-0.0853	pCi/g	0.0644	U	0.22	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-27	WDSB27RAD-0.5	METAL	Total Uranium	2.69	ug/g	0		0.0165	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-27	WDSB27RAD-0.5	RADS	Uranium-233/234	0.87	pCi/g	0.023		0.00464	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-27	WDSB27RAD-0.5	RADS	Uranium-235	0.0456	pCi/g	0.00589	J	0.00572	0.4	0.8	SOIL	REG	AUG	J	5/2/2011
WD-SB-27	WDSB27RAD-0.5	RADS	Uranium-236	0.0047	pCi/g	0.00201	U	0.00643	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-27	WDSB27RAD-0.5	RADS	Uranium-238	0.897	pCi/g	0.0233		0.00462	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-27	WDSB27RAD-2.0	RADS	Technetium-99	0.0229	pCi/g	0.0655	U	0.219	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-27	WDSB27RAD-2.0	METAL	Total Uranium	2.93	ug/g	0		0.0228	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-27	WDSB27RAD-2.0	RADS	Uranium-233/234	1.09	pCi/g	0.0302		0.00643	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-27	WDSB27RAD-2.0	RADS	Uranium-235	0.058	pCi/g	0.00782	J	0.00793	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-27	WDSB27RAD-2.0	RADS	Uranium-236	0.00558	pCi/g	0.00246	U	0.00712	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-27	WDSB27RAD-2.0	RADS	Uranium-238	0.975	pCi/g	0.0286		0.0064	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-27	WDSB27-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	2-Hexanone	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS	U	9/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-27	WDSB27-02-4.5	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	4-Nitrophenol	93	ug/kg		U	93	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Acetone	13	ug/kg		J	5.3	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Alpha activity	5.59	pCi/g	0.819		2.71	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Aluminum	15000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Americium-241	0.00333	pCi/g	0.00882	U	0.0479	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Arsenic	7.4	mg/kg			0.046	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Barium	56	mg/kg			0.072	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Benzaldehyde	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Benzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Benzenemethanol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Beryllium	0.73	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Beta activity	2.99	pCi/g	0.651	U	2.85	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	89	ug/kg		BJ	44	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Cadmium	0.039	mg/kg		U	0.039	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Calcium	83	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Cesium-137	-0.106	pCi/g	0.0595	U	0.141	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Chloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Chloromethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Chromium	18	mg/kg			0.055	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Cobalt	8.7	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Copper	20	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Dibromomethane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Iron	18000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Lead	13	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Magnesium	2600	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	9/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-27	WDSB27-03-4.5	METAL	Manganese	70	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Mercury	0.0067	mg/kg		B	0.005	2.5	4.5	SOIL	REG	SPS	J	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Methylene chloride	1.7	ug/kg		BJ	0.74	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Molybdenum	0.25	mg/kg		U	0.25	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Neptunium-237	-0.00304	pCi/g	0.00527	U	0.0374	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Nickel	21	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	PPCB	PCB-1242	0.0086	mg/kg		U	0.0086	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Phenol	35	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS	J	9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Plutonium-238	0.00423	pCi/g	0.0127	U	0.0683	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Plutonium-239/240	0.0169	pCi/g	0.0103	U	0.0405	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Selenium	1.4	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Sodium	130	mg/kg		B	56	2.5	4.5	SOIL	REG	SPS	J	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Styrene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Technetium-99	-0.267	pCi/g	0.155	U	0.533	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Thallium	0.13	mg/kg			0.0032	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Thorium-228	1.49	pCi/g	0.0831	J	0.0564	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Thorium-230	1.03	pCi/g	0.0669	J	0.0331	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Thorium-232	1.16	pCi/g	0.0708	J	0.033	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Toluene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Total Xylene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Uranium	0.51	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Uranium-233/234	1.03	pCi/g	0.0598	J	0.0265	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Uranium-235	0.0555	pCi/g	0.0176	U	0.0526	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Uranium-236	0	pCi/g	0.00543	U	0.0293	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-4.5	RADS	Uranium-238	0.99	pCi/g	0.0585	J	0.0264	2.5	4.5	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Vanadium	26	mg/kg			0.089	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-4.5	METAL	Zinc	69	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	2-Chloroethyl vinyl ether	4.6	ug/kg		U	4.6	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	2-Hexanone	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS	U	9/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-27	WDSB27-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Acetone	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Alpha activity	3.67	pCi/g	0.695	J	2.74	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Aluminum	13000	mg/kg			1.4	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Americium-241	0.0224	pCi/g	0.00906	U	0.0245	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Antimony	0.36	mg/kg		U	0.36	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Arsenic	21	mg/kg			0.046	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Barium	44	mg/kg			0.071	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Benzaldehyde	66	ug/kg		U	66	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Benzene	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Beryllium	0.98	mg/kg			0.031	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Beta activity	0.839	pCi/g	0.559	U	2.92	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	100	ug/kg		BJ	45	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Bromomethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Cadmium	0.064	mg/kg		B	0.038	10	12	SOIL	REG	SPS	J	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Calcium	1000	mg/kg			13	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Cesium-137	0.0234	pCi/g	0.0499	U	0.15	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Chloroethane	0.81	ug/kg		U	0.81	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Chloroform	0.27	ug/kg		U	0.27	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Chloromethane	0.7	ug/kg		U	0.7	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Chromium	19	mg/kg			0.054	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Cobalt	12	mg/kg			0.093	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Copper	28	mg/kg			0.2	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Dibromomethane	0.77	ug/kg		U	0.77	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	10	12	SOIL	REG	SPS	U	9/23/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-27	WDSB27-02-12.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Iodomethane	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Iron	26000	mg/kg			3.6	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Lead	14	mg/kg			0.25	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	M + P Xylene	0.95	ug/kg		U	0.95	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Magnesium	2900	mg/kg			3.5	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Manganese	280	mg/kg			0.093	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Mercury	0.032	mg/kg			0.0054	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Methylene chloride	1.1	ug/kg		BJ	0.69	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Molybdenum	0.41	mg/kg		B	0.24	10	12	SOIL	REG	SPS	J	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Neptunium-237	0.00531	pCi/g	0.0046	U	0.0203	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Nickel	30	mg/kg			0.11	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	PPCB	PCB-1242	0.0086	mg/kg		U	0.0086	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Phenol	28	ug/kg		J	18	10	12	SOIL	REG	SPS	J	9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Plutonium-238	-0.00364	pCi/g	-0.00814	U	0.0524	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Plutonium-239/240	0.0255	pCi/g	0.0103	U	0.0278	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-02-12.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Selenium	1.3	mg/kg			0.12	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Sodium	190	mg/kg		B	55	10	12	SOIL	REG	SPS	J	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Styrene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Technetium-99	-0.0316	pCi/g	0.158	U	0.532	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Thallium	0.14	mg/kg			0.0032	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Thorium-228	1.31	pCi/g	0.066	J	0.0404	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Thorium-230	1.01	pCi/g	0.0561	J	0.0237	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Thorium-232	1.07	pCi/g	0.0581	J	0.0445	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Toluene	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Total Xylene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Trichlorofluoromethane	0.95	ug/kg		U	0.95	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Uranium	0.59	mg/kg			0.0014	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Uranium-233/234	1.06	pCi/g	0.0556	J	0.0278	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Uranium-235	0.0429	pCi/g	0.016	U	0.0578	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Uranium-236	0.0257	pCi/g	0.0102	U	0.0308	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-04-12.0	RADS	Uranium-238	0.979	pCi/g	0.0536	J	0.0415	10	12	SOIL	REG	SPS		9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Vanadium	33	mg/kg			0.088	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Vinyl acetate	0.98	ug/kg		U	0.98	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-01-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	9/23/2011
WD-SB-27	WDSB27-03-12.0	METAL	Zinc	77	mg/kg			0.37	10	12	SOIL	REG	SPS	=	9/23/2011
WD-SB-28	WDSB28-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	1,2-Dichloroethane	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/24/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-28	WDSB28-02-2.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Acetone	5.2	ug/kg		U	5.2	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Alpha activity	5.11	pCi/g	0.526		1.34	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Aluminum	16000	mg/kg			1.5	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Americium-241	0.0183	pCi/g	0.00805	U	0.0233	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Antimony	0.37	mg/kg		U	0.37	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Arsenic	15	mg/kg			0.05	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Barium	63	mg/kg			0.075	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Benzaldehyde	66	ug/kg		U	66	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Benzene	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Benzenemethanol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Benzoic acid	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Beryllium	0.58	mg/kg			0.032	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Beta activity	-0.696	pCi/g	0.244	U	1.44	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	110	ug/kg		BJ	45	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Bromomethane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Cadmium	0.048	mg/kg		B	0.04	0	2	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Calcium	77	mg/kg			14	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Cesium-137	0.0551	pCi/g	0.0617	U	0.196	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Chloroethane	0.85	ug/kg		U	0.85	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Chloromethane	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Chromium	21	mg/kg			0.057	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Cobalt	6	mg/kg			0.098	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Copper	20	mg/kg			0.21	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Dibromomethane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS	U	9/24/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-28	WDSB28-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Iodomethane	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Iron	22000	mg/kg			3.7	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Lead	15	mg/kg			0.26	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Magnesium	1900	mg/kg			3.6	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Manganese	56	mg/kg			0.098	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Mercury	0.025	mg/kg			0.0054	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Methylene chloride	1.9	ug/kg		BJ	0.72	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Molybdenum	0.88	mg/kg		B	0.25	0	2	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Neptunium-237	0	pCi/g	0.00418	U	0.0226	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Nickel	17	mg/kg			0.12	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	PPCB	PCB-1232	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	PPCB	PCB-1242	0.0087	mg/kg		U	0.0087	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Phenol	33	ug/kg		J	18	0	2	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Plutonium-238	-0.00797	pCi/g	-0.0069	U	0.049	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Plutonium-239/240	0.0239	pCi/g	0.0105	U	0.0305	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-02-2.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Selenium	0.79	mg/kg			0.13	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Silver	0.16	mg/kg		U	0.16	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Sodium	96	mg/kg		B	58	0	2	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Styrene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Technetium-99	0.333	pCi/g	0.162	U	0.531	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Thallium	0.2	mg/kg			0.0034	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Thorium-228	1.16	pCi/g	0.0613	J	0.0395	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Thorium-230	1.09	pCi/g	0.0576	J	0.0232	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Thorium-232	0.865	pCi/g	0.0513	J	0.029	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Toluene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Total Xylene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Uranium	0.61	mg/kg			0.0015	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Uranium-233/234	0.835	pCi/g	0.0483	J	0.0213	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Uranium-235	0.0343	pCi/g	0.0114	U	0.0263	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Uranium-236	0.0154	pCi/g	0.00755	U	0.0236	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-2.0	RADS	Uranium-238	0.868	pCi/g	0.0492	J	0.0265	0	2	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Vanadium	43	mg/kg			0.092	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-2.0	METAL	Zinc	59	mg/kg			0.39	0	2	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28RAD-0.5	RADS	Technetium-99	-0.137	pCi/g	0.0632	U	0.218	0.4	0.8	SOIL	REG	AUG	J	5/2/2011
WD-SB-28	WDSB28RAD-0.5	METAL	Total Uranium	2.78	ug/g	0		0.0347	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-28	WDSB28RAD-0.5	RADS	Uranium-233/234	0.862	pCi/g	0.0332		0.00977	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-28	WDSB28RAD-0.5	RADS	Uranium-235	0.0457	pCi/g	0.00863	J	0.0121	0.4	0.8	SOIL	REG	AUG	J	5/2/2011
WD-SB-28	WDSB28RAD-0.5	RADS	Uranium-236	0.00142	pCi/g	0.002	U	0.0108	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-28	WDSB28RAD-0.5	RADS	Uranium-238	0.929	pCi/g	0.0344		0.00973	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-28	WDSB28RAD-2.0	RADS	Technetium-99	-0.0573	pCi/g	0.0641	U	0.217	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-28	WDSB28RAD-2.0	METAL	Total Uranium	2.93	ug/g	0		0.0352	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-28	WDSB28RAD-2.0	RADS	Uranium-233/234	0.877	pCi/g	0.0275		0.0106	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-28	WDSB28RAD-2.0	RADS	Uranium-235	0.0457	pCi/g	0.00704	J	0.00812	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-28	WDSB28RAD-2.0	RADS	Uranium-236	0.00953	pCi/g	0.00316	U	0.00729	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-28	WDSB28RAD-2.0	RADS	Uranium-238	0.977	pCi/g	0.029		0.0105	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-28	WDSB28-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	1,1,1-Trichloroethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	1,1,2-Trichloroethane	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	1,1-Dichloroethene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	1,2,3-Trichloropropane	0.82	ug/kg		U	0.82	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	1,2-Dichloroethane	0.71	ug/kg		U	0.71	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	1,2-Dichloropropane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	1,2-Dimethylbenzene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2,4,5-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2,4,6-Trichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2,4-Dichlorophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	2-Butanone	1.9	ug/kg		U	1.9	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	2-Chloroethyl vinyl ether	5.1	ug/kg		U	5.1	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2-Chloronaphthalene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	2-Hexanone	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	2-Nitrophenol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Acenaphthene	9.9	ug/kg		U	9.9	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Acetone	5.5	ug/kg		U	5.5	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Acrylonitrile	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Alpha activity	5.71	pCi/g	0.8		2.58	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Aluminum	7300	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Americium-241	0.0199	pCi/g	0.00943	U	0.035	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Antimony	0.35	mg/kg		U	0.35	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Arsenic	20	mg/kg			0.043	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Barium	35	mg/kg			0.07	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Benzene	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Benzenemethanol	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Beryllium	1.6	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Beta activity	0.453	pCi/g	0.525	U	2.74	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	93	ug/kg		BJ	44	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Bromomethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Cadmium	0.085	mg/kg		B	0.038	2.5	4.5	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Calcium	110	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	9/24/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-28	WDSB28-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Carbon disulfide	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Carbon tetrachloride	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Cesium-137	0.0715	pCi/g	0.0463	U	0.155	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Chlorobenzene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Chloroethane	0.9	ug/kg		U	0.9	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Chloromethane	0.78	ug/kg		U	0.78	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Chromium	13	mg/kg			0.054	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	cis-1,2-Dichloroethene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Cobalt	11	mg/kg			0.093	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Copper	18	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Dibromochloromethane	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Dibromomethane	0.85	ug/kg		U	0.85	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Dichlorodifluoromethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Ethyl methacrylate	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Ethylbenzene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Hexachlorobutadiene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Iodomethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Iron	83000	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Lead	37	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	M + P Xylene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Magnesium	1400	mg/kg			3.4	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Manganese	660	mg/kg			0.093	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Mercury	0.017	mg/kg			0.0052	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Methylene chloride	2.2	ug/kg		BJ	0.76	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Molybdenum	0.28	mg/kg		B	0.24	2.5	4.5	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Neptunium-237	0.00314	pCi/g	0.00544	U	0.0301	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Nickel	37	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Phenol	30	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Plutonium-238	0.00374	pCi/g	0.00529	U	0.0286	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Plutonium-239/240	0.0149	pCi/g	0.00835	U	0.0286	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Selenium	1.1	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Sodium	92	mg/kg		B	55	2.5	4.5	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Styrene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Technetium-99	0.0628	pCi/g	0.158	U	0.529	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Tetrachloroethene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Thallium	0.17	mg/kg			0.0029	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Thorium-228	1.53	pCi/g	0.0868	J	0.0695	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Thorium-230	1.17	pCi/g	0.0734	J	0.0437	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Thorium-232	1.29	pCi/g	0.0768	J	0.0436	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Toluene	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Total Xylene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	trans-1,2-Dichloroethene	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	trans-1,3-Dichloropropene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	9/24/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-28	WDSB28-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Trichlorofluoromethane	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Uranium	0.82	mg/kg			0.0013	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Uranium-233/234	0.867	pCi/g	0.0523	J	0.024	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Uranium-235	0.0465	pCi/g	0.014	J	0.0296	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Uranium-236	0.00348	pCi/g	0.00603	U	0.0333	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-04-4.5	RADS	Uranium-238	0.935	pCi/g	0.0543	J	0.03	2.5	4.5	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Vanadium	48	mg/kg			0.087	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-4.5	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	2.5	4.5	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-4.5	METAL	Zinc	86	mg/kg			0.37	2.5	4.5	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	1,1,1,2-Tetrachloroethane	0.57	ug/kg		U	0.57	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	1,1,1-Trichloroethane	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	1,1,2,2-Tetrachloroethane	0.62	ug/kg		U	0.62	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	1,1,2-Trichloroethane	0.89	ug/kg		U	0.89	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	1,1-Dichloroethene	0.6	ug/kg		U	0.6	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	1,2,3-Trichloropropane	0.82	ug/kg		U	0.82	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	1,2,4-Trichlorobenzene	1300	ug/kg		U	1300	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	1,2-Dichlorobenzene	1000	ug/kg		U	1000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	1,2-Dichloroethane	0.71	ug/kg		U	0.71	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	1,2-Dichloropropane	0.56	ug/kg		U	0.56	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	1,2-Dimethylbenzene	0.62	ug/kg		U	0.62	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	1,3-Dichlorobenzene	570	ug/kg		U	570	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	1,4-Dichlorobenzene	650	ug/kg		U	650	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2,3,4,6-Tetrachlorophenol	6500	ug/kg		U	6500	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2,4,5-Trichlorophenol	480	ug/kg		U	480	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2,4,6-Trichlorophenol	480	ug/kg		U	480	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2,4-Dichlorophenol	480	ug/kg		U	480	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2,4-Dimethylphenol	3100	ug/kg		U	3100	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2,4-Dinitrophenol	16000	ug/kg		U	16000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2,4-Dinitrotoluene	3100	ug/kg		U	3100	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2,6-Dinitrotoluene	1300	ug/kg		U	1300	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	2-Butanone	1.9	ug/kg		U	1.9	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	2-Chloroethyl vinyl ether	5.1	ug/kg		U	5.1	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2-Chloronaphthalene	480	ug/kg		U	480	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2-Chlorophenol	1000	ug/kg		U	1000	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	2-Hexanone	5	ug/kg		U	5	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2-Methyl-4,6-dinitrophenol	16000	ug/kg		U	16000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2-Methylnaphthalene	900	ug/kg		U	900	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2-Methylphenol	620	ug/kg		U	620	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2-Nitrobenzenamine	2400	ug/kg		U	2400	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	2-Nitrophenol	480	ug/kg		U	480	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	3,3'-Dichlorobenzidine	4300	ug/kg		U	4300	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	3-Nitrobenzenamine	3500	ug/kg		U	3500	10	12	SOIL	FR	SPS	U	9/24/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-28	WDSB28-02-12.0	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	4-Bromophenyl phenyl ether	900	ug/kg		U	900	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	4-Chloro-3-methylphenol	3100	ug/kg		U	3100	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	4-Chlorobenzenamine	3900	ug/kg		U	3900	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	4-Chlorophenyl phenyl ether	1000	ug/kg		U	1000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	4-Methylphenol	1600	ug/kg		U	1600	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	4-Nitrobenzenamine	3500	ug/kg		U	3500	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	4-Nitrophenol	4600	ug/kg		U	4600	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Acenaphthene	490	ug/kg		U	490	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Acenaphthylene	810	ug/kg		U	810	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Acetone	5.4	ug/kg		U	5.4	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Acetone	5.3	ug/kg		U	5.3	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Acrolein	20	ug/kg		U	20	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Acrolein	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Acrylonitrile	4.9	ug/kg		U	4.9	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Alpha activity	4.81	pCi/g	0.771	J	2.72	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Alpha activity	7.84	pCi/g	0.931		2.66	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Aluminum	15000	mg/kg			1.4	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Aluminum	15000	mg/kg			1.4	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Americium-241	0.00739	pCi/g	0.0128	U	0.0654	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Americium-241	0.013	pCi/g	0.00919	U	0.04	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Aniline	6200	ug/kg		U	6200	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Anthracene	810	ug/kg		U	810	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Antimony	0.36	mg/kg		U	0.36	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Antimony	0.35	mg/kg		U	0.35	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Arsenic	14	mg/kg			0.043	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Arsenic	7.8	mg/kg			0.048	10	12	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Barium	53	mg/kg			0.071	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Barium	42	mg/kg			0.07	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Benz(a)anthracene	950	ug/kg		U	950	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Benzaldehyde	3200	ug/kg		U	3200	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Benzaldehyde	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Benzene	0.48	ug/kg		U	0.48	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Benzene	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Benzenemethanol	480	ug/kg		U	480	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Benzo(a)pyrene	950	ug/kg		U	950	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Benzo(b)fluoranthene	1200	ug/kg		U	1200	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Benzo(ghi)perylene	760	ug/kg		U	760	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Benzo(k)fluoranthene	1900	ug/kg		U	1900	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Benzoic acid	16000	ug/kg		U	16000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Beryllium	0.89	mg/kg			0.031	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Beryllium	0.83	mg/kg			0.03	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Beta activity	2.95	pCi/g	0.653	U	2.88	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Beta activity	-0.853	pCi/g	0.492	U	2.83	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Bis(2-chloroethoxy)methane	1100	ug/kg		U	1100	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Bis(2-chloroethyl) ether	790	ug/kg		U	790	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Bis(2-chloroisopropyl) ether	1100	ug/kg		U	1100	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Bis(2-ethylhexyl)phthalate	4300	ug/kg		BJ	2200	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	380	ug/kg		B	44	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Bromoform	0.23	ug/kg		U	0.23	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Bromoform	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Bromomethane	0.51	ug/kg		U	0.51	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	9/24/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-28	WDSB28-18-12.0	SVOA	Butyl benzyl phthalate	2000	ug/kg		U	2000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Cadmium	0.06	mg/kg		B	0.038	10	12	SOIL	FR	SPS	J	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Cadmium	0.066	mg/kg		B	0.038	10	12	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Calcium	1300	mg/kg			13	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Calcium	1200	mg/kg			13	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Carbazole	1700	ug/kg		U	1700	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Carbazole	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Carbon disulfide	0.43	ug/kg		U	0.43	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Carbon tetrachloride	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Cesium-137	-0.04	pCi/g	0.0711	U	0.193	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Cesium-137	-0.074	pCi/g	0.067	U	0.171	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Chlorobenzene	0.55	ug/kg		U	0.55	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Chloroethane	0.9	ug/kg		U	0.9	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Chloroform	0.29	ug/kg		U	0.29	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Chloroform	0.29	ug/kg		U	0.29	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Chloromethane	0.78	ug/kg		U	0.78	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Chromium	23	mg/kg			0.054	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Chromium	21	mg/kg			0.053	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Chrysene	1300	ug/kg		U	1300	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	cis-1,2-Dichloroethene	0.57	ug/kg		U	0.57	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Cobalt	14	mg/kg			0.093	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Cobalt	3.8	mg/kg			0.092	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Copper	25	mg/kg			0.2	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Copper	22	mg/kg			0.2	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Dibenz(a,h)anthracene	900	ug/kg		U	900	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Dibenzofuran	950	ug/kg		U	950	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Dibromochloromethane	0.58	ug/kg		U	0.58	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Dibromomethane	0.85	ug/kg		U	0.85	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Dibromomethane	0.83	ug/kg		U	0.83	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Dichlorodifluoromethane	0.53	ug/kg		U	0.53	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Diethyl phthalate	1200	ug/kg		U	1200	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Dimethyl phthalate	1100	ug/kg		U	1100	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Di-n-butyl phthalate	1400	ug/kg		U	1400	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Di-n-octylphthalate	690	ug/kg		U	690	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Diphenyldiazene	1000	ug/kg		U	1000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Ethyl methacrylate	0.61	ug/kg		U	0.61	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Ethylbenzene	0.68	ug/kg		U	0.68	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Fluoranthene	1700	ug/kg		U	1700	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Fluoranthene	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Fluorene	860	ug/kg		U	860	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Hexachlorobenzene	1400	ug/kg		U	1400	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Hexachlorobutadiene	480	ug/kg		U	480	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Hexachlorocyclopentadiene	2400	ug/kg		U	2400	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Hexachloroethane	1000	ug/kg		U	1000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Indeno(1,2,3-cd)pyrene	1000	ug/kg		U	1000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Iodomethane	0.45	ug/kg		U	0.45	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Iodomethane	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Iron	29000	mg/kg			3.6	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Iron	15000	mg/kg			3.5	10	12	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Isophorone	810	ug/kg		U	810	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Lead	16	mg/kg			0.25	10	12	SOIL	FR	SPS	=	9/24/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-28	WDSB28-03-12.0	METAL	Lead	13	mg/kg			0.25	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	M + P Xylene	1.1	ug/kg		U	1.1	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Magnesium	3300	mg/kg			3.5	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Magnesium	2700	mg/kg			3.4	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Manganese	250	mg/kg			0.093	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Manganese	82	mg/kg			0.092	10	12	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Mercury	0.024	mg/kg			0.0053	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Mercury	0.019	mg/kg			0.0055	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Methylene chloride	0.76	ug/kg		U	0.76	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Methylene chloride	1.4	ug/kg		BJ	0.74	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Molybdenum	0.43	mg/kg		B	0.24	10	12	SOIL	FR	SPS	J	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Molybdenum	0.48	mg/kg		B	0.24	10	12	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Naphthalene	1500	ug/kg		U	1500	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Naphthalene	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Neptunium-237	0.00296	pCi/g	0.00419	U	0.0227	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Neptunium-237	-0.00297	pCi/g	0.00514	U	0.0365	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Nickel	37	mg/kg			0.11	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Nickel	21	mg/kg			0.11	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Nitrobenzene	1000	ug/kg		U	1000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	N-Nitrosodimethylamine	1800	ug/kg		U	1800	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	N-Nitroso-di-n-propylamine	1500	ug/kg		U	1500	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	N-Nitrosodiphenylamine	1000	ug/kg		U	1000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	PPCB	PCB-1221	0.016	mg/kg		U	0.016	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	PPCB	PCB-1242	0.0086	mg/kg		U	0.0086	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Pentachlorophenol	16000	ug/kg		U	16000	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Phenanthrene	810	ug/kg		U	810	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Phenol	860	ug/kg		U	860	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Phenol	37	ug/kg		J	17	10	12	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Plutonium-238	0	pCi/g	0.00549	U	0.0297	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Plutonium-238	0	pCi/g	0.00654	U	0.0354	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Plutonium-239/240	0.031	pCi/g	0.0116	U	0.0296	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Plutonium-239/240	0.0185	pCi/g	0.0103	U	0.0353	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-18-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Pyrene	580	ug/kg		U	580	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Pyrene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-18-12.0	SVOA	Pyridine	6200	ug/kg		U	6200	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-02-12.0	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Selenium	0.98	mg/kg			0.11	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Selenium	1.3	mg/kg			0.13	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Silver	0.15	mg/kg		U	0.15	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Sodium	190	mg/kg		B	55	10	12	SOIL	FR	SPS	J	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Sodium	190	mg/kg		B	54	10	12	SOIL	REG	SPS	J	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Styrene	0.64	ug/kg		U	0.64	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Styrene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Technetium-99	-0.239	pCi/g	0.158	U	0.541	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Technetium-99	-0.061	pCi/g	0.158	U	0.532	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Tetrachloroethene	0.6	ug/kg		U	0.6	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Thallium	0.13	mg/kg			0.0029	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Thallium	0.13	mg/kg			0.0033	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Thorium-228	1.37	pCi/g	0.0778	J	0.0623	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Thorium-228	1.49	pCi/g	0.0769	J	0.0377	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Thorium-230	1.02	pCi/g	0.0648	J	0.0312	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Thorium-230	0.997	pCi/g	0.0613	J	0.0457	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Thorium-232	1.23	pCi/g	0.0711	J	0.039	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Thorium-232	1.24	pCi/g	0.0679	J	0.0284	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Toluene	0.7	ug/kg		U	0.7	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Toluene	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	9/24/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-28	WDSB28-21-12.0	VOA	Total Xylene	0.62	ug/kg		U	0.62	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	trans-1,2-Dichloroethene	0.4	ug/kg		U	0.4	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	trans-1,3-Dichloropropene	0.68	ug/kg		U	0.68	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.68	ug/kg		U	0.68	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Trichlorofluoromethane	1.1	ug/kg		U	1.1	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Uranium	0.62	mg/kg			0.0013	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Uranium	0.52	mg/kg			0.0015	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Uranium-233/234	1.04	pCi/g	0.0598	J	0.0262	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Uranium-233/234	1.02	pCi/g	0.0616	J	0.0284	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Uranium-235	0.0337	pCi/g	0.0127	U	0.0323	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Uranium-235	0.0366	pCi/g	0.0137	U	0.035	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Uranium-236	0.0114	pCi/g	0.00758	U	0.029	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Uranium-236	0.0164	pCi/g	0.00919	U	0.0314	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-20-12.0	RADS	Uranium-238	1.01	pCi/g	0.059	J	0.0326	10	12	SOIL	FR	SPS		9/24/2011
WD-SB-28	WDSB28-04-12.0	RADS	Uranium-238	0.935	pCi/g	0.0589	J	0.0283	10	12	SOIL	REG	SPS		9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Vanadium	37	mg/kg			0.088	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Vanadium	40	mg/kg			0.086	10	12	SOIL	REG	SPS	=	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-21-12.0	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	10	12	SOIL	FR	SPS	U	9/24/2011
WD-SB-28	WDSB28-01-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS	U	9/24/2011
WD-SB-28	WDSB28-19-12.0	METAL	Zinc	140	mg/kg			0.37	10	12	SOIL	FR	SPS	=	9/24/2011
WD-SB-28	WDSB28-03-12.0	METAL	Zinc	53	mg/kg			0.37	10	12	SOIL	REG	SPS	J	9/24/2011
WD-SB-29	WDSB29-06-2.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Acetone	5.4	ug/kg		U	5.4	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Acrolein	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/29/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-29	WDSB29-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Benzaldehyde	64	ug/kg		U	64	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Benzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-09-2.0	GTEC	Cation Exchange Capacity	0.209	meq/g			0.00217	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Chloroethane	0.89	ug/kg		U	0.89	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Chloromethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Dibromomethane	0.84	ug/kg		U	0.84	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-07-2.0	WETCHEM	Distribution coefficient, Kd, Tc-99	4.25	mL/g				0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-07-2.0	WETCHEM	Distribution coefficient, Kd, Uranium	7.77	mL/g				0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Iodomethane	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Methylene chloride	0.75	ug/kg		U	0.75	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Phenol	19	ug/kg		J	17	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Styrene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Toluene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	WETCHEM	Total Organic Carbon (TOC)	5.4	g/kg			1.7	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Total Xylene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS		8/29/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-29	WDSB29-06-2.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29RAD-0.5	RADS	Technetium-99	-0.144	pCi/g	0.0633	U	0.218	0.4	0.8	SOIL	REG	AUG	J	5/2/2011
WD-SB-29	WDSB29RAD-0.5	METAL	Total Uranium	2.79	ug/g	0		0.0215	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-29	WDSB29RAD-0.5	RADS	Uranium-233/234	0.941	pCi/g	0.0249		0.0106	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-29	WDSB29RAD-0.5	RADS	Uranium-235	0.0478	pCi/g	0.00627	J	0.00619	0.4	0.8	SOIL	REG	AUG	J	5/2/2011
WD-SB-29	WDSB29RAD-0.5	RADS	Uranium-236	0.00654	pCi/g	0.0023	U	0.00556	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-29	WDSB29RAD-0.5	RADS	Uranium-238	0.931	pCi/g	0.0247		0.00626	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-29	WDSB29RAD-2.0	RADS	Technetium-99	-0.162	pCi/g	0.0634	U	0.219	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-29	WDSB29RAD-2.0	METAL	Total Uranium	2.61	ug/g	0		0.029	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-29	WDSB29RAD-2.0	RADS	Uranium-233/234	0.763	pCi/g	0.0286		0.00817	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-29	WDSB29RAD-2.0	RADS	Uranium-235	0.0343	pCi/g	0.00685	J	0.0101	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-29	WDSB29RAD-2.0	RADS	Uranium-236	0.00118	pCi/g	0.00205	U	0.0113	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-29	WDSB29RAD-2.0	RADS	Uranium-238	0.872	pCi/g	0.0305		0.00814	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-29	WDSB29-06-4.5	VOA	1,1,1,2-Tetrachloroethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	1,1,1-Trichloroethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	1,1,2,2-Tetrachloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	1,1,2-Trichloroethane	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	1,1-Dichloroethene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	1,2,3-Trichloropropane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	1,2-Dichloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	1,2-Dichloropropane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	1,2-Dimethylbenzene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	2-Chloroethyl vinyl ether	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	2-Hexanone	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2-Methylphenol	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2-Nitrobenzenamine	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	3,3'-Dichlorobenzidine	88	ug/kg		U	88	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	4-Chlorobenzenamine	80	ug/kg		U	80	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	4-Methyl-2-pentanone	3.7	ug/kg		U	3.7	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	4-Methylphenol	32	ug/kg		U	32	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	4-Nitrobenzenamine	71	ug/kg		U	71	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	4-Nitrophenol	94	ug/kg		U	94	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Acenaphthene	10	ug/kg		U	10	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Acenaphthylene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Acetone	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Acrolein	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Acrylonitrile	4.1	ug/kg		U	4.1	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Aniline	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Anthracene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Benzaldehyde	65	ug/kg		U	65	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Benzene	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Benzoic acid	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS		8/29/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-29	WDSB29-06-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Bromomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Carbazole	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Carbon disulfide	0.36	ug/kg		U	0.36	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Carbon tetrachloride	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-09-4.5	GTEC	Cation Exchange Capacity	0.159	meq/g			0.00213	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Chlorobenzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Chloroethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Chloroform	0.25	ug/kg		U	0.25	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Chloromethane	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	cis-1,2-Dichloroethene	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Dibromochloromethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Dibromomethane	0.72	ug/kg		U	0.72	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Dichlorodifluoromethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-07-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	4.51	mL/g				2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-07-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	7.44	mL/g				2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Ethyl methacrylate	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Ethylbenzene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Fluoranthene	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Fluorene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Hexachloroethane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Isophorone	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	M + P Xylene	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Methylene chloride	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Pentachlorophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Phenanthrene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Phenol	19	ug/kg		J	18	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-4.5	SVOA	Pyridine	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Styrene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Tetrachloroethene	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Toluene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	WETCHEM	Total Organic Carbon (TOC)	4.6	g/kg			1.7	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Total Xylene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	trans-1,2-Dichloroethene	0.33	ug/kg		U	0.33	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	trans-1,3-Dichloropropene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Trichlorofluoromethane	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Vinyl acetate	0.91	ug/kg		U	0.91	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-4.5	VOA	Vinyl chloride	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	1,2,3-Trichloropropane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	10	12	SOIL	REG	SPS		8/29/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-29	WDSB29-06-12.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	1,4-Dichlorobenzene	14	ug/kg		U	14	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2,4,5-Trichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2,4,6-Trichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2,4-Dichlorophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2,4-Dimethylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2,4-Dinitrotoluene	66	ug/kg		U	66	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2-Chloronaphthalene	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2-Methylphenol	13	ug/kg		U	13	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	2-Nitrophenol	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	3,3'-Dichlorobenzidine	90	ug/kg		U	90	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	3-Nitrobenzenamine	73	ug/kg		U	73	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	4-Chloro-3-methylphenol	66	ug/kg		U	66	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	4-Chlorobenzenamine	82	ug/kg		U	82	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	4-Methylphenol	33	ug/kg		U	33	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	4-Nitrophenol	97	ug/kg		U	97	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Acenaphthene	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Acenaphthylene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Acetone	5.2	ug/kg		J	5	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Acrolein	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Aniline	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Benzaldehyde	67	ug/kg		U	67	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Benzene	0.44	ug/kg		U	0.44	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Benzenemethanol	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Benzoic acid	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Bis(2-chloroethyl) ether	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	130	ug/kg		J	46	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Carbazole	36	ug/kg		U	36	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-09-12.0	GTEC	Cation Exchange Capacity	0.278	meq/g			0.00211	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Chloroform	0.27	ug/kg		U	0.27	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Chrysene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Dibenzofuran	20	ug/kg		U	20	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Dibromomethane	0.78	ug/kg		U	0.78	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-07-12.0	WETCHEM	Distribution coefficient, Kd, Tc-99	4.59	mL/g				10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-07-12.0	WETCHEM	Distribution coefficient, Kd, Uranium	4.2	mL/g				10	12	SOIL	REG	SPS		8/29/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-29	WDSB29-06-12.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Fluoranthene	36	ug/kg		U	36	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Fluorene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Hexachlorobutadiene	10	ug/kg		U	10	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Hexachloroethane	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Isophorone	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Methylene chloride	0.7	ug/kg		U	0.7	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Naphthalene	31	ug/kg		U	31	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Nitrobenzene	22	ug/kg		U	22	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Phenanthrene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Phenol	19	ug/kg		J	18	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-02-12.0	SVOA	Pyridine	130	ug/kg		U	130	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Styrene	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Toluene	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	WETCHEM	Total Organic Carbon (TOC)	5.3	g/kg			1.7	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	trans-1,3-Dichloropropene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-29	WDSB29-06-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS		8/29/2011
WD-SB-30	WDSB30-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	1,1,1-Trichloroethane	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	1,1,2-Trichloroethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	1,1-Dichloroethane	0.17	ug/kg		U	0.17	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	1,1-Dichloroethene	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	1,2,3-Trichloropropane	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	1,2-Dichloroethane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	1,2-Dichloropropane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	1,2-Dimethylbenzene	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2,4,5-Trichlorophenol	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2,4,6-Trichlorophenol	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2,4-Dichlorophenol	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2,4-Dimethylphenol	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2,4-Dinitrotoluene	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	2-Butanone	1.5	ug/kg		U	1.5	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	2-Chloroethyl vinyl ether	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2-Chloronaphthalene	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	2-Hexanone	4	ug/kg		U	4	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	2-Nitrophenol	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	3,3'-Dichlorobenzidine	87	ug/kg		U	87	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	3-Nitrobenzenamine	71	ug/kg		U	71	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	4-Chloro-3-methylphenol	64	ug/kg		U	64	0	2	SOIL	REG	SPS	U	9/21/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-30	WDSB30-02-2.0	SVOA	4-Chlorobenzenamine	79	ug/kg		U	79	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	4-Methyl-2-pentanone	3.6	ug/kg		U	3.6	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	4-Methylphenol	32	ug/kg		U	32	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	4-Nitrobenzenamine	70	ug/kg		U	70	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	4-Nitrophenol	94	ug/kg		U	94	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Acetone	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Acrolein	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Acrylonitrile	4	ug/kg		U	4	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Alpha activity	7.24	pCi/g	0.881		2.58	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Aluminum	11000	mg/kg			1.5	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Americium-241	0.0157	pCi/g	0.0083	U	0.03	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Antimony	0.37	mg/kg		U	0.37	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Arsenic	4.9	mg/kg			0.045	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Barium	70	mg/kg			0.073	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Benzaldehyde	65	ug/kg		U	65	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Benzene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Benzenemethanol	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Benzo(k)fluoranthene	39	ug/kg		U	39	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Benzoic acid	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Beryllium	0.37	mg/kg		B	0.032	0	2	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Beta activity	0.232	pCi/g	0.527	U	2.75	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	45	ug/kg		U	45	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Bromodichloromethane	0.18	ug/kg		U	0.18	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Bromoform	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Bromomethane	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Butyl benzyl phthalate	42	ug/kg		U	42	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Cadmium	0.039	mg/kg		U	0.039	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Calcium	78	mg/kg			14	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Carbazole	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Carbon disulfide	0.35	ug/kg		U	0.35	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Carbon tetrachloride	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Cesium-137	-0.0117	pCi/g	0.105	U	0.3	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Chlorobenzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Chloroethane	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Chloroform	0.24	ug/kg		U	0.24	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Chloromethane	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Chromium	12	mg/kg			0.056	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Chrysene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	cis-1,2-Dichloroethene	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Cobalt	5	mg/kg			0.096	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Copper	4.7	mg/kg			0.21	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Dibromochloromethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Dibromomethane	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Dichlorodifluoromethane	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Ethyl methacrylate	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Ethylbenzene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Fluoranthene	35	ug/kg		U	35	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Hexachlorobutadiene	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Iodomethane	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Iron	11000	mg/kg			3.7	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Lead	11	mg/kg			0.26	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	M + P Xylene	0.86	ug/kg		U	0.86	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Magnesium	900	mg/kg			3.6	0	2	SOIL	REG	SPS	=	9/21/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-30	WDSB30-03-2.0	METAL	Manganese	130	mg/kg			0.096	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Mercury	0.022	mg/kg			0.0053	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Methylene chloride	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Molybdenum	0.73	mg/kg		B	0.25	0	2	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Naphthalene	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Neptunium-237	0.00604	pCi/g	0.0074	U	0.0371	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Nickel	7.5	mg/kg			0.12	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Nitrobenzene	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	N-Nitrosodimethylamine	36	ug/kg		U	36	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Pentachlorophenol	320	ug/kg		U	320	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Phenol	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Plutonium-238	-0.00855	pCi/g	-0.00855	U	0.0615	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Plutonium-239/240	0.00427	pCi/g	0.0074	U	0.0409	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Selenium	0.87	mg/kg			0.12	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Sodium	72	mg/kg		B	57	0	2	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Styrene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Technetium-99	-0.0341	pCi/g	0.159	U	0.537	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Tetrachloroethene	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Thallium	0.19	mg/kg			0.0031	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Thorium-228	1.37	pCi/g	0.0868	J	0.1	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Thorium-230	2.13	pCi/g	0.104	J	0.0798	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Thorium-232	1.27	pCi/g	0.0793	J	0.0472	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Toluene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Total Xylene	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	trans-1,2-Dichloroethene	0.32	ug/kg		U	0.32	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	trans-1,3-Dichloropropene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Trichloroethene	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Trichlorofluoromethane	0.86	ug/kg		U	0.86	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Uranium	0.6	mg/kg			0.0014	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Uranium-233/234	1.06	pCi/g	0.0556	J	0.0278	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Uranium-235	0.0645	pCi/g	0.0156	J	0.0274	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Uranium-236	0.0193	pCi/g	0.00851	U	0.0246	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-2.0	RADS	Uranium-238	1.08	pCi/g	0.0558	J	0.0221	0	2	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Vanadium	22	mg/kg			0.09	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Vinyl acetate	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-2.0	VOA	Vinyl chloride	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-2.0	METAL	Zinc	27	mg/kg			0.38	0	2	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30RAD-0.5	RADS	Technetium-99	-0.0491	pCi/g	0.0643	U	0.218	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-30	WDSB30RAD-0.5	METAL	Total Uranium	2.21	ug/g	0		0.0221	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-30	WDSB30RAD-0.5	RADS	Uranium-233/234	0.775	pCi/g	0.0251		0.00623	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-30	WDSB30RAD-0.5	RADS	Uranium-235	0.0382	pCi/g	0.00628	J	0.00769	0.4	0.8	SOIL	REG	AUG	J	5/2/2011
WD-SB-30	WDSB30RAD-0.5	RADS	Uranium-236	0.00632	pCi/g	0.00255	U	0.0069	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-30	WDSB30RAD-0.5	RADS	Uranium-238	0.739	pCi/g	0.0245		0.00621	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-30	WDSB30RAD-2.0	RADS	Technetium-99	0.011	pCi/g	0.0652	U	0.219	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-30	WDSB30RAD-2.0	METAL	Total Uranium	2.64	ug/g	0		0.0181	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-30	WDSB30RAD-2.0	RADS	Uranium-233/234	0.847	pCi/g	0.0238		0.00511	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-30	WDSB30RAD-2.0	RADS	Uranium-235	0.0511	pCi/g	0.00655	J	0.00631	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-30	WDSB30RAD-2.0	RADS	Uranium-236	0.00815	pCi/g	0.00257	U	0.00567	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-30	WDSB30RAD-2.0	RADS	Uranium-238	0.881	pCi/g	0.0242		0.00509	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-30	WDSB30-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/21/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-30	WDSB30-02-4.5	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	2-Chloroethyl vinyl ether	5	ug/kg		U	5	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	2-Hexanone	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	4-Methylphenol	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	4-Nitrobenzenamine	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	4-Nitrophenol	90	ug/kg		U	90	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Acenaphthene	9.6	ug/kg		U	9.6	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Acetone	5.4	ug/kg		U	5.4	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Acrylonitrile	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Alpha activity	3.54	pCi/g	0.672	J	2.65	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Aluminum	18000	mg/kg			1.4	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Americium-241	0.00731	pCi/g	0.00545	U	0.0233	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Arsenic	16	mg/kg			0.046	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Barium	110	mg/kg			0.071	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Benzaldehyde	62	ug/kg		U	62	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Benzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Benzenemethanol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Benzoic acid	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Beryllium	0.84	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Beta activity	1.83	pCi/g	0.59	U	2.82	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	43	ug/kg		U	43	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Bromomethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Cadmium	0.038	mg/kg		U	0.038	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Calcium	190	mg/kg			13	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Carbazole	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Cesium-137	0.0554	pCi/g	0.0472	U	0.155	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Chloroethane	0.89	ug/kg		U	0.89	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Chloromethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Chromium	23	mg/kg			0.054	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Chrysene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Cobalt	8.6	mg/kg			0.093	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Copper	22	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Dibromomethane	0.84	ug/kg		U	0.84	2.5	4.5	SOIL	REG	SPS	U	9/21/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-30	WDSB30-01-4.5	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Dimethyl phthalate	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Diphenyldiazene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Ethyl methacrylate	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Fluoranthene	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Iodomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Iron	32000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Lead	15	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Magnesium	2200	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Manganese	70	mg/kg			0.093	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Mercury	0.012	mg/kg		B	0.0052	2.5	4.5	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Methylene chloride	0.75	ug/kg		U	0.75	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Molybdenum	0.36	mg/kg		B	0.24	2.5	4.5	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Naphthalene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00398	U	0.0215	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Nickel	26	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Nitrobenzene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Phenol	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Plutonium-238	0	pCi/g	0.00909	U	0.0534	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Plutonium-239/240	0.0297	pCi/g	0.0111	U	0.0284	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Pyrene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Selenium	1.1	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Sodium	120	mg/kg		B	55	2.5	4.5	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Styrene	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Technetium-99	0.174	pCi/g	0.157	U	0.521	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Thallium	0.18	mg/kg			0.0032	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Thorium-228	1.51	pCi/g	0.0829	J	0.0717	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Thorium-230	1.22	pCi/g	0.0716	J	0.04	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Thorium-232	1.16	pCi/g	0.0699	J	0.0399	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Toluene	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Total Xylene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	trans-1,3-Dichloropropene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Uranium	0.64	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Uranium-233/234	0.984	pCi/g	0.0571	J	0.0467	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Uranium-235	0.0481	pCi/g	0.015	U	0.0384	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Uranium-236	0.0036	pCi/g	0.00804	U	0.0442	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-4.5	RADS	Uranium-238	0.989	pCi/g	0.0567	J	0.0247	2.5	4.5	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Vanadium	46	mg/kg			0.088	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-4.5	METAL	Zinc	54	mg/kg			0.37	2.5	4.5	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	1,1,1-Trichloroethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	1,1,2-Trichloroethane	0.79	ug/kg		U	0.79	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	1,1-Dichloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	9/21/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-30	WDSB30-01-12.0	VOA	1,2,3-Trichloropropane	0.72	ug/kg		U	0.72	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	1,2-Dichloroethane	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	1,2-Dichloropropane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	1,2-Dimethylbenzene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	2-Hexanone	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Acetone	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Acrylonitrile	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Alpha activity	3.53	pCi/g	0.671	J	2.65	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Aluminum	15000	mg/kg			1.4	10	12	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Americium-241	0.0068	pCi/g	0.00589	U	0.026	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Antimony	0.33	mg/kg		U	0.33	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Arsenic	11	mg/kg			0.049	10	12	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Barium	40	mg/kg			0.067	10	12	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Benzaldehyde	64	ug/kg		U	64	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Benzene	0.42	ug/kg		U	0.42	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Beryllium	0.93	mg/kg			0.029	10	12	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Beta activity	2.57	pCi/g	0.604	U	2.75	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Bromomethane	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Cadmium	0.036	mg/kg		U	0.036	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Calcium	1400	mg/kg			12	10	12	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Carbazole	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Carbon tetrachloride	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Cesium-137	-0.00626	pCi/g	0.0544	U	0.154	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Chlorobenzene	0.48	ug/kg		U	0.48	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Chloroethane	0.79	ug/kg		U	0.79	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Chloroform	0.26	ug/kg		U	0.26	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Chloromethane	0.69	ug/kg		U	0.69	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Chromium	22	mg/kg			0.051	10	12	SOIL	REG	SPS	J	9/21/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-30	WDSB30-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	cis-1,2-Dichloroethene	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Cobalt	9.3	mg/kg			0.088	10	12	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Copper	23	mg/kg			0.19	10	12	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Dibromochloromethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Dibromomethane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Dichlorodifluoromethane	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Ethylbenzene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Fluoranthene	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Hexachlorobenzene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Iodomethane	0.39	ug/kg		U	0.39	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Iron	24000	mg/kg			3.3	10	12	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Lead	14	mg/kg			0.24	10	12	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	M + P Xylene	0.93	ug/kg		U	0.93	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Magnesium	3400	mg/kg			3.2	10	12	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Manganese	130	mg/kg			0.088	10	12	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Mercury	0.024	mg/kg			0.0055	10	12	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Methylene chloride	0.67	ug/kg		U	0.67	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Molybdenum	0.23	mg/kg		U	0.23	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Naphthalene	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Neptunium-237	0.00286	pCi/g	0.00404	U	0.0219	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Nickel	30	mg/kg			0.11	10	12	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Phenol	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Plutonium-238	0	pCi/g	0.00865	U	0.0531	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Plutonium-239/240	0.00864	pCi/g	0.00748	U	0.033	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Pyrene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-02-12.0	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Selenium	0.86	mg/kg			0.13	10	12	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Sodium	210	mg/kg		B	52	10	12	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Styrene	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Technetium-99	0.0497	pCi/g	0.159	U	0.533	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Tetrachloroethene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Thallium	0.16	mg/kg			0.0034	10	12	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Thorium-228	1.52	pCi/g	0.0849	J	0.102	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Thorium-230	1.1	pCi/g	0.0683	J	0.0324	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Thorium-232	1.34	pCi/g	0.0752	J	0.0323	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Toluene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Total Xylene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	trans-1,3-Dichloropropene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Trichlorofluoromethane	0.93	ug/kg		U	0.93	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Uranium	0.55	mg/kg			0.0015	10	12	SOIL	REG	SPS	=	9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Uranium-233/234	1.1	pCi/g	0.0638	J	0.0283	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Uranium-235	0.073	pCi/g	0.0194	J	0.0437	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Uranium-236	0.0164	pCi/g	0.01	U	0.0392	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-04-12.0	RADS	Uranium-238	1.19	pCi/g	0.0663	J	0.0353	10	12	SOIL	REG	SPS		9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Vanadium	36	mg/kg			0.082	10	12	SOIL	REG	SPS	=	9/21/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-30	WDSB30-01-12.0	VOA	Vinyl acetate	0.96	ug/kg		U	0.96	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-01-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	9/21/2011
WD-SB-30	WDSB30-03-12.0	METAL	Zinc	73	mg/kg			0.35	10	12	SOIL	REG	SPS	J	9/21/2011
WD-SB-30	WDSB30-09-CU10	GTEC	Cation Exchange Capacity	0.252	meq/g			0.00134	26.6	28.2	SOLID	REG	GRA		9/23/2011
WD-SB-30	WDSB30-07-CU10	WETCHEM	Distribution coefficient, Kd, Tc-99	7.89	mL/g				26.6	28.2	SOLID	REG	GRA		9/23/2011
WD-SB-30	WDSB30-07-CU10	WETCHEM	Distribution coefficient, Kd, Uranium	1.82	mL/g				26.6	28.2	SOLID	REG	GRA		9/23/2011
WD-SB-30	WDSB30-34-CU10	WETCHEM	Total Organic Carbon (TOC)	14	g/kg			1.7	26.6	28.2	SOLID	REG	GRA	=	9/23/2011
WD-SB-30	WDSB30-09-SU10	GTEC	Cation Exchange Capacity	0.108	meq/g			0.00133	117.6	119.1	SOLID	REG	GRA		9/23/2011
WD-SB-30	WDSB30-07-SU10	WETCHEM	Distribution coefficient, Kd, Tc-99	303	mL/g				117.6	119.1	SOLID	REG	GRA		9/23/2011
WD-SB-30	WDSB30-07-SU10	WETCHEM	Distribution coefficient, Kd, Uranium	757	mL/g				117.6	119.1	SOLID	REG	GRA		9/23/2011
WD-SB-30	WDSB30-34-SU10	WETCHEM	Total Organic Carbon (TOC)	74	g/kg			1.7	117.6	119.1	SOLID	REG	GRA	=	9/23/2011
WD-SB-30	WDSB30-09-BE10	GTEC	Cation Exchange Capacity	0.00778	meq/g			0.00135	137.1	138.6	SOLID	REG	GRA		9/23/2011
WD-SB-30	WDSB30-07-BE10	WETCHEM	Distribution coefficient, Kd, Tc-99	3	mL/g				137.1	138.6	SOLID	REG	GRA		9/23/2011
WD-SB-30	WDSB30-07-BE10	WETCHEM	Distribution coefficient, Kd, Uranium	1.01	mL/g				137.1	138.6	SOLID	REG	GRA		9/23/2011
WD-SB-30	WDSB30-34-BE10	WETCHEM	Total Organic Carbon (TOC)	4.3	g/kg			1.7	137.1	138.6	SOLID	REG	GRA	=	9/23/2011
WD-SB-31	WDSB31-06-2.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	1,2,4-Trichlorobenzene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	1,2-Dichlorobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	1,3-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	140	ug/kg		U	140	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2,4,5-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2,4,6-Trichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2,4-Dichlorophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2,4-Dimethylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2,4-Dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2,4-Dinitrotoluene	65	ug/kg		U	65	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2,6-Dinitrotoluene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	2-Butanone	2.4	ug/kg		J	1.7	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2-Chloronaphthalene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2-Chlorophenol	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	2-Hexanone	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2-Methylnaphthalene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2-Methylphenol	13	ug/kg		U	13	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2-Nitrobenzenamine	50	ug/kg		U	50	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	2-Nitrophenol	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	3,3'-Dichlorobenzidine	89	ug/kg		U	89	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	3-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	4-Bromophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	4-Chloro-3-methylphenol	65	ug/kg		U	65	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	4-Chlorobenzenamine	81	ug/kg		U	81	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	4-Chlorophenyl phenyl ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	4-Methylphenol	33	ug/kg		U	33	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	4-Nitrobenzenamine	72	ug/kg		U	72	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	4-Nitrophenol	96	ug/kg		U	96	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Acenaphthene	10	ug/kg		U	10	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Acenaphthylene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Acetone	18	ug/kg			4.9	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Acrolein	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Alpha activity	3.01	pCi/g	0.565	J	2.08	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Aluminum	15000	mg/kg			1.4	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Americium-241	0.0107	pCi/g	0.00657	U	0.0257	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Aniline	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Antimony	0.35	mg/kg		U	0.35	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Arsenic	8	mg/kg			0.044	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Barium	53	mg/kg			0.07	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Benz(a)anthracene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Benzaldehyde	66	ug/kg		U	66	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Benzene	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Benzenemethanol	17	ug/kg		J	9.9	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Benzo(a)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Benzo(b)fluoranthene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Benzo(ghi)perylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Benzo(k)fluoranthene	40	ug/kg		U	40	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Benzoic acid	330	ug/kg		J	330	0	2	SOIL	REG	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-31	WDSB31-03-2.0	METAL	Beryllium	0.46	mg/kg			0.03	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Beta activity	1.06	pCi/g	0.483	U	2.46	0	2	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Bis(2-chloroethoxy)methane	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	46	ug/kg		U	46	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Bromoform	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Bromomethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Butyl benzyl phthalate	43	ug/kg		U	43	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Cadmium	0.038	mg/kg		U	0.038	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Calcium	140	mg/kg			13	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Carbazole	36	ug/kg		U	36	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-09-2.0	GTEC	Cation Exchange Capacity	0.195	meq/g			0.00211	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Cesium-137	0.474	pCi/g	0.115	U	0.453	0	2	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Chloroethane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Chloroform	0.26	ug/kg		U	0.26	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Chloromethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Chromium	16	mg/kg			0.053	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Chrysene	27	ug/kg		U	27	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Cobalt	5.4	mg/kg			0.092	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Copper	11	mg/kg			0.2	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Dibenz(a,h)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Dibenzofuran	20	ug/kg		U	20	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Dibromomethane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Diethyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Dimethyl phthalate	23	ug/kg		U	23	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Di-n-butyl phthalate	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Diphenyldiazene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-07-2.0	WETCHEM	Distribution coefficient, Kd, Tc-99	5.93	mL/g				0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-07-2.0	WETCHEM	Distribution coefficient, Kd, Uranium	687	mL/g				0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Ethyl methacrylate	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Fluorene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Hexachlorobenzene	29	ug/kg		U	29	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Hexachlorobutadiene	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Hexachloroethane	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Iodomethane	0.4	ug/kg		U	0.4	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Iron	19000	mg/kg			3.5	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Isophorone	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Lead	14	mg/kg			0.25	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	M + P Xylene	0.95	ug/kg		U	0.95	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Magnesium	1400	mg/kg			3.4	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Manganese	100	mg/kg			0.092	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Mercury	0.031	mg/kg			0.0052	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Methylene chloride	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Molybdenum	0.93	mg/kg		B	0.24	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Naphthalene	31	ug/kg		U	31	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Neptunium-237	0	pCi/g	0.0037	U	0.0251	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Nickel	11	mg/kg			0.11	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Nitrobenzene	22	ug/kg		U	22	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	N-Nitrosodimethylamine	37	ug/kg		U	37	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	N-Nitroso-di-n-propylamine	31	ug/kg		U	31	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	N-Nitrosodiphenylamine	21	ug/kg		U	21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	PPCB	PCB-1242	0.009	mg/kg		U	0.009	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Pentachlorophenol	330	ug/kg		U	330	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Phenanthrene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Phenol	24	ug/kg		J	18	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Plutonium-238	0	pCi/g	0.00881	U	0.0503	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Plutonium-239/240	0.0342	pCi/g	0.0112	U	0.0298	0	2	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-31	WDSB31-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-2.0	SVOA	Pyrene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-31	WDSB31-02-2.0	SVOA	Pyridine	130	ug/kg		U	130	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Selenium	0.3	mg/kg		B	0.12	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Silver	0.15	mg/kg		U	0.15	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Sodium	54	mg/kg		U	54	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Styrene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Technetium-99	0.0176	pCi/g	0.156	U	0.524	0	2	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Thallium	0.22	mg/kg			0.0031	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Thorium-228	0.938	pCi/g	0.0501	J	0.0255	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Thorium-230	1.13	pCi/g	0.0547	J	0.0322	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Thorium-232	0.928	pCi/g	0.0494	J	0.025	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Toluene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	WETCHEM	Total Organic Carbon (TOC)	6.7	g/kg			1.7	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Total Xylene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Trichlorofluoromethane	0.95	ug/kg		U	0.95	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Uranium	0.83	mg/kg			0.0014	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Uranium-233/234	0.955	pCi/g	0.0448	J	0.0161	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Uranium-235	0.0388	pCi/g	0.0104	J	0.0198	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Uranium-236	0.0163	pCi/g	0.00658	U	0.0178	0	2	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-31	WDSB31-04-2.0	RADS	Uranium-238	0.947	pCi/g	0.0445	J	0.016	0	2	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Vanadium	29	mg/kg			0.086	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-06-2.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-2.0	METAL	Zinc	37	mg/kg			0.37	0	2	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31RAD-0.5	RADS	Technetium-99	-0.0293	pCi/g	0.0648	U	0.219	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-31	WDSB31RAD-0.5	METAL	Total Uranium	2.5	ug/g	0		0.0272	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-31	WDSB31RAD-0.5	RADS	Uranium-233/234	0.808	pCi/g	0.0216		0.00441	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-31	WDSB31RAD-0.5	RADS	Uranium-235	0.0384	pCi/g	0.00527	J	0.00544	0.4	0.8	SOIL	REG	AUG	J	5/2/2011
WD-SB-31	WDSB31RAD-0.5	RADS	Uranium-236	0.00255	pCi/g	0.0018	U	0.00785	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-31	WDSB31RAD-0.5	RADS	Uranium-238	0.836	pCi/g	0.0219		0.00825	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-31	WDSB31RAD-2.0	RADS	Technetium-99	-0.172	pCi/g	0.0632	U	0.219	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-31	WDSB31RAD-2.0	METAL	Total Uranium	2.77	ug/g	0		0.0205	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-31	WDSB31RAD-2.0	RADS	Uranium-233/234	0.896	pCi/g	0.026		0.00578	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-31	WDSB31RAD-2.0	RADS	Uranium-235	0.0541	pCi/g	0.00716	J	0.00713	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-31	WDSB31RAD-2.0	RADS	Uranium-236	0.00419	pCi/g	0.00205	U	0.00641	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-31	WDSB31RAD-2.0	RADS	Uranium-238	0.924	pCi/g	0.0264		0.00576	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-31	WDSB31-17-4.5	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	1,1,1,2-Tetrachloroethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	1,1,2,2-Tetrachloroethane	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	1,1,2-Trichloroethane	0.84	ug/kg		U	0.84	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	1,1-Dichloroethene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	1,1-Dichloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	1,2,3-Trichloropropane	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	1,2,3-Trichloropropane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	1,2,4-Trichlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	1,2-Dichloroethane	0.63	ug/kg		U	0.63	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	1,2-Dichloroethane	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	1,2-Dichloropropane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	1,2-Dimethylbenzene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2,4-Dimethylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2,4-Dinitrotoluene	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2,6-Dinitrotoluene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	2-Butanone	1.7	ug/kg		U	1.7	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	2-Chloroethyl vinyl ether	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2-Chlorophenol	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	2-Hexanone	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	FR	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-31	WDSB31-06-4.5	VOA	2-Hexanone	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2-Methylphenol	18	ug/kg		J	12	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2-Nitrobenzenamine	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	3,3'-Dichlorobenzidine	86	ug/kg		U	86	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	3-Nitrobenzenamine	70	ug/kg		U	70	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	4-Chloro-3-methylphenol	63	ug/kg		U	63	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	4-Methylphenol	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	4-Nitrophenol	92	ug/kg		U	92	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Acenaphthene	9.8	ug/kg		U	9.8	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Acetone	7.5	ug/kg		J	4.9	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Acetone	5.1	ug/kg		U	5.1	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Acrolein	18	ug/kg		U	18	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Acrolein	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Acrylonitrile	4.6	ug/kg		U	4.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Alpha activity	5.67	pCi/g	0.761		2.15	2.5	4.5	SOIL	REG	SPS	=	8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Aluminum	8000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Americium-241	0.0168	pCi/g	0.0093	U	0.0388	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Arsenic	12	mg/kg			0.05	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Barium	26	mg/kg			0.072	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Benzaldehyde	64	ug/kg		U	64	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Benzene	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Benzene	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Benzenemethanol	56	ug/kg		BJ	9.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Benzoic acid	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Beryllium	1.1	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Beta activity	1.64	pCi/g	0.532	U	2.47	2.5	4.5	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	74	ug/kg		J	44	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Bromoform	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Bromoform	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Bromomethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Bromomethane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Cadmium	0.039	mg/kg		U	0.039	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Calcium	320	mg/kg			13	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Carbazole	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Carbon disulfide	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Carbon tetrachloride	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-23-4.5	GTEC	Cation Exchange Capacity	0.21	meq/g			0.00212	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-09-4.5	GTEC	Cation Exchange Capacity	0.184	meq/g			0.00216	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Cesium-137	0.0373	pCi/g	0.113	U	0.337	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Chlorobenzene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Chloroethane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Chloroethane	0.85	ug/kg		U	0.85	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Chloroform	0.26	ug/kg		U	0.26	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Chloroform	0.28	ug/kg		U	0.28	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Chloromethane	0.7	ug/kg		U	0.7	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Chloromethane	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Chromium	13	mg/kg			0.055	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Chrysene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	cis-1,2-Dichloroethene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	FR	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-31	WDSB31-06-4.5	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Cobalt	7.8	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Copper	13	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Dibromochloromethane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Dibromomethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Dibromomethane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Diethyl phthalate	25	ug/kg		J	25	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Dimethyl phthalate	22	ug/kg		U	22	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Di-n-butyl phthalate	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Diphenyldiazene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-22-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	3.64	mL/g				2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-07-4.5	WETCHEM	Distribution coefficient, Kd, Tc-99	3.57	mL/g				2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-22-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	27.2	mL/g				2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-07-4.5	WETCHEM	Distribution coefficient, Kd, Uranium	14	mL/g				2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Ethyl methacrylate	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Ethylbenzene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Fluoranthene	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Hexachlorobenzene	28	ug/kg		U	28	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Hexachlorocyclopentadiene	48	ug/kg		U	48	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Iodomethane	0.4	ug/kg		U	0.4	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Iodomethane	0.42	ug/kg		U	0.42	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Iron	43000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Lead	14	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	M + P Xylene	0.94	ug/kg		U	0.94	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	M + P Xylene	0.99	ug/kg		U	0.99	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Magnesium	2300	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Manganese	390	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Mercury	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Methylene chloride	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Methylene chloride	0.71	ug/kg		U	0.71	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Molybdenum	0.25	mg/kg		U	0.25	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Naphthalene	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Neptunium-237	0.00243	pCi/g	0.00421	U	0.0233	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Nickel	20	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Nitrobenzene	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	N-Nitroso-di-n-propylamine	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	PPCB	PCB-1016	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	PPCB	PCB-1242	0.009	mg/kg		U	0.009	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Phenol	18	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Plutonium-238	0	pCi/g	0.00447	U	0.0302	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Plutonium-239/240	0.00947	pCi/g	0.00706	U	0.0302	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Pyrene	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Selenium	0.31	mg/kg		B	0.13	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Sodium	100	mg/kg		B	56	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Styrene	0.57	ug/kg		U	0.57	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Styrene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Technetium-99	0.0594	pCi/g	0.162	U	0.543	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Tetrachloroethene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Tetrachloroethene	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Thallium	0.11	mg/kg			0.0034	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Thorium-228	1.35	pCi/g	0.0793	J	0.0732	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Thorium-230	1.24	pCi/g	0.0747	J	0.0547	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Thorium-232	1.07	pCi/g	0.0699	J	0.0717	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Toluene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	FR	SPS		8/30/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-31	WDSB31-06-4.5	VOA	Toluene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	WETCHEM	Total Organic Carbon (TOC)	4.6	g/kg			1.7	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	WETCHEM	Total Organic Carbon (TOC)	3.6	g/kg		B	1.7	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Total Xylene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Total Xylene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	trans-1,2-Dichloroethene	0.37	ug/kg		U	0.37	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	trans-1,3-Dichloropropene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.64	ug/kg		U	0.64	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Trichloroethene	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Trichloroethene	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Trichlorofluoromethane	0.94	ug/kg		U	0.94	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Trichlorofluoromethane	0.99	ug/kg		U	0.99	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Uranium	0.62	mg/kg			0.0015	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Uranium-233/234	0.775	pCi/g	0.0421	J	0.0174	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Uranium-235	0.0309	pCi/g	0.00974	U	0.0215	2.5	4.5	SOIL	REG	SPS	U	8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Uranium-236	0.00757	pCi/g	0.00505	U	0.0193	2.5	4.5	SOIL	REG	SPS	UJ	8/30/2011
WD-SB-31	WDSB31-04-4.5	RADS	Uranium-238	0.84	pCi/g	0.0437	J	0.0174	2.5	4.5	SOIL	REG	SPS	J	8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Vanadium	24	mg/kg			0.44	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Vinyl acetate	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-17-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	FR	SPS		8/30/2011
WD-SB-31	WDSB31-06-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-31	WDSB31-03-4.5	METAL	Zinc	53	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS		8/30/2011
WD-SB-32	WDSB32-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	1,1,1-Trichloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	1,1,2-Trichloroethane	0.92	ug/kg		U	0.92	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	1,1-Dichloroethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	1,1-Dichloroethene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	1,2,3-Trichloropropane	0.85	ug/kg		U	0.85	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	1,2-Dichloroethane	0.73	ug/kg		U	0.73	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	1,2-Dichloropropane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	1,2-Dimethylbenzene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	2-Butanone	1.9	ug/kg		U	1.9	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	2-Chloroethyl vinyl ether	5.2	ug/kg		U	5.2	0	2	SOIL	REG	SPS	UJ	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	2-Hexanone	5.1	ug/kg		U	5.1	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	3,3'-Dichlorobenzidine	84	ug/kg		U	84	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	4-Methyl-2-pentanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	4-Methylphenol	31	ug/kg		U	31	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	4-Nitrobenzenamine	68	ug/kg		U	68	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	4-Nitrophenol	90	ug/kg		U	90	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Acenaphthene	9.6	ug/kg		U	9.6	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Acenaphthylene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Acetone	5.6	ug/kg		U	5.6	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Acrolein	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Acrylonitrile	5	ug/kg		U	5	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Anthracene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Benzaldehyde	62	ug/kg		U	62	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Benzene	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Benzenemethanol	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-32	WDSB32-02-2.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Benzoic acid	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	90	ug/kg		BJ	43	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Bromodichloromethane	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Bromoform	0.24	ug/kg		U	0.24	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Bromomethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Carbazole	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Carbon disulfide	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Carbon tetrachloride	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Chlorobenzene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Chloroethane	0.93	ug/kg		U	0.93	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Chloroform	0.3	ug/kg		U	0.3	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Chloromethane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Chrysene	25	ug/kg		U	25	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	cis-1,2-Dichloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Dibenzofuran	19	ug/kg		U	19	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Dibromochloromethane	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Dibromomethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Dichlorodifluoromethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Diphenyldiazene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Ethyl methacrylate	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Ethylbenzene	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Fluoranthene	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Fluorene	17	ug/kg		U	17	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Hexachloroethane	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Iodomethane	0.46	ug/kg		U	0.46	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Isophorone	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	M + P Xylene	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Methylene chloride	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Naphthalene	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Nitrobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	PPCB	PCB-1242	0.0088	mg/kg		U	0.0088	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	PPCB	PCB-1254	0.0053	mg/kg		U	0.0053	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Phenanthrene	16	ug/kg		U	16	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Phenol	37	ug/kg		J	17	0	2	SOIL	REG	SPS	J	9/25/2011
WD-SB-32	WDSB32-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Styrene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Tetrachloroethene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Toluene	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Total Xylene	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	trans-1,2-Dichloroethene	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	trans-1,3-Dichloropropene	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Trichloroethene	0.24	ug/kg		U	0.24	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Trichlorofluoromethane	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS	R	9/25/2011
WD-SB-32	WDSB32-01-2.0	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	0	2	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32RAD-0.5	RADS	Technetium-99	-0.0831	pCi/g	0.0641	U	0.219	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-32	WDSB32RAD-0.5	METAL	Total Uranium	2.64	ug/g	0		0.0251	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-32	WDSB32RAD-0.5	RADS	Uranium-233/234	0.898	pCi/g	0.0264		0.0156	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-32	WDSB32RAD-0.5	RADS	Uranium-235	0.0453	pCi/g	0.00661	J	0.00722	0.4	0.8	SOIL	REG	AUG	J	5/2/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-32	WDSB32RAD-0.5	RADS	Uranium-236	0.00763	pCi/g	0.00268	U	0.00648	0.4	0.8	SOIL	REG	AUG	U	5/2/2011
WD-SB-32	WDSB32RAD-0.5	RADS	Uranium-238	0.882	pCi/g	0.0259		0.0073	0.4	0.8	SOIL	REG	AUG	=	5/2/2011
WD-SB-32	WDSB32RAD-2.0	RADS	Technetium-99	-0.0491	pCi/g	0.0642	U	0.218	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-32	WDSB32RAD-2.0	METAL	Total Uranium	2.38	ug/g	0		0.0269	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-32	WDSB32RAD-2.0	RADS	Uranium-233/234	0.808	pCi/g	0.0258		0.00627	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-32	WDSB32RAD-2.0	RADS	Uranium-235	0.0243	pCi/g	0.00506	J	0.00774	1.916666667	2.25	SOIL	REG	AUG	J	5/2/2011
WD-SB-32	WDSB32RAD-2.0	RADS	Uranium-236	0.00363	pCi/g	0.00203	U	0.00695	1.916666667	2.25	SOIL	REG	AUG	U	5/2/2011
WD-SB-32	WDSB32RAD-2.0	RADS	Uranium-238	0.795	pCi/g	0.0255		0.00782	1.916666667	2.25	SOIL	REG	AUG	=	5/2/2011
WD-SB-32	WDSB32-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2,4,5-Trichlorophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2,4,6-Trichlorophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2,4-Dichlorophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	2-Butanone	1.8	ug/kg		U	1.8	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2-Chloronaphthalene	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2-Chlorophenol	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	2-Hexanone	4.8	ug/kg		U	4.8	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	2-Nitrophenol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	3,3'-Dichlorobenzidine	83	ug/kg		U	83	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	3-Nitrobenzenamine	68	ug/kg		U	68	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	4-Methylphenol	31	ug/kg		U	31	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	4-Nitrobenzenamine	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	4-Nitrophenol	90	ug/kg		U	90	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Acenaphthene	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Acetone	5.3	ug/kg		U	5.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Acrolein	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Alpha activity	6.97	pCi/g	0.875		2.63	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Aluminum	14000	mg/kg			1.3	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Americium-241	0.0403	pCi/g	0.0142	U	0.0451	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Antimony	0.33	mg/kg		U	0.33	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Arsenic	12	mg/kg			0.044	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Barium	43	mg/kg			0.066	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Benz(a)anthracene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Benzaldehyde	62	ug/kg		U	62	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Benzene	0.46	ug/kg		U	0.46	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Benzenemethanol	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Benzoic acid	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Beryllium	0.79	mg/kg			0.028	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Beta activity	1.71	pCi/g	0.603	U	2.8	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	92	ug/kg		BJ	43	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	2.5	4.5	SOIL	REG	SPS	U	9/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-32	WDSB32-01-4.5	VOA	Bromoform	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Bromomethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Cadmium	0.036	mg/kg		B	0.035	2.5	4.5	SOIL	REG	SPS	J	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Calcium	150	mg/kg			12	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Carbazole	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Cesium-137	-0.0545	pCi/g	0.0781	U	0.209	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Chloroethane	0.88	ug/kg		U	0.88	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Chloroform	0.29	ug/kg		U	0.29	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Chloromethane	0.76	ug/kg		U	0.76	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Chromium	18	mg/kg			0.05	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Chrysene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Cobalt	11	mg/kg			0.086	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Copper	22	mg/kg			0.19	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Dibenzofuran	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Dibromomethane	0.83	ug/kg		U	0.83	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Dimethyl phthalate	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Diphenyldiazene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Fluoranthene	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Hexachlorobutadiene	9.3	ug/kg		U	9.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Iodomethane	0.43	ug/kg		U	0.43	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Iron	24000	mg/kg			3.3	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Lead	15	mg/kg			0.23	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	M + P Xylene	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Magnesium	2500	mg/kg			3.2	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Manganese	100	mg/kg			0.086	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Mercury	0.023	mg/kg			0.005	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Methylene chloride	0.74	ug/kg		U	0.74	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Molybdenum	0.29	mg/kg		B	0.22	2.5	4.5	SOIL	REG	SPS	J	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Naphthalene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Neptunium-237	0	pCi/g	0.00427	U	0.0231	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Nickel	27	mg/kg			0.11	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Nitrobenzene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	PPCB	PCB-1016	0.0049	mg/kg		U	0.0049	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	PPCB	PCB-1232	0.005	mg/kg		U	0.005	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	PPCB	PCB-1248	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Pentachlorophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Phenol	36	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS	J	9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Plutonium-238	0	pCi/g	0.00644	U	0.0348	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Plutonium-239/240	0.0182	pCi/g	0.0102	U	0.0348	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-02-4.5	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Pyrene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Selenium	1.4	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Silver	0.14	mg/kg		U	0.14	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Sodium	110	mg/kg		B	51	2.5	4.5	SOIL	REG	SPS	J	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Styrene	0.62	ug/kg		U	0.62	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Technetium-99	0.246	pCi/g	0.162	U	0.533	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Thallium	0.15	mg/kg			0.0031	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Thorium-228	1.63	pCi/g	0.0846	J	0.0624	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Thorium-230	0.958	pCi/g	0.0631	J	0.0503	2.5	4.5	SOIL	REG	SPS		9/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-32	WDSB32-04-4.5	RADS	Thorium-232	1.5	pCi/g	0.0783	J	0.0313	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Toluene	0.68	ug/kg		U	0.68	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Total Xylene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Trichloroethene	0.23	ug/kg		U	0.23	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Trichlorofluoromethane	1	ug/kg		U	1	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Uranium	0.55	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Uranium-233/234	0.899	pCi/g	0.0522	J	0.0231	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Uranium-235	0.0523	pCi/g	0.0145	J	0.0286	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Uranium-236	0.0067	pCi/g	0.00581	U	0.0256	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-04-4.5	RADS	Uranium-238	0.952	pCi/g	0.0537	J	0.0289	2.5	4.5	SOIL	REG	SPS		9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Vanadium	32	mg/kg			0.081	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-4.5	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	2.5	4.5	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-03-4.5	METAL	Zinc	87	mg/kg			0.34	2.5	4.5	SOIL	REG	SPS	=	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	1,4-Dichlorobenzene	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2,4,5-Trichlorophenol	9.2	ug/kg		U	9.2	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2,4,6-Trichlorophenol	9.2	ug/kg		U	9.2	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2,4-Dichlorophenol	9.2	ug/kg		U	9.2	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	2-Chloroethyl vinyl ether	4.5	ug/kg		U	4.5	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2-Chloronaphthalene	9.2	ug/kg		U	9.2	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2-Chlorophenol	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	2-Hexanone	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	300	ug/kg		U	300	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2-Methylnaphthalene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	2-Nitrophenol	9.2	ug/kg		U	9.2	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	3,3'-Dichlorobenzidine	83	ug/kg		U	83	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	3-Nitrobenzenamine	67	ug/kg		U	67	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	4-Bromophenyl phenyl ether	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	4-Chlorobenzenamine	75	ug/kg		U	75	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	4-Methylphenol	30	ug/kg		U	30	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	4-Nitrobenzenamine	67	ug/kg		U	67	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	4-Nitrophenol	89	ug/kg		U	89	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Acenaphthene	9.4	ug/kg		U	9.4	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Acetone	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Acrolein	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Acrylonitrile	4.4	ug/kg		U	4.4	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Benz(a)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Benzaldehyde	61	ug/kg		U	61	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Benzene	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Benzenemethanol	9.2	ug/kg		U	9.2	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Benzo(a)pyrene	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Benzoic acid	300	ug/kg		U	300	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	91	ug/kg		BJ	42	10	12	SOIL	REG	SPS	U	9/25/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-32	WDSB32-01-12.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Bromoform	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Bromomethane	0.45	ug/kg		U	0.45	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Butyl benzyl phthalate	39	ug/kg		U	39	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Carbazole	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Chloroethane	0.81	ug/kg		U	0.81	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Chloroform	0.26	ug/kg		U	0.26	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Chloromethane	0.7	ug/kg		U	0.7	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Chrysene	25	ug/kg		U	25	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Dibenz(a,h)anthracene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Dibenzofuran	18	ug/kg		U	18	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Dibromomethane	0.76	ug/kg		U	0.76	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Diphenyldiazene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Ethyl methacrylate	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Fluoranthene	33	ug/kg		U	33	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Hexachlorobutadiene	9.2	ug/kg		U	9.2	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Iodomethane	0.4	ug/kg		U	0.4	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	M + P Xylene	0.94	ug/kg		U	0.94	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Methylene chloride	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Naphthalene	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Nitrobenzene	20	ug/kg		U	20	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	N-Nitroso-di-n-propylamine	28	ug/kg		U	28	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	PPCB	PCB-1242	0.0086	mg/kg		U	0.0086	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Pentachlorophenol	300	ug/kg		U	300	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Phenol	36	ug/kg		J	17	10	12	SOIL	REG	SPS	J	9/25/2011
WD-SB-32	WDSB32-02-12.0	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Pyrene	11	ug/kg		U	11	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-02-12.0	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Styrene	0.57	ug/kg		U	0.57	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Toluene	0.63	ug/kg		U	0.63	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Total Xylene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	trans-1,3-Dichloropropene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.61	ug/kg		U	0.61	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Trichlorofluoromethane	0.94	ug/kg		U	0.94	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-32	WDSB32-01-12.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	10	12	SOIL	REG	SPS	U	9/25/2011
WD-SB-33	WDSB33-01-2.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	1,2,4-Trichlorobenzene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		9/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-33	WDSB33-02-2.0	SVOA	1,4-Dichlorobenzene	12	ug/kg		U	12	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2,3,4,6-Tetrachlorophenol	120	ug/kg		U	120	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2,4,5-Trichlorophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2,4,6-Trichlorophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2,4-Dichlorophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2,4-Dimethylphenol	60	ug/kg		U	60	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2,4-Dinitrophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2,4-Dinitrotoluene	60	ug/kg		U	60	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2,6-Dinitrotoluene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	2-Chloroethyl vinyl ether	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2-Chloronaphthalene	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2-Chlorophenol	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2-Methyl-4,6-dinitrophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2-Methylnaphthalene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2-Methylphenol	12	ug/kg		U	12	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2-Nitrobenzenamine	45	ug/kg		U	45	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	2-Nitrophenol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	3,3'-Dichlorobenzidine	82	ug/kg		U	82	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	3-Nitrobenzenamine	66	ug/kg		U	66	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	4-Bromophenyl phenyl ether	17	ug/kg		U	17	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	4-Chloro-3-methylphenol	60	ug/kg		U	60	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	4-Chlorobenzenamine	74	ug/kg		U	74	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	4-Methylphenol	30	ug/kg		U	30	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	4-Nitrobenzenamine	66	ug/kg		U	66	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	4-Nitrophenol	88	ug/kg		U	88	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Acenaphthene	9.4	ug/kg		U	9.4	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Acenaphthylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Acetone	5	ug/kg		U	5	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Acrolein	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Acrylonitrile	4.5	ug/kg		U	4.5	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Aluminum	11000	mg/kg			1.3	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Aniline	120	ug/kg		U	120	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Anthracene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Antimony	0.32	mg/kg		U	0.32	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Arsenic	14	mg/kg			0.048	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Barium	53	mg/kg			0.064	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Benz(a)anthracene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Benzaldehyde	61	ug/kg		U	61	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Benzenemethanol	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Benzo(a)pyrene	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Benzo(k)fluoranthene	36	ug/kg		U	36	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Benzoic acid	300	ug/kg		U	300	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Beryllium	0.54	mg/kg			0.028	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Bis(2-ethylhexyl)phthalate	42	ug/kg		U	42	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Butyl benzyl phthalate	39	ug/kg		U	39	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Cadmium	0.055	mg/kg		B	0.034	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Calcium	130	mg/kg			12	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Carbazole	33	ug/kg		U	33	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Chromium	13	mg/kg			0.049	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Chrysene	25	ug/kg		U	25	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Cobalt	8.1	mg/kg			0.084	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Copper	8.1	mg/kg			0.18	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Dibenz(a,h)anthracene	17	ug/kg		U	17	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Dibenzofuran	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Dibromomethane	0.79	ug/kg		U	0.79	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Diethyl phthalate	24	ug/kg		U	24	0	2	SOIL	REG	SPS		9/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-33	WDSB33-02-2.0	SVOA	Dimethyl phthalate	21	ug/kg		U	21	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Di-n-butyl phthalate	26	ug/kg		U	26	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Diphenyldiazene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Ethyl methacrylate	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Fluoranthene	33	ug/kg		U	33	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Fluorene	16	ug/kg		U	16	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Hexachlorobenzene	26	ug/kg		U	26	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Hexachlorobutadiene	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Hexachlorocyclopentadiene	45	ug/kg		U	45	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Hexachloroethane	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Iodomethane	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Iron	15000	mg/kg			3.2	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Isophorone	15	ug/kg		U	15	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Lead	12	mg/kg			0.23	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Magnesium	1000	mg/kg			3.1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Manganese	260	mg/kg			0.084	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Mercury	0.026	mg/kg			0.005	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Methylene chloride	3.8	ug/kg		BJ	0.7	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Molybdenum	0.78	mg/kg		B	0.22	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Naphthalene	28	ug/kg		U	28	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Nickel	9.9	mg/kg			0.1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Nitrobenzene	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	N-Nitroso-di-n-propylamine	28	ug/kg		U	28	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	PPCB	PCB-1016	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	PPCB	PCB-1232	0.005	mg/kg		U	0.005	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	PPCB	PCB-1242	0.0089	mg/kg		U	0.0089	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	PPCB	PCB-1248	0.0055	mg/kg		U	0.0055	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	PPCB	PCB-1254	0.0054	mg/kg		U	0.0054	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Pentachlorophenol	300	ug/kg		U	300	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Phenanthrene	15	ug/kg		U	15	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Phenol	21	ug/kg		J	16	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Pyrene	11	ug/kg		U	11	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-2.0	SVOA	Pyridine	120	ug/kg		U	120	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Selenium	0.9	mg/kg			0.13	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Silver	0.13	mg/kg		U	0.13	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Sodium	61	mg/kg		B	50	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Styrene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Thallium	0.18	mg/kg			0.0033	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Toluene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	trans-1,3-Dichloropropene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Trans-1,4-Dichloro-2-butene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Uranium	0.79	mg/kg			0.0015	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Vanadium	26	mg/kg			0.079	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-2.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-2.0	METAL	Zinc	33	mg/kg			0.33	0	2	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	1,2-Dichlorobenzene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2,4,5-Trichlorophenol	9.2	ug/kg		U	9.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2,4,6-Trichlorophenol	9.2	ug/kg		U	9.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2,4-Dichlorophenol	9.2	ug/kg		U	9.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2,4-Dimethylphenol	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS		9/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-33	WDSB33-02-4.5	SVOA	2,4-Dinitrophenol	310	ug/kg		U	310	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2,4-Dinitrotoluene	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	2-Butanone	1.6	ug/kg		U	1.6	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	2-Chloroethyl vinyl ether	4.4	ug/kg		U	4.4	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2-Chloronaphthalene	9.2	ug/kg		U	9.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2-Chlorophenol	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	2-Hexanone	4.3	ug/kg		U	4.3	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2-Methyl-4,6-dinitrophenol	300	ug/kg		U	300	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2-Methylphenol	12	ug/kg		U	12	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2-Nitrobenzenamine	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	2-Nitrophenol	9.2	ug/kg		U	9.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	3,3'-Dichlorobenzidine	83	ug/kg		U	83	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	3-Nitrobenzenamine	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	4-Chloro-3-methylphenol	61	ug/kg		U	61	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	4-Chlorobenzenamine	76	ug/kg		U	76	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	4-Chlorophenyl phenyl ether	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	4-Methylphenol	30	ug/kg		U	30	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	4-Nitrobenzenamine	67	ug/kg		U	67	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	4-Nitrophenol	90	ug/kg		U	90	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Acenaphthene	9.5	ug/kg		U	9.5	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Acenaphthylene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Acetone	4.7	ug/kg		U	4.7	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Acrolein	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Acrylonitrile	4.2	ug/kg		U	4.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Alpha activity	7.53	pCi/g	0.873		2.15	2.5	4.5	SOIL	REG	SPS	=	9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Aluminum	14000	mg/kg			1.5	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Americium-241	0.0206	pCi/g	0.00883	U	0.0282	2.5	4.5	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Aniline	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Anthracene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Antimony	0.36	mg/kg		U	0.36	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Arsenic	15	mg/kg			0.044	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Barium	380	mg/kg			0.072	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Benz(a)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Benzaldehyde	62	ug/kg		U	62	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Benzene	0.41	ug/kg		U	0.41	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Benzenemethanol	9.2	ug/kg		U	9.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Benzo(a)pyrene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Benzo(b)fluoranthene	24	ug/kg		U	24	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Benzo(k)fluoranthene	37	ug/kg		U	37	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Benzoic acid	300	ug/kg		U	300	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Beryllium	0.68	mg/kg			0.031	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Beta activity	1.71	pCi/g	0.571	U	2.61	2.5	4.5	SOIL	REG	SPS	UJ	9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Bis(2-chloroethoxy)methane	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Bis(2-chloroethyl) ether	15	ug/kg		U	15	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Bis(2-chloroisopropyl) ether	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Bis(2-ethylhexyl)phthalate	42	ug/kg		U	42	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Bromoform	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Bromomethane	0.44	ug/kg		U	0.44	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Butyl benzyl phthalate	40	ug/kg		U	40	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Cadmium	0.041	mg/kg		B	0.039	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Calcium	290	mg/kg			13	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Carbazole	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Cesium-137	0.00367	pCi/g	0.0992	U	0.288	2.5	4.5	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Chloroethane	0.78	ug/kg		U	0.78	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Chloroform	0.25	ug/kg		U	0.25	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Chloromethane	0.67	ug/kg		U	0.67	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Chromium	21	mg/kg			0.055	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Chrysene	25	ug/kg		U	25	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Cobalt	8.2	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Copper	20	mg/kg			0.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Dibenzofuran	18	ug/kg		U	18	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Dibromomethane	0.73	ug/kg		U	0.73	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Diethyl phthalate	24	ug/kg		U	24	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Dimethyl phthalate	21	ug/kg		U	21	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		9/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-33	WDSB33-02-4.5	SVOA	Di-n-octylphthalate	13	ug/kg		U	13	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Diphenyldiazene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Ethyl methacrylate	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Fluoranthene	33	ug/kg		U	33	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Fluorene	17	ug/kg		U	17	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Hexachlorobenzene	27	ug/kg		U	27	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Hexachlorobutadiene	9.2	ug/kg		U	9.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Hexachlorocyclopentadiene	46	ug/kg		U	46	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Hexachloroethane	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Indeno(1,2,3-cd)pyrene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Iodomethane	0.38	ug/kg		U	0.38	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Iron	24000	mg/kg			3.6	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Isophorone	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Lead	14	mg/kg			0.25	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	M + P Xylene	0.91	ug/kg		U	0.91	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Magnesium	2400	mg/kg			3.5	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Manganese	65	mg/kg			0.094	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Mercury	0.0052	mg/kg		U	0.0052	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Methylene chloride	3.6	ug/kg		BJ	0.66	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Molybdenum	0.27	mg/kg		B	0.25	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Naphthalene	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Neptunium-237	0.00555	pCi/g	0.00555	U	0.0266	2.5	4.5	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Nickel	25	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Nitrobenzene	20	ug/kg		U	20	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	N-Nitrosodimethylamine	34	ug/kg		U	34	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	N-Nitrosodiphenylamine	19	ug/kg		U	19	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	PPCB	PCB-1016	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	PPCB	PCB-1221	0.015	mg/kg		U	0.015	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	PPCB	PCB-1232	0.0048	mg/kg		U	0.0048	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	PPCB	PCB-1242	0.0086	mg/kg		U	0.0086	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	PPCB	PCB-1248	0.0053	mg/kg		U	0.0053	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	PPCB	PCB-1254	0.0052	mg/kg		U	0.0052	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	PPCB	PCB-1260	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Pentachlorophenol	300	ug/kg		U	300	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Phenanthrene	16	ug/kg		U	16	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Phenol	26	ug/kg		J	17	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Plutonium-238	0.00567	pCi/g	0.00567	U	0.0271	2.5	4.5	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Plutonium-239/240	0.0226	pCi/g	0.00849	U	0.0217	2.5	4.5	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-02-4.5	PPCB	Polychlorinated biphenyl	0.0025	mg/kg		U	0.0025	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Pyrene	11	ug/kg		U	11	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-4.5	SVOA	Pyridine	120	ug/kg		U	120	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Selenium	0.5	mg/kg			0.12	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Silver	0.15	mg/kg		U	0.15	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Sodium	120	mg/kg		B	56	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Styrene	0.55	ug/kg		U	0.55	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Technetium-99	0.484	pCi/g	0.164	U	0.533	2.5	4.5	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Thallium	0.15	mg/kg			0.0031	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Thorium-228	1.42	pCi/g	0.0716	J	0.0344	2.5	4.5	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Thorium-230	0.976	pCi/g	0.0589	J	0.0338	2.5	4.5	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Thorium-232	1.27	pCi/g	0.0669	J	0.0269	2.5	4.5	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Toluene	0.6	ug/kg		U	0.6	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Total Xylene	0.53	ug/kg		U	0.53	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	trans-1,3-Dichloropropene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Trans-1,4-Dichloro-2-butene	0.59	ug/kg		U	0.59	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Trichloroethene	0.2	ug/kg		U	0.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Trichlorofluoromethane	0.91	ug/kg		U	0.91	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Uranium	0.62	mg/kg			0.0014	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Uranium-233/234	0.862	pCi/g	0.048	J	0.0254	2.5	4.5	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Uranium-235	0.0393	pCi/g	0.0118	J	0.025	2.5	4.5	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Uranium-236	0.0147	pCi/g	0.0072	U	0.0225	2.5	4.5	SOIL	REG	SPS	UJ	9/10/2011
WD-SB-33	WDSB33-04-4.5	RADS	Uranium-238	0.811	pCi/g	0.0464	J	0.0202	2.5	4.5	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Vanadium	36	mg/kg			0.089	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Vinyl acetate	0.94	ug/kg		U	0.94	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-4.5	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-4.5	METAL	Zinc	55	mg/kg			0.38	2.5	4.5	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	1,2,4-Trichlorobenzene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	1,2-Dichlorobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	10	12	SOIL	REG	SPS		9/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-33	WDSB33-01-12.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	1,3-Dichlorobenzene	11	ug/kg		U	11	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	1,4-Dichlorobenzene	13	ug/kg		U	13	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2,3,4,6-Tetrachlorophenol	130	ug/kg		U	130	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2,4,5-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2,4,6-Trichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2,4-Dichlorophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2,4-Dimethylphenol	62	ug/kg		U	62	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2,4-Dinitrophenol	320	ug/kg		U	320	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2,4-Dinitrotoluene	62	ug/kg		U	62	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2,6-Dinitrotoluene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	2-Chloroethyl vinyl ether	4.9	ug/kg		U	4.9	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2-Chloronaphthalene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2-Chlorophenol	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2-Methyl-4,6-dinitrophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2-Methylnaphthalene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2-Methylphenol	12	ug/kg		U	12	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2-Nitrobenzenamine	47	ug/kg		U	47	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	2-Nitrophenol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	3,3'-Dichlorobenzidine	85	ug/kg		U	85	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	3-Nitrobenzenamine	69	ug/kg		U	69	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	4-Bromophenyl phenyl ether	18	ug/kg		U	18	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	4-Chloro-3-methylphenol	62	ug/kg		U	62	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	4-Chlorobenzenamine	78	ug/kg		U	78	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	4-Chlorophenyl phenyl ether	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	4-Methylphenol	31	ug/kg		U	31	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	4-Nitrobenzenamine	69	ug/kg		U	69	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	4-Nitrophenol	92	ug/kg		U	92	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Acenaphthene	9.7	ug/kg		U	9.7	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Acenaphthylene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Acetone	12	ug/kg		J	5.3	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Acrolein	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Acrylonitrile	4.7	ug/kg		U	4.7	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Alpha activity	4.04	pCi/g	0.655	J	2.11	10	12	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Aluminum	11000	mg/kg			1.3	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Americium-241	0.0149	pCi/g	0.00915	U	0.0358	10	12	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Aniline	120	ug/kg		U	120	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Anthracene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Antimony	0.33	mg/kg		U	0.33	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Arsenic	12	mg/kg			0.045	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Barium	40	mg/kg			0.066	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Benz(a)anthracene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Benzaldehyde	63	ug/kg		U	63	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Benzene	0.46	ug/kg		U	0.46	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Benzenemethanol	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Benzo(a)pyrene	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Benzo(b)fluoranthene	25	ug/kg		U	25	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Benzo(ghi)perylene	15	ug/kg		U	15	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Benzo(k)fluoranthene	38	ug/kg		U	38	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Benzoic acid	310	ug/kg		U	310	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Beryllium	0.79	mg/kg			0.028	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Beta activity	0.00114	pCi/g	0.455	U	2.57	10	12	SOIL	REG	SPS	UJ	9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Bis(2-chloroethoxy)methane	22	ug/kg		U	22	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Bis(2-chloroethyl) ether	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Bis(2-chloroisopropyl) ether	22	ug/kg		U	22	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Bis(2-ethylhexyl)phthalate	44	ug/kg		U	44	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Bromoform	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Butyl benzyl phthalate	41	ug/kg		U	41	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Cadmium	0.052	mg/kg		B	0.035	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Calcium	760	mg/kg			12	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Carbazole	34	ug/kg		U	34	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Cesium-137	0.0154	pCi/g	0.0468	U	0.14	10	12	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Chloroethane	0.87	ug/kg		U	0.87	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Chloroform	0.28	ug/kg		U	0.28	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Chloromethane	0.75	ug/kg		U	0.75	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Chromium	18	mg/kg			0.05	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Chrysene	26	ug/kg		U	26	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Cobalt	14	mg/kg			0.086	10	12	SOIL	REG	SPS		9/10/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-33	WDSB33-03-12.0	METAL	Copper	19	mg/kg			0.19	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Dibenz(a,h)anthracene	18	ug/kg		U	18	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Dibenzofuran	19	ug/kg		U	19	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Dibromomethane	0.82	ug/kg		U	0.82	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Diethyl phthalate	25	ug/kg		U	25	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Dimethyl phthalate	22	ug/kg		U	22	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Di-n-butyl phthalate	27	ug/kg		U	27	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Di-n-octylphthalate	14	ug/kg		U	14	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Diphenyldiazene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Ethyl methacrylate	0.59	ug/kg		U	0.59	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Fluoranthene	34	ug/kg		U	34	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Fluorene	17	ug/kg		U	17	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Hexachlorobenzene	27	ug/kg		U	27	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Hexachlorobutadiene	9.5	ug/kg		U	9.5	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Hexachlorocyclopentadiene	47	ug/kg		U	47	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Hexachloroethane	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Indeno(1,2,3-cd)pyrene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Iodomethane	0.43	ug/kg		U	0.43	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Iron	20000	mg/kg			3.3	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Isophorone	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Lead	14	mg/kg			0.23	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	M + P Xylene	1	ug/kg		U	1	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Magnesium	3700	mg/kg			3.2	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Manganese	310	mg/kg			0.086	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Mercury	0.015	mg/kg			0.005	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Methylene chloride	4	ug/kg		BJ	0.74	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Molybdenum	0.22	mg/kg		U	0.22	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Naphthalene	29	ug/kg		U	29	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Neptunium-237	-0.0033	pCi/g	0.0119	U	0.0673	10	12	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Nickel	28	mg/kg			0.11	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Nitrobenzene	21	ug/kg		U	21	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	N-Nitrosodimethylamine	35	ug/kg		U	35	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	N-Nitroso-di-n-propylamine	29	ug/kg		U	29	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	N-Nitrosodiphenylamine	20	ug/kg		U	20	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	PPCB	PCB-1016	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	PPCB	PCB-1221	0.015	mg/kg		U	0.015	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	PPCB	PCB-1232	0.0051	mg/kg		U	0.0051	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	PPCB	PCB-1242	0.0091	mg/kg		U	0.0091	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	PPCB	PCB-1248	0.0056	mg/kg		U	0.0056	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	PPCB	PCB-1254	0.0055	mg/kg		U	0.0055	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	PPCB	PCB-1260	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Pentachlorophenol	310	ug/kg		U	310	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Phenanthrene	16	ug/kg		U	16	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Phenol	17	ug/kg		U	17	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Plutonium-238	0.00942	pCi/g	0.00628	U	0.024	10	12	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Plutonium-239/240	0.0251	pCi/g	0.00993	U	0.0301	10	12	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-02-12.0	PPCB	Polychlorinated biphenyl	0.0026	mg/kg		U	0.0026	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Pyrene	11	ug/kg		U	11	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-02-12.0	SVOA	Pyridine	120	ug/kg		U	120	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Selenium	0.64	mg/kg			0.12	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Silver	0.14	mg/kg		U	0.14	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Sodium	220	mg/kg		B	51	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Styrene	0.62	ug/kg		U	0.62	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Technetium-99	0.00111	pCi/g	0.155	U	0.521	10	12	SOIL	REG	SPS	U	9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Thallium	0.18	mg/kg			0.0031	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Thorium-228	1.29	pCi/g	0.0701	J	0.0362	10	12	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Thorium-230	0.956	pCi/g	0.0598	J	0.0355	10	12	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Thorium-232	1.16	pCi/g	0.0657	J	0.0283	10	12	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Toluene	0.68	ug/kg		U	0.68	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	trans-1,3-Dichloropropene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Trans-1,4-Dichloro-2-butene	0.66	ug/kg		U	0.66	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Uranium	0.51	mg/kg			0.0014	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Uranium-233/234	0.865	pCi/g	0.049	J	0.0211	10	12	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Uranium-235	0.0409	pCi/g	0.0123	J	0.0261	10	12	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Uranium-236	0.00918	pCi/g	0.00612	U	0.0234	10	12	SOIL	REG	SPS	UJ	9/10/2011
WD-SB-33	WDSB33-04-12.0	RADS	Uranium-238	0.87	pCi/g	0.049	J	0.0211	10	12	SOIL	REG	SPS	J	9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Vanadium	23	mg/kg			0.081	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Vinyl acetate	1	ug/kg		U	1	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-01-12.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-03-12.0	METAL	Zinc	97	mg/kg			0.34	10	12	SOIL	REG	SPS		9/10/2011
WD-SB-33	WDSB33-33-CU01	RADS	Alpha activity	4.44	pCi/g	0.699	J	2.27	13	13.5	SOLID	REG	GRA		9/11/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-33	WDSB33-33-CU01	RADS	Americium-241	0.00287	pCi/g	0.00862	U	0.0464	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Beta activity	3.33	pCi/g	0.671	U	2.92	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Cesium-137	-0.0143	pCi/g	0.0618	U	0.173	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Neptunium-237	0.01	pCi/g	0.00613	U	0.024	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Plutonium-238	-0.00275	pCi/g	-0.00388	U	0.0263	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Plutonium-239/240	0.0165	pCi/g	0.00776	U	0.0263	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Technetium-99	0.229	pCi/g	0.154	U	0.507	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Thorium-228	1.34	pCi/g	0.0708	J	0.0285	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Thorium-230	0.953	pCi/g	0.0587	J	0.0275	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Thorium-232	1.28	pCi/g	0.0678	J	0.0275	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Uranium-233/234	0.806	pCi/g	0.0448	J	0.0237	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Uranium-235	0.0275	pCi/g	0.00965	U	0.0233	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Uranium-236	0.0137	pCi/g	0.00671	U	0.021	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU01	RADS	Uranium-238	0.901	pCi/g	0.0472	J	0.0188	13	13.5	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Aluminum	13000	mg/kg			1.5	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Antimony	0.37	mg/kg		U	0.37	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Arsenic	14	mg/kg			0.045	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Barium	41	mg/kg			0.075	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Beryllium	0.83	mg/kg			0.032	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Cadmium	0.046	mg/kg		B	0.04	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Calcium	710	mg/kg			14	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Chromium	19	mg/kg			0.057	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Cobalt	9.8	mg/kg			0.098	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Copper	22	mg/kg			0.21	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Iron	19000	mg/kg			3.7	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Lead	11	mg/kg			0.26	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Magnesium	3700	mg/kg			3.6	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Manganese	120	mg/kg			0.098	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Mercury	0.014	mg/kg		B	0.005	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Molybdenum	0.25	mg/kg		U	0.25	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Nickel	27	mg/kg			0.12	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Selenium	0.12	mg/kg		U	0.12	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Silver	0.16	mg/kg		U	0.16	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Sodium	250	mg/kg		B	58	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Thallium	0.12	mg/kg			0.0031	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Uranium	0.43	mg/kg			0.0014	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Vanadium	30	mg/kg			0.092	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU01	METAL	Zinc	56	mg/kg			0.39	13.6	14	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Alpha activity	5.38	pCi/g	0.778		2.33	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Americium-241	0.0434	pCi/g	0.0112	J	0.0207	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Beta activity	-0.329	pCi/g	0.517	U	2.92	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Cesium-137	0.00793	pCi/g	0.0449	U	0.131	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Neptunium-237	-0.00894	pCi/g	0.00988	U	0.0608	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Plutonium-238	0.00252	pCi/g	0.00356	U	0.0193	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Plutonium-239/240	0.0252	pCi/g	0.00942	U	0.031	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Technetium-99	0.254	pCi/g	0.161	U	0.531	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Thorium-228	1.43	pCi/g	0.0729	J	0.059	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Thorium-230	1.12	pCi/g	0.0631	J	0.027	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Thorium-232	1.22	pCi/g	0.0656	J	0.027	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Uranium-233/234	0.741	pCi/g	0.0432	J	0.024	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Uranium-235	0.0154	pCi/g	0.00756	U	0.0236	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Uranium-236	0.0222	pCi/g	0.00832	U	0.0212	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-33-CU10	RADS	Uranium-238	0.852	pCi/g	0.0461	J	0.0191	22.95	23.4	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Aluminum	3800	mg/kg			1.5	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Antimony	0.36	mg/kg		U	0.36	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Arsenic	11	mg/kg			0.047	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Barium	27	mg/kg			0.072	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Beryllium	0.43	mg/kg		B	0.031	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Cadmium	0.039	mg/kg		U	0.039	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Calcium	4400	mg/kg			13	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-09-CU10	GTEC	Cation Exchange Capacity	0.0633	meq/g			0.00136	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Chromium	10	mg/kg			0.055	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Cobalt	3.9	mg/kg			0.094	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Copper	6.4	mg/kg			0.2	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-07-CU10	WETCHEM	Distribution coefficient, Kd, Tc-99	4.48	mL/g				23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-07-CU10	WETCHEM	Distribution coefficient, Kd, Uranium	5.11	mL/g				23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Iron	76000	mg/kg			3.6	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Lead	13	mg/kg			0.25	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Magnesium	5200	mg/kg			3.5	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Manganese	1200	mg/kg			0.094	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Mercury	0.019	mg/kg			0.005	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Molybdenum	0.25	mg/kg		U	0.25	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Nickel	14	mg/kg			0.12	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Selenium	0.12	mg/kg		U	0.12	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Silver	0.35	mg/kg		B	0.15	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Sodium	190	mg/kg		B	56	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Thallium	0.051	mg/kg		B	0.0033	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	WETCHEM	Total Organic Carbon (TOC)	3.2	g/kg		B	1.7	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Uranium	0.35	mg/kg			0.0015	23.4	23.7	SOLID	REG	GRA		9/11/2011

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-33	WDSB33-32-CU10	METAL	Vanadium	48	mg/kg			0.089	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-CU10	METAL	Zinc	49	mg/kg			0.38	23.4	23.7	SOLID	REG	GRA		9/11/2011
WD-SB-33	WDSB33-32-SU01	METAL	Aluminum	10000	mg/kg			1.4	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Antimony	0.36	mg/kg		U	0.36	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Arsenic	88	mg/kg			0.049	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Barium	36	mg/kg			0.071	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Beryllium	0.88	mg/kg			0.031	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Cadmium	20	mg/kg			0.038	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Calcium	1100	mg/kg			13	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Chromium	23	mg/kg			0.054	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Cobalt	23	mg/kg			0.093	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Copper	57	mg/kg			0.2	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Iron	34000	mg/kg			3.6	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Lead	37	mg/kg			0.25	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Magnesium	3600	mg/kg			3.5	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Manganese	100	mg/kg			0.093	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Mercury	0.14	mg/kg			0.005	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Molybdenum	89	mg/kg			0.24	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Nickel	170	mg/kg			0.11	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Selenium	21	mg/kg			0.13	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Silver	1.8	mg/kg			0.15	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Sodium	890	mg/kg			55	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Thallium	8.2	mg/kg			0.0034	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Uranium	4.7	mg/kg			0.0015	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Vanadium	220	mg/kg			0.088	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU01	METAL	Zinc	540	mg/kg			0.37	107.6	108.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Alpha activity	17.3	pCi/g	1.36		2.39	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Americium-241	0.0474	pCi/g	0.0139	U	0.0426	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Beta activity	3.19	pCi/g	0.751	U	2.99	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Cesium-137	0.0402	pCi/g	0.0432	U	0.19	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Neptunium-237	0	pCi/g	0.00478	U	0.0323	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Plutonium-238	0	pCi/g	0.00359	U	0.0243	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Plutonium-239/240	0.0177	pCi/g	0.00716	U	0.0194	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Technetium-99	0.0854	pCi/g	0.162	U	0.541	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Thorium-228	1.33	pCi/g	0.0764	J	0.0419	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Thorium-230	6.56	pCi/g	0.167		0.0406	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Thorium-232	1.1	pCi/g	0.0686	J	0.052	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Uranium-233/234	6.56	pCi/g	0.128		0.019	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Uranium-235	0.3	pCi/g	0.0304	J	0.0234	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Uranium-236	0.0522	pCi/g	0.0123	J	0.021	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU01	RADS	Uranium-238	6.37	pCi/g	0.125		0.0189	108.2	108.6	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Alpha activity	14.6	pCi/g	1.24		2.36	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Americium-241	0.00827	pCi/g	0.00914	U	0.0445	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Beta activity	3.63	pCi/g	0.737	U	2.91	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-09-SU10	GTEC	Cation Exchange Capacity	0.0994	meq/g			0.00134	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Cesium-137	0.0835	pCi/g	0.0582	U	0.182	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-07-SU10	WETCHEM	Distribution coefficient, Kd, Tc-99	174	mL/g				116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-07-SU10	WETCHEM	Distribution coefficient, Kd, Uranium	74.2	mL/g				116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Neptunium-237	0.00755	pCi/g	0.00653	U	0.0289	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Plutonium-238	-0.00266	pCi/g	-0.00595	U	0.0383	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Plutonium-239/240	0.0186	pCi/g	0.00752	U	0.0203	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Technetium-99	-0.213	pCi/g	0.154	U	0.526	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Thorium-228	1.13	pCi/g	0.0814	J	0.0704	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Thorium-230	4.77	pCi/g	0.159		0.0503	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Thorium-232	0.892	pCi/g	0.0688	J	0.0502	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Uranium-233/234	5.99	pCi/g	0.128		0.0209	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Uranium-235	0.287	pCi/g	0.0315	J	0.0323	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Uranium-236	0.0364	pCi/g	0.0113	U	0.029	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-SU10	RADS	Uranium-238	6.2	pCi/g	0.13		0.0208	116.6	117.1	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Aluminum	5900	mg/kg			1.5	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Antimony	0.37	mg/kg		U	0.37	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Arsenic	30	mg/kg			0.049	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Barium	26	mg/kg			0.073	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Beryllium	0.49	mg/kg			0.032	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Cadmium	0.46	mg/kg		B	0.039	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Calcium	730	mg/kg			14	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Chromium	9.2	mg/kg			0.056	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Cobalt	10	mg/kg			0.096	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Copper	38	mg/kg			0.21	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Iron	23000	mg/kg			3.7	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Lead	10	mg/kg			0.26	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Magnesium	2100	mg/kg			3.6	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Manganese	81	mg/kg			0.096	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Mercury	0.089	mg/kg			0.0054	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Molybdenum	22	mg/kg			0.25	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Nickel	54	mg/kg			0.12	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Selenium	2.9	mg/kg			0.13	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Silver	0.24	mg/kg		B	0.15	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Sodium	610	mg/kg			57	117.1	117.4	SOLID	REG	GRA		9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-33	WDSB33-32-SU10	METAL	Thallium	2.6	mg/kg			0.0034	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	WETCHEM	Total Organic Carbon (TOC)	97	g/kg			1.7	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Uranium	19	mg/kg			0.0015	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Vanadium	21	mg/kg			0.09	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-SU10	METAL	Zinc	46	mg/kg			0.38	117.1	117.4	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Aluminum	1800	mg/kg			1.5	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Antimony	0.36	mg/kg		U	0.36	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Arsenic	23	mg/kg			0.047	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Barium	13	mg/kg			0.072	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Beryllium	0.15	mg/kg		B	0.031	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Cadmium	0.19	mg/kg		B	0.039	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Calcium	5600	mg/kg			13	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Chromium	11	mg/kg			0.055	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Cobalt	9.1	mg/kg			0.094	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Copper	7.7	mg/kg			0.2	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Iron	20000	mg/kg			3.6	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Lead	27	mg/kg			0.25	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Magnesium	1900	mg/kg			3.5	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Manganese	180	mg/kg			0.094	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Mercury	0.0093	mg/kg		B	0.005	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Molybdenum	2.1	mg/kg			0.25	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Nickel	25	mg/kg			0.12	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Selenium	1.1	mg/kg			0.12	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Silver	0.15	mg/kg		U	0.15	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Sodium	190	mg/kg		B	56	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Thallium	0.15	mg/kg			0.0033	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Uranium	1.9	mg/kg			0.0015	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Vanadium	21	mg/kg			0.089	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE01	METAL	Zinc	17	mg/kg			0.38	128	128.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Alpha activity	3.28	pCi/g	0.618	J	2.27	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Americium-241	0.0442	pCi/g	0.011	J	0.0235	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Beta activity	2.71	pCi/g	0.649	U	2.96	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Cesium-137	0.0187	pCi/g	0.0492	U	0.147	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Neptunium-237	0	pCi/g	0.00301	U	0.0203	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Plutonium-238	0.00425	pCi/g	0.00425	U	0.0203	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Plutonium-239/240	0.0191	pCi/g	0.00671	U	0.0162	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Technetium-99	0.455	pCi/g	0.164	U	0.533	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Thorium-228	1.21	pCi/g	0.0519	J	0.0212	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Thorium-230	1.17	pCi/g	0.0502	J	0.0205	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Thorium-232	1.23	pCi/g	0.0513	J	0.0164	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Uranium-233/234	1.11	pCi/g	0.0488	J	0.0164	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Uranium-235	0.0264	pCi/g	0.00915	U	0.0253	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Uranium-236	0.0213	pCi/g	0.0075	U	0.0181	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE01	RADS	Uranium-238	1.02	pCi/g	0.0468	J	0.0163	128.5	129	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Aluminum	1100	mg/kg			1.5	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Antimony	0.38	mg/kg		U	0.38	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Arsenic	25	mg/kg			0.046	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Barium	6.6	mg/kg			0.075	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Beryllium	0.089	mg/kg		B	0.033	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Cadmium	0.18	mg/kg		B	0.041	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Calcium	18000	mg/kg			14	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-09-BE10	GTEC	Cation Exchange Capacity	0.00625	meq/g			0.00136	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Chromium	3.6	mg/kg			0.057	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Cobalt	4.3	mg/kg			0.099	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Copper	2.8	mg/kg			0.21	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-07-BE10	WETCHEM	Distribution coefficient, Kd, Tc-99	3.82	mL/g				138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-07-BE10	WETCHEM	Distribution coefficient, Kd, Uranium	3.31	mL/g				138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Iron	17000	mg/kg			3.8	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Lead	5.5	mg/kg			0.27	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Magnesium	4900	mg/kg			3.7	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Manganese	350	mg/kg			0.099	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Mercury	0.0049	mg/kg		U	0.0049	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Molybdenum	0.26	mg/kg		U	0.26	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Nickel	7.4	mg/kg			0.12	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Selenium	0.12	mg/kg		U	0.12	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Silver	0.16	mg/kg		U	0.16	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Sodium	150	mg/kg		B	58	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Thallium	0.017	mg/kg		B	0.0032	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	WETCHEM	Total Organic Carbon (TOC)	2.1	g/kg		B	1.7	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Uranium	0.21	mg/kg			0.0014	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Vanadium	8.1	mg/kg			0.093	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-32-BE10	METAL	Zinc	8.9	mg/kg			0.39	138	138.5	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Alpha activity	4.52	pCi/g	0.709	J	2.3	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Americium-241	0.0271	pCi/g	0.00954	U	0.0303	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Beta activity	1.03	pCi/g	0.575	U	2.9	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Cesium-137	-0.0158	pCi/g	0.0557	U	0.155	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Neptunium-237	0.00932	pCi/g	0.00521	U	0.0178	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Plutonium-238	0	pCi/g	0.00331	U	0.0179	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Plutonium-239/240	0.0164	pCi/g	0.00702	U	0.0224	138.5	139	SOLID	REG	GRA		9/12/2011

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-33	WDSB33-33-BE10	RADS	Technetium-99	0.255	pCi/g	0.162	U	0.533	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Thorium-228	1.32	pCi/g	0.0547	J	0.0216	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Thorium-230	1.02	pCi/g	0.0471	J	0.0167	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Thorium-232	1.29	pCi/g	0.0531	J	0.0167	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Uranium-233/234	0.925	pCi/g	0.0455	J	0.0171	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Uranium-235	0.0386	pCi/g	0.0107	J	0.0211	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Uranium-236	0.00495	pCi/g	0.00495	U	0.0237	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-33	WDSB33-33-BE10	RADS	Uranium-238	0.847	pCi/g	0.0435	J	0.017	138.5	139	SOLID	REG	GRA		9/12/2011
WD-SB-49	WDSB49-01-1.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	1,2,4-Trichlorobenzene	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,2-Dibromo-3-chloropropane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	1,2-Dichlorobenzene	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,2-Dichloroethene	0.35	ug/kg		U	0.35	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	1,3-Dichlorobenzene	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	1,4-Dichlorobenzene	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	VOA	1,4-Dioxane	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2,4,5-Trichlorophenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2,4,6-Trichlorophenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	HERB	2,4-D	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	2,4'-DDD	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	2,4'-DDE	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	2,4'-DDT	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2,4-Dichlorophenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2,4-Dimethylphenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2,4-Dinitrophenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2,4-Dinitrotoluene	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2,6-Dinitrotoluene	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	2-Butanone	1.7	ug/kg		J	1.7	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2-Chloronaphthalene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2-Chlorophenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	2-Hexanone	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2-Methyl-4,6-dinitrophenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2-Methylnaphthalene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2-Methylphenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2-Nitrobenzenamine	54.3	ug/kg		U	54.3	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	2-Nitrophenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	3,3'-Dichlorobenzidine	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	3-Nitrobenzenamine	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	4-Aminobiphenyl	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	4-Bromophenyl phenyl ether	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	4-Chloro-3-methylphenol	65.8	ug/kg		U	65.8	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	4-Chlorobenzenamine	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	4-Chlorophenyl phenyl ether	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	4-Nitrobenzenamine	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	4-Nitrophenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Acenaphthene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Acenaphthylene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Acetone	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Acetonitrile	18	ug/kg		U	18	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Acetophenone	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Acrylonitrile	9.1	ug/kg		U	9.1	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Aldrin	0.238	ug/kg		JP	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	alpha-BHC	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	alpha-Chlordane	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Anthracene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Benz(a)anthracene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Benzene	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Benzenemethanol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Benzo(a)pyrene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Benzo(b)fluoranthene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Benzo(ghi)perylene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Benzo(k)fluoranthene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Benzoic acid	82.3	ug/kg		U	82.3	0	2	SOIL	REG	SPS		9/5/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-49	WDSB49-02-1.0	PPCB	beta-BHC	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Bis(2-chloroethoxy)methane	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Bis(2-chloroethyl) ether	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	bis(2-Chloroisopropyl)ether	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Bis(2-ethylhexyl)phthalate	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Bromoform	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Bromomethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Butyl benzyl phthalate	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Chlordane	0.664	ug/kg		U	0.664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Chloroethane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Chloroform	0.26	ug/kg		U	0.26	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Chloromethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Chrysene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	HERB	Dalapon	3.99	ug/kg		U	3.99	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	delta-BHC	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Dibenz(a,h)anthracene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Dibenzofuran	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	HERB	Dicamba	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Diethyl phthalate	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Dimethyl phthalate	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Di-n-butyl phthalate	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Di-n-octylphthalate	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Diphenylamine	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Endosulfan I	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Endrin	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Ethyl cyanide	6.8	ug/kg		U	6.8	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Fluoranthene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Fluorene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	gamma-Chlordane	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Heptachlor	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Heptachlor epoxide	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Hexachlorobutadiene	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Hexachlorocyclopentadiene	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Hexachloroethane	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Indeno(1,2,3-cd)pyrene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Isobutanol	25	ug/kg		U	25	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Isophorone	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Kepone	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Lindane	0.0664	ug/kg		U	0.0664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	M + P Xylene	0.94	ug/kg		U	0.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	m+p Methylphenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	HERB	MCPA	45.9	ug/kg		U	45.9	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	HERB	MCPP	39.9	ug/kg		U	39.9	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Methoxychlor	0.808	ug/kg		BJ	0.664	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Methylene chloride	1.7	ug/kg		BJ	1.5	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	WETCHEM	Moisture	16.2	%				0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Naphthalene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Nitrobenzene	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	N-Nitrosodimethylamine	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	N-Nitroso-di-n-propylamine	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	N-Nitrosomorpholine	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	O,O,O-Triethylphosphorothioate	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	PCB-1016	1.08	ug/kg		U	1.08	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	PCB-1221	1.08	ug/kg		U	1.08	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	PCB-1232	1.08	ug/kg		U	1.08	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	PCB-1242	1.08	ug/kg		U	1.08	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	PCB-1248	1.08	ug/kg		U	1.08	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	PCB-1254	1.08	ug/kg		U	1.08	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	PCB-1260	1.08	ug/kg		U	1.08	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	PCB-1268	1.08	ug/kg		U	1.08	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Phenanthrene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-49	WDSB49-02-1.0	SVOA	Phenol	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Polychlorinated biphenyl	1.08	ug/kg		U	1.08	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Pyrene	4.94	ug/kg		U	4.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	SVOA	Pyridine	49.4	ug/kg		U	49.4	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	HERB	Silvex	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Styrene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Toluene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Total Xylene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-1.0	PPCB	Toxaphene	2.21	ug/kg		U	2.21	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Trichlorofluoromethane	0.94	ug/kg		U	0.94	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-1.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.231	ug/kg		U	0.231	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.115	ug/kg		J	0.231	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.231	ug/kg		U	0.231	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.231	ug/kg		U	0.231	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.231	ug/kg		U	0.231	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.231	ug/kg		U	0.231	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.231	ug/kg		U	0.231	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.231	ug/kg		U	0.231	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.231	ug/kg		U	0.231	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0926	ug/kg		U	0.0926	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0926	ug/kg		U	0.0926	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.231	ug/kg		U	0.231	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0926	ug/kg		U	0.0926	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.0926	ug/kg		U	0.0926	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0926	ug/kg		U	0.0926	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Aluminum	19000	mg/kg			1.5	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Americium-241	-0.00145	pCi/g	0.00752	U	0.016	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Antimony	0.56	mg/kg			0.028	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Arsenic	9.5	mg/kg			0.043	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Barium	80	mg/kg			0.06	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Beryllium	0.56	mg/kg			0.019	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Cadmium	0.22	mg/kg			0.008	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Calcium	660	mg/kg			14	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Chromium	18	mg/kg			0.065	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-05-1.0	WETCHEM	Chromium, hexavalent	5	mg/kg		U	5	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Chromium, trivalent	20	mg/kg		U	20	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Cobalt	5.4	mg/kg			0.0057	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Copper	15	mg/kg			0.061	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-06-1.0	WETCHEM	Cyanide	0.1	mg/kg		U	0.1	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-05-1.0	ANION	Fluoride	1.4	mg/kg		B	0.81	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Iron	25000	mg/kg			3.7	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Lead	11	mg/kg			0.016	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Lithium	18	mg/kg			0.29	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Magnesium	3000	mg/kg			3.6	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Manganese	120	mg/kg			0.028	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Mercury	0.0064	mg/kg		U	0.0064	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Neptunium-237	0	pCi/g	0.00958	U	0.0191	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Nickel	15	mg/kg			0.022	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	19.9	ug/kg			0.463	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-1.0	DI/FURA	Octachlorodibenzofuran	0.463	ug/kg		U	0.463	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Plutonium-238	0.0113	pCi/g	0.0147	U	0.0216	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Plutonium-239/240	0.00677	pCi/g	0.016	U	0.0278	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Potassium	1400	mg/kg			40	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Selenium	1.4	mg/kg			0.11	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Silver	0.021	mg/kg		B	0.02	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Sodium	73	mg/kg		B	57	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Strontium	12	mg/kg			0.035	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Technetium-99	0.218	pCi/g	0.193	U	0.318	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Thallium	0.44	mg/kg			0.003	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Thorium-228	0.989	pCi/g	0.17		0.11	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Thorium-230	1.17	pCi/g	0.183		0.111	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Thorium-232	0.764	pCi/g	0.144		0.0653	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Tin	1.2	mg/kg		B	0.89	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Titanium	130	mg/kg			0.14	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Uranium	0.82	mg/kg			0.0013	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Uranium-233/234	0.849	pCi/g	0.125		0.0572	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Uranium-235/236	0.0633	pCi/g	0.0412		0.0374	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-1.0	RADS	Uranium-238	0.81	pCi/g	0.12		0.0371	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Vanadium	28	mg/kg			0.033	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-1.0	METAL	Zinc	53	mg/kg			0.27	2	4	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,1,1-Trichloroethane	0.48	ug/kg		U	0.48	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,1,2,2-Tetrachloroethane	0.56	ug/kg		U	0.56	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.41	ug/kg		U	0.41	6	8	SOIL	REG	SPS		9/5/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-49	WDSB49-01-8.0	VOA	1,1,2-Trichloroethane	0.81	ug/kg		U	0.81	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,1-Dichloroethene	0.54	ug/kg		U	0.54	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,2,3-Trichloropropane	0.74	ug/kg		U	0.74	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	1,2,4-Trichlorobenzene	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,2-Dibromo-3-chloropropane	0.55	ug/kg		U	0.55	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	1,2-Dichlorobenzene	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,2-Dichloroethane	0.64	ug/kg		U	0.64	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,2-Dichloroethene	0.36	ug/kg		U	0.36	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	1,2-Dimethylbenzene	0.56	ug/kg		U	0.56	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	1,3-Dichlorobenzene	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	1,4-Dichlorobenzene	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	VOA	1,4-Dioxane	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2,4,5-Trichlorophenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2,4,6-Trichlorophenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	HERB	2,4-D	0.331	ug/kg		U	0.331	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	2,4'-DDD	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	2,4'-DDE	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	2,4'-DDT	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2,4-Dichlorophenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2,4-Dimethylphenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2,4-Dinitrophenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2,4-Dinitrotoluene	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2,6-Dinitrotoluene	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2-Chloronaphthalene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2-Chlorophenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	2-Hexanone	4.5	ug/kg		U	4.5	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2-Methyl-4,6-dinitrophenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2-Methylnaphthalene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2-Methylphenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2-Nitrobenzenamine	53.5	ug/kg		U	53.5	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	2-Nitrophenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	3,3'-Dichlorobenzidine	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	3-Nitrobenzenamine	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	4-Aminobiphenyl	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	4-Bromophenyl phenyl ether	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	4-Chloro-3-methylphenol	64.9	ug/kg		U	64.9	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	4-Chlorobenzenamine	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	4-Chlorophenyl phenyl ether	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	4-Methyl-2-pentanone	4	ug/kg		U	4	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	4-Nitrobenzenamine	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	4-Nitrophenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Acenaphthene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Acenaphthylene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Acetone	4.9	ug/kg		U	4.9	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Acetonitrile	18	ug/kg		U	18	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Acetophenone	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Acrylonitrile	9.2	ug/kg		U	9.2	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Aldrin	0.138	ug/kg		JP	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	alpha-BHC	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	alpha-Chlordane	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Anthracene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Benz(a)anthracene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Benzene	0.43	ug/kg		U	0.43	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Benzenemethanol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Benzo(a)pyrene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Benzo(b)fluoranthene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Benzo(ghi)perylene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Benzo(k)fluoranthene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Benzoic acid	81.1	ug/kg		U	81.1	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	beta-BHC	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Bis(2-chloroethoxy)methane	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Bis(2-chloroethyl) ether	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	bis(2-Chloroisopropyl)ether	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Bis(2-ethylhexyl)phthalate	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Bromoform	0.21	ug/kg		U	0.21	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Bromomethane	0.46	ug/kg		U	0.46	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Butyl benzyl phthalate	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Carbon tetrachloride	0.58	ug/kg		U	0.58	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Chlordane	0.664	ug/kg		U	0.664	6	8	SOIL	REG	SPS		9/5/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-49	WDSB49-01-8.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Chloroethane	0.82	ug/kg		U	0.82	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Chloroform	0.27	ug/kg		U	0.27	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Chloromethane	0.71	ug/kg		U	0.71	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Chrysene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	HERB	Dalapon	3.99	ug/kg		U	3.99	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	delta-BHC	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Dibenz(a,h)anthracene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Dibenzofuran	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	HERB	Dicamba	0.331	ug/kg		U	0.331	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Dichlorodifluoromethane	0.48	ug/kg		U	0.48	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Diethyl phthalate	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Dimethyl phthalate	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Di-n-butyl phthalate	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Di-n-octylphthalate	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Diphenylamine	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Endosulfan I	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Endrin	0.133	ug/kg		U	0.133	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Ethyl cyanide	6.9	ug/kg		U	6.9	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Ethylbenzene	0.62	ug/kg		U	0.62	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Fluoranthene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Fluorene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	gamma-Chlordane	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Heptachlor	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Heptachlor epoxide	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Hexachlorobutadiene	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Hexachlorocyclopentadiene	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Hexachloroethane	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Indeno(1,2,3-cd)pyrene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Isobutanol	25	ug/kg		U	25	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Isophorone	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Kepone	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Lindane	0.0664	ug/kg		U	0.0664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	M + P Xylene	0.96	ug/kg		U	0.96	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	m+p Methylphenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	HERB	MCPA	45.9	ug/kg		U	45.9	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	HERB	MCPP	39.9	ug/kg		U	39.9	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Methoxychlor	0.664	ug/kg		U	0.664	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Methylene chloride	1.5	ug/kg		U	1.5	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	WETCHEM	Moisture	14.9	%				6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Naphthalene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Nitrobenzene	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	N-Nitrosodimethylamine	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	N-Nitroso-di-n-propylamine	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	N-Nitrosomorpholine	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	O,O,O-Triethylphosphorothioate	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	PCB-1016	1.08	ug/kg		U	1.08	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	PCB-1221	1.08	ug/kg		U	1.08	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	PCB-1232	1.08	ug/kg		U	1.08	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	PCB-1242	1.08	ug/kg		U	1.08	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	PCB-1248	1.08	ug/kg		U	1.08	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	PCB-1254	1.08	ug/kg		U	1.08	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	PCB-1260	1.08	ug/kg		U	1.08	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	PCB-1268	1.08	ug/kg		U	1.08	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Phenanthrene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Phenol	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Polychlorinated biphenyl	1.08	ug/kg		U	1.08	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Pyrene	4.87	ug/kg		U	4.87	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	SVOA	Pyridine	48.7	ug/kg		U	48.7	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	HERB	Silvex	0.331	ug/kg		U	0.331	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Styrene	0.58	ug/kg		U	0.58	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Tetrachloroethene	0.54	ug/kg		U	0.54	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Toluene	0.63	ug/kg		U	0.63	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Total Xylene	0.56	ug/kg		U	0.56	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-02-8.0	PPCB	Toxaphene	2.21	ug/kg		U	2.21	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	6	8	SOIL	REG	SPS		9/5/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-49	WDSB49-01-8.0	VOA	Trichlorofluoromethane	0.96	ug/kg		U	0.96	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Vinyl acetate	0.98	ug/kg		U	0.98	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-8.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	6	8	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/kg		U	0.44	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.278	ug/kg		U	0.278	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0267	ug/kg		J	0.278	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.278	ug/kg		U	0.278	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.278	ug/kg		U	0.278	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.278	ug/kg		U	0.278	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.278	ug/kg		U	0.278	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.278	ug/kg		U	0.278	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.278	ug/kg		U	0.278	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.278	ug/kg		U	0.278	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.111	ug/kg		U	0.111	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.111	ug/kg		U	0.111	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	1,2,4-Trichlorobenzene	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,2-Dibromo-3-chloropropane	0.59	ug/kg		U	0.59	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	1,2-Dichlorobenzene	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,2-Dichloroethene	0.38	ug/kg		U	0.38	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	1,3-Dichlorobenzene	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	1,4-Dichlorobenzene	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	VOA	1,4-Dioxane	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.278	ug/kg		U	0.278	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.111	ug/kg		U	0.111	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.111	ug/kg		U	0.111	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.111	ug/kg		U	0.111	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2,4,5-Trichlorophenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2,4,6-Trichlorophenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	HERB	2,4-D	0.331	ug/kg		U	0.331	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	2,4'-DDD	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	2,4'-DDE	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	2,4'-DDT	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2,4-Dichlorophenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2,4-Dimethylphenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2,4-Dinitrophenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2,4-Dinitrotoluene	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2,6-Dinitrotoluene	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2-Chloronaphthalene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2-Chlorophenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2-Methyl-4,6-dinitrophenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2-Methylnaphthalene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2-Methylphenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2-Nitrobenzenamine	54.1	ug/kg		U	54.1	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	2-Nitrophenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	3,3'-Dichlorobenzidine	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	3-Nitrobenzenamine	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	4-Aminobiphenyl	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	4-Bromophenyl phenyl ether	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	4-Chloro-3-methylphenol	65.6	ug/kg		U	65.6	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	4-Chlorobenzenamine	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	4-Chlorophenyl phenyl ether	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	4-Nitrobenzenamine	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	4-Nitrophenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Acenaphthene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Acenaphthylene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Acetone	5.3	ug/kg		U	5.3	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Acetonitrile	20	ug/kg		U	20	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Acetophenone	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Acrylonitrile	9.8	ug/kg		U	9.8	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Aldrin	0.137	ug/kg		JP	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	alpha-BHC	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-49	WDSB49-09-8.0	PPCB	alpha-Chlordane	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Aluminum	16000	mg/kg			1.4	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Americium-241	0.0118	pCi/g	0.0138	U	0.018	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Anthracene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Antimony	0.66	mg/kg			0.027	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Arsenic	20	mg/kg			0.046	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Barium	66	mg/kg			0.064	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Benz(a)anthracene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Benzene	0.46	ug/kg		U	0.46	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Benzenemethanol	66.8	ug/kg		J	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Benzo(a)pyrene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Benzo(b)fluoranthene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Benzo(ghi)perylene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Benzo(k)fluoranthene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Benzoic acid	82	ug/kg		U	82	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Beryllium	0.71	mg/kg			0.02	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	beta-BHC	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Bis(2-chloroethoxy)methane	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Bis(2-chloroethyl) ether	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	bis(2-Chloroisopropyl)ether	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Bis(2-ethylhexyl)phthalate	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Bromoform	0.23	ug/kg		U	0.23	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Butyl benzyl phthalate	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Cadmium	0.13	mg/kg			0.0085	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Calcium	830	mg/kg			13	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Chlordane	0.666	ug/kg		U	0.666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Chloroform	0.29	ug/kg		U	0.29	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Chromium	25	mg/kg			0.069	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-05-8.0	WETCHEM	Chromium, hexavalent	4.8	mg/kg		U	4.8	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Chromium, trivalent	25	mg/kg			19	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Chrysene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Cobalt	23	mg/kg			0.006	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Copper	8.2	mg/kg			0.065	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-06-8.0	WETCHEM	Cyanide	0.1	mg/kg		U	0.1	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	HERB	Dalapon	3.99	ug/kg		U	3.99	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	delta-BHC	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Dibenz(a,h)anthracene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Dibenzofuran	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	HERB	Dicamba	0.331	ug/kg		U	0.331	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Diethyl phthalate	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Dimethyl phthalate	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Di-n-butyl phthalate	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Di-n-octylphthalate	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Diphenylamine	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Endosulfan I	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Endrin	0.133	ug/kg		U	0.133	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Ethyl cyanide	7.4	ug/kg		U	7.4	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Fluoranthene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Fluorene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-05-8.0	ANION	Fluoride	0.79	mg/kg		U	0.79	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	gamma-Chlordane	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Heptachlor	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Heptachlor epoxide	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Hexachlorobutadiene	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Hexachlorocyclopentadiene	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Hexachloroethane	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Indeno(1,2,3-cd)pyrene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Iron	49000	mg/kg			3.6	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Isobutanol	27	ug/kg		U	27	8	10	SOIL	FD	SPS		9/5/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-49	WDSB49-09-8.0	SVOA	Isophorone	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Kepone	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Lead	19	mg/kg			0.017	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Lindane	0.0666	ug/kg		U	0.0666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Lithium	25	mg/kg			0.28	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	M + P Xylene	1	ug/kg		U	1	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	m+p Methylphenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Magnesium	1300	mg/kg			3.5	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Manganese	670	mg/kg			0.03	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	HERB	MCPA	45.9	ug/kg		U	45.9	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	HERB	MCPP	39.9	ug/kg		U	39.9	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Mercury	0.029	mg/kg			0.0048	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Methoxychlor	0.666	ug/kg		U	0.666	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Methylene chloride	1.6	ug/kg		U	1.6	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	WETCHEM	Moisture	13	%				8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Naphthalene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Neptunium-237	0.00558	pCi/g	0.0134	U	0.0214	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Nickel	13	mg/kg			0.023	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Nitrobenzene	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	N-Nitrosodimethylamine	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	N-Nitroso-di-n-propylamine	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	N-Nitrosomorpholine	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	O,O,O-Triethylphosphorothioate	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.37	ug/kg			0.556	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-07-8.0	DI/FURA	Octachlorodibenzofuran	0.556	ug/kg		U	0.556	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	PCB-1016	1.08	ug/kg		U	1.08	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	PCB-1221	1.08	ug/kg		U	1.08	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	PCB-1232	1.08	ug/kg		U	1.08	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	PCB-1242	1.08	ug/kg		U	1.08	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	PCB-1248	1.08	ug/kg		U	1.08	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	PCB-1254	1.08	ug/kg		U	1.08	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	PCB-1260	1.08	ug/kg		U	1.08	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	PCB-1268	1.08	ug/kg		U	1.08	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Pentachlorophenol	0.2	ug/kg		U	0.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Phenanthrene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Phenol	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Plutonium-238	0.00163	pCi/g	0.0096	U	0.018	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Plutonium-239/240	0.00653	pCi/g	0.0101	U	0.0156	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Polychlorinated biphenyl	1.08	ug/kg		U	1.08	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Potassium	1000	mg/kg			38	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Pyrene	4.92	ug/kg		U	4.92	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	SVOA	Pyridine	49.2	ug/kg		U	49.2	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Selenium	0.47	mg/kg			0.12	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Silver	0.019	mg/kg		U	0.019	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	HERB	Silvex	0.331	ug/kg		U	0.331	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Sodium	78	mg/kg		B	55	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Strontium	9.5	mg/kg			0.034	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Styrene	0.62	ug/kg		U	0.62	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Technetium-99	0.156	pCi/g	0.185	U	0.312	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Thallium	0.18	mg/kg			0.0032	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Thorium-228	1.05	pCi/g	0.174		0.104	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Thorium-230	1.27	pCi/g	0.192		0.122	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Thorium-232	1.08	pCi/g	0.171		0.0751	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Tin	1.2	mg/kg		B	0.85	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Titanium	50	mg/kg			0.13	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Toluene	0.68	ug/kg		U	0.68	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-09-8.0	PPCB	Toxaphene	2.22	ug/kg		U	2.22	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Uranium	0.72	mg/kg			0.0014	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Uranium-233/234	0.737	pCi/g	0.113		0.0542	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Uranium-235/236	0.0474	pCi/g	0.0335		0.0158	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-8.0	RADS	Uranium-238	0.836	pCi/g	0.117		0.0128	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Vanadium	33	mg/kg			0.035	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-08-8.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	8	10	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-03-8.0	METAL	Zinc	36	mg/kg			0.29	8	10	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.234	ug/kg		U	0.234	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0216	ug/kg		J	0.234	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.234	ug/kg		U	0.234	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.234	ug/kg		U	0.234	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.234	ug/kg		U	0.234	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.234	ug/kg		U	0.234	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.234	ug/kg		U	0.234	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.234	ug/kg		U	0.234	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.234	ug/kg		U	0.234	10	12	SOIL	FD	SPS		9/5/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0936	ug/kg		U	0.0936	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0936	ug/kg		U	0.0936	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.234	ug/kg		U	0.234	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0936	ug/kg		U	0.0936	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.0936	ug/kg		U	0.0936	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0936	ug/kg		U	0.0936	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Aluminum	15000	mg/kg			1.4	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Americium-241	-1.78E-09	pCi/g	0.012	U	0.0234	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Antimony	0.69	mg/kg			0.029	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Arsenic	24	mg/kg			0.047	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Barium	75	mg/kg			0.065	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Beryllium	0.91	mg/kg			0.021	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Cadmium	0.16	mg/kg			0.0087	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Calcium	910	mg/kg			13	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Chromium	24	mg/kg			0.07	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-12-8.0	WETCHEM	Chromium, hexavalent	5.2	mg/kg		U	5.2	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Chromium, trivalent	24	mg/kg			21	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Cobalt	25	mg/kg			0.0061	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Copper	11	mg/kg			0.066	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-13-8.0	WETCHEM	Cyanide	0.11	mg/kg		U	0.11	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-12-8.0	ANION	Fluoride	0.79	mg/kg		U	0.79	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Iron	44000	mg/kg			3.4	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Lead	26	mg/kg			0.017	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Lithium	27	mg/kg			0.27	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Magnesium	1200	mg/kg			3.3	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Manganese	960	mg/kg			0.031	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Mercury	0.03	mg/kg			0.0061	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Neptunium-237	0.0033	pCi/g	0.00792	U	0.0126	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Nickel	15	mg/kg			0.023	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.23	ug/kg			0.468	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-14-8.0	DI/FURA	Octachlorodibenzofuran	0.468	ug/kg		U	0.468	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Plutonium-238	-0.00208	pCi/g	0.0122	U	0.0256	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Plutonium-239/240	0.00208	pCi/g	0.0108	U	0.0199	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Potassium	1000	mg/kg			37	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Selenium	0.62	mg/kg			0.12	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Silver	0.02	mg/kg		U	0.02	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Sodium	79	mg/kg		B	53	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Strontium	9.1	mg/kg			0.032	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Technetium-99	0.111	pCi/g	0.176	U	0.303	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Thallium	0.2	mg/kg			0.0033	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Thorium-228	1.21	pCi/g	0.17		0.104	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Thorium-230	0.996	pCi/g	0.156		0.107	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Thorium-232	1.1	pCi/g	0.156		0.0543	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Tin	1.1	mg/kg		B	0.81	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Titanium	45	mg/kg			0.13	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Uranium	0.89	mg/kg			0.0015	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Uranium-233/234	0.807	pCi/g	0.142		0.0814	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Uranium-235/236	0.0463	pCi/g	0.0435	U	0.0491	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-11-8.0	RADS	Uranium-238	0.918	pCi/g	0.148		0.0558	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Vanadium	41	mg/kg			0.036	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-10-8.0	METAL	Zinc	44	mg/kg			0.29	10	12	SOIL	FD	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,1,1,2-Tetrachloroethane	0.57	ug/kg		U	0.57	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,1,1-Trichloroethane	0.53	ug/kg		U	0.53	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,1,2,2-Tetrachloroethane	0.62	ug/kg		U	0.62	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/kg		U	0.45	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,1,2-Trichloroethane	0.89	ug/kg		U	0.89	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,1-Dichloroethene	0.6	ug/kg		U	0.6	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,2,3-Trichloropropane	0.82	ug/kg		U	0.82	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,2-Dibromo-3-chloropropane	0.61	ug/kg		U	0.61	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,2-Dichloroethane	0.71	ug/kg		U	0.71	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,2-Dichloroethene	0.39	ug/kg		U	0.39	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,2-Dichloropropane	0.56	ug/kg		U	0.56	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	1,2-Dimethylbenzene	0.62	ug/kg		U	0.62	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Acetone	5.4	ug/kg		U	5.4	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Acetonitrile	20	ug/kg		U	20	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Acrylonitrile	10	ug/kg		U	10	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Aluminum	6400	mg/kg			1.5	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Americium-241	0.0136	pCi/g	0.0141	U	0.0174	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Antimony	2.2	mg/kg			0.026	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Arsenic	20	mg/kg			0.046	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Barium	29	mg/kg			0.065	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Benzene	0.47	ug/kg		U	0.47	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Beryllium	1.1	mg/kg			0.021	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Bromoform	0.23	ug/kg		U	0.23	18	20	SOIL	REG	SPS		9/5/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-49	WDSB49-01-20.0	VOA	Bromomethane	0.51	ug/kg		U	0.51	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Cadmium	0.48	mg/kg			0.0086	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Calcium	310	mg/kg			14	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Carbon tetrachloride	0.64	ug/kg		U	0.64	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Chlorobenzene	0.55	ug/kg		U	0.55	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Chloroethane	0.9	ug/kg		U	0.9	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Chloroform	0.29	ug/kg		U	0.29	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Chloromethane	0.78	ug/kg		U	0.78	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Chromium	20	mg/kg			0.07	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	WETCHEM	Chromium, hexavalent	1	mg/kg		B	0.49	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Chromium, trivalent	20	mg/kg			2	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	cis-1,2-Dichloroethene	0.57	ug/kg		U	0.57	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Cobalt	11	mg/kg			0.0061	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Copper	18	mg/kg			0.065	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Dibromochloromethane	0.58	ug/kg		U	0.58	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Dichlorodifluoromethane	0.53	ug/kg		U	0.53	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Ethyl cyanide	7.6	ug/kg		U	7.6	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Ethylbenzene	0.68	ug/kg		U	0.68	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Iron	62000	mg/kg			3.7	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Isobutanol	28	ug/kg		U	28	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Lead	19	mg/kg			0.017	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Lithium	6.6	mg/kg			0.29	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	M + P Xylene	1.1	ug/kg		U	1.1	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Magnesium	470	mg/kg			3.6	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Manganese	310	mg/kg			0.03	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Mercury	0.0059	mg/kg		B	0.0057	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Methylene chloride	1.6	ug/kg		U	1.6	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Neptunium-237	-0.00127	pCi/g	0.0108	U	0.0215	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Nickel	36	mg/kg			0.023	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Plutonium-238	8.04E-10	pCi/g	0.00892	U	0.0178	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Plutonium-239/240	-0.00161	pCi/g	0.0105	U	0.0216	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Potassium	720	mg/kg			39	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Selenium	0.54	mg/kg			0.12	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Silver	0.018	mg/kg		U	0.018	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Sodium	65	mg/kg		B	57	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Strontium	3.3	mg/kg			0.035	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Styrene	0.64	ug/kg		U	0.64	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Technetium-99	0.22	pCi/g	0.202	U	0.333	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Tetrachloroethene	0.6	ug/kg		U	0.6	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Thallium	0.8	mg/kg			0.0032	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Thorium-228	0.989	pCi/g	0.253		0.219	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Thorium-230	1.78	pCi/g	0.314		0.155	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Thorium-232	0.912	pCi/g	0.223		0.104	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Tin	1.1	mg/kg		B	0.88	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Titanium	30	mg/kg			0.13	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Toluene	0.7	ug/kg		U	0.7	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Total Xylene	0.62	ug/kg		U	0.62	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Trichlorofluoromethane	1.1	ug/kg		U	1.1	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Uranium	2.3	mg/kg			0.0014	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Uranium-233/234	1.24	pCi/g	0.15		0.0548	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Uranium-235/236	0.0566	pCi/g	0.0377		0.017	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-04-20.0	RADS	Uranium-238	1.2	pCi/g	0.146		0.0137	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Vanadium	44	mg/kg			0.035	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-01-20.0	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-49	WDSB49-03-20.0	METAL	Zinc	150	mg/kg			0.29	18	20	SOIL	REG	SPS		9/5/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/kg		U	0.44	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.255	ug/kg		U	0.255	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.251	ug/kg		U	0.251	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0219	ug/kg		J	0.255	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0235	ug/kg		J	0.251	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.255	ug/kg		U	0.255	0	2	SOIL	FD	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.251	ug/kg		U	0.251	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.255	ug/kg		U	0.255	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.251	ug/kg		U	0.251	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.255	ug/kg		U	0.255	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.251	ug/kg		U	0.251	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.255	ug/kg		U	0.255	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.251	ug/kg		U	0.251	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.255	ug/kg		U	0.255	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.251	ug/kg		U	0.251	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.255	ug/kg		U	0.255	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.251	ug/kg		U	0.251	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.255	ug/kg		U	0.255	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.251	ug/kg		U	0.251	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.102	ug/kg		U	0.102	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.1	ug/kg		U	0.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.102	ug/kg		U	0.102	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.1	ug/kg		U	0.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	1,2,4-Trichlorobenzene	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	1,2,4-Trichlorobenzene	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,2-Dibromo-3-chloropropane	0.59	ug/kg		U	0.59	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,2-Dibromo-3-chloropropane	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	1,2-Dichlorobenzene	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	1,2-Dichlorobenzene	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	1,3-Dichlorobenzene	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	1,3-Dichlorobenzene	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	1,4-Dichlorobenzene	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	1,4-Dichlorobenzene	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	VOA	1,4-Dioxane	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	VOA	1,4-Dioxane	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.255	ug/kg		U	0.255	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.251	ug/kg		U	0.251	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.102	ug/kg		U	0.0177	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.1	ug/kg		U	0.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.102	ug/kg		U	0.102	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.1	ug/kg		U	0.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.102	ug/kg		U	0.102	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.1	ug/kg		U	0.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	HERB	2,4,5-T	0.332	ug/kg		U	0.332	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2,4,5-Trichlorophenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2,4,5-Trichlorophenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2,4,6-Trichlorophenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2,4,6-Trichlorophenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	HERB	2,4-D	0.332	ug/kg		U	0.332	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	HERB	2,4-D	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	HERB	2,4-DB	0.332	ug/kg		U	0.332	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	2,4'-DDD	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	2,4'-DDD	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	2,4'-DDE	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	2,4'-DDE	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	2,4'-DDT	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	2,4'-DDT	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2,4-Dichlorophenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2,4-Dichlorophenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2,4-Dimethylphenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2,4-Dimethylphenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2,4-Dinitrophenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2,4-Dinitrophenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2,4-Dinitrotoluene	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2,4-Dinitrotoluene	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2,6-Dinitrotoluene	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2,6-Dinitrotoluene	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2-Chloronaphthalene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2-Chloronaphthalene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2-Chlorophenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2-Chlorophenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-52	WDSB52-08-1.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2-Methyl-4,6-dinitrophenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2-Methyl-4,6-dinitrophenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2-Methylnaphthalene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2-Methylnaphthalene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2-Methylphenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2-Methylphenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2-Nitrobenzenamine	53.9	ug/kg		U	53.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2-Nitrobenzenamine	54.7	ug/kg		U	54.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	2-Nitrophenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	2-Nitrophenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	3,3'-Dichlorobenzidine	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	3,3'-Dichlorobenzidine	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	3-Nitrobenzenamine	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	3-Nitrobenzenamine	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	4-Aminobiphenyl	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	4-Aminobiphenyl	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	4-Bromophenyl phenyl ether	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	4-Bromophenyl phenyl ether	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	4-Chloro-3-methylphenol	65.3	ug/kg		U	65.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	4-Chloro-3-methylphenol	66.3	ug/kg		U	66.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	4-Chlorobenzenamine	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	4-Chlorobenzenamine	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	4-Chlorophenyl phenyl ether	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	4-Chlorophenyl phenyl ether	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	4-Nitrobenzenamine	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	4-Nitrobenzenamine	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	4-Nitrophenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	4-Nitrophenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Acenaphthene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Acenaphthene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Acenaphthylene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Acenaphthylene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Acetone	5.2	ug/kg		U	5.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Acetone	5.4	ug/kg		U	5.4	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Acetonitrile	20	ug/kg		U	20	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Acetonitrile	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Acetophenone	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Acetophenone	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Acrylonitrile	9.8	ug/kg		U	9.8	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Acrylonitrile	10	ug/kg		U	10	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Aldrin	0.407	ug/kg		P	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Aldrin	0.259	ug/kg		JP	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	alpha-BHC	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	alpha-BHC	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	alpha-Chlordane	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	alpha-Chlordane	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Aluminum	10000	mg/kg			1.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Aluminum	11000	mg/kg			1.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-11-1.0	RADS	Americium-241	0.00518	pCi/g	0.0101	U	0.0165	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Americium-241	0.00824	pCi/g	0.0107	U	0.0158	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Anthracene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Anthracene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Antimony	0.6	mg/kg			0.026	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Antimony	0.57	mg/kg			0.024	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Arsenic	11	mg/kg			0.044	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Arsenic	15	mg/kg			0.044	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Barium	85	mg/kg			0.062	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Barium	63	mg/kg			0.061	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Benz(a)anthracene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Benz(a)anthracene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Benzene	0.46	ug/kg		U	0.46	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Benzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Benzenemethanol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Benzenemethanol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Benzo(a)pyrene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Benzo(a)pyrene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Benzo(b)fluoranthene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Benzo(b)fluoranthene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Benzo(ghi)perylene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-52	WDSB52-02-1.0	SVOA	Benzo(ghi)perylene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Benzo(k)fluoranthene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Benzo(k)fluoranthene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Benzoic acid	81.6	ug/kg		U	81.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Benzoic acid	82.8	ug/kg		U	82.8	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Beryllium	0.8	mg/kg			0.02	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Beryllium	0.59	mg/kg			0.02	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	beta-BHC	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	beta-BHC	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Bis(2-chloroethoxy)methane	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Bis(2-chloroethoxy)methane	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Bis(2-chloroethyl) ether	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Bis(2-chloroethyl) ether	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	bis(2-Chloroisopropyl)ether	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	bis(2-Chloroisopropyl)ether	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Bis(2-ethylhexyl)phthalate	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Bis(2-ethylhexyl)phthalate	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Butyl benzyl phthalate	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Butyl benzyl phthalate	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Cadmium	0.24	mg/kg			0.0082	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Cadmium	0.17	mg/kg			0.0082	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Calcium	750	mg/kg			12	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Calcium	800	mg/kg			12	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Chlordane	0.665	ug/kg		U	0.665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Chlordane	0.666	ug/kg		U	0.666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Chloroethane	0.87	ug/kg		U	0.87	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Chloroethane	0.89	ug/kg		U	0.89	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Chloromethane	0.75	ug/kg		U	0.75	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Chloromethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Chromium	17	mg/kg			0.067	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Chromium	16	mg/kg			0.066	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-12-1.0	WETCHEM	Chromium, hexavalent	9.3	mg/kg		B	4.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-05-1.0	WETCHEM	Chromium, hexavalent	7.4	mg/kg		B	6	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Chromium, trivalent	19	mg/kg		U	19	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Chromium, trivalent	24	mg/kg		U	24	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Chrysene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Chrysene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Cobalt	15	mg/kg			0.0058	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Cobalt	8.8	mg/kg			0.0058	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Copper	15	mg/kg			0.062	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Copper	13	mg/kg			0.062	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-13-1.0	WETCHEM	Cyanide	0.099	mg/kg		U	0.099	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-06-1.0	WETCHEM	Cyanide	0.1	mg/kg		U	0.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	HERB	Dalapon	4	ug/kg		U	4	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	HERB	Dalapon	3.99	ug/kg		U	3.99	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	delta-BHC	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	delta-BHC	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Dibenz(a,h)anthracene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Dibenz(a,h)anthracene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Dibenzofuran	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Dibenzofuran	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	HERB	Dicamba	0.332	ug/kg		U	0.332	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	HERB	Dicamba	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	HERB	Dichloroprop	0.332	ug/kg		U	0.332	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-52	WDSB52-09-1.0	SVOA	Diethyl phthalate	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Diethyl phthalate	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Dimethyl phthalate	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Dimethyl phthalate	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Di-n-butyl phthalate	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Di-n-butyl phthalate	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Di-n-octylphthalate	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Di-n-octylphthalate	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	HERB	Dinoseb	0.332	ug/kg		U	0.332	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Diphenylamine	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Diphenylamine	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Endosulfan I	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Endosulfan I	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Endrin	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Endrin	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Ethyl cyanide	7.3	ug/kg		U	7.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Ethyl cyanide	7.5	ug/kg		U	7.5	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Fluoranthene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Fluoranthene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Fluorene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Fluorene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-12-1.0	ANION	Fluoride	2.5	mg/kg		B	0.79	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-05-1.0	ANION	Fluoride	2.5	mg/kg		B	0.81	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	gamma-Chlordane	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	gamma-Chlordane	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Heptachlor	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Heptachlor	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Heptachlor epoxide	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Heptachlor epoxide	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Hexachlorobutadiene	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Hexachlorobutadiene	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Hexachlorocyclopentadiene	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Hexachloroethane	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Hexachloroethane	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Indeno(1,2,3-cd)pyrene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Indeno(1,2,3-cd)pyrene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Iron	23000	mg/kg			3.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Iron	29000	mg/kg			3.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Isobutanol	27	ug/kg		U	27	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Isobutanol	28	ug/kg		U	28	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Isophorone	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Isophorone	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Kepone	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Kepone	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Lead	18	mg/kg			0.016	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Lead	11	mg/kg			0.016	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Lindane	0.0665	ug/kg		U	0.0665	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Lindane	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Lithium	25	mg/kg			0.26	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Lithium	27	mg/kg			0.25	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	m+p Methylphenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	m+p Methylphenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Magnesium	1300	mg/kg			3.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Magnesium	1400	mg/kg			3.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Manganese	300	mg/kg			0.029	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Manganese	210	mg/kg			0.029	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	HERB	MCPA	45.9	ug/kg		U	45.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	HERB	MCPA	45.9	ug/kg		U	45.9	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	HERB	MCPP	40	ug/kg		U	40	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	HERB	MCPP	39.9	ug/kg		U	39.9	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Mercury	0.006	mg/kg		B	0.0057	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Mercury	0.0058	mg/kg		U	0.0058	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Methoxychlor	0.665	ug/kg		U	0.665	0	2	SOIL	FD	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-52	WDSB52-02-1.0	PPCB	Methoxychlor	0.666	ug/kg		U	0.666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Methylene chloride	1.6	ug/kg		U	1.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Methylene chloride	1.6	ug/kg		U	1.6	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	WETCHEM	Moisture	11.3	%				0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	WETCHEM	Moisture	11.1	%				0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Naphthalene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Naphthalene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-11-1.0	RADS	Neptunium-237	0.00644	pCi/g	0.0111	U	0.0164	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Neptunium-237	0.0152	pCi/g	0.0236	U	0.0364	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Nickel	25	mg/kg			0.022	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Nickel	18	mg/kg			0.022	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Nitrobenzene	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Nitrobenzene	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	N-Nitrosodimethylamine	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	N-Nitrosodimethylamine	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	N-Nitroso-di-n-propylamine	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	N-Nitroso-di-n-propylamine	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	N-Nitrosomorpholine	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	N-Nitrosomorpholine	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	O,O,O-Triethylphosphorothioate	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	O,O,O-Triethylphosphorothioate	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.915	ug/kg			0.51	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.754	ug/kg			0.502	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-14-1.0	DI/FURA	Octachlorodibenzofuran	0.51	ug/kg		U	0.51	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-07-1.0	DI/FURA	Octachlorodibenzofuran	0.502	ug/kg		U	0.502	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	PCB-1016	1.08	ug/kg		U	1.08	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	PCB-1016	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	PCB-1221	1.08	ug/kg		U	1.08	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	PCB-1221	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	PCB-1232	1.08	ug/kg		U	1.08	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	PCB-1232	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	PCB-1242	1.08	ug/kg		U	1.08	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	PCB-1242	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	PCB-1248	1.08	ug/kg		U	1.08	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	PCB-1248	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	PCB-1254	1.08	ug/kg		U	1.08	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	PCB-1254	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	PCB-1260	1.08	ug/kg		U	1.08	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	PCB-1260	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	PCB-1268	1.08	ug/kg		U	1.08	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	PCB-1268	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Pentachlorophenol	0.2	ug/kg		U	0.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Pentachlorophenol	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Phenanthrene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Phenanthrene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Phenol	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Phenol	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-11-1.0	RADS	Plutonium-238	0.00899	pCi/g	0.0125	U	0.0172	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Plutonium-238	0	pCi/g	0.00859	U	0.0168	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-11-1.0	RADS	Plutonium-239/240	0.00225	pCi/g	0.0117	U	0.0215	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Plutonium-239/240	-0.00657	pCi/g	0.0129	U	0.0294	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Polychlorinated biphenyl	1.08	ug/kg		U	1.08	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Polychlorinated biphenyl	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Potassium	1400	mg/kg			35	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Potassium	1500	mg/kg			34	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Pyrene	4.9	ug/kg		U	4.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Pyrene	4.97	ug/kg		U	4.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	SVOA	Pyridine	49	ug/kg		U	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	SVOA	Pyridine	49.7	ug/kg		U	49.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Selenium	1.1	mg/kg			0.12	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Selenium	0.94	mg/kg			0.12	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Silver	0.018	mg/kg		U	0.018	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Silver	0.017	mg/kg		U	0.017	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	HERB	Silvex	0.332	ug/kg		U	0.332	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	HERB	Silvex	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Sodium	140	mg/kg		B	51	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Sodium	160	mg/kg		B	50	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Strontium	11	mg/kg			0.031	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Strontium	12	mg/kg			0.03	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Styrene	0.61	ug/kg		U	0.61	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Styrene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-11-1.0	RADS	Technetium-99	0.163	pCi/g	0.204	U	0.345	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Technetium-99	0.123	pCi/g	0.194	U	0.333	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Thallium	0.22	mg/kg			0.0031	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Thallium	0.17	mg/kg			0.0031	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-11-1.0	RADS	Thorium-228	1.19	pCi/g	0.157		0.0578	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Thorium-228	1.12	pCi/g	0.157		0.114	0	2	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-52	WDSB52-11-1.0	RADS	Thorium-230	1.03	pCi/g	0.149		0.0771	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Thorium-230	1.12	pCi/g	0.15		0.0762	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-11-1.0	RADS	Thorium-232	1.03	pCi/g	0.146		0.0579	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Thorium-232	0.98	pCi/g	0.138		0.0602	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Tin	0.79	mg/kg		U	0.79	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Tin	0.89	mg/kg		B	0.77	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Titanium	34	mg/kg			0.12	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Titanium	34	mg/kg			0.12	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Toluene	0.67	ug/kg		U	0.67	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Toluene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Total Xylene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-09-1.0	PPCB	Toxaphene	2.22	ug/kg		U	2.22	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-02-1.0	PPCB	Toxaphene	2.22	ug/kg		U	2.22	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Uranium	0.93	mg/kg			0.0014	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Uranium	0.81	mg/kg			0.0014	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-11-1.0	RADS	Uranium-233/234	0.82	pCi/g	0.12		0.0644	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Uranium-233/234	0.982	pCi/g	0.127		0.0522	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-11-1.0	RADS	Uranium-235/236	0.0237	pCi/g	0.0299	U	0.0426	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Uranium-235/236	0.0718	pCi/g	0.0407		0.0335	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-11-1.0	RADS	Uranium-238	0.948	pCi/g	0.124		0.0126	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-04-1.0	RADS	Uranium-238	1.07	pCi/g	0.13		0.0271	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Vanadium	28	mg/kg			0.034	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Vanadium	28	mg/kg			0.033	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-08-1.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-01-1.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-10-1.0	METAL	Zinc	55	mg/kg			0.28	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-52	WDSB52-03-1.0	METAL	Zinc	60	mg/kg			0.27	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,1,1,2-Tetrachloroethane	0.58	ug/kg		U	0.58	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,1,1-Trichloroethane	0.54	ug/kg		U	0.54	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,1,2,2-Tetrachloroethane	0.63	ug/kg		U	0.63	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	ug/kg		U	0.47	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,1,2-Trichloroethane	0.91	ug/kg		U	0.91	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,1-Dichloroethane	0.22	ug/kg		U	0.22	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,1-Dichloroethene	0.61	ug/kg		U	0.61	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.273	ug/kg		U	0.273	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.273	ug/kg		U	0.273	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.273	ug/kg		U	0.273	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.273	ug/kg		U	0.273	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.273	ug/kg		U	0.273	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.273	ug/kg		U	0.273	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.273	ug/kg		U	0.273	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.273	ug/kg		U	0.273	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.273	ug/kg		U	0.273	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.109	ug/kg		U	0.109	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.109	ug/kg		U	0.109	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,2,3-Trichloropropane	0.84	ug/kg		U	0.84	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	1,2,4-Trichlorobenzene	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,2-Dibromo-3-chloropropane	0.62	ug/kg		U	0.62	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	1,2-Dichlorobenzene	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,2-Dichloroethane	0.72	ug/kg		U	0.72	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,2-Dichloroethene	0.4	ug/kg		U	0.4	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,2-Dichloropropane	0.57	ug/kg		U	0.57	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	1,2-Dimethylbenzene	0.63	ug/kg		U	0.63	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	1,3-Dichlorobenzene	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	1,4-Dichlorobenzene	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	VOA	1,4-Dioxane	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.273	ug/kg		U	0.273	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.109	ug/kg		U	0.109	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.109	ug/kg		U	0.109	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.109	ug/kg		U	0.109	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2,4,5-Trichlorophenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2,4,6-Trichlorophenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	HERB	2,4-D	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	2,4'-DDD	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	2,4'-DDE	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	2,4'-DDT	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2,4-Dichlorophenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2,4-Dimethylphenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-52	WDSB52-02-8.0	SVOA	2,4-Dinitrophenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2,4-Dinitrotoluene	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2,6-Dinitrotoluene	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	2-Butanone	1.9	ug/kg		U	1.9	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2-Chloronaphthalene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2-Chlorophenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	2-Hexanone	5.1	ug/kg		U	5.1	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2-Methyl-4,6-dinitrophenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2-Methylnaphthalene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2-Methylphenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2-Nitrobenzenamine	54.3	ug/kg		U	54.3	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	2-Nitrophenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	3,3'-Dichlorobenzidine	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	3-Nitrobenzenamine	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	4-Aminobiphenyl	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	4-Bromophenyl phenyl ether	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	4-Chloro-3-methylphenol	65.8	ug/kg		U	65.8	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	4-Chlorobenzenamine	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	4-Chlorophenyl phenyl ether	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	4-Methyl-2-pentanone	4.5	ug/kg		U	4.5	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	4-Nitrobenzenamine	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	4-Nitrophenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Acenaphthene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Acenaphthylene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Acetone	5.6	ug/kg		U	5.6	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Acetonitrile	21	ug/kg		U	21	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Acetophenone	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Acrylonitrile	10	ug/kg		U	10	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Aldrin	0.246	ug/kg		JP	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	alpha-BHC	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	alpha-Chlordane	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Aluminum	11000	mg/kg			1.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Americium-241	0.00149	pCi/g	0.00506	U	0.00447	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Anthracene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Antimony	0.44	mg/kg			0.026	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Arsenic	10	mg/kg			0.043	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Barium	52	mg/kg			0.06	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Benz(a)anthracene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Benzene	0.49	ug/kg		U	0.49	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Benzenemethanol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Benzo(a)pyrene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Benzo(b)fluoranthene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Benzo(ghi)perylene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Benzo(k)fluoranthene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Benzoic acid	82.3	ug/kg		U	82.3	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Beryllium	0.6	mg/kg			0.019	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	beta-BHC	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Bis(2-chloroethoxy)methane	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Bis(2-chloroethyl) ether	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	bis(2-Chloroisopropyl)ether	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Bis(2-ethylhexyl)phthalate	275	ug/kg			49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Bromodichloromethane	0.23	ug/kg		U	0.23	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Bromoform	0.24	ug/kg		U	0.24	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Bromomethane	0.52	ug/kg		U	0.52	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Butyl benzyl phthalate	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Cadmium	0.21	mg/kg			0.0079	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Calcium	810	mg/kg			14	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Carbon disulfide	0.43	ug/kg		U	0.43	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Carbon tetrachloride	0.65	ug/kg		U	0.65	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Chlordane	0.666	ug/kg		U	0.666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Chlorobenzene	0.56	ug/kg		U	0.56	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Chloroethane	0.92	ug/kg		U	0.92	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Chloroform	0.3	ug/kg		U	0.3	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Chloromethane	0.8	ug/kg		U	0.8	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Chromium	13	mg/kg			0.064	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-05-8.0	WETCHEM	Chromium, hexavalent	11	mg/kg		B	5.7	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Chromium, trivalent	23	mg/kg		U	23	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Chrysene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	cis-1,2-Dichloroethene	0.58	ug/kg		U	0.58	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Cobalt	9.2	mg/kg			0.0056	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Copper	17	mg/kg			0.06	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-06-8.0	WETCHEM	Cyanide	0.098	mg/kg		U	0.098	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	HERB	Dalapon	3.99	ug/kg		U	3.99	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	delta-BHC	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Dibenz(a,h)anthracene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-52	WDSB52-02-8.0	SVOA	Dibenzofuran	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Dibromochloromethane	0.59	ug/kg		U	0.59	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	HERB	Dicamba	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Dichlorodifluoromethane	0.54	ug/kg		U	0.54	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Diethyl phthalate	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Dimethyl phthalate	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Di-n-butyl phthalate	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Di-n-octylphthalate	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Diphenylamine	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Endosulfan I	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Endrin	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Ethyl cyanide	7.7	ug/kg		U	7.7	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Ethylbenzene	0.69	ug/kg		U	0.69	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Fluoranthene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Fluorene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-05-8.0	ANION	Fluoride	1.8	mg/kg		B	0.82	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	gamma-Chlordane	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Heptachlor	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Heptachlor epoxide	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Hexachlorobutadiene	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Hexachlorocyclopentadiene	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Hexachloroethane	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Indeno(1,2,3-cd)pyrene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Iron	27000	mg/kg			3.7	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Isobutanol	29	ug/kg		U	29	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Isophorone	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Kepone	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Lead	9	mg/kg			0.015	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Lindane	0.0666	ug/kg		U	0.0666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Lithium	37	mg/kg			0.29	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	M + P Xylene	1.1	ug/kg		U	1.1	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	m+p Methylphenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Magnesium	2300	mg/kg			3.6	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Manganese	150	mg/kg			0.028	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	HERB	MCPA	45.9	ug/kg		U	45.9	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	HERB	MCPP	39.9	ug/kg		U	39.9	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Mercury	0.023	mg/kg			0.005	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Methoxychlor	0.666	ug/kg		U	0.666	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Methylene chloride	1.7	ug/kg		U	1.7	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	WETCHEM	Moisture	13	%				6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Naphthalene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Neptunium-237	-0.00566	pCi/g	0.0111	U	0.0253	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Nickel	20	mg/kg			0.021	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Nitrobenzene	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	N-Nitrosodimethylamine	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	N-Nitroso-di-n-propylamine	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	N-Nitrosomorpholine	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	O,O,O-Triethylphosphorothioate	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.038	ug/kg		J	0.546	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-07-8.0	DI/FURA	Octachlorodibenzofuran	0.546	ug/kg		U	0.546	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	PCB-1016	1.08	ug/kg		U	1.08	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	PCB-1221	1.08	ug/kg		U	1.08	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	PCB-1232	1.08	ug/kg		U	1.08	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	PCB-1242	1.08	ug/kg		U	1.08	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	PCB-1248	1.08	ug/kg		U	1.08	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	PCB-1254	1.08	ug/kg		U	1.08	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	PCB-1260	1.08	ug/kg		U	1.08	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	PCB-1268	1.08	ug/kg		U	1.08	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Pentachlorophenol	0.2	ug/kg		U	0.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Phenanthrene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Phenol	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Plutonium-238	-0.00236	pCi/g	0.008	U	0.018	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Plutonium-239/240	0.00236	pCi/g	0.0122	U	0.0226	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Polychlorinated biphenyl	1.08	ug/kg		U	1.08	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Potassium	1900	mg/kg			39	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Pyrene	4.94	ug/kg		U	4.94	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	SVOA	Pyridine	49.4	ug/kg		U	49.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Selenium	1.2	mg/kg			0.11	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Silver	0.018	mg/kg		U	0.018	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	HERB	Silvex	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Sodium	130	mg/kg		B	57	6	10	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-52	WDSB52-03-8.0	METAL	Strontium	21	mg/kg			0.035	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Styrene	0.65	ug/kg		U	0.65	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Technetium-99	0.0581	pCi/g	0.179	U	0.316	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Tetrachloroethene	0.61	ug/kg		U	0.61	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Thallium	0.14	mg/kg			0.003	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Thorium-228	1.37	pCi/g	0.177		0.0862	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Thorium-230	1.04	pCi/g	0.157		0.0915	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Thorium-232	1.38	pCi/g	0.173		0.0257	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Tin	0.88	mg/kg		U	0.88	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Titanium	34	mg/kg			0.13	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Toluene	0.71	ug/kg		U	0.71	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Total Xylene	0.63	ug/kg		U	0.63	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-02-8.0	PPCB	Toxaphene	2.22	ug/kg		U	2.22	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	trans-1,2-Dichloroethene	0.4	ug/kg		U	0.4	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Trichloroethene	0.24	ug/kg		U	0.24	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Trichlorofluoromethane	1.1	ug/kg		U	1.1	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Uranium	0.47	mg/kg			0.0013	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Uranium-233/234	0.867	pCi/g	0.128		0.0668	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Uranium-235/236	0.0346	pCi/g	0.0393	U	0.0583	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-04-8.0	RADS	Uranium-238	0.918	pCi/g	0.13		0.058	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Vanadium	17	mg/kg			0.033	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-01-8.0	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-52	WDSB52-03-8.0	METAL	Zinc	50	mg/kg			0.27	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,1,2-Trichloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.303	ug/kg		U	0.303	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0535	ug/kg		J	0.303	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.303	ug/kg		U	0.303	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.303	ug/kg		U	0.303	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.303	ug/kg		U	0.303	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.303	ug/kg		U	0.303	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.303	ug/kg		U	0.303	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.303	ug/kg		U	0.303	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.303	ug/kg		U	0.303	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.121	ug/kg		U	0.121	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.121	ug/kg		U	0.121	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,2,3-Trichloropropane	0.81	ug/kg		U	0.81	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	1,2,4-Trichlorobenzene	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,2-Dibromo-3-chloropropane	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	1,2-Dichlorobenzene	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,2-Dichloroethane	0.7	ug/kg		U	0.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	1,3-Dichlorobenzene	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	1,4-Dichlorobenzene	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	VOA	1,4-Dioxane	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.303	ug/kg		U	0.303	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.121	ug/kg		U	0.121	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.121	ug/kg		U	0.121	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.121	ug/kg		U	0.121	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2,4,5-Trichlorophenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2,4,6-Trichlorophenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	HERB	2,4-D	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	2,4'-DDD	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	2,4'-DDE	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	2,4'-DDT	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2,4-Dichlorophenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2,4-Dimethylphenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2,4-Dinitrophenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2,4-Dinitrotoluene	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2,6-Dinitrotoluene	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2-Chloronaphthalene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2-Chlorophenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2-Methyl-4,6-dinitrophenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2-Methylnaphthalene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2-Methylphenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2-Nitrobenzenamine	54.9	ug/kg		U	54.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	2-Nitrophenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-02-1.0	SVOA	3,3'-Dichlorobenzidine	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	3-Nitrobenzenamine	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	4-Aminobiphenyl	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	4-Bromophenyl phenyl ether	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	4-Chloro-3-methylphenol	66.5	ug/kg		U	66.5	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	4-Chlorobenzenamine	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	4-Chlorophenyl phenyl ether	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	4-Nitrobenzenamine	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	4-Nitrophenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Acenaphthene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Acenaphthylene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Acetone	5.4	ug/kg		U	5.4	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Acetonitrile	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Acetophenone	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Acrylonitrile	10	ug/kg		U	10	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Aldrin	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	alpha-BHC	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	alpha-Chlordane	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Aluminum	17000	mg/kg			1.5	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Americium-241	-0.00232	pCi/g	0.00789	U	0.0178	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Anthracene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Antimony	0.49	mg/kg			0.029	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Arsenic	9.5	mg/kg			0.048	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Barium	48	mg/kg			0.067	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Benz(a)anthracene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Benzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Benzenemethanol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Benzo(a)pyrene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Benzo(b)fluoranthene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Benzo(ghi)perylene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Benzo(k)fluoranthene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Benzoic acid	83.1	ug/kg		U	83.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Beryllium	0.48	mg/kg			0.021	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	beta-BHC	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Bis(2-chloroethoxy)methane	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Bis(2-chloroethyl) ether	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	bis(2-Chloroisopropyl)ether	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Bis(2-ethylhexyl)phthalate	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Butyl benzyl phthalate	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Cadmium	0.21	mg/kg			0.0088	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Calcium	570	mg/kg			13	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Chlordane	0.665	ug/kg		U	0.665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Chloroethane	0.89	ug/kg		U	0.89	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Chloromethane	0.77	ug/kg		U	0.77	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Chromium	23	mg/kg			0.072	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-05-1.0	WETCHEM	Chromium, hexavalent	1.4	mg/kg		B	0.51	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Chromium, trivalent	22	mg/kg			2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Chrysene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Cobalt	4.6	mg/kg			0.0063	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Copper	15	mg/kg			0.067	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-06-1.0	WETCHEM	Cyanide	0.11	mg/kg		U	0.11	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	HERB	Dalapon	3.99	ug/kg		U	3.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	delta-BHC	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Dibenz(a,h)anthracene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Dibenzofuran	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	HERB	Dicamba	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Diethyl phthalate	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Dimethyl phthalate	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Di-n-butyl phthalate	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Di-n-octylphthalate	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Diphenylamine	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-02-1.0	PPCB	Endosulfan I	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Endrin	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Ethyl cyanide	7.5	ug/kg		U	7.5	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Ethylbenzene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Fluoranthene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Fluorene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-05-1.0	ANION	Fluoride	0.8	mg/kg		U	0.8	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	gamma-Chlordane	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Heptachlor	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Heptachlor epoxide	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Hexachlorobutadiene	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Hexachlorocyclopentadiene	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Hexachloroethane	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Indeno(1,2,3-cd)pyrene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Iron	24000	mg/kg			3.6	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Isobutanol	28	ug/kg		U	28	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Isophorone	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Kepone	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Lead	12	mg/kg			0.017	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Lindane	0.0665	ug/kg		U	0.0665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Lithium	29	mg/kg			0.28	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	m+p Methylphenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Magnesium	1900	mg/kg			3.5	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Manganese	95	mg/kg			0.031	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	HERB	MCPA	45.9	ug/kg		U	45.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	HERB	MCPP	39.9	ug/kg		U	39.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Mercury	0.095	mg/kg			0.0055	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Methoxychlor	0.665	ug/kg		U	0.665	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Methylene chloride	2.5	ug/kg		BJ	1.6	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	WETCHEM	Moisture	13	%				0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Naphthalene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Neptunium-237	0.00844	pCi/g	0.0163	U	0.0271	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Nickel	14	mg/kg			0.024	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Nitrobenzene	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	N-Nitrosodimethylamine	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	N-Nitroso-di-n-propylamine	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	N-Nitrosomorpholine	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	O,O,O-Triethylphosphorothioate	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	6.88	ug/kg			0.607	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-1.0	DI/FURA	Octachlorodibenzofuran	0.607	ug/kg		U	0.607	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	PCB-1016	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	PCB-1221	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	PCB-1232	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	PCB-1242	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	PCB-1248	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	PCB-1254	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	PCB-1260	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	PCB-1268	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Pentachlorophenol	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Phenanthrene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Phenol	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Plutonium-238	0	pCi/g	0.0082	U	0.016	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Plutonium-239/240	0.00209	pCi/g	0.0071	U	0.00628	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	PPCB	Polychlorinated biphenyl	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Potassium	1100	mg/kg			39	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Pyrene	4.99	ug/kg		U	4.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	SVOA	Pyridine	49.9	ug/kg		U	49.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Selenium	0.91	mg/kg			0.13	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Silver	0.026	mg/kg		B	0.02	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-1.0	HERB	Silvex	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Sodium	80	mg/kg		B	56	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Strontium	6.4	mg/kg			0.034	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Styrene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Technetium-99	-0.12	pCi/g	0.154	U	0.27	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Thallium	0.59	mg/kg			0.0033	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Thorium-228	0.98	pCi/g	0.137		0.0746	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Thorium-230	1.06	pCi/g	0.141		0.0703	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Thorium-232	1.09	pCi/g	0.14		0.0447	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Tin	0.93	mg/kg		B	0.86	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Titanium	89	mg/kg			0.13	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Toluene	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Total Xylene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-02-1.0	PPCB	Toxaphene	2.22	ug/kg		U	2.22	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Uranium	0.75	mg/kg			0.0015	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Uranium-233/234	0.998	pCi/g	0.135		0.0846	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Uranium-235/236	0.0646	pCi/g	0.04		0.035	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-1.0	RADS	Uranium-238	0.931	pCi/g	0.125		0.0397	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Vanadium	32	mg/kg			0.036	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-1.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-1.0	METAL	Zinc	40	mg/kg			0.3	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-05-8.0	WETCHEM	Chromium, hexavalent	0.5	mg/kg		U	0.5	0.5	0.833333333	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-05-8.0	ANION	Fluoride	1.2	mg/kg		B	0.81	0.5	0.833333333	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/kg		U	0.44	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.268	ug/kg		U	0.268	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.268	ug/kg		U	0.268	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.268	ug/kg		U	0.268	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.268	ug/kg		U	0.268	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.268	ug/kg		U	0.268	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.268	ug/kg		U	0.268	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.268	ug/kg		U	0.268	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.268	ug/kg		U	0.268	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.268	ug/kg		U	0.268	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.107	ug/kg		U	0.107	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.107	ug/kg		U	0.107	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	1,2,4-Trichlorobenzene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,2-Dibromo-3-chloropropane	0.59	ug/kg		U	0.59	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	1,2-Dichlorobenzene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,2-Dichloroethene	0.38	ug/kg		U	0.38	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	1,3-Dichlorobenzene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	1,4-Dichlorobenzene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	VOA	1,4-Dioxane	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.268	ug/kg		U	0.268	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.107	ug/kg		U	0.107	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.107	ug/kg		U	0.107	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.107	ug/kg		U	0.107	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2,4,5-Trichlorophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2,4,6-Trichlorophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	HERB	2,4-D	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	2,4'-DDD	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	2,4'-DDE	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	2,4'-DDT	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2,4-Dichlorophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2,4-Dimethylphenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2,4-Dinitrophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2,4-Dinitrotoluene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2,6-Dinitrotoluene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2-Chloronaphthalene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2-Chlorophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2-Methyl-4,6-dinitrophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2-Methylnaphthalene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2-Methylphenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2-Nitrobenzenamine	55	ug/kg		U	55	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	2-Nitrophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	3,3'-Dichlorobenzidine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	3-Nitrobenzenamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	4-Aminobiphenyl	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	4-Bromophenyl phenyl ether	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	4-Chloro-3-methylphenol	66.7	ug/kg		U	66.7	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	4-Chlorobenzenamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	4-Chlorophenyl phenyl ether	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-01-8.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	4-Nitrobenzenamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	4-Nitrophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Acenaphthene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Acenaphthylene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Acetone	5.3	ug/kg		U	5.3	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Acetonitrile	20	ug/kg		U	20	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Acetophenone	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Acrylonitrile	9.8	ug/kg		U	9.8	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Aldrin	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	alpha-BHC	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	alpha-Chlordane	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Aluminum	8100	mg/kg			1.4	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Americium-241	0.00776	pCi/g	0.0132	U	0.0215	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Anthracene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Antimony	6.9	mg/kg			0.025	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Arsenic	79	mg/kg			0.045	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Barium	97	mg/kg			0.062	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Benz(a)anthracene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Benzene	0.46	ug/kg		U	0.46	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Benzenemethanol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Benzo(a)pyrene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Benzo(b)fluoranthene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Benzo(ghi)perylene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Benzo(k)fluoranthene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Benzoic acid	83.3	ug/kg		U	83.3	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Beryllium	1.2	mg/kg			0.02	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	beta-BHC	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Bis(2-chloroethoxy)methane	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Bis(2-chloroethyl) ether	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	bis(2-Chloroisopropyl)ether	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Bis(2-ethylhexyl)phthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Bromoform	0.22	ug/kg		U	0.22	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Butyl benzyl phthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Cadmium	1.4	mg/kg			0.0083	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Calcium	520	mg/kg			13	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Chlordane	0.663	ug/kg		U	0.663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Chloroethane	0.87	ug/kg		U	0.87	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Chloroform	0.28	ug/kg		U	0.28	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Chloromethane	0.75	ug/kg		U	0.75	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Chromium	11	mg/kg			0.067	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Chromium, trivalent	11	mg/kg			2	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Chrysene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Cobalt	16	mg/kg			0.0059	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Copper	17	mg/kg			0.063	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-06-8.0	WETCHEM	Cyanide	0.1	mg/kg		U	0.1	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	HERB	Dalapon	3.99	ug/kg		U	3.99	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	delta-BHC	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Dibenz(a,h)anthracene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Dibenzofuran	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	HERB	Dicamba	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Diethyl phthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Dimethyl phthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Di-n-butyl phthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Di-n-octylphthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Diphenylamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Endosulfan I	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Endrin	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Ethyl cyanide	7.3	ug/kg		U	7.3	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Fluoranthene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Fluorene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	gamma-Chlordane	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-02-8.0	PPCB	Heptachlor	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Heptachlor epoxide	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Hexachlorobutadiene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Hexachloroethane	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Indeno(1,2,3-cd)pyrene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Iron	35000	mg/kg			3.4	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Isobutanol	27	ug/kg		U	27	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Isophorone	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Kepone	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Lead	70	mg/kg			0.016	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Lindane	0.0663	ug/kg		U	0.0663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Lithium	19	mg/kg			0.27	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	M + P Xylene	1	ug/kg		U	1	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	m+p Methylphenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Magnesium	1400	mg/kg			3.3	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Manganese	290	mg/kg			0.029	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	HERB	MCPA	45.9	ug/kg		U	45.9	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	HERB	MCPP	39.9	ug/kg		U	39.9	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Mercury	0.029	mg/kg			0.0061	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Methoxychlor	0.663	ug/kg		U	0.663	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Methylene chloride	2.2	ug/kg		BJ	1.6	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	WETCHEM	Moisture	11	%				6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Naphthalene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Neptunium-237	0.00486	pCi/g	0.0119	U	0.0191	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Nickel	33	mg/kg			0.022	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Nitrobenzene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	N-Nitrosodimethylamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	N-Nitroso-di-n-propylamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	N-Nitrosomorpholine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	O,O,O-Triethylphosphorothioate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.6	ug/kg			0.536	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-8.0	DI/FURA	Octachlorodibenzofuran	0.536	ug/kg		U	0.536	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	PCB-1016	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	PCB-1221	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	PCB-1232	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	PCB-1242	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	PCB-1248	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	PCB-1254	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	PCB-1260	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	PCB-1268	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Phenanthrene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Phenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Plutonium-238	0.00332	pCi/g	0.00798	U	0.0127	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Plutonium-239/240	-0.00332	pCi/g	0.00651	U	0.0159	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Polychlorinated biphenyl	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Potassium	1800	mg/kg			37	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Pyrene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	SVOA	Pyridine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Selenium	1.2	mg/kg			0.12	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Silver	0.065	mg/kg		B	0.018	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	HERB	Silvex	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Sodium	160	mg/kg		B	53	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Strontium	17	mg/kg			0.032	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Styrene	0.62	ug/kg		U	0.62	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Technetium-99	-0.095	pCi/g	0.149	U	0.26	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Thallium	0.31	mg/kg			0.0031	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Thorium-228	1.32	pCi/g	0.171		0.0623	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Thorium-230	0.961	pCi/g	0.147		0.0706	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Thorium-232	1.35	pCi/g	0.172		0.0541	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Tin	0.82	mg/kg		U	0.82	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Titanium	33	mg/kg			0.13	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Toluene	0.67	ug/kg		U	0.67	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-8.0	PPCB	Toxaphene	2.21	ug/kg		U	2.21	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Uranium	1.3	mg/kg			0.0014	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Uranium-233/234	1.06	pCi/g	0.125		0.0565	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Uranium-235/236	0.0418	pCi/g	0.0306		0.03	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-8.0	RADS	Uranium-238	1.03	pCi/g	0.12		0.0243	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Vanadium	16	mg/kg			0.034	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Vinyl acetate	1	ug/kg		U	1	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-8.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-8.0	METAL	Zinc	78	mg/kg			0.28	6	8	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-01-14.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/kg		U	0.44	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.271	ug/kg		U	0.271	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0251	ug/kg		J	0.271	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.271	ug/kg		U	0.271	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.271	ug/kg		U	0.271	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.271	ug/kg		U	0.271	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.271	ug/kg		U	0.271	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.271	ug/kg		U	0.271	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.271	ug/kg		U	0.271	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.271	ug/kg		U	0.271	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.108	ug/kg		U	0.108	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.108	ug/kg		U	0.108	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	1,2,4-Trichlorobenzene	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,2-Dibromo-3-chloropropane	0.59	ug/kg		U	0.59	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	1,2-Dichlorobenzene	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,2-Dichloroethene	0.38	ug/kg		U	0.38	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	1,3-Dichlorobenzene	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	1,4-Dichlorobenzene	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	VOA	1,4-Dioxane	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.271	ug/kg		U	0.271	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.108	ug/kg		U	0.108	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.108	ug/kg		U	0.108	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0434	ug/kg		J	0.108	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2,4,5-Trichlorophenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2,4,6-Trichlorophenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	HERB	2,4-D	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	2,4'-DDD	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	2,4'-DDE	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	2,4'-DDT	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2,4-Dichlorophenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2,4-Dimethylphenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2,4-Dinitrophenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2,4-Dinitrotoluene	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2,6-Dinitrotoluene	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2-Chloronaphthalene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2-Chlorophenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2-Methyl-4,6-dinitrophenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2-Methylnaphthalene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2-Methylphenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2-Nitrobenzenamine	54.7	ug/kg		U	54.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	2-Nitrophenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	3,3'-Dichlorobenzidine	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	3-Nitrobenzenamine	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	4,4'-DDD	0.131	ug/kg		U	0.131	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	4,4'-DDE	0.131	ug/kg		U	0.131	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	4,4'-DDT	0.131	ug/kg		U	0.131	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	4-Aminobiphenyl	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	4-Bromophenyl phenyl ether	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	4-Chloro-3-methylphenol	66.3	ug/kg		U	66.3	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	4-Chlorobenzenamine	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	4-Chlorophenyl phenyl ether	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	4-Nitrobenzenamine	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	4-Nitrophenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Acenaphthene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Acenaphthylene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Acetone	5.3	ug/kg		U	5.3	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Acetonitrile	20	ug/kg		U	20	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Acetophenone	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Acrylonitrile	9.9	ug/kg		U	9.9	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Aldrin	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	alpha-BHC	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	alpha-Chlordane	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Aluminum	12000	mg/kg			1.6	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Americium-241	0.0148	pCi/g	0.0133	U	0.0182	12	16	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-02-14.0	SVOA	Anthracene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Antimony	5.3	mg/kg			0.027	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Arsenic	58	mg/kg			0.043	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Barium	52	mg/kg			0.06	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Benz(a)anthracene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Benzene	0.46	ug/kg		U	0.46	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Benzenemethanol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Benzo(a)pyrene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Benzo(b)fluoranthene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Benzo(ghi)perylene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Benzo(k)fluoranthene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Benzoic acid	82.9	ug/kg		U	82.9	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Beryllium	0.9	mg/kg			0.019	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	beta-BHC	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Bis(2-chloroethoxy)methane	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Bis(2-chloroethyl) ether	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	bis(2-Chloroisopropyl)ether	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Bis(2-ethylhexyl)phthalate	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Bromoform	0.23	ug/kg		U	0.23	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Butyl benzyl phthalate	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Cadmium	1.4	mg/kg			0.0079	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Calcium	6300	mg/kg			14	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Chlordane	0.654	ug/kg		U	0.654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Chloroform	0.29	ug/kg		U	0.29	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Chromium	22	mg/kg			0.064	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-05-14.0	WETCHEM	Chromium, hexavalent	4.3	mg/kg		U	4.3	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Chromium, trivalent	18	mg/kg			17	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Chrysene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Cobalt	8.2	mg/kg			0.0056	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Copper	33	mg/kg			0.06	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-06-14.0	WETCHEM	Cyanide	0.11	mg/kg		U	0.11	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	HERB	Dalapon	3.99	ug/kg		U	3.99	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	delta-BHC	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Dibenz(a,h)anthracene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Dibenzofuran	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	HERB	Dicamba	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Dieldrin	0.131	ug/kg		U	0.131	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Diethyl phthalate	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Dimethyl phthalate	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Di-n-butyl phthalate	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Di-n-octylphthalate	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Diphenylamine	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Endosulfan I	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Endosulfan II	0.131	ug/kg		U	0.131	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Endosulfan sulfate	0.131	ug/kg		U	0.131	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Endrin	0.131	ug/kg		U	0.131	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Endrin aldehyde	0.131	ug/kg		U	0.131	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Endrin ketone	0.131	ug/kg		U	0.131	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Ethyl cyanide	7.4	ug/kg		U	7.4	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Fluoranthene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Fluorene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-05-14.0	ANION	Fluoride	3	mg/kg		B	0.77	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	gamma-Chlordane	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Heptachlor	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Heptachlor epoxide	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Hexachlorobenzene	0.131	ug/kg		U	0.131	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Hexachlorobutadiene	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Hexachlorocyclopentadiene	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Hexachloroethane	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Indeno(1,2,3-cd)pyrene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Iron	26000	mg/kg			3.8	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Isobutanol	27	ug/kg		U	27	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Isophorone	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Kepone	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Lead	32	mg/kg			0.015	12	14	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-02-14.0	PPCB	Lindane	0.0654	ug/kg		U	0.0654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Lithium	15	mg/kg			0.3	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	M + P Xylene	1	ug/kg		U	1	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	m+p Methylphenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Magnesium	1900	mg/kg			3.7	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Manganese	78	mg/kg			0.028	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	HERB	MCPA	45.9	ug/kg		U	45.9	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	HERB	MCPP	39.9	ug/kg		U	39.9	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Mercury	0.14	mg/kg			0.0055	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Methoxychlor	0.654	ug/kg		U	0.654	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Methylene chloride	2.6	ug/kg		BJ	1.6	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	WETCHEM	Moisture	18.5	%				12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Naphthalene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Neptunium-237	0.0131	pCi/g	0.0163	U	0.0234	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Nickel	62	mg/kg			0.021	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Nitrobenzene	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	N-Nitrosodimethylamine	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	N-Nitroso-di-n-propylamine	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	N-Nitrosomorpholine	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	O,O,O-Triethylphosphorothioate	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.258	ug/kg		J	0.541	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-14.0	DI/FURA	Octachlorodibenzofuran	0.541	ug/kg		U	0.541	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	PCB-1016	1.1	ug/kg		U	1.1	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	PCB-1221	1.1	ug/kg		U	1.1	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	PCB-1232	1.1	ug/kg		U	1.1	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	PCB-1242	1.1	ug/kg		U	1.1	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	PCB-1248	1.1	ug/kg		U	1.1	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	PCB-1254	1.1	ug/kg		U	1.1	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	PCB-1260	1.1	ug/kg		U	1.1	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	PCB-1268	1.1	ug/kg		U	1.1	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Pentachlorophenol	0.2	ug/kg		U	0.2	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Phenanthrene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Phenol	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Plutonium-238	-0.00299	pCi/g	0.0083	U	0.0184	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Plutonium-239/240	0.0105	pCi/g	0.0106	U	0.0143	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Polychlorinated biphenyl	1.1	ug/kg		U	1.1	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Potassium	3000	mg/kg			41	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Pyrene	4.97	ug/kg		U	4.97	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	SVOA	Pyridine	49.7	ug/kg		U	49.7	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Selenium	6.7	mg/kg			0.11	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Silver	0.18	mg/kg			0.019	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	HERB	Silvex	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Sodium	180	mg/kg		B	59	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Strontium	15	mg/kg			0.036	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Styrene	0.62	ug/kg		U	0.62	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Technetium-99	-0.118	pCi/g	0.156	U	0.274	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Thallium	3.2	mg/kg			0.003	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Thorium-228	1.24	pCi/g	0.2		0.135	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Thorium-230	5.07	pCi/g	0.379		0.113	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Thorium-232	1.09	pCi/g	0.177		0.07	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Tin	0.91	mg/kg		U	0.91	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Titanium	28	mg/kg			0.14	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Toluene	0.68	ug/kg		U	0.68	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-14.0	PPCB	Toxaphene	2.18	ug/kg		U	2.18	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Uranium	6.1	mg/kg			0.0013	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Uranium-233/234	4.74	pCi/g	0.287		0.0784	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Uranium-235/236	0.259	pCi/g	0.0761		0.0366	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-14.0	RADS	Uranium-238	4.76	pCi/g	0.287		0.0621	12	16	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Vanadium	150	mg/kg			0.033	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-14.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-14.0	METAL	Zinc	250	mg/kg			0.27	12	14	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/kg		U	0.44	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.255	ug/kg		U	0.255	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.255	ug/kg		U	0.255	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.255	ug/kg		U	0.255	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.255	ug/kg		U	0.255	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.255	ug/kg		U	0.255	18	22	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.255	ug/kg		U	0.255	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.255	ug/kg		U	0.255	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.255	ug/kg		U	0.255	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.255	ug/kg		U	0.255	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.102	ug/kg		U	0.102	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.102	ug/kg		U	0.102	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	1,2,4-Trichlorobenzene	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,2-Dibromo-3-chloropropane	0.59	ug/kg		U	0.59	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	1,2-Dichlorobenzene	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,2-Dichloroethene	0.39	ug/kg		U	0.39	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	1,3-Dichlorobenzene	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	1,4-Dichlorobenzene	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	VOA	1,4-Dioxane	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.255	ug/kg		U	0.255	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.102	ug/kg		U	0.102	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.102	ug/kg		U	0.102	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.102	ug/kg		U	0.102	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2,4,5-Trichlorophenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2,4,6-Trichlorophenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	HERB	2,4-D	0.331	ug/kg		U	0.331	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	2,4'-DDD	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	2,4'-DDE	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	2,4'-DDT	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2,4-Dichlorophenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2,4-Dimethylphenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2,4-Dinitrophenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2,4-Dinitrotoluene	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2,6-Dinitrotoluene	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	2-Butanone	11	ug/kg		J	1.8	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2-Chloronaphthalene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2-Chlorophenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2-Methyl-4,6-dinitrophenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2-Methylnaphthalene	60.1	ug/kg			4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2-Methylphenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2-Nitrobenzenamine	53.9	ug/kg		U	53.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	2-Nitrophenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	3,3'-Dichlorobenzidine	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	3-Nitrobenzenamine	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	4,4'-DDD	0.132	ug/kg		U	0.132	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	4,4'-DDE	0.132	ug/kg		U	0.132	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	4,4'-DDT	0.132	ug/kg		U	0.132	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	4-Aminobiphenyl	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	4-Bromophenyl phenyl ether	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	4-Chloro-3-methylphenol	65.3	ug/kg		U	65.3	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	4-Chlorobenzenamine	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	4-Chlorophenyl phenyl ether	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	4-Nitrobenzenamine	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	4-Nitrophenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Acenaphthene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Acenaphthylene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Acetone	5.3	ug/kg		U	5.3	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Acetonitrile	20	ug/kg		U	20	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Acetophenone	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Acrylonitrile	9.9	ug/kg		U	9.9	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Aldrin	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	alpha-BHC	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	alpha-Chlordane	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Aluminum	4800	mg/kg			1.4	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Americium-241	0.0115	pCi/g	0.0136	U	0.0177	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Anthracene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Antimony	12	mg/kg			0.027	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Arsenic	40	mg/kg			0.046	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Barium	42	mg/kg			0.065	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Benz(a)anthracene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Benzene	0.46	ug/kg		U	0.46	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Benzenemethanol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Benzo(a)pyrene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Benzo(b)fluoranthene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Benzo(ghi)perylene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Benzo(k)fluoranthene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Benzoic acid	81.7	ug/kg		U	81.7	18	22	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-03-20.0	METAL	Beryllium	0.29	mg/kg			0.021	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	beta-BHC	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Bis(2-chloroethoxy)methane	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Bis(2-chloroethyl) ether	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	bis(2-Chloroisopropyl)ether	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Bis(2-ethylhexyl)phthalate	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Bromoform	0.23	ug/kg		U	0.23	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Butyl benzyl phthalate	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Cadmium	3.4	mg/kg			0.0086	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Calcium	190	mg/kg			13	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Chlordane	0.659	ug/kg		U	0.659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Chloroform	0.29	ug/kg		U	0.29	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Chromium	18	mg/kg			0.07	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-05-20.0	WETCHEM	Chromium, hexavalent	12	mg/kg		B	4.6	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Chromium, trivalent	19	mg/kg		U	19	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Chrysene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Cobalt	2.1	mg/kg			0.0061	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Copper	52	mg/kg			0.065	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-06-20.0	WETCHEM	Cyanide	0.1	mg/kg		U	0.1	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	HERB	Dalapon	3.99	ug/kg		U	3.99	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	delta-BHC	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Dibenz(a,h)anthracene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Dibenzofuran	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	HERB	Dicamba	0.331	ug/kg		U	0.331	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Dieldrin	0.132	ug/kg		U	0.132	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Diethyl phthalate	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Dimethyl phthalate	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Di-n-butyl phthalate	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Di-n-octylphthalate	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Diphenylamine	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Endosulfan I	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Endosulfan II	0.132	ug/kg		U	0.132	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Endosulfan sulfate	0.132	ug/kg		U	0.132	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Endrin	0.132	ug/kg		U	0.132	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Endrin aldehyde	0.132	ug/kg		U	0.132	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Endrin ketone	0.132	ug/kg		U	0.132	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Ethyl cyanide	7.4	ug/kg		U	7.4	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Fluoranthene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Fluorene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-05-20.0	ANION	Fluoride	1.3	mg/kg		B	0.81	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	gamma-Chlordane	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Heptachlor	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Heptachlor epoxide	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Hexachlorobenzene	0.132	ug/kg		U	0.132	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Hexachlorobutadiene	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Hexachlorocyclopentadiene	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Hexachloroethane	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Indeno(1,2,3-cd)pyrene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Iron	23000	mg/kg			3.5	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Isobutanol	27	ug/kg		U	27	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Isophorone	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Kepone	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Lead	13	mg/kg			0.017	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Lindane	0.0659	ug/kg		U	0.0659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Lithium	2.1	mg/kg		B	0.28	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	M + P Xylene	1	ug/kg		U	1	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	m+p Methylphenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Magnesium	500	mg/kg			3.4	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Manganese	13	mg/kg			0.03	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	HERB	MCPA	45.9	ug/kg		U	45.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	HERB	MCPP	39.9	ug/kg		U	39.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Mercury	0.1	mg/kg			0.0066	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Methoxychlor	0.659	ug/kg		U	0.659	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Methylene chloride	3.2	ug/kg		BJ	1.6	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	WETCHEM	Moisture	15.4	%				18	22	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-02-20.0	SVOA	Naphthalene	91.5	ug/kg			4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Neptunium-237	0.0201	pCi/g	0.0207	U	0.0293	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Nickel	35	mg/kg			0.023	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Nitrobenzene	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	N-Nitrosodimethylamine	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	N-Nitroso-di-n-propylamine	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	N-Nitrosomorpholine	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	O,O,O-Triethylphosphorothioate	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0475	ug/kg		J	0.51	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-07-20.0	DI/FURA	Octachlorodibenzofuran	0.51	ug/kg		U	0.51	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	PCB-1016	1.09	ug/kg		U	1.09	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	PCB-1221	1.09	ug/kg		U	1.09	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	PCB-1232	1.09	ug/kg		U	1.09	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	PCB-1242	1.09	ug/kg		U	1.09	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	PCB-1248	1.09	ug/kg		U	1.09	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	PCB-1254	1.09	ug/kg		U	1.09	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	PCB-1260	1.09	ug/kg		U	1.09	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	PCB-1268	1.09	ug/kg		U	1.09	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Pentachlorophenol	0.2	ug/kg		U	0.2	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Phenanthrene	51.5	ug/kg			4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Phenol	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Plutonium-238	0.00465	pCi/g	0.00911	U	0.0148	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Plutonium-239/240	0.0062	pCi/g	0.00859	U	0.0119	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Polychlorinated biphenyl	1.09	ug/kg		U	1.09	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Potassium	3000	mg/kg			38	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Pyrene	4.9	ug/kg		U	4.9	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	SVOA	Pyridine	49	ug/kg		U	49	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Selenium	12	mg/kg			0.12	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Silver	0.68	mg/kg			0.018	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	HERB	Silvex	0.331	ug/kg		U	0.331	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Sodium	220	mg/kg		B	55	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Strontium	27	mg/kg			0.033	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Styrene	0.62	ug/kg		U	0.62	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Technetium-99	0.0556	pCi/g	0.0321	U	0.166	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Thallium	5.7	mg/kg			0.0032	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Thorium-228	1.21	pCi/g	0.187		0.0947	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Thorium-230	10.5	pCi/g	0.532		0.109	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Thorium-232	1.11	pCi/g	0.175		0.0674	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Tin	0.84	mg/kg		U	0.84	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Titanium	16	mg/kg			0.13	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Toluene	0.68	ug/kg		U	0.68	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Total Xylene	0.67	ug/kg		J	0.6	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-02-20.0	PPCB	Toxaphene	2.19	ug/kg		U	2.19	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Uranium	20	mg/kg			0.0014	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Uranium-233/234	9.26	pCi/g	0.449		0.074	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Uranium-235/236	0.496	pCi/g	0.117		0.0464	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-04-20.0	RADS	Uranium-238	9.29	pCi/g	0.449		0.0169	18	22	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Vanadium	160	mg/kg			0.035	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-20.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-03-20.0	METAL	Zinc	91	mg/kg			0.29	18	20	SOIL	REG	SPS		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/kg		U	0.44	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.268	ug/kg		U	0.268	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.268	ug/kg		U	0.268	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.268	ug/kg		U	0.268	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.268	ug/kg		U	0.268	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.268	ug/kg		U	0.268	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.268	ug/kg		U	0.268	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.268	ug/kg		U	0.268	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.268	ug/kg		U	0.268	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.268	ug/kg		U	0.268	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.107	ug/kg		U	0.107	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.107	ug/kg		U	0.107	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	1,2,4-Trichlorobenzene	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,2-Dibromo-3-chloropropane	0.58	ug/kg		U	0.58	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	1,2-Dichlorobenzene	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,2-Dichloroethene	0.38	ug/kg		U	0.38	22	23	SOLID	REG	GRA		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-01-SU01	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	1,2-Dimethylbenzene	25	ug/kg			0.59	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	1,3-Dichlorobenzene	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	1,4-Dichlorobenzene	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	VOA	1,4-Dioxane	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.268	ug/kg		U	0.268	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.107	ug/kg		U	0.107	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.107	ug/kg		U	0.107	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.107	ug/kg		U	0.107	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	HERB	2,4,5-T	0.331	ug/kg		U	0.331	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2,4,5-Trichlorophenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2,4,6-Trichlorophenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	HERB	2,4-D	0.331	ug/kg		U	0.331	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	HERB	2,4-DB	0.331	ug/kg		U	0.331	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	2,4'-DDD	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	2,4'-DDE	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	2,4'-DDT	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2,4-Dichlorophenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2,4-Dimethylphenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2,4-Dinitrophenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2,4-Dinitrotoluene	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2,6-Dinitrotoluene	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	2-Butanone	37	ug/kg			1.8	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2-Chloronaphthalene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2-Chlorophenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	2-Hexanone	4.8	ug/kg		U	4.8	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2-Methyl-4,6-dinitrophenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2-Methylnaphthalene	1440	ug/kg			5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2-Methylphenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2-Nitrobenzenamine	55	ug/kg		U	55	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	2-Nitrophenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	3,3'-Dichlorobenzidine	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	3-Nitrobenzenamine	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	4-Aminobiphenyl	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	4-Bromophenyl phenyl ether	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	4-Chloro-3-methylphenol	66.7	ug/kg		U	66.7	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	4-Chlorobenzenamine	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	4-Chlorophenyl phenyl ether	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	4-Nitrobenzenamine	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	4-Nitrophenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Acenaphthene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Acenaphthylene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Acetone	39	ug/kg			5.2	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Acetonitrile	19	ug/kg		U	19	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Acetophenone	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Acrylonitrile	9.7	ug/kg		U	9.7	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Aldrin	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	alpha-BHC	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	alpha-Chlordane	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Aluminum	7700	mg/kg			1.5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Americium-241	0.0154	pCi/g	0.0159	U	0.0197	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Anthracene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Antimony	6.7	mg/kg			0.027	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Arsenic	27	mg/kg			0.045	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Barium	28	mg/kg			0.063	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Benz(a)anthracene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Benzene	14	ug/kg			0.46	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Benzenemethanol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Benzo(a)pyrene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Benzo(b)fluoranthene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Benzo(ghi)perylene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Benzo(k)fluoranthene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Benzoic acid	83.3	ug/kg		U	83.3	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Beryllium	0.74	mg/kg			0.02	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	beta-BHC	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Bis(2-chloroethoxy)methane	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Bis(2-chloroethyl) ether	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	bis(2-Chloroisopropyl)ether	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Bis(2-ethylhexyl)phthalate	118	ug/kg		J	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Bromoform	0.22	ug/kg		U	0.22	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Bromomethane	0.49	ug/kg		U	0.49	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Butyl benzyl phthalate	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Cadmium	17	mg/kg			0.0084	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Calcium	2700	mg/kg			13	22	23	SOLID	REG	GRA		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-01-SU01	VOA	Carbon disulfide	7.8	ug/kg			0.41	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Chlordane	0.665	ug/kg		U	0.665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Chloroethane	0.87	ug/kg		U	0.87	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Chloroform	0.28	ug/kg		U	0.28	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Chloromethane	0.75	ug/kg		U	0.75	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Chromium	16	mg/kg			0.068	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-05-SU01	WETCHEM	Chromium, hexavalent	0.51	mg/kg		U	0.51	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Chromium, trivalent	16	mg/kg			2	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Chrysene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Cobalt	16	mg/kg			0.0059	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Copper	66	mg/kg			0.063	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-06-SU01	WETCHEM	Cyanide	0.099	mg/kg		U	0.099	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	HERB	Dalapon	3.99	ug/kg		U	3.99	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	delta-BHC	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Dibenz(a,h)anthracene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Dibenzofuran	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	HERB	Dicamba	0.331	ug/kg		U	0.331	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	HERB	Dichloroprop	0.331	ug/kg		U	0.331	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Dieldrin	0.133	ug/kg		U	0.133	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Diethyl phthalate	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Dimethyl phthalate	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Di-n-butyl phthalate	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Di-n-octylphthalate	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	HERB	Dinoseb	0.331	ug/kg		U	0.331	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Diphenylamine	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Endosulfan I	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Endrin	0.133	ug/kg		U	0.133	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Ethyl cyanide	7.3	ug/kg		U	7.3	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Ethylbenzene	11	ug/kg			0.65	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Fluoranthene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Fluorene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-05-SU01	ANION	Fluoride	0.79	mg/kg		U	0.79	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	gamma-Chlordane	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Heptachlor	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Heptachlor epoxide	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Hexachlorobutadiene	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Hexachloroethane	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Indeno(1,2,3-cd)pyrene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Iron	18000	mg/kg			3.6	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Isobutanol	27	ug/kg		U	27	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Isophorone	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Kepone	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Lead	16	mg/kg			0.016	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Lindane	0.0665	ug/kg		U	0.0665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Lithium	20	mg/kg			0.29	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	M + P Xylene	81	ug/kg			1	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	m+p Methylphenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Magnesium	2800	mg/kg			3.5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Manganese	100	mg/kg			0.029	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	HERB	MCPA	45.9	ug/kg		U	45.9	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	HERB	MCPP	39.9	ug/kg		U	39.9	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Mercury	0.038	mg/kg			0.0048	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Methoxychlor	0.665	ug/kg		U	0.665	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Methylene chloride	4.3	ug/kg		BJ	1.6	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	WETCHEM	Moisture	6.7	%				22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Naphthalene	928	ug/kg			5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Neptunium-237	0.00668	pCi/g	0.0144	U	0.0237	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Nickel	220	mg/kg			0.023	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Nitrobenzene	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	N-Nitrosodimethylamine	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	N-Nitroso-di-n-propylamine	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	N-Nitrosomorpholine	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	O,O,O-Triethylphosphorothioate	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0513	ug/kg		J	0.536	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-07-SU01	DI/FURA	Octachlorodibenzofuran	0.536	ug/kg		U	0.536	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	PCB-1016	1.11	ug/kg		U	1.11	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	PCB-1221	1.11	ug/kg		U	1.11	22	23	SOLID	REG	GRA		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-59	WDSB59-02-SU01	PPCB	PCB-1232	1.11	ug/kg		U	1.11	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	PCB-1242	1.11	ug/kg		U	1.11	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	PCB-1248	1.11	ug/kg		U	1.11	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	PCB-1254	1.11	ug/kg		U	1.11	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	PCB-1260	1.11	ug/kg		U	1.11	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	PCB-1268	1.11	ug/kg		U	1.11	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Pentachlorophenol	0.2	ug/kg		U	0.2	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Phenanthrene	60.5	ug/kg			5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Phenol	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Plutonium-238	0	pCi/g	0.00511	U	0.00553	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Plutonium-239/240	0.00368	pCi/g	0.00722	U	0.00553	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Polychlorinated biphenyl	1.11	ug/kg		U	1.11	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Potassium	1900	mg/kg			39	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Pyrene	5	ug/kg		U	5	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	SVOA	Pyridine	50	ug/kg		U	50	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Selenium	10	mg/kg			0.12	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Silver	0.65	mg/kg			0.018	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	HERB	Silvex	0.331	ug/kg		U	0.331	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Sodium	94	mg/kg		B	56	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Strontium	14	mg/kg			0.034	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Styrene	0.61	ug/kg		U	0.61	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Technetium-99	-0.0469	pCi/g	0.204	U	0.352	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Thallium	11	mg/kg			0.0031	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Thorium-228	1.21	pCi/g	0.192		0.0602	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Thorium-230	4.31	pCi/g	0.362		0.127	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Thorium-232	1.12	pCi/g	0.184		0.0601	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Tin	0.98	mg/kg		B	0.87	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Titanium	27	mg/kg			0.13	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Toluene	75	ug/kg			0.67	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Total Xylene	110	ug/kg			0.59	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-02-SU01	PPCB	Toxaphene	2.21	ug/kg		U	2.21	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Trichloroethene	0.22	ug/kg		U	0.22	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Trichlorofluoromethane	1	ug/kg		U	1	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Uranium	7.7	mg/kg			0.0014	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Uranium-233/234	4.23	pCi/g	0.318		0.0844	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Uranium-235/236	0.239	pCi/g	0.0885		0.0619	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-04-SU01	RADS	Uranium-238	4.42	pCi/g	0.323		0.0408	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Vanadium	93	mg/kg			0.034	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Vinyl acetate	1	ug/kg		U	1	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-01-SU01	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-59	WDSB59-03-SU01	METAL	Zinc	910	mg/kg			0.28	22	23	SOLID	REG	GRA		9/8/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/kg		U	0.44	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,1,2-Trichloroethane	0.86	ug/kg		U	0.86	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.269	ug/kg		U	0.269	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.256	ug/kg		U	0.256	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0454	ug/kg		J	0.269	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0353	ug/kg		J	0.256	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.269	ug/kg		U	0.269	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.256	ug/kg		U	0.256	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.269	ug/kg		U	0.269	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.256	ug/kg		U	0.256	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.269	ug/kg		U	0.269	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.256	ug/kg		U	0.256	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.269	ug/kg		U	0.269	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.256	ug/kg		U	0.256	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.269	ug/kg		U	0.269	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.256	ug/kg		U	0.256	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.269	ug/kg		U	0.269	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.256	ug/kg		U	0.256	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.269	ug/kg		U	0.269	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.256	ug/kg		U	0.256	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.108	ug/kg		U	0.108	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.102	ug/kg		U	0.102	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.108	ug/kg		U	0.108	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.102	ug/kg		U	0.102	0	2	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-61	WDSB61-08-1.0	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	1,2,4-Trichlorobenzene	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	1,2,4-Trichlorobenzene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,2-Dibromo-3-chloropropane	0.58	ug/kg		U	0.58	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,2-Dibromo-3-chloropropane	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	1,2-Dichlorobenzene	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	1,2-Dichlorobenzene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	1,3-Dichlorobenzene	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	1,3-Dichlorobenzene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	1,4-Dichlorobenzene	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	1,4-Dichlorobenzene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	VOA	1,4-Dioxane	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	VOA	1,4-Dioxane	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.269	ug/kg		U	0.269	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.256	ug/kg		U	0.256	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.108	ug/kg		U	0.108	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.102	ug/kg		U	0.102	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.108	ug/kg		U	0.108	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.102	ug/kg		U	0.102	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.108	ug/kg		U	0.108	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.102	ug/kg		U	0.102	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2,4,5-Trichlorophenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2,4,5-Trichlorophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2,4,6-Trichlorophenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2,4,6-Trichlorophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	HERB	2,4-D	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	HERB	2,4-D	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	2,4'-DDD	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	2,4'-DDD	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	2,4'-DDE	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	2,4'-DDE	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	2,4'-DDT	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	2,4'-DDT	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2,4-Dichlorophenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2,4-Dichlorophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2,4-Dimethylphenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2,4-Dimethylphenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2,4-Dinitrophenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2,4-Dinitrophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2,4-Dinitrotoluene	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2,4-Dinitrotoluene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2,6-Dinitrotoluene	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2,6-Dinitrotoluene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2-Chloronaphthalene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2-Chloronaphthalene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2-Chlorophenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2-Chlorophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2-Methyl-4,6-dinitrophenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2-Methyl-4,6-dinitrophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2-Methylnaphthalene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2-Methylnaphthalene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2-Methylphenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2-Methylphenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2-Nitrobenzenamine	54.2	ug/kg		U	54.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2-Nitrobenzenamine	54.1	ug/kg		U	54.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	2-Nitrophenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	2-Nitrophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	3,3'-Dichlorobenzidine	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	3,3'-Dichlorobenzidine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	3-Nitrobenzenamine	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	3-Nitrobenzenamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-61	WDSB61-02-1.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	4-Aminobiphenyl	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	4-Aminobiphenyl	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	4-Bromophenyl phenyl ether	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	4-Bromophenyl phenyl ether	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	4-Chloro-3-methylphenol	65.7	ug/kg		U	65.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	4-Chloro-3-methylphenol	65.6	ug/kg		U	65.6	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	4-Chlorobenzenamine	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	4-Chlorobenzenamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	4-Chlorophenyl phenyl ether	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	4-Chlorophenyl phenyl ether	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	4-Nitrobenzenamine	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	4-Nitrobenzenamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	4-Nitrophenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	4-Nitrophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Acenaphthene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Acenaphthene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Acenaphthylene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Acenaphthylene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Acetone	5.2	ug/kg		U	5.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Acetone	5.3	ug/kg		U	5.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Acetonitrile	19	ug/kg		U	19	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Acetonitrile	20	ug/kg		U	20	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Acetophenone	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Acetophenone	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Acrylonitrile	9.7	ug/kg		U	9.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Acrylonitrile	9.9	ug/kg		U	9.9	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Aldrin	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Aldrin	0.314	ug/kg		P	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	alpha-BHC	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	alpha-BHC	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	alpha-Chlordane	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	alpha-Chlordane	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Aluminum	17000	mg/kg			1.5	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Aluminum	15000	mg/kg			1.4	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Americium-241	0	pCi/g	0.0121	U	0.0241	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Americium-241	-0.00625	pCi/g	0.00914	U	0.0231	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Anthracene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Anthracene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Antimony	0.35	mg/kg			0.029	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Antimony	0.5	mg/kg			0.028	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Arsenic	9.2	mg/kg			0.046	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Arsenic	9.4	mg/kg			0.048	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Barium	75	mg/kg			0.064	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Barium	76	mg/kg			0.067	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Benz(a)anthracene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Benz(a)anthracene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Benzene	0.46	ug/kg		U	0.46	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Benzene	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Benzenemethanol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Benzenemethanol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Benzo(a)pyrene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Benzo(a)pyrene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Benzo(b)fluoranthene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Benzo(b)fluoranthene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Benzo(ghi)perylene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Benzo(ghi)perylene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Benzo(k)fluoranthene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Benzo(k)fluoranthene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Benzoic acid	82.1	ug/kg		U	82.1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Benzoic acid	82	ug/kg		U	82	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Beryllium	0.53	mg/kg			0.02	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Beryllium	0.72	mg/kg			0.021	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	beta-BHC	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	beta-BHC	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Bis(2-chloroethoxy)methane	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Bis(2-chloroethoxy)methane	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Bis(2-chloroethyl) ether	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Bis(2-chloroethyl) ether	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	bis(2-Chloroisopropyl)ether	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	bis(2-Chloroisopropyl)ether	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Bis(2-ethylhexyl)phthalate	221	ug/kg			49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Bis(2-ethylhexyl)phthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-61	WDSB61-08-1.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Butyl benzyl phthalate	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Butyl benzyl phthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Cadmium	0.13	mg/kg			0.0085	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Cadmium	0.19	mg/kg			0.0089	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Calcium	340	mg/kg			13	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Calcium	330	mg/kg			13	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Chlordane	0.667	ug/kg		U	0.667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Chlordane	0.666	ug/kg		U	0.666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Chloroethane	0.87	ug/kg		U	0.87	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Chloroform	0.29	ug/kg		U	0.29	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Chloromethane	0.75	ug/kg		U	0.75	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Chromium	18	mg/kg			0.068	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Chromium	16	mg/kg			0.072	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-12-1.0	WETCHEM	Chromium, hexavalent	13	mg/kg		B	5.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-05-1.0	WETCHEM	Chromium, hexavalent	8.4	mg/kg		B	5.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Chromium, trivalent	21	mg/kg		U	21	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Chromium, trivalent	21	mg/kg		U	21	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Chrysene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Chrysene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Cobalt	6.3	mg/kg			0.006	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Cobalt	5.9	mg/kg			0.0063	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Copper	11	mg/kg			0.064	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Copper	9.2	mg/kg			0.068	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-13-1.0	WETCHEM	Cyanide	0.11	mg/kg		U	0.11	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-06-1.0	WETCHEM	Cyanide	0.099	mg/kg		U	0.099	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	HERB	Dalapon	3.99	ug/kg		U	3.99	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	HERB	Dalapon	3.99	ug/kg		U	3.99	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	delta-BHC	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	delta-BHC	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Dibenz(a,h)anthracene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Dibenz(a,h)anthracene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Dibenzofuran	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Dibenzofuran	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	HERB	Dicamba	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	HERB	Dicamba	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Diethyl phthalate	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Diethyl phthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Dimethyl phthalate	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Dimethyl phthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Di-n-butyl phthalate	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Di-n-butyl phthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Di-n-octylphthalate	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Di-n-octylphthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Diphenylamine	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Diphenylamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Endosulfan I	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Endosulfan I	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-61	WDSB61-02-1.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Endrin	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Endrin	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Ethyl cyanide	7.3	ug/kg		U	7.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Ethyl cyanide	7.4	ug/kg		U	7.4	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Fluoranthene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Fluoranthene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Fluorene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Fluorene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-12-1.0	ANION	Fluoride	0.8	mg/kg		U	0.8	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-05-1.0	ANION	Fluoride	0.81	mg/kg		U	0.81	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	gamma-Chlordane	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	gamma-Chlordane	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Heptachlor	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Heptachlor	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Heptachlor epoxide	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Heptachlor epoxide	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Hexachlorobutadiene	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Hexachlorobutadiene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Hexachlorocyclopentadiene	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Hexachlorocyclopentadiene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Hexachloroethane	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Hexachloroethane	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Indeno(1,2,3-cd)pyrene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Indeno(1,2,3-cd)pyrene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Iron	23000	mg/kg			3.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Iron	24000	mg/kg			3.5	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Isobutanol	27	ug/kg		U	27	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Isobutanol	27	ug/kg		U	27	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Isophorone	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Isophorone	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Kepone	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Kepone	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Lead	13	mg/kg			0.016	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Lead	13	mg/kg			0.017	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Lindane	0.0667	ug/kg		U	0.0667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Lindane	0.0666	ug/kg		U	0.0666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Lithium	15	mg/kg			0.29	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Lithium	14	mg/kg			0.28	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	m+p Methylphenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	m+p Methylphenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Magnesium	1900	mg/kg			3.5	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Magnesium	1700	mg/kg			3.4	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Manganese	420	mg/kg			0.03	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Manganese	440	mg/kg			0.031	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	HERB	MCPA	45.9	ug/kg		U	45.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	HERB	MCPA	45.9	ug/kg		U	45.9	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	HERB	MCPP	1570	ug/kg		P	39.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	HERB	MCPP	39.9	ug/kg		U	39.9	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Mercury	0.037	mg/kg			0.0059	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Mercury	0.036	mg/kg			0.006	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Methoxychlor	0.667	ug/kg		U	0.667	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Methoxychlor	0.666	ug/kg		U	0.666	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Methylene chloride	1.6	ug/kg		U	1.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Methylene chloride	1.6	ug/kg		U	1.6	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	WETCHEM	Moisture	11.3	%				0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	WETCHEM	Moisture	9.19	%				0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Naphthalene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Naphthalene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Neptunium-237	0.0109	pCi/g	0.0169	U	0.0277	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Neptunium-237	0.0161	pCi/g	0.017	U	0.0203	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Nickel	11	mg/kg			0.023	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Nickel	11	mg/kg			0.024	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Nitrobenzene	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Nitrobenzene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	N-Nitrosodimethylamine	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	N-Nitrosodimethylamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	N-Nitroso-di-n-propylamine	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	N-Nitroso-di-n-propylamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-61	WDSB61-09-1.0	SVOA	N-Nitrosomorpholine	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	N-Nitrosomorpholine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	O,O,O-Triethylphosphorothioate	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	O,O,O-Triethylphosphorothioate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	7.47	ug/kg			0.539	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	4.66	ug/kg			0.512	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-14-1.0	DI/FURA	Octachlorodibenzofuran	0.539	ug/kg		U	0.539	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-1.0	DI/FURA	Octachlorodibenzofuran	0.0156	ug/kg		J	0.512	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	PCB-1016	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	PCB-1016	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	PCB-1221	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	PCB-1221	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	PCB-1232	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	PCB-1232	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	PCB-1242	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	PCB-1242	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	PCB-1248	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	PCB-1248	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	PCB-1254	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	PCB-1254	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	PCB-1260	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	PCB-1260	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	PCB-1268	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	PCB-1268	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Pentachlorophenol	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Phenanthrene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Phenanthrene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Phenol	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Phenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Plutonium-238	-0.0037	pCi/g	0.00725	U	0.0165	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Plutonium-238	0.00369	pCi/g	0.00723	U	0.00553	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Plutonium-239/240	0.00246	pCi/g	0.00764	U	0.0136	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Plutonium-239/240	0.00553	pCi/g	0.00956	U	0.0141	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Polychlorinated biphenyl	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Polychlorinated biphenyl	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Potassium	1100	mg/kg			39	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Potassium	980	mg/kg			38	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Pyrene	4.93	ug/kg		U	4.93	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Pyrene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	SVOA	Pyridine	49.3	ug/kg		U	49.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	SVOA	Pyridine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Selenium	0.44	mg/kg		B	0.12	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Selenium	0.82	mg/kg			0.13	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Silver	0.028	mg/kg		B	0.02	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Silver	0.18	mg/kg			0.02	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	HERB	Silvex	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	HERB	Silvex	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Sodium	120	mg/kg		B	56	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Sodium	99	mg/kg		B	54	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Strontium	6.7	mg/kg			0.034	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Strontium	6.2	mg/kg			0.033	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Styrene	0.61	ug/kg		U	0.61	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Styrene	0.62	ug/kg		U	0.62	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Technetium-99	-0.12	pCi/g	0.223	U	0.388	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Technetium-99	-0.0899	pCi/g	0.223	U	0.387	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Thallium	0.28	mg/kg		B	0.0032	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Thallium	0.68	mg/kg		B	0.0033	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Thorium-228	1.06	pCi/g	0.148		0.0762	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Thorium-228	1.1	pCi/g	0.161		0.0916	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Thorium-230	1.14	pCi/g	0.155		0.0932	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Thorium-230	1.38	pCi/g	0.177		0.0771	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Thorium-232	1.01	pCi/g	0.141		0.0553	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Thorium-232	1.08	pCi/g	0.154		0.0444	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Tin	0.99	mg/kg		B	0.87	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Tin	0.99	mg/kg		B	0.84	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Titanium	120	mg/kg			0.13	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Titanium	110	mg/kg			0.13	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Toluene	0.67	ug/kg		U	0.67	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Toluene	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Total Xylene	0.59	ug/kg		U	0.59	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-09-1.0	PPCB	Toxaphene	2.22	ug/kg		U	2.22	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-02-1.0	PPCB	Toxaphene	2.22	ug/kg		U	2.22	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	FD	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-61	WDSB61-01-1.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Uranium	0.96	mg/kg			0.0014	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Uranium	1.1	mg/kg			0.0015	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Uranium-233/234	0.963	pCi/g	0.115		0.0646	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Uranium-233/234	1.11	pCi/g	0.127		0.0594	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Uranium-235/236	0.0977	pCi/g	0.0451		0.045	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Uranium-235/236	0.0704	pCi/g	0.0366		0.0132	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-11-1.0	RADS	Uranium-238	0.955	pCi/g	0.111		0.0252	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-04-1.0	RADS	Uranium-238	1.15	pCi/g	0.126		0.0107	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Vanadium	32	mg/kg			0.035	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Vanadium	31	mg/kg			0.037	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-08-1.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-01-1.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-10-1.0	METAL	Zinc	41	mg/kg			0.28	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-61	WDSB61-03-1.0	METAL	Zinc	39	mg/kg			0.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,1,1,2-Tetrachloroethane	0.49	ug/kg		U	0.49	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,1,1-Trichloroethane	0.45	ug/kg		U	0.45	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,1,2,2-Tetrachloroethane	0.53	ug/kg		U	0.53	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.39	ug/kg		U	0.39	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,1,2-Trichloroethane	0.77	ug/kg		U	0.77	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,1-Dichloroethane	0.18	ug/kg		U	0.18	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,1-Dichloroethene	0.52	ug/kg		U	0.52	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.279	ug/kg		U	0.279	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0173	ug/kg		J	0.279	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.279	ug/kg		U	0.279	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.279	ug/kg		U	0.279	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.279	ug/kg		U	0.279	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.279	ug/kg		U	0.279	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.279	ug/kg		U	0.279	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.279	ug/kg		U	0.279	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.279	ug/kg		U	0.279	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.112	ug/kg		U	0.112	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.112	ug/kg		U	0.112	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,2,3-Trichloropropane	0.71	ug/kg		U	0.71	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	1,2,4-Trichlorobenzene	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,2-Dibromo-3-chloropropane	0.52	ug/kg		U	0.52	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	1,2-Dichlorobenzene	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,2-Dichloroethane	0.61	ug/kg		U	0.61	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,2-Dichloroethene	0.34	ug/kg		U	0.34	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,2-Dichloropropane	0.48	ug/kg		U	0.48	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	1,2-Dimethylbenzene	0.53	ug/kg		U	0.53	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	1,3-Dichlorobenzene	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	1,4-Dichlorobenzene	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	VOA	1,4-Dioxane	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.279	ug/kg		U	0.279	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.112	ug/kg		U	0.112	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.112	ug/kg		U	0.112	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.112	ug/kg		U	0.112	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2,4,5-Trichlorophenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2,4,6-Trichlorophenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	HERB	2,4-D	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	2,4'-DDD	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	2,4'-DDE	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	2,4'-DDT	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2,4-Dichlorophenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2,4-Dimethylphenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2,4-Dinitrophenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2,4-Dinitrotoluene	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2,6-Dinitrotoluene	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	2-Butanone	1.6	ug/kg		U	1.6	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2-Chloronaphthalene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2-Chlorophenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	2-Hexanone	4.3	ug/kg		U	4.3	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2-Methyl-4,6-dinitrophenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2-Methylnaphthalene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2-Methylphenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2-Nitrobenzenamine	54.4	ug/kg		U	54.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	2-Nitrophenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	3,3'-Dichlorobenzidine	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	3-Nitrobenzenamine	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-61	WDSB61-02-8.0	SVOA	4-Aminobiphenyl	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	4-Bromophenyl phenyl ether	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	4-Chloro-3-methylphenol	65.9	ug/kg		U	65.9	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	4-Chlorobenzenamine	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	4-Chlorophenyl phenyl ether	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	4-Methyl-2-pentanone	3.8	ug/kg		U	3.8	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	4-Nitrobenzenamine	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	4-Nitrophenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Acenaphthene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Acenaphthylene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Acetone	4.7	ug/kg		U	4.7	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Acetonitrile	17	ug/kg		U	17	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Acetophenone	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Acrylonitrile	8.7	ug/kg		U	8.7	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Aldrin	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	alpha-BHC	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	alpha-Chlordane	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Aluminum	7500	mg/kg			1.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-04-8.0	RADS	Americium-241	0	pCi/g	0.00561	U	0.00607	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Anthracene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Antimony	0.38	mg/kg			0.026	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Arsenic	5.9	mg/kg			0.046	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Barium	46	mg/kg			0.064	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Benz(a)anthracene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Benzene	0.41	ug/kg		U	0.41	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Benzenemethanol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Benzo(a)pyrene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Benzo(b)fluoranthene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Benzo(ghi)perylene	7.09	ug/kg		J	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Benzo(k)fluoranthene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Benzoic acid	82.4	ug/kg		U	82.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Beryllium	0.61	mg/kg			0.02	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	beta-BHC	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Bis(2-chloroethoxy)methane	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Bis(2-chloroethyl) ether	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	bis(2-Chloroisopropyl)ether	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Bis(2-ethylhexyl)phthalate	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Bromodichloromethane	0.19	ug/kg		U	0.19	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Bromoform	0.2	ug/kg		U	0.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Bromomethane	0.44	ug/kg		U	0.44	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Butyl benzyl phthalate	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Cadmium	0.21	mg/kg			0.0085	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Calcium	420	mg/kg			13	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Carbon disulfide	0.37	ug/kg		U	0.37	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Carbon tetrachloride	0.55	ug/kg		U	0.55	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Chlordane	0.665	ug/kg		U	0.665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Chlorobenzene	0.47	ug/kg		U	0.47	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Chloroethane	0.78	ug/kg		U	0.78	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Chloroform	0.25	ug/kg		U	0.25	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Chloromethane	0.67	ug/kg		U	0.67	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Chromium	9.5	mg/kg			0.069	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-05-8.0	WETCHEM	Chromium, hexavalent	6	mg/kg		U	6	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Chromium, trivalent	24	mg/kg		U	24	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Chrysene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	cis-1,2-Dichloroethene	0.49	ug/kg		U	0.49	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	cis-1,3-Dichloropropene	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Cobalt	11	mg/kg			0.006	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Copper	8.7	mg/kg			0.065	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-06-8.0	WETCHEM	Cyanide	0.22	mg/kg		B	0.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	HERB	Dalapon	3.99	ug/kg		U	3.99	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	delta-BHC	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Dibenz(a,h)anthracene	6.43	ug/kg		J	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Dibenzofuran	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Dibromochloromethane	0.5	ug/kg		U	0.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	HERB	Dicamba	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Dichlorodifluoromethane	0.45	ug/kg		U	0.45	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Diethyl phthalate	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Dimethyl phthalate	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Di-n-butyl phthalate	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Di-n-octylphthalate	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Diphenylamine	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Endosulfan I	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Endrin	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-61	WDSB61-02-8.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Ethyl cyanide	6.5	ug/kg		U	6.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Ethylbenzene	0.59	ug/kg		U	0.59	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Fluoranthene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Fluorene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-05-8.0	ANION	Fluoride	2.4	mg/kg		B	0.8	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	gamma-Chlordane	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Heptachlor	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Heptachlor epoxide	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Hexachlorobutadiene	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Hexachlorocyclopentadiene	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Hexachloroethane	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Indeno(1,2,3-cd)pyrene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Iron	14000	mg/kg			3.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Isobutanol	24	ug/kg		U	24	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Isophorone	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Kepone	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Lead	7.5	mg/kg			0.017	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Lindane	0.0665	ug/kg		U	0.0665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Lithium	11	mg/kg			0.28	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	M + P Xylene	0.91	ug/kg		U	0.91	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	m+p Methylphenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Magnesium	960	mg/kg			3.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Manganese	200	mg/kg			0.03	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	HERB	MCPA	45.9	ug/kg		U	45.9	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	HERB	MCPP	39.9	ug/kg		U	39.9	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Mercury	0.012	mg/kg		B	0.0048	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Methoxychlor	0.665	ug/kg		U	0.665	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Methylene chloride	1.4	ug/kg		U	1.4	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	WETCHEM	Moisture	20.9	%				6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Naphthalene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-04-8.0	RADS	Neptunium-237	0.00464	pCi/g	0.0126	U	0.0226	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Nickel	14	mg/kg			0.023	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Nitrobenzene	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	N-Nitrosodimethylamine	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	N-Nitroso-di-n-propylamine	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	N-Nitrosomorpholine	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	O,O,O-Triethylphosphorothioate	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	1.12	ug/kg			0.558	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-07-8.0	DI/FURA	Octachlorodibenzofuran	0.558	ug/kg		U	0.558	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	PCB-1016	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	PCB-1221	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	PCB-1232	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	PCB-1242	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	PCB-1248	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	PCB-1254	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	PCB-1260	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	PCB-1268	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Phenanthrene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Phenol	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-04-8.0	RADS	Plutonium-238	6.2E-10	pCi/g	0.00687	U	0.0137	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-04-8.0	RADS	Plutonium-239/240	0.0124	pCi/g	0.0109	U	0.0153	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Polychlorinated biphenyl	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Potassium	920	mg/kg			38	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Pyrene	4.95	ug/kg		U	4.95	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	SVOA	Pyridine	49.5	ug/kg		U	49.5	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Selenium	0.16	mg/kg		B	0.12	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Silver	0.02	mg/kg		B	0.018	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	HERB	Silvex	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Sodium	95	mg/kg		B	54	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Strontium	6	mg/kg			0.033	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Styrene	0.55	ug/kg		U	0.55	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-04-8.0	RADS	Technetium-99	0.024	pCi/g	0.206	U	0.353	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Tetrachloroethene	0.52	ug/kg		U	0.52	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Thallium	0.21	mg/kg		B	0.0032	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-04-8.0	RADS	Thorium-228	1.07	pCi/g	0.145		0.077	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-04-8.0	RADS	Thorium-230	0.982	pCi/g	0.14		0.0819	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-04-8.0	RADS	Thorium-232	1.05	pCi/g	0.14		0.0461	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Tin	0.84	mg/kg		U	0.84	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Titanium	44	mg/kg			0.13	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Toluene	0.6	ug/kg		U	0.6	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Total Xylene	0.53	ug/kg		U	0.53	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-02-8.0	PPCB	Toxaphene	2.22	ug/kg		U	2.22	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	trans-1,2-Dichloroethene	0.34	ug/kg		U	0.34	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Trichloroethene	0.2	ug/kg		U	0.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Trichlorofluoromethane	0.91	ug/kg		U	0.91	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Uranium	0.72	mg/kg			0.0014	6	10	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-61	WDSB61-04-8.0	RADS	Uranium-233/234	0.822	pCi/g	0.0976		0.0529	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-04-8.0	RADS	Uranium-235/236	0.0652	pCi/g	0.0308		0.0103	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-04-8.0	RADS	Uranium-238	0.802	pCi/g	0.0934		0.0266	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Vanadium	21	mg/kg			0.035	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Vinyl acetate	0.93	ug/kg		U	0.93	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-01-8.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-61	WDSB61-03-8.0	METAL	Zinc	42	mg/kg			0.29	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,1,1,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,1,1,2-Tetrachloroethane	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,1,1-Trichloroethane	0.53	ug/kg		U	0.53	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,1,1-Trichloroethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,1,2,2-Tetrachloroethane	0.62	ug/kg		U	0.62	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,1,2,2-Tetrachloroethane	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/kg		U	0.46	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/kg		U	0.42	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,1,2-Trichloroethane	0.9	ug/kg		U	0.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,1,2-Trichloroethane	0.82	ug/kg		U	0.82	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,1-Dichloroethene	0.6	ug/kg		U	0.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,1-Dichloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.254	ug/kg		U	0.254	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.284	ug/kg		U	0.284	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.056	ug/kg		J	0.254	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.036	ug/kg		J	0.284	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.254	ug/kg		U	0.254	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.284	ug/kg		U	0.284	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.254	ug/kg		U	0.254	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.284	ug/kg		U	0.284	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.254	ug/kg		U	0.254	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.284	ug/kg		U	0.284	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.254	ug/kg		U	0.254	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.284	ug/kg		U	0.284	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.254	ug/kg		U	0.254	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.284	ug/kg		U	0.284	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.254	ug/kg		U	0.254	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.284	ug/kg		U	0.284	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.254	ug/kg		U	0.254	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.284	ug/kg		U	0.284	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.102	ug/kg		U	0.102	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.114	ug/kg		U	0.114	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.102	ug/kg		U	0.102	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.114	ug/kg		U	0.114	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,2,3-Trichloropropane	0.83	ug/kg		U	0.83	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,2,3-Trichloropropane	0.76	ug/kg		U	0.76	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	1,2,4-Trichlorobenzene	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	1,2,4-Trichlorobenzene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,2-Dibromo-3-chloropropane	0.61	ug/kg		U	0.61	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,2-Dibromo-3-chloropropane	0.56	ug/kg		U	0.56	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	1,2-Dichlorobenzene	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	1,2-Dichlorobenzene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,2-Dichloroethane	0.71	ug/kg		U	0.71	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,2-Dichloroethane	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,2-Dichloroethene	0.4	ug/kg		U	0.4	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,2-Dichloroethene	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,2-Dichloropropane	0.56	ug/kg		U	0.56	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,2-Dichloropropane	0.51	ug/kg		U	0.51	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	1,2-Dimethylbenzene	0.62	ug/kg		U	0.62	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	1,2-Dimethylbenzene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	1,3-Dichlorobenzene	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	1,3-Dichlorobenzene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	1,4-Dichlorobenzene	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	1,4-Dichlorobenzene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	VOA	1,4-Dioxane	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	VOA	1,4-Dioxane	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.254	ug/kg		U	0.254	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.284	ug/kg		U	0.284	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.102	ug/kg		U	0.102	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.114	ug/kg		U	0.114	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.102	ug/kg		U	0.102	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.114	ug/kg		U	0.114	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.102	ug/kg		U	0.102	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.114	ug/kg		U	0.114	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2,4,5-Trichlorophenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2,4,5-Trichlorophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2,4,6-Trichlorophenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2,4,6-Trichlorophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-09-1.0	HERB	2,4-D	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	HERB	2,4-D	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	2,4'-DDD	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	2,4'-DDD	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	2,4'-DDE	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	2,4'-DDE	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	2,4'-DDT	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	2,4'-DDT	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2,4-Dichlorophenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2,4-Dichlorophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2,4-Dimethylphenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2,4-Dimethylphenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2,4-Dinitrophenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2,4-Dinitrophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2,4-Dinitrotoluene	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2,4-Dinitrotoluene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2,6-Dinitrotoluene	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2,6-Dinitrotoluene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	2-Butanone	1.9	ug/kg		U	1.9	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2-Chloronaphthalene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2-Chloronaphthalene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2-Chlorophenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2-Chlorophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	2-Hexanone	5	ug/kg		U	5	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	2-Hexanone	4.6	ug/kg		U	4.6	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2-Methyl-4,6-dinitrophenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2-Methyl-4,6-dinitrophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2-Methylnaphthalene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2-Methylnaphthalene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2-Methylphenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2-Methylphenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2-Nitrobenzenamine	54.7	ug/kg		U	54.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2-Nitrobenzenamine	54.1	ug/kg		U	54.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	2-Nitrophenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	2-Nitrophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	3,3'-Dichlorobenzidine	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	3,3'-Dichlorobenzidine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	3-Nitrobenzenamine	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	3-Nitrobenzenamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	4-Aminobiphenyl	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	4-Aminobiphenyl	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	4-Bromophenyl phenyl ether	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	4-Bromophenyl phenyl ether	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	4-Chloro-3-methylphenol	66.2	ug/kg		U	66.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	4-Chloro-3-methylphenol	65.6	ug/kg		U	65.6	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	4-Chlorobenzenamine	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	4-Chlorobenzenamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	4-Chlorophenyl phenyl ether	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	4-Chlorophenyl phenyl ether	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	4-Methyl-2-pentanone	4.1	ug/kg		U	4.1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	4-Nitrobenzenamine	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	4-Nitrobenzenamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	4-Nitrophenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	4-Nitrophenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Acenaphthene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Acenaphthene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Acenaphthylene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Acenaphthylene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Acetone	5.5	ug/kg		U	5.5	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Acetone	5	ug/kg		U	5	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Acetonitrile	20	ug/kg		U	20	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Acetonitrile	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Acetophenone	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Acetophenone	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Acrylonitrile	10	ug/kg		U	10	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Acrylonitrile	9.3	ug/kg		U	9.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Aldrin	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Aldrin	0.225	ug/kg		JP	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	alpha-BHC	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-02-1.0	PPCB	alpha-BHC	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	alpha-Chlordane	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	alpha-Chlordane	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Aluminum	18000	mg/kg			1.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Aluminum	16000	mg/kg			1.4	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Americium-241	0.00671	pCi/g	0.0131	U	0.0214	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Americium-241	0.00511	pCi/g	0.0142	U	0.0245	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Anthracene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Anthracene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Antimony	0.39	mg/kg			0.027	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Antimony	0.47	mg/kg			0.027	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Arsenic	13	mg/kg			0.049	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Arsenic	21	mg/kg			0.046	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Barium	86	mg/kg			0.068	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Barium	80	mg/kg			0.064	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Benz(a)anthracene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Benz(a)anthracene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Benzene	0.48	ug/kg		U	0.48	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Benzene	0.44	ug/kg		U	0.44	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Benzenemethanol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Benzenemethanol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Benzo(a)pyrene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Benzo(a)pyrene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Benzo(b)fluoranthene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Benzo(b)fluoranthene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Benzo(ghi)perylene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Benzo(ghi)perylene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Benzo(k)fluoranthene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Benzo(k)fluoranthene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Benzoic acid	82.8	ug/kg		U	82.8	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Benzoic acid	82	ug/kg		U	82	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Beryllium	0.67	mg/kg			0.022	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Beryllium	0.67	mg/kg			0.02	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	beta-BHC	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	beta-BHC	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Bis(2-chloroethoxy)methane	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Bis(2-chloroethoxy)methane	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Bis(2-chloroethyl) ether	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Bis(2-chloroethyl) ether	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	bis(2-Chloroisopropyl)ether	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	bis(2-Chloroisopropyl)ether	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Bis(2-ethylhexyl)phthalate	216	ug/kg			49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Bis(2-ethylhexyl)phthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Bromoform	0.23	ug/kg		U	0.23	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Bromomethane	0.51	ug/kg		U	0.51	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Bromomethane	0.47	ug/kg		U	0.47	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Butyl benzyl phthalate	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Butyl benzyl phthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Cadmium	0.17	mg/kg			0.009	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Cadmium	0.16	mg/kg			0.0085	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Calcium	1300	mg/kg			12	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Calcium	270	mg/kg			13	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Carbon disulfide	0.43	ug/kg		U	0.43	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Carbon disulfide	0.39	ug/kg		U	0.39	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Carbon tetrachloride	0.64	ug/kg		U	0.64	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Carbon tetrachloride	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Chlordane	0.666	ug/kg		U	0.666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Chlordane	0.663	ug/kg		U	0.663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Chlorobenzene	0.55	ug/kg		U	0.55	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Chlorobenzene	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Chloroethane	0.91	ug/kg		U	0.91	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Chloroethane	0.83	ug/kg		U	0.83	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Chloroform	0.3	ug/kg		U	0.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Chloroform	0.27	ug/kg		U	0.27	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Chloromethane	0.79	ug/kg		U	0.79	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Chloromethane	0.72	ug/kg		U	0.72	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Chromium	20	mg/kg			0.073	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Chromium	18	mg/kg			0.069	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-12-1.0	WETCHEM	Chromium, hexavalent	23	mg/kg			5.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-05-1.0	WETCHEM	Chromium, hexavalent	13	mg/kg		B	6.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Chromium, trivalent	23	mg/kg		U	23	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Chromium, trivalent	25	mg/kg		U	25	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Chrysene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Chrysene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	cis-1,2-Dichloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	cis-1,2-Dichloroethene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-08-1.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Cobalt	6.7	mg/kg			0.0064	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Cobalt	6.8	mg/kg			0.006	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Copper	15	mg/kg			0.068	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Copper	14	mg/kg			0.065	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-13-1.0	WETCHEM	Cyanide	0.11	mg/kg		U	0.11	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-06-1.0	WETCHEM	Cyanide	0.25	mg/kg		B	0.099	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	HERB	Dalapon	3.98	ug/kg		U	3.98	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	HERB	Dalapon	3.99	ug/kg		U	3.99	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	delta-BHC	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	delta-BHC	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Dibenz(a,h)anthracene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Dibenz(a,h)anthracene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Dibenzofuran	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Dibenzofuran	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Dibromochloromethane	0.58	ug/kg		U	0.58	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Dibromochloromethane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	HERB	Dicamba	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	HERB	Dicamba	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Dichlorodifluoromethane	0.53	ug/kg		U	0.53	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Dichlorodifluoromethane	0.49	ug/kg		U	0.49	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Diethyl phthalate	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Diethyl phthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Dimethyl phthalate	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Dimethyl phthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Di-n-butyl phthalate	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Di-n-butyl phthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Di-n-octylphthalate	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Di-n-octylphthalate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Diphenylamine	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Diphenylamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Endosulfan I	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Endosulfan I	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Endrin	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Endrin	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Ethyl cyanide	7.6	ug/kg		U	7.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Ethyl cyanide	7	ug/kg		U	7	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Ethylbenzene	0.68	ug/kg		U	0.68	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Ethylbenzene	0.63	ug/kg		U	0.63	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Fluoranthene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Fluoranthene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Fluorene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Fluorene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-12-1.0	ANION	Fluoride	0.8	mg/kg		U	0.8	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-05-1.0	ANION	Fluoride	0.8	mg/kg		U	0.8	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	gamma-Chlordane	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	gamma-Chlordane	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Heptachlor	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Heptachlor	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Heptachlor epoxide	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Heptachlor epoxide	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Hexachlorobutadiene	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Hexachlorobutadiene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Hexachlorocyclopentadiene	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Hexachlorocyclopentadiene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Hexachloroethane	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Hexachloroethane	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Indeno(1,2,3-cd)pyrene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Indeno(1,2,3-cd)pyrene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Iron	23000	mg/kg			3.2	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Iron	21000	mg/kg			3.4	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Isobutanol	28	ug/kg		U	28	0	2	SOIL	FD	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-01-1.0	VOA	Isobutanol	26	ug/kg		U	26	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Isophorone	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Isophorone	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Kepone	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Kepone	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Lead	16	mg/kg			0.018	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Lead	20	mg/kg			0.017	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Lindane	0.0666	ug/kg		U	0.0666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Lindane	0.0663	ug/kg		U	0.0663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Lithium	28	mg/kg			0.25	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Lithium	26	mg/kg			0.27	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	M + P Xylene	1.1	ug/kg		U	1.1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	M + P Xylene	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	m+p Methylphenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	m+p Methylphenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Magnesium	1600	mg/kg			3.1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Magnesium	1600	mg/kg			3.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Manganese	150	mg/kg			0.032	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Manganese	140	mg/kg			0.03	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	HERB	MCPA	45.8	ug/kg		U	45.8	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	HERB	MCPA	45.8	ug/kg		U	45.8	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	HERB	MCPP	39.8	ug/kg		U	39.8	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	HERB	MCPP	247	ug/kg			39.9	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Mercury	0.023	mg/kg			0.006	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Mercury	0.022	mg/kg			0.0052	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Methoxychlor	0.666	ug/kg		U	0.666	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Methoxychlor	0.663	ug/kg		U	0.663	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Methylene chloride	1.6	ug/kg		U	1.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Methylene chloride	1.5	ug/kg		U	1.5	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	WETCHEM	Moisture	14.5	%				0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	WETCHEM	Moisture	13.9	%				0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Naphthalene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Naphthalene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Neptunium-237	0.00783	pCi/g	0.0115	U	0.0159	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Neptunium-237	0.0164	pCi/g	0.0154	U	0.0174	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Nickel	14	mg/kg			0.024	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Nickel	15	mg/kg			0.023	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Nitrobenzene	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Nitrobenzene	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	N-Nitrosodimethylamine	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	N-Nitrosodimethylamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	N-Nitroso-di-n-propylamine	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	N-Nitroso-di-n-propylamine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	N-Nitrosomorpholine	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	N-Nitrosomorpholine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	O,O,O-Triethylphosphorothioate	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	O,O,O-Triethylphosphorothioate	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	6.58	ug/kg			0.508	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	3.68	ug/kg			0.568	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-14-1.0	DI/FURA	Octachlorodibenzofuran	0.00949	ug/kg		J	0.508	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-07-1.0	DI/FURA	Octachlorodibenzofuran	0.568	ug/kg		U	0.568	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	PCB-1016	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	PCB-1016	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	PCB-1221	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	PCB-1221	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	PCB-1232	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	PCB-1232	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	PCB-1242	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	PCB-1242	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	PCB-1248	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	PCB-1248	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	PCB-1254	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	PCB-1254	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	PCB-1260	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	PCB-1260	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	PCB-1268	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	PCB-1268	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Phenanthrene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Phenanthrene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Phenol	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Phenol	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Plutonium-238	0	pCi/g	0.00628	U	0.00679	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Plutonium-238	-0.0141	pCi/g	0.0103	U	0.0253	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Plutonium-239/240	0.00226	pCi/g	0.00992	U	0.0173	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Plutonium-239/240	0.00383	pCi/g	0.00831	U	0.0141	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Polychlorinated biphenyl	1.09	ug/kg		U	1.09	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Polychlorinated biphenyl	1.11	ug/kg		U	1.11	0	2	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-10-1.0	METAL	Potassium	1200	mg/kg			34	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Potassium	1100	mg/kg			37	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Pyrene	4.97	ug/kg		U	4.97	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Pyrene	4.92	ug/kg		U	4.92	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	SVOA	Pyridine	49.7	ug/kg		U	49.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	SVOA	Pyridine	49.2	ug/kg		U	49.2	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Selenium	0.36	mg/kg		B	0.13	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Selenium	0.46	mg/kg			0.12	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Silver	0.021	mg/kg		B	0.019	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Silver	0.028	mg/kg		B	0.019	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	HERB	Silvex	0.331	ug/kg		U	0.331	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	HERB	Silvex	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Sodium	77	mg/kg		B	49	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Sodium	73	mg/kg		B	53	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Strontium	8.2	mg/kg			0.03	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Strontium	7.3	mg/kg			0.032	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Styrene	0.64	ug/kg		U	0.64	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Styrene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Technetium-99	0.00237	pCi/g	0.223	U	0.383	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Technetium-99	0.0649	pCi/g	0.224	U	0.381	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Tetrachloroethene	0.6	ug/kg		U	0.6	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Tetrachloroethene	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Thallium	0.26	mg/kg		B	0.0034	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Thallium	0.22	mg/kg		B	0.0032	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Thorium-228	1.08	pCi/g	0.142		0.0701	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Thorium-228	1.11	pCi/g	0.156		0.0946	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Thorium-230	0.989	pCi/g	0.137		0.0769	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Thorium-230	1.04	pCi/g	0.152		0.0994	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Thorium-232	1.22	pCi/g	0.146		0.0217	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Thorium-232	1.03	pCi/g	0.144		0.0497	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Tin	0.97	mg/kg		B	0.76	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Tin	0.93	mg/kg		B	0.82	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Titanium	60	mg/kg			0.12	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Titanium	64	mg/kg			0.13	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Toluene	0.7	ug/kg		U	0.7	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Toluene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Total Xylene	0.62	ug/kg		U	0.62	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Total Xylene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-09-1.0	PPCB	Toxaphene	2.22	ug/kg		U	2.22	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-02-1.0	PPCB	Toxaphene	2.21	ug/kg		U	2.21	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	trans-1,2-Dichloroethene	0.4	ug/kg		U	0.4	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	trans-1,2-Dichloroethene	0.36	ug/kg		U	0.36	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Trichlorofluoromethane	1.1	ug/kg		U	1.1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Trichlorofluoromethane	0.97	ug/kg		U	0.97	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Uranium	0.94	mg/kg			0.0015	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Uranium	0.91	mg/kg			0.0014	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Uranium-233/234	0.969	pCi/g	0.119		0.0593	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Uranium-233/234	0.884	pCi/g	0.114		0.0391	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Uranium-235/236	0.0659	pCi/g	0.0355		0.0132	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Uranium-235/236	0.0505	pCi/g	0.0349		0.0352	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-11-1.0	RADS	Uranium-238	0.963	pCi/g	0.116		0.034	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-04-1.0	RADS	Uranium-238	0.963	pCi/g	0.118		0.0111	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Vanadium	37	mg/kg			0.037	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Vanadium	31	mg/kg			0.035	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-08-1.0	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-01-1.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-10-1.0	METAL	Zinc	50	mg/kg			0.3	0	2	SOIL	FD	SPS		9/6/2012
WD-SB-63	WDSB63-03-1.0	METAL	Zinc	49	mg/kg			0.29	0	2	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,1,1,2-Tetrachloroethane	0.51	ug/kg		U	0.51	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,1,1-Trichloroethane	0.47	ug/kg		U	0.47	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,1,2,2-Tetrachloroethane	0.55	ug/kg		U	0.55	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.41	ug/kg		U	0.41	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,1,2-Trichloroethane	0.8	ug/kg		U	0.8	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,1-Dichloroethane	0.19	ug/kg		U	0.19	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,1-Dichloroethene	0.53	ug/kg		U	0.53	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.295	ug/kg		U	0.295	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.295	ug/kg		U	0.295	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.295	ug/kg		U	0.295	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.295	ug/kg		U	0.295	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.295	ug/kg		U	0.295	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.295	ug/kg		U	0.295	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.295	ug/kg		U	0.295	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.295	ug/kg		U	0.295	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.295	ug/kg		U	0.295	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.118	ug/kg		U	0.118	6	10	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.118	ug/kg		U	0.118	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,2,3-Trichloropropane	0.73	ug/kg		U	0.73	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	1,2,4-Trichlorobenzene	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,2-Dibromo-3-chloropropane	0.54	ug/kg		U	0.54	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	1,2-Dichlorobenzene	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,2-Dichloroethane	0.63	ug/kg		U	0.63	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,2-Dichloroethene	0.35	ug/kg		U	0.35	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,2-Dichloropropane	0.5	ug/kg		U	0.5	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	1,2-Dimethylbenzene	0.55	ug/kg		U	0.55	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	1,3-Dichlorobenzene	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	1,4-Dichlorobenzene	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	VOA	1,4-Dioxane	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.295	ug/kg		U	0.295	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.118	ug/kg		U	0.118	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.118	ug/kg		U	0.118	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.118	ug/kg		U	0.118	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2,4,5-Trichlorophenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2,4,6-Trichlorophenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	HERB	2,4-D	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	2,4'-DDD	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	2,4'-DDE	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	2,4'-DDT	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2,4-Dichlorophenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2,4-Dimethylphenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2,4-Dinitrophenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2,4-Dinitrotoluene	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2,6-Dinitrotoluene	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	2-Butanone	1.7	ug/kg		U	1.7	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2-Chloronaphthalene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2-Chlorophenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	2-Hexanone	4.4	ug/kg		U	4.4	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2-Methyl-4,6-dinitrophenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2-Methylnaphthalene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2-Methylphenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2-Nitrobenzenamine	54.1	ug/kg		U	54.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	2-Nitrophenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	3,3'-Dichlorobenzidine	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	3-Nitrobenzenamine	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	4-Aminobiphenyl	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	4-Bromophenyl phenyl ether	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	4-Chloro-3-methylphenol	65.6	ug/kg		U	65.6	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	4-Chlorobenzenamine	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	4-Chlorophenyl phenyl ether	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	4-Methyl-2-pentanone	3.9	ug/kg		U	3.9	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	4-Nitrobenzenamine	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	4-Nitrophenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Acenaphthene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Acenaphthylene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Acetone	4.9	ug/kg		U	4.9	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Acetonitrile	18	ug/kg		U	18	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Acetophenone	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Acrylonitrile	9	ug/kg		U	9	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Aldrin	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	alpha-BHC	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	alpha-Chlordane	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Aluminum	14000	mg/kg			1.4	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Americium-241	0.00799	pCi/g	0.0111	U	0.0153	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Anthracene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Antimony	0.17	mg/kg			0.025	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Arsenic	13	mg/kg			0.047	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Barium	59	mg/kg			0.066	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Benz(a)anthracene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Benzene	0.43	ug/kg		U	0.43	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Benzenemethanol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Benzo(a)pyrene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Benzo(b)fluoranthene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Benzo(ghi)perylene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Benzo(k)fluoranthene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Benzoic acid	82	ug/kg		U	82	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Beryllium	1.2	mg/kg			0.021	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	beta-BHC	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Bis(2-chloroethoxy)methane	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Bis(2-chloroethyl) ether	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	bis(2-Chloroisopropyl)ether	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-02-8.0	SVOA	Bis(2-ethylhexyl)phthalate	228	ug/kg			49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Bromodichloromethane	0.2	ug/kg		U	0.2	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Bromoform	0.21	ug/kg		U	0.21	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Bromomethane	0.45	ug/kg		U	0.45	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Butyl benzyl phthalate	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Cadmium	0.15	mg/kg			0.0088	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Calcium	830	mg/kg			13	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Carbon disulfide	0.38	ug/kg		U	0.38	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Carbon tetrachloride	0.57	ug/kg		U	0.57	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Chlordane	0.664	ug/kg		U	0.664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Chlorobenzene	0.49	ug/kg		U	0.49	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Chloroethane	0.81	ug/kg		U	0.81	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Chloroform	0.26	ug/kg		U	0.26	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Chloromethane	0.7	ug/kg		U	0.7	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Chromium	16	mg/kg			0.071	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-05-8.0	WETCHEM	Chromium, hexavalent	4.3	mg/kg		U	4.3	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Chromium, trivalent	17	mg/kg		U	17	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Chrysene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	cis-1,2-Dichloroethene	0.51	ug/kg		U	0.51	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Cobalt	13	mg/kg			0.0062	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Copper	18	mg/kg			0.066	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-06-8.0	WETCHEM	Cyanide	0.1	mg/kg		U	0.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	HERB	Dalapon	3.99	ug/kg		U	3.99	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	delta-BHC	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Dibenz(a,h)anthracene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Dibenzofuran	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Dibromochloromethane	0.52	ug/kg		U	0.52	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	HERB	Dicamba	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Dichlorodifluoromethane	0.47	ug/kg		U	0.47	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Diethyl phthalate	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Dimethyl phthalate	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Di-n-butyl phthalate	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Di-n-octylphthalate	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Diphenylamine	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Endosulfan I	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Endrin	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Ethyl cyanide	6.8	ug/kg		U	6.8	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Ethylbenzene	0.61	ug/kg		U	0.61	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Fluoranthene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Fluorene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-05-8.0	ANION	Fluoride	3.9	mg/kg		B	0.81	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	gamma-Chlordane	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Heptachlor	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Heptachlor epoxide	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Hexachlorobutadiene	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Hexachlorocyclopentadiene	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Hexachloroethane	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Indeno(1,2,3-cd)pyrene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Iron	16000	mg/kg			3.5	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Isobutanol	25	ug/kg		U	25	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Isophorone	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Kepone	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Lead	7.9	mg/kg			0.017	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Lindane	0.0664	ug/kg		U	0.0664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Lithium	65	mg/kg			0.28	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	M + P Xylene	0.94	ug/kg		U	0.94	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	m+p Methylphenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Magnesium	2500	mg/kg			3.4	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Manganese	200	mg/kg			0.031	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	HERB	MCPA	45.8	ug/kg		U	45.8	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	HERB	MCPP	39.9	ug/kg		U	39.9	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Mercury	0.011	mg/kg		B	0.0054	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Methoxychlor	0.664	ug/kg		U	0.664	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Methylene chloride	1.4	ug/kg		U	1.4	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	WETCHEM	Moisture	8.92	%				6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Naphthalene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Neptunium-237	0.00499	pCi/g	0.00917	U	0.00748	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Nickel	27	mg/kg			0.024	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Nitrobenzene	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	N-Nitrosodimethylamine	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-02-8.0	SVOA	N-Nitroso-di-n-propylamine	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	N-Nitrosomorpholine	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	O,O,O-Triethylphosphorothioate	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0309	ug/kg		J	0.59	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-8.0	DI/FURA	Octachlorodibenzofuran	0.59	ug/kg		U	0.59	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	PCB-1016	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	PCB-1221	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	PCB-1232	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	PCB-1242	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	PCB-1248	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	PCB-1254	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	PCB-1260	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	PCB-1268	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Phenanthrene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Phenol	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Plutonium-238	0	pCi/g	0.00508	U	0.0055	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Plutonium-239/240	0.00183	pCi/g	0.00803	U	0.014	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Polychlorinated biphenyl	1.1	ug/kg		U	1.1	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Potassium	2700	mg/kg			38	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Pyrene	4.92	ug/kg		U	4.92	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	SVOA	Pyridine	49.2	ug/kg		U	49.2	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Selenium	0.17	mg/kg		B	0.12	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Silver	0.018	mg/kg		B	0.017	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	HERB	Silvex	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Sodium	180	mg/kg		B	54	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Strontium	24	mg/kg			0.033	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Styrene	0.57	ug/kg		U	0.57	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Technetium-99	-0.079	pCi/g	0.22	U	0.381	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Tetrachloroethene	0.53	ug/kg		U	0.53	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Thallium	0.12	mg/kg		B	0.0033	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Thorium-228	1.75	pCi/g	0.186		0.0557	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Thorium-230	1.03	pCi/g	0.146		0.075	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Thorium-232	1.52	pCi/g	0.173		0.0558	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Tin	0.9	mg/kg		B	0.84	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Titanium	30	mg/kg			0.13	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Toluene	0.62	ug/kg		U	0.62	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Total Xylene	0.55	ug/kg		U	0.55	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-8.0	PPCB	Toxaphene	2.21	ug/kg		U	2.21	6	10	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	trans-1,2-Dichloroethene	0.35	ug/kg		U	0.35	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Trichloroethene	0.21	ug/kg		U	0.21	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Trichlorofluoromethane	0.94	ug/kg		U	0.94	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Uranium	0.58	mg/kg			0.0015	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Uranium-233/234	0.857	pCi/g	0.141		0.0797	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Uranium-235/236	0.0612	pCi/g	0.0516	U	0.0651	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-8.0	RADS	Uranium-238	1.08	pCi/g	0.154		0.0527	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Vanadium	26	mg/kg			0.036	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Vinyl acetate	0.97	ug/kg		U	0.97	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-8.0	VOA	Vinyl chloride	1.2	ug/kg		U	1.2	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-8.0	METAL	Zinc	61	mg/kg			0.3	6	8	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,1,1,2-Tetrachloroethane	0.56	ug/kg		U	0.56	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,1,1-Trichloroethane	0.52	ug/kg		U	0.52	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,1,2,2-Tetrachloroethane	0.61	ug/kg		U	0.61	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/kg		U	0.45	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,1,2-Trichloroethane	0.89	ug/kg		U	0.89	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,1-Dichloroethene	0.59	ug/kg		U	0.59	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.244	ug/kg		U	0.244	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.244	ug/kg		U	0.244	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.244	ug/kg		U	0.244	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.244	ug/kg		U	0.244	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.244	ug/kg		U	0.244	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.244	ug/kg		U	0.244	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.244	ug/kg		U	0.244	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.244	ug/kg		U	0.244	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.244	ug/kg		U	0.244	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0977	ug/kg		U	0.0977	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0977	ug/kg		U	0.0977	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,2,3-Trichloropropane	0.82	ug/kg		U	0.82	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	1,2,4-Trichlorobenzene	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,2-Dibromo-3-chloropropane	0.6	ug/kg		U	0.6	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	1,2-Dichlorobenzene	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,2-Dichloroethane	0.71	ug/kg		U	0.71	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,2-Dichloroethene	0.39	ug/kg		U	0.39	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,2-Dichloropropane	0.55	ug/kg		U	0.55	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	1,2-Dimethylbenzene	0.61	ug/kg		U	0.61	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	1,3-Dichlorobenzene	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	1,4-Dichlorobenzene	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	VOA	1,4-Dioxane	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-07-14.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.244	ug/kg		U	0.244	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0977	ug/kg		U	0.0977	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.0977	ug/kg		U	0.0977	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0977	ug/kg		U	0.0977	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2,4,5-Trichlorophenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2,4,6-Trichlorophenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	HERB	2,4-D	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	2,4'-DDD	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	2,4'-DDE	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	2,4'-DDT	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2,4-Dichlorophenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2,4-Dimethylphenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2,4-Dinitrophenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2,4-Dinitrotoluene	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2,6-Dinitrotoluene	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2-Chloronaphthalene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2-Chlorophenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	2-Hexanone	4.9	ug/kg		U	4.9	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2-Methyl-4,6-dinitrophenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2-Methylnaphthalene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2-Methylphenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2-Nitrobenzenamine	54.1	ug/kg		U	54.1	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	2-Nitrophenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	3,3'-Dichlorobenzidine	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	3-Nitrobenzenamine	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	4,4'-DDD	0.133	ug/kg		U	0.133	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	4,4'-DDE	0.133	ug/kg		U	0.133	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	4,4'-DDT	0.133	ug/kg		U	0.133	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	4-Aminobiphenyl	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	4-Bromophenyl phenyl ether	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	4-Chloro-3-methylphenol	65.6	ug/kg		U	65.6	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	4-Chlorobenzenamine	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	4-Chlorophenyl phenyl ether	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	4-Methyl-2-pentanone	4.4	ug/kg		U	4.4	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	4-Nitrobenzenamine	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	4-Nitrophenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Acenaphthene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Acenaphthylene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Acetone	5.4	ug/kg		U	5.4	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Acetonitrile	20	ug/kg		U	20	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Acetophenone	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Acrylonitrile	10	ug/kg		U	10	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Aldrin	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	alpha-BHC	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	alpha-Chlordane	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Aluminum	14000	mg/kg			1.4	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Americium-241	0.00528	pCi/g	0.0114	U	0.0194	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Anthracene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Antimony	0.36	mg/kg			0.025	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Arsenic	19	mg/kg			0.046	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Barium	60	mg/kg			0.065	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Benz(a)anthracene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Benzene	0.47	ug/kg		U	0.47	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Benzenemethanol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Benzo(a)pyrene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Benzo(b)fluoranthene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Benzo(ghi)perylene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Benzo(k)fluoranthene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Benzoic acid	82	ug/kg		U	82	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Beryllium	1.2	mg/kg			0.021	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	beta-BHC	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Bis(2-chloroethoxy)methane	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Bis(2-chloroethyl) ether	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	bis(2-Chloroisopropyl)ether	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Bis(2-ethylhexyl)phthalate	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Bromoform	0.23	ug/kg		U	0.23	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Bromomethane	0.5	ug/kg		U	0.5	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Butyl benzyl phthalate	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Cadmium	0.15	mg/kg			0.0086	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Calcium	1200	mg/kg			13	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Carbon disulfide	0.42	ug/kg		U	0.42	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Carbon tetrachloride	0.63	ug/kg		U	0.63	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Chlordane	0.664	ug/kg		U	0.664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Chlorobenzene	0.54	ug/kg		U	0.54	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Chloroethane	0.9	ug/kg		U	0.9	12	14	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-01-14.0	VOA	Chloroform	0.29	ug/kg		U	0.29	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Chloromethane	0.78	ug/kg		U	0.78	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Chromium	21	mg/kg			0.07	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-05-14.0	WETCHEM	Chromium, hexavalent	12	mg/kg		B	5	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Chromium, trivalent	21	mg/kg			20	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Chrysene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	cis-1,2-Dichloroethene	0.56	ug/kg		U	0.56	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Cobalt	17	mg/kg			0.0061	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Copper	26	mg/kg			0.065	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-06-14.0	WETCHEM	Cyanide	0.11	mg/kg		U	0.11	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	HERB	Dalapon	3.98	ug/kg		U	3.98	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	delta-BHC	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Dibenz(a,h)anthracene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Dibenzofuran	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Dibromochloromethane	0.57	ug/kg		U	0.57	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	HERB	Dicamba	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Dichlorodifluoromethane	0.52	ug/kg		U	0.52	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Dieldrin	0.133	ug/kg		U	0.133	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Diethyl phthalate	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Dimethyl phthalate	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Di-n-butyl phthalate	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Di-n-octylphthalate	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Diphenylamine	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Endosulfan I	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Endosulfan II	0.133	ug/kg		U	0.133	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Endosulfan sulfate	0.133	ug/kg		U	0.133	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Endrin	0.133	ug/kg		U	0.133	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Endrin aldehyde	0.133	ug/kg		U	0.133	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Endrin ketone	0.133	ug/kg		U	0.133	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Ethyl cyanide	7.5	ug/kg		U	7.5	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Ethylbenzene	0.68	ug/kg		U	0.68	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Fluoranthene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Fluorene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-05-14.0	ANION	Fluoride	2.7	mg/kg		B	0.81	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	gamma-Chlordane	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Heptachlor	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Heptachlor epoxide	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Hexachlorobenzene	0.133	ug/kg		U	0.133	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Hexachlorobutadiene	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Hexachlorocyclopentadiene	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Hexachloroethane	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Indeno(1,2,3-cd)pyrene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Iron	29000	mg/kg			3.5	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Isobutanol	28	ug/kg		U	28	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Isophorone	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Kepone	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Lead	19	mg/kg			0.017	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Lindane	0.0664	ug/kg		U	0.0664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Lithium	55	mg/kg			0.27	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	M + P Xylene	1	ug/kg		U	1	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	m+p Methylphenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Magnesium	3400	mg/kg			3.4	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Manganese	520	mg/kg			0.03	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	HERB	MCPA	45.8	ug/kg		U	45.8	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	HERB	MCPP	39.8	ug/kg		U	39.8	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Mercury	0.023	mg/kg			0.0054	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Methoxychlor	0.664	ug/kg		U	0.664	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Methylene chloride	1.6	ug/kg		U	1.6	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	WETCHEM	Moisture	9.13	%				12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Naphthalene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Neptunium-237	0.0112	pCi/g	0.0135	U	0.0215	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Nickel	39	mg/kg			0.023	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Nitrobenzene	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	N-Nitrosodimethylamine	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	N-Nitroso-di-n-propylamine	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	N-Nitrosomorpholine	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	O,O,O-Triethylphosphorothioate	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0639	ug/kg		J	0.488	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-07-14.0	DI/FURA	Octachlorodibenzofuran	0.488	ug/kg		U	0.488	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	PCB-1016	1.11	ug/kg		U	1.11	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	PCB-1221	1.11	ug/kg		U	1.11	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	PCB-1232	1.11	ug/kg		U	1.11	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	PCB-1242	1.11	ug/kg		U	1.11	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	PCB-1248	1.11	ug/kg		U	1.11	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	PCB-1254	1.11	ug/kg		U	1.11	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	PCB-1260	1.11	ug/kg		U	1.11	12	16	SOIL	REG	SPS		9/6/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-02-14.0	PPCB	PCB-1268	1.11	ug/kg		U	1.11	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Phenanthrene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Phenol	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Plutonium-238	0	pCi/g	0.00512	U	0.00554	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Plutonium-239/240	0.0111	pCi/g	0.0125	U	0.0177	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Polychlorinated biphenyl	1.11	ug/kg		U	1.11	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Potassium	2400	mg/kg			37	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Pyrene	4.92	ug/kg		U	4.92	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	SVOA	Pyridine	49.2	ug/kg		U	49.2	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Selenium	0.2	mg/kg		B	0.12	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Silver	0.024	mg/kg		B	0.017	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	HERB	Silvex	0.331	ug/kg		U	0.331	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Sodium	160	mg/kg		B	54	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Strontium	23	mg/kg			0.033	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Styrene	0.63	ug/kg		U	0.63	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Technetium-99	-0.0627	pCi/g	0.234	U	0.405	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Tetrachloroethene	0.59	ug/kg		U	0.59	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Thallium	0.15	mg/kg		B	0.0032	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Thorium-228	1.64	pCi/g	0.186		0.114	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Thorium-230	1.12	pCi/g	0.15		0.0782	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Thorium-232	1.42	pCi/g	0.166		0.0606	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Tin	1.1	mg/kg		B	0.83	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Titanium	26	mg/kg			0.13	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Toluene	0.7	ug/kg		U	0.7	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Total Xylene	0.61	ug/kg		U	0.61	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-02-14.0	PPCB	Toxaphene	2.21	ug/kg		U	2.21	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	trans-1,2-Dichloroethene	0.39	ug/kg		U	0.39	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Uranium	0.76	mg/kg			0.0014	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Uranium-233/234	0.839	pCi/g	0.145		0.1	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Uranium-235/236	0.0279	pCi/g	0.0511	U	0.0858	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-04-14.0	RADS	Uranium-238	1.09	pCi/g	0.157		0.0624	12	16	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Vanadium	36	mg/kg			0.035	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-14.0	VOA	Vinyl chloride	1.4	ug/kg		U	1.4	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-03-14.0	METAL	Zinc	86	mg/kg			0.29	12	14	SOIL	REG	SPS		9/6/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.43	ug/kg		U	0.43	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.219	ug/kg		U	0.219	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.219	ug/kg		U	0.219	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.219	ug/kg		U	0.219	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.219	ug/kg		U	0.219	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.219	ug/kg		U	0.219	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.219	ug/kg		U	0.219	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.219	ug/kg		U	0.219	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.219	ug/kg		U	0.219	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.219	ug/kg		U	0.219	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0877	ug/kg		U	0.0877	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0877	ug/kg		U	0.0877	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	1,2,4-Trichlorobenzene	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,2-Dibromo-3-chloropropane	0.58	ug/kg		U	0.58	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	1,2-Dichlorobenzene	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,2-Dichloroethene	0.38	ug/kg		U	0.38	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	1,3-Dichlorobenzene	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	1,4-Dichlorobenzene	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	VOA	1,4-Dioxane	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.219	ug/kg		U	0.219	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0877	ug/kg		U	0.0877	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.0877	ug/kg		U	0.0877	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0877	ug/kg		U	0.0877	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	HERB	2,4,5-T	0.331	ug/kg		U	0.331	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2,4,5-Trichlorophenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2,4,6-Trichlorophenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	HERB	2,4-D	0.331	ug/kg		U	0.331	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	HERB	2,4-DB	0.331	ug/kg		U	0.331	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	2,4'-DDD	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	2,4'-DDE	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	2,4'-DDT	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-02-CU01	SVOA	2,4-Dichlorophenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2,4-Dimethylphenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2,4-Dinitrophenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2,4-Dinitrotoluene	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2,6-Dinitrotoluene	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	2-Butanone	1.8	ug/kg		U	1.8	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2-Chloronaphthalene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2-Chlorophenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	2-Hexanone	4.7	ug/kg		U	4.7	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2-Methyl-4,6-dinitrophenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2-Methylnaphthalene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2-Methylphenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2-Nitrobenzenamine	54.9	ug/kg		U	54.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	2-Nitrophenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	3,3'-Dichlorobenzidine	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	3-Nitrobenzenamine	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	4,4'-DDD	0.129	ug/kg		U	0.129	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	4,4'-DDE	0.129	ug/kg		U	0.129	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	4,4'-DDT	0.129	ug/kg		U	0.129	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	4-Aminobiphenyl	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	4-Bromophenyl phenyl ether	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	4-Chloro-3-methylphenol	66.5	ug/kg		U	66.5	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	4-Chlorobenzenamine	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	4-Chlorophenyl phenyl ether	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	4-Nitrobenzenamine	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	4-Nitrophenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Acenaphthene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Acenaphthylene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Acetone	5.2	ug/kg		U	5.2	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Acetonitrile	19	ug/kg		U	19	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Acetophenone	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Acrylonitrile	9.7	ug/kg		U	9.7	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Aldrin	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	alpha-BHC	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	alpha-Chlordane	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Aluminum	12000	mg/kg			1.3	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Americium-241	-0.00247	pCi/g	0.0108	U	0.0236	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Anthracene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Antimony	0.32	mg/kg			0.027	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Arsenic	27	mg/kg			0.046	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Barium	47	mg/kg			0.065	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Benz(a)anthracene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Benzene	0.45	ug/kg		U	0.45	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Benzenemethanol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Benzo(a)pyrene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Benzo(b)fluoranthene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Benzo(ghi)perylene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Benzo(k)fluoranthene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Benzoic acid	83.1	ug/kg		U	83.1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Beryllium	1.1	mg/kg			0.021	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	beta-BHC	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Bis(2-chloroethoxy)methane	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Bis(2-chloroethyl) ether	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	bis(2-Chloroisopropyl)ether	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Bis(2-ethylhexyl)phthalate	103	ug/kg		J	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Bromoform	0.22	ug/kg		U	0.22	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Bromomethane	0.48	ug/kg		U	0.48	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Butyl benzyl phthalate	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Cadmium	0.17	mg/kg			0.0086	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Calcium	1200	mg/kg			12	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Chlordane	0.646	ug/kg		U	0.646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Chloroethane	0.86	ug/kg		U	0.86	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Chloroform	0.28	ug/kg		U	0.28	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Chloromethane	0.74	ug/kg		U	0.74	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Chromium	21	mg/kg			0.07	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-05-CU01	WETCHEM	Chromium, hexavalent	1.8	mg/kg		B	0.5	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Chromium, trivalent	19	mg/kg			2	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Chrysene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Cobalt	19	mg/kg			0.0061	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Copper	25	mg/kg			0.065	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-06-CU01	WETCHEM	Cyanide	0.11	mg/kg		U	0.11	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	HERB	Dalapon	3.99	ug/kg		U	3.99	16.8	17.8	SOLID	REG	GRA		9/7/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-02-CU01	PPCB	delta-BHC	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Dibenz(a,h)anthracene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Dibenzofuran	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	HERB	Dicamba	0.331	ug/kg		U	0.331	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	HERB	Dichloroprop	0.331	ug/kg		U	0.331	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Dieldrin	0.129	ug/kg		U	0.129	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Diethyl phthalate	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Dimethyl phthalate	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Di-n-butyl phthalate	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Di-n-octylphthalate	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	HERB	Dinoseb	0.331	ug/kg		U	0.331	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Diphenylamine	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Endosulfan I	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Endosulfan II	0.129	ug/kg		U	0.129	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Endosulfan sulfate	0.129	ug/kg		U	0.129	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Endrin	0.129	ug/kg		U	0.129	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Endrin aldehyde	0.129	ug/kg		U	0.129	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Endrin ketone	0.129	ug/kg		U	0.129	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Ethyl cyanide	7.2	ug/kg		U	7.2	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Fluoranthene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Fluorene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-05-CU01	ANION	Fluoride	1.8	mg/kg		B	0.8	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	gamma-Chlordane	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Heptachlor	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Heptachlor epoxide	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Hexachlorobenzene	0.129	ug/kg		U	0.129	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Hexachlorobutadiene	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Hexachlorocyclopentadiene	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Hexachloroethane	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Indeno(1,2,3-cd)pyrene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Iron	38000	mg/kg			3.3	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Isobutanol	27	ug/kg		U	27	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Isophorone	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Kepone	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Lead	18	mg/kg			0.017	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Lindane	0.0646	ug/kg		U	0.0646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Lithium	45	mg/kg			0.26	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	M + P Xylene	1	ug/kg		U	1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	m+p Methylphenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Magnesium	3600	mg/kg			3.2	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Manganese	280	mg/kg			0.03	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	HERB	MCPA	45.9	ug/kg		U	45.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	HERB	MCPP	39.9	ug/kg		U	39.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Mercury	0.019	mg/kg			0.0056	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Methoxychlor	0.646	ug/kg		U	0.646	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Methylene chloride	2.3	ug/kg		BJ	1.5	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	WETCHEM	Moisture	10.1	%				16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Naphthalene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Neptunium-237	0.00498	pCi/g	0.0122	U	0.0195	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Nickel	36	mg/kg			0.023	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Nitrobenzene	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	N-Nitrosodimethylamine	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	N-Nitroso-di-n-propylamine	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	N-Nitrosomorpholine	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	O,O,O-Triethylphosphorothioate	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.439	ug/kg		U	0.439	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU01	DI/FURA	Octachlorodibenzofuran	0.439	ug/kg		U	0.439	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	PCB-1016	1.1	ug/kg		U	1.1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	PCB-1221	1.1	ug/kg		U	1.1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	PCB-1232	1.1	ug/kg		U	1.1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	PCB-1242	1.1	ug/kg		U	1.1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	PCB-1248	1.1	ug/kg		U	1.1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	PCB-1254	1.1	ug/kg		U	1.1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	PCB-1260	1.1	ug/kg		U	1.1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	PCB-1268	1.1	ug/kg		U	1.1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Phenanthrene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Phenol	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Plutonium-238	-0.00238	pCi/g	0.00572	U	0.0132	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Plutonium-239/240	9.93E-10	pCi/g	0.00809	U	0.016	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Polychlorinated biphenyl	1.1	ug/kg		U	1.1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Potassium	2000	mg/kg			36	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Pyrene	4.99	ug/kg		U	4.99	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	SVOA	Pyridine	49.9	ug/kg		U	49.9	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Selenium	0.77	mg/kg			0.12	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Silver	0.031	mg/kg		B	0.019	16.8	17.8	SOLID	REG	GRA		9/7/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-02-CU01	HERB	Silvex	0.331	ug/kg		U	0.331	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Sodium	120	mg/kg		B	51	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Strontium	18	mg/kg			0.031	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Styrene	0.61	ug/kg		U	0.61	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Technetium-99	-0.126	pCi/g	0.161	U	0.282	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Thallium	0.14	mg/kg			0.0032	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Thorium-228	1.57	pCi/g	0.191		0.112	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Thorium-230	0.802	pCi/g	0.138		0.0941	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Thorium-232	1.34	pCi/g	0.168		0.0254	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Tin	0.83	mg/kg		B	0.79	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Titanium	26	mg/kg			0.12	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Toluene	0.67	ug/kg		U	0.67	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Total Xylene	0.59	ug/kg		U	0.59	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU01	PPCB	Toxaphene	2.15	ug/kg		U	2.15	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Trichloroethene	0.22	ug/kg		U	0.22	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Trichlorofluoromethane	1	ug/kg		U	1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Uranium	0.67	mg/kg			0.0014	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Uranium-233/234	0.863	pCi/g	0.151		0.0955	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Uranium-235/236	0.0708	pCi/g	0.0519		0.0508	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU01	RADS	Uranium-238	1	pCi/g	0.158		0.069	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Vanadium	38	mg/kg			0.035	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Vinyl acetate	1	ug/kg		U	1	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU01	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU01	METAL	Zinc	72	mg/kg			0.29	16.8	17.8	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/kg		U	0.44	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.222	ug/kg		U	0.222	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.222	ug/kg		U	0.222	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.222	ug/kg		U	0.222	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.222	ug/kg		U	0.222	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.222	ug/kg		U	0.222	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.222	ug/kg		U	0.222	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.222	ug/kg		U	0.222	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.222	ug/kg		U	0.222	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.222	ug/kg		U	0.222	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.089	ug/kg		U	0.089	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.089	ug/kg		U	0.089	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,2,3-Trichloropropane	0.79	ug/kg		U	0.79	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	1,2,4-Trichlorobenzene	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,2-Dibromo-3-chloropropane	0.58	ug/kg		U	0.58	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	1,2-Dichlorobenzene	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,2-Dichloroethene	0.38	ug/kg		U	0.38	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	1,3-Dichlorobenzene	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	1,4-Dichlorobenzene	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	VOA	1,4-Dioxane	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.222	ug/kg		U	0.222	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.089	ug/kg		U	0.089	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.089	ug/kg		U	0.089	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.089	ug/kg		U	0.089	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	HERB	2,4,5-T	0.331	ug/kg		U	0.331	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2,4,5-Trichlorophenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2,4,6-Trichlorophenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	HERB	2,4-D	0.331	ug/kg		U	0.331	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	HERB	2,4-DB	0.331	ug/kg		U	0.331	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	2,4'-DDD	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	2,4'-DDE	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	2,4'-DDT	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2,4-Dichlorophenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2,4-Dimethylphenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2,4-Dinitrophenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2,4-Dinitrotoluene	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2,6-Dinitrotoluene	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	2-Butanone	1.8	ug/kg		U	1.8	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2-Chloronaphthalene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2-Chlorophenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	2-Hexanone	4.7	ug/kg		U	4.7	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2-Methyl-4,6-dinitrophenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2-Methylnaphthalene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2-Methylphenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-02-CU10	SVOA	2-Nitrobenzenamine	54.9	ug/kg		U	54.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	2-Nitrophenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	3,3'-Dichlorobenzidine	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	3-Nitrobenzenamine	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	4,4'-DDD	0.132	ug/kg		U	0.132	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	4,4'-DDE	0.132	ug/kg		U	0.132	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	4,4'-DDT	0.132	ug/kg		U	0.132	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	4-Aminobiphenyl	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	4-Bromophenyl phenyl ether	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	4-Chloro-3-methylphenol	66.6	ug/kg		U	66.6	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	4-Chlorobenzenamine	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	4-Chlorophenyl phenyl ether	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	4-Nitrobenzenamine	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	4-Nitrophenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Acenaphthene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Acenaphthylene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Acetone	5.2	ug/kg		U	5.2	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Acetonitrile	19	ug/kg		U	19	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Acetophenone	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Acrylonitrile	9.7	ug/kg		U	9.7	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Aldrin	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	alpha-BHC	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	alpha-Chlordane	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Aluminum	12000	mg/kg			1.4	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Americium-241	0.00694	pCi/g	0.012	U	0.0177	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Anthracene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Antimony	0.35	mg/kg			0.026	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Arsenic	22	mg/kg			0.042	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Barium	42	mg/kg			0.059	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Benz(a)anthracene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Benzene	0.46	ug/kg		U	0.46	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Benzenemethanol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Benzo(a)pyrene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Benzo(b)fluoranthene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Benzo(ghi)perylene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Benzo(k)fluoranthene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Benzoic acid	83.2	ug/kg		U	83.2	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Beryllium	0.95	mg/kg			0.019	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	beta-BHC	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Bis(2-chloroethoxy)methane	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Bis(2-chloroethyl) ether	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	bis(2-Chloroisopropyl)ether	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Bis(2-ethylhexyl)phthalate	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Bromoform	0.22	ug/kg		U	0.22	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Bromomethane	0.49	ug/kg		U	0.49	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Butyl benzyl phthalate	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Cadmium	0.18	mg/kg			0.0078	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Calcium	890	mg/kg			13	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Chlordane	0.659	ug/kg		U	0.659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Chloroethane	0.86	ug/kg		U	0.86	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Chloroform	0.28	ug/kg		U	0.28	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Chloromethane	0.75	ug/kg		U	0.75	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Chromium	21	mg/kg			0.063	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-05-CU10	WETCHEM	Chromium, hexavalent	0.77	mg/kg		B	0.51	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Chromium, trivalent	20	mg/kg			2	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Chrysene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Cobalt	24	mg/kg			0.0055	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Copper	23	mg/kg			0.059	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-06-CU10	WETCHEM	Cyanide	0.11	mg/kg		U	0.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	HERB	Dalapon	3.99	ug/kg		U	3.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	delta-BHC	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Dibenz(a,h)anthracene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Dibenzofuran	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	HERB	Dicamba	0.331	ug/kg		U	0.331	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	HERB	Dichloroprop	0.331	ug/kg		U	0.331	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Dieldrin	0.132	ug/kg		U	0.132	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Diethyl phthalate	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Dimethyl phthalate	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Di-n-butyl phthalate	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Di-n-octylphthalate	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-02-CU10	HERB	Dinoseb	0.331	ug/kg		U	0.331	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Diphenylamine	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Endosulfan I	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Endosulfan II	0.132	ug/kg		U	0.132	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Endosulfan sulfate	0.132	ug/kg		U	0.132	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Endrin	0.132	ug/kg		U	0.132	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Endrin aldehyde	0.132	ug/kg		U	0.132	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Endrin ketone	0.132	ug/kg		U	0.132	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Ethyl cyanide	7.3	ug/kg		U	7.3	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Fluoranthene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Fluorene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-05-CU10	ANION	Fluoride	1.2	mg/kg		B	0.78	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	gamma-Chlordane	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Heptachlor	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Heptachlor epoxide	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Hexachlorobenzene	0.132	ug/kg		U	0.132	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Hexachlorobutadiene	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Hexachlorocyclopentadiene	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Hexachloroethane	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Indeno(1,2,3-cd)pyrene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Iron	23000	mg/kg			3.4	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Isobutanol	27	ug/kg		U	27	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Isophorone	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Kepone	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Lead	17	mg/kg			0.015	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Lindane	0.0659	ug/kg		U	0.0659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Lithium	49	mg/kg			0.27	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	M + P Xylene	1	ug/kg		U	1	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	m+p Methylphenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Magnesium	3400	mg/kg			3.3	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Manganese	230	mg/kg			0.028	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	HERB	MCPA	45.9	ug/kg		U	45.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	HERB	MCPP	39.9	ug/kg		U	39.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Mercury	0.016	mg/kg		B	0.0057	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Methoxychlor	0.659	ug/kg		U	0.659	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Methylene chloride	2.2	ug/kg		BJ	1.6	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	WETCHEM	Moisture	9.89	%				26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Naphthalene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Neptunium-237	0.00155	pCi/g	0.015	U	0.0306	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Nickel	31	mg/kg			0.021	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Nitrobenzene	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	N-Nitrosodimethylamine	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	N-Nitroso-di-n-propylamine	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	N-Nitrosomorpholine	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	O,O,O-Triethylphosphorothioate	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0113	ug/kg		J	0.445	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-07-CU10	DI/FURA	Octachlorodibenzofuran	0.445	ug/kg		U	0.445	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	PCB-1016	1.11	ug/kg		U	1.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	PCB-1221	1.11	ug/kg		U	1.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	PCB-1232	1.11	ug/kg		U	1.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	PCB-1242	1.11	ug/kg		U	1.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	PCB-1248	1.11	ug/kg		U	1.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	PCB-1254	1.11	ug/kg		U	1.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	PCB-1260	1.11	ug/kg		U	1.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	PCB-1268	1.11	ug/kg		U	1.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Phenanthrene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Phenol	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Plutonium-238	0.00141	pCi/g	0.00828	U	0.0156	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Plutonium-239/240	9.39E-10	pCi/g	0.00873	U	0.0173	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Polychlorinated biphenyl	1.11	ug/kg		U	1.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Potassium	2300	mg/kg			37	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Pyrene	4.99	ug/kg		U	4.99	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	SVOA	Pyridine	49.9	ug/kg		U	49.9	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Selenium	0.8	mg/kg			0.11	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Silver	0.03	mg/kg		B	0.018	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	HERB	Silvex	0.331	ug/kg		U	0.331	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Sodium	130	mg/kg		B	53	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Strontium	20	mg/kg			0.032	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Styrene	0.61	ug/kg		U	0.61	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Technetium-99	-0.203	pCi/g	0.155	U	0.275	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Thallium	0.14	mg/kg			0.0029	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Thorium-228	1.54	pCi/g	0.182		0.0812	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Thorium-230	0.857	pCi/g	0.139		0.0874	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Thorium-232	1.44	pCi/g	0.171		0.0246	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Tin	0.82	mg/kg		U	0.82	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Titanium	39	mg/kg			0.13	26	27	SOLID	REG	GRA		9/7/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-63	WDSB63-01-CU10	VOA	Toluene	0.67	ug/kg		U	0.67	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Total Xylene	0.59	ug/kg		U	0.59	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-02-CU10	PPCB	Toxaphene	2.2	ug/kg		U	2.2	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Trichloroethene	0.22	ug/kg		U	0.22	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Trichlorofluoromethane	1	ug/kg		U	1	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Uranium	0.6	mg/kg			0.0013	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Uranium-233/234	0.794	pCi/g	0.11		0.0604	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Uranium-235/236	0.0431	pCi/g	0.0325		0.0369	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-04-CU10	RADS	Uranium-238	0.831	pCi/g	0.109		0.0341	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Vanadium	31	mg/kg			0.032	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Vinyl acetate	1	ug/kg		U	1	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-01-CU10	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-63	WDSB63-03-CU10	METAL	Zinc	66	mg/kg			0.26	26	27	SOLID	REG	GRA		9/7/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,1,1,2-Tetrachloroethane	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,1,1-Trichloroethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,1,2,2-Tetrachloroethane	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.43	ug/kg		U	0.43	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,1,2-Trichloroethane	0.85	ug/kg		U	0.85	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,1-Dichloroethane	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,1-Dichloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.224	ug/kg		U	0.224	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0486	ug/kg		J	0.224	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.224	ug/kg		U	0.224	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.224	ug/kg		U	0.224	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.224	ug/kg		U	0.224	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.224	ug/kg		U	0.224	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.224	ug/kg		U	0.224	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.224	ug/kg		U	0.224	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.224	ug/kg		U	0.224	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0896	ug/kg		U	0.0896	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0896	ug/kg		U	0.0896	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,2,3-Trichloropropane	0.78	ug/kg		U	0.78	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	1,2,4-Trichlorobenzene	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,2-Dibromo-3-chloropropane	0.58	ug/kg		U	0.58	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	1,2-Dichlorobenzene	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,2-Dichloroethane	0.68	ug/kg		U	0.68	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,2-Dichloropropane	0.53	ug/kg		U	0.53	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	1,2-Dimethylbenzene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	1,3-Dichlorobenzene	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	1,4-Dichlorobenzene	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	VOA	1,4-Dioxane	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.224	ug/kg		U	0.224	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0896	ug/kg		U	0.0896	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.0896	ug/kg		U	0.0896	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0896	ug/kg		U	0.0896	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2,4,5-Trichlorophenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2,4,6-Trichlorophenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	HERB	2,4-D	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	2,4'-DDD	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	2,4'-DDE	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	2,4'-DDT	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2,4-Dichlorophenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2,4-Dimethylphenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2,4-Dinitrophenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2,4-Dinitrotoluene	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2,6-Dinitrotoluene	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2-Chloronaphthalene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2-Chlorophenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	2-Hexanone	4.7	ug/kg		U	4.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2-Methyl-4,6-dinitrophenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2-Methylnaphthalene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2-Methylphenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2-Nitrobenzenamine	53.6	ug/kg		U	53.6	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	2-Nitrophenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	3,3'-Dichlorobenzidine	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	3-Nitrobenzenamine	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	4,4'-DDD	0.131	ug/kg		U	0.131	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	4,4'-DDE	0.131	ug/kg		U	0.131	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	4,4'-DDT	0.131	ug/kg		U	0.131	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	4-Aminobiphenyl	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	4-Bromophenyl phenyl ether	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	4-Chloro-3-methylphenol	64.9	ug/kg		U	64.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	4-Chlorobenzenamine	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	4-Chlorophenyl phenyl ether	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-68	WDSB68-01-1.0	VOA	4-Methyl-2-pentanone	4.2	ug/kg		U	4.2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	4-Nitrobenzenamine	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	4-Nitrophenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Acenaphthene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Acenaphthylene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Acetone	5.2	ug/kg		U	5.2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Acetonitrile	19	ug/kg		U	19	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Acetophenone	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Acrylonitrile	9.7	ug/kg		U	9.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Aldrin	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	alpha-BHC	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	alpha-Chlordane	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Aluminum	11000	mg/kg			1.3	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Americium-241	-0.00692	pCi/g	0.0101	U	0.0255	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Anthracene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Antimony	0.42	mg/kg			0.025	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Arsenic	9	mg/kg			0.046	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Barium	43	mg/kg			0.064	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Benz(a)anthracene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Benzene	0.45	ug/kg		U	0.45	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Benzenemethanol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Benzo(a)pyrene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Benzo(b)fluoranthene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Benzo(ghi)perylene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Benzo(k)fluoranthene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Benzoic acid	81.2	ug/kg		U	81.2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Beryllium	1.1	mg/kg			0.02	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	beta-BHC	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Bis(2-chloroethoxy)methane	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Bis(2-chloroethyl) ether	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	bis(2-Chloroisopropyl)ether	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Bis(2-ethylhexyl)phthalate	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Bromodichloromethane	0.21	ug/kg		U	0.21	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Bromoform	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Bromomethane	0.48	ug/kg		U	0.48	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Butyl benzyl phthalate	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Cadmium	0.18	mg/kg			0.0085	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Calcium	1200	mg/kg			12	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Carbon tetrachloride	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Chlordane	0.656	ug/kg		U	0.656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Chlorobenzene	0.52	ug/kg		U	0.52	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Chloroethane	0.86	ug/kg		U	0.86	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Chloroform	0.28	ug/kg		U	0.28	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Chloromethane	0.74	ug/kg		U	0.74	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Chromium	17	mg/kg			0.068	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-05-1.0	WETCHEM	Chromium, hexavalent	1.2	mg/kg		B	0.49	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Chromium, trivalent	16	mg/kg			2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Chrysene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	cis-1,2-Dichloroethene	0.54	ug/kg		U	0.54	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	cis-1,3-Dichloropropene	1.2	ug/kg		U	1.2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Cobalt	19	mg/kg			0.006	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Copper	22	mg/kg			0.064	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-06-1.0	WETCHEM	Cyanide	0.1	mg/kg		U	0.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	HERB	Dalapon	3.99	ug/kg		U	3.99	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	delta-BHC	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Dibenz(a,h)anthracene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Dibenzofuran	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Dibromochloromethane	0.55	ug/kg		U	0.55	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	HERB	Dicamba	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Dichlorodifluoromethane	0.5	ug/kg		U	0.5	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Dieldrin	0.131	ug/kg		U	0.131	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Diethyl phthalate	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Dimethyl phthalate	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Di-n-butyl phthalate	62.2	ug/kg		J	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Di-n-octylphthalate	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Diphenylamine	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Endosulfan I	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Endosulfan II	0.131	ug/kg		U	0.131	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Endosulfan sulfate	0.131	ug/kg		U	0.131	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Endrin	0.131	ug/kg		U	0.131	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Endrin aldehyde	0.131	ug/kg		U	0.131	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Endrin ketone	0.131	ug/kg		U	0.131	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Ethyl cyanide	7.2	ug/kg		U	7.2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Ethylbenzene	0.65	ug/kg		U	0.65	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Fluoranthene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Fluorene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-68	WDSB68-05-1.0	ANION	Fluoride	1.2	mg/kg		B	0.8	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	gamma-Chlordane	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Heptachlor	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Heptachlor epoxide	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Hexachlorobenzene	0.131	ug/kg		U	0.131	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Hexachlorobutadiene	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Hexachlorocyclopentadiene	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Hexachloroethane	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Indeno(1,2,3-cd)pyrene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Iron	28000	mg/kg			3.2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Isobutanol	27	ug/kg		U	27	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Isophorone	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Kepone	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Lead	17	mg/kg			0.016	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Lindane	0.0656	ug/kg		U	0.0656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Lithium	35	mg/kg			0.26	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	M + P Xylene	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	m+p Methylphenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Magnesium	2500	mg/kg			3.2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Manganese	220	mg/kg			0.03	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	HERB	MCPA	45.9	ug/kg		U	45.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	HERB	MCPP	39.9	ug/kg		U	39.9	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Mercury	0.012	mg/kg		B	0.0063	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Methoxychlor	0.656	ug/kg		U	0.656	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Methylene chloride	2.3	ug/kg		BJ	1.5	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	WETCHEM	Moisture	9.64	%				0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Naphthalene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Neptunium-237	-0.00175	pCi/g	0.00836	U	0.0204	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Nickel	33	mg/kg			0.023	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Nitrobenzene	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	N-Nitrosodimethylamine	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	N-Nitroso-di-n-propylamine	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	N-Nitrosomorpholine	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	O,O,O-Triethylphosphorothioate	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	5.53	ug/kg			0.448	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-1.0	DI/FURA	Octachlorodibenzofuran	0.448	ug/kg		U	0.448	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	PCB-1016	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	PCB-1221	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	PCB-1232	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	PCB-1242	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	PCB-1248	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	PCB-1254	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	PCB-1260	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	PCB-1268	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Pentachlorophenol	0.2	ug/kg		U	0.2	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Phenanthrene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Phenol	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Plutonium-238	-0.00209	pCi/g	0.0071	U	0.016	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Plutonium-239/240	-0.00209	pCi/g	0.00916	U	0.02	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Polychlorinated biphenyl	1.1	ug/kg		U	1.1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Potassium	1400	mg/kg			35	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Pyrene	4.87	ug/kg		U	4.87	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	SVOA	Pyridine	48.7	ug/kg		U	48.7	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Selenium	1.5	mg/kg			0.12	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Silver	0.018	mg/kg		U	0.018	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	HERB	Silvex	0.331	ug/kg		U	0.331	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Sodium	110	mg/kg		B	50	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Strontium	14	mg/kg			0.031	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Styrene	0.61	ug/kg		U	0.61	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Technetium-99	-0.117	pCi/g	0.163	U	0.285	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Tetrachloroethene	0.57	ug/kg		U	0.57	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Thallium	0.16	mg/kg			0.0032	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Thorium-228	1.32	pCi/g	0.168		0.0873	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Thorium-230	0.931	pCi/g	0.144		0.0958	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Thorium-232	1.37	pCi/g	0.165		0.0497	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Tin	0.78	mg/kg		U	0.78	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Titanium	36	mg/kg			0.12	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Toluene	0.67	ug/kg		U	0.67	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Total Xylene	0.59	ug/kg		U	0.59	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-1.0	PPCB	Toxaphene	2.19	ug/kg		U	2.19	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Trichloroethene	0.22	ug/kg		U	0.22	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Uranium	0.62	mg/kg			0.0014	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Uranium-233/234	0.944	pCi/g	0.132		0.0659	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Uranium-235/236	0.0993	pCi/g	0.0524		0.052	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-1.0	RADS	Uranium-238	0.901	pCi/g	0.127		0.0465	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Vanadium	24	mg/kg			0.035	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-1.0	VOA	Vinyl acetate	1	ug/kg		U	1	0	2	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-68	WDSB68-01-1.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-1.0	METAL	Zinc	88	mg/kg			0.28	0	2	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,1,1,2-Tetrachloroethane	0.55	ug/kg		U	0.55	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,1,1-Trichloroethane	0.51	ug/kg		U	0.51	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,1,2,2-Tetrachloroethane	0.6	ug/kg		U	0.6	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/kg		U	0.44	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,1,2-Trichloroethane	0.87	ug/kg		U	0.87	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,1-Dichloroethane	0.21	ug/kg		U	0.21	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,1-Dichloroethene	0.58	ug/kg		U	0.58	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.266	ug/kg		U	0.266	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.266	ug/kg		U	0.266	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.266	ug/kg		U	0.266	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.266	ug/kg		U	0.266	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.266	ug/kg		U	0.266	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.266	ug/kg		U	0.266	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.266	ug/kg		U	0.266	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.266	ug/kg		U	0.266	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.266	ug/kg		U	0.266	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.106	ug/kg		U	0.106	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.106	ug/kg		U	0.106	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,2,3-Trichloropropane	0.8	ug/kg		U	0.8	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	1,2,4-Trichlorobenzene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,2-Dibromo-3-chloropropane	0.59	ug/kg		U	0.59	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	1,2-Dichlorobenzene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,2-Dichloroethane	0.69	ug/kg		U	0.69	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,2-Dichloroethene	0.38	ug/kg		U	0.38	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,2-Dichloropropane	0.54	ug/kg		U	0.54	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	1,2-Dimethylbenzene	0.6	ug/kg		U	0.6	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	1,3-Dichlorobenzene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	1,4-Dichlorobenzene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	VOA	1,4-Dioxane	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.266	ug/kg		U	0.266	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.106	ug/kg		U	0.106	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.106	ug/kg		U	0.106	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.106	ug/kg		U	0.106	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	HERB	2,4,5-T	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2,4,5-Trichlorophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2,4,6-Trichlorophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	HERB	2,4-D	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	HERB	2,4-DB	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	2,4'-DDD	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	2,4'-DDE	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	2,4'-DDT	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2,4-Dichlorophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2,4-Dimethylphenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2,4-Dinitrophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2,4-Dinitrotoluene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2,6-Dinitrotoluene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	2-Butanone	1.8	ug/kg		U	1.8	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2-Chloronaphthalene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2-Chlorophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	2-Hexanone	4.8	ug/kg		U	4.8	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2-Methyl-4,6-dinitrophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2-Methylnaphthalene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2-Methylphenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2-Nitrobenzenamine	55	ug/kg		U	55	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	2-Nitrophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	3,3'-Dichlorobenzidine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	3-Nitrobenzenamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	4,4'-DDD	0.131	ug/kg		U	0.131	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	4,4'-DDE	0.131	ug/kg		U	0.131	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	4,4'-DDT	0.131	ug/kg		U	0.131	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	4-Aminobiphenyl	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	4-Bromophenyl phenyl ether	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	4-Chloro-3-methylphenol	66.7	ug/kg		U	66.7	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	4-Chlorobenzenamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	4-Chlorophenyl phenyl ether	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	4-Methyl-2-pentanone	4.3	ug/kg		U	4.3	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	4-Nitrobenzenamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	4-Nitrophenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Acenaphthene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Acenaphthylene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Acetone	5.3	ug/kg		U	5.3	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Acetonitrile	20	ug/kg		U	20	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Acetophenone	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Acrylonitrile	9.9	ug/kg		U	9.9	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Aldrin	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	alpha-BHC	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	alpha-Chlordane	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-68	WDSB68-03-8.0	METAL	Aluminum	11000	mg/kg			1.4	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Americium-241	0.00374	pCi/g	0.00734	U	0.00561	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Anthracene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Antimony	0.33	mg/kg			0.026	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Arsenic	2.5	mg/kg			0.049	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Barium	61	mg/kg			0.068	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Benz(a)anthracene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Benzene	0.46	ug/kg		U	0.46	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Benzenemethanol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Benzo(a)pyrene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Benzo(b)fluoranthene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Benzo(ghi)perylene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Benzo(k)fluoranthene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Benzoic acid	83.3	ug/kg		U	83.3	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Beryllium	0.85	mg/kg			0.022	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	beta-BHC	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Bis(2-chloroethoxy)methane	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Bis(2-chloroethyl) ether	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	bis(2-Chloroisopropyl)ether	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Bis(2-ethylhexyl)phthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Bromodichloromethane	0.22	ug/kg		U	0.22	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Bromoform	0.23	ug/kg		U	0.23	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Bromomethane	0.49	ug/kg		U	0.49	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Butyl benzyl phthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Cadmium	0.2	mg/kg			0.009	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Calcium	860	mg/kg			13	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Carbon disulfide	0.41	ug/kg		U	0.41	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Carbon tetrachloride	0.62	ug/kg		U	0.62	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Chlordane	0.657	ug/kg		U	0.657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Chlorobenzene	0.53	ug/kg		U	0.53	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Chloroethane	0.88	ug/kg		U	0.88	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Chloroform	0.29	ug/kg		U	0.29	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Chloromethane	0.76	ug/kg		U	0.76	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Chromium	18	mg/kg			0.073	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-05-8.0	WETCHEM	Chromium, hexavalent	0.78	mg/kg		B	0.5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Chromium, trivalent	17	mg/kg			2	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Chrysene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	cis-1,2-Dichloroethene	0.55	ug/kg		U	0.55	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	cis-1,3-Dichloropropene	1.3	ug/kg		U	1.3	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Cobalt	12	mg/kg			0.0064	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Copper	26	mg/kg			0.068	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-06-8.0	WETCHEM	Cyanide	0.41	mg/kg		B	0.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	HERB	Dalapon	3.99	ug/kg		U	3.99	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	delta-BHC	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Dibenz(a,h)anthracene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Dibenzofuran	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Dibromochloromethane	0.56	ug/kg		U	0.56	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	HERB	Dicamba	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Dichlorodifluoromethane	0.51	ug/kg		U	0.51	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	HERB	Dichloroprop	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Dieldrin	0.131	ug/kg		U	0.131	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Diethyl phthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Dimethyl phthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Di-n-butyl phthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Di-n-octylphthalate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	HERB	Dinoseb	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Diphenylamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Endosulfan I	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Endosulfan II	0.131	ug/kg		U	0.131	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Endosulfan sulfate	0.131	ug/kg		U	0.131	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Endrin	0.131	ug/kg		U	0.131	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Endrin aldehyde	0.131	ug/kg		U	0.131	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Endrin ketone	0.131	ug/kg		U	0.131	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Ethyl cyanide	7.4	ug/kg		U	7.4	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Ethylbenzene	0.66	ug/kg		U	0.66	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Fluoranthene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Fluorene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-05-8.0	ANION	Fluoride	2.7	mg/kg		B	0.81	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	gamma-Chlordane	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012

Table A.2. PORTS Soil Data

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Detect_Limit	Smp_Strt_Level	Smp_End_Level	Matrix	Smp_Type	Coll_Dev	Validation	D_Collected
WD-SB-68	WDSB68-02-8.0	PPCB	Heptachlor	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Heptachlor epoxide	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Hexachlorobenzene	0.131	ug/kg		U	0.131	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Hexachlorobutadiene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Hexachlorocyclopentadiene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Hexachloroethane	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Indeno(1,2,3-cd)pyrene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Iron	22000	mg/kg			3.5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Isobutanol	27	ug/kg		U	27	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Isophorone	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Kepone	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Lead	13	mg/kg			0.018	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Lindane	0.0657	ug/kg		U	0.0657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Lithium	48	mg/kg			0.27	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	M + P Xylene	1	ug/kg		U	1	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	m+p Methylphenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Magnesium	3000	mg/kg			3.4	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Manganese	170	mg/kg			0.032	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	HERB	MCPA	45.9	ug/kg		U	45.9	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	HERB	MCPP	39.9	ug/kg		U	39.9	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Mercury	0.0084	mg/kg		B	0.0059	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Methoxychlor	0.657	ug/kg		U	0.657	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Methylene chloride	2.3	ug/kg		BJ	1.6	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	WETCHEM	Moisture	13.4	%				6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Naphthalene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Neptunium-237	0.0114	pCi/g	0.015	U	0.0192	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Nickel	32	mg/kg			0.024	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Nitrobenzene	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	N-Nitrosodimethylamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	N-Nitroso-di-n-propylamine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	N-Nitrosomorpholine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	O,O,O-Triethylphosphorothioate	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0548	ug/kg		J	0.532	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-07-8.0	DI/FURA	Octachlorodibenzofuran	0.532	ug/kg		U	0.532	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	PCB-1016	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	PCB-1221	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	PCB-1232	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	PCB-1242	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	PCB-1248	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	PCB-1254	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	PCB-1260	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	PCB-1268	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Pentachlorophenol	0.199	ug/kg		U	0.199	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Phenanthrene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Phenol	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Plutonium-238	-0.00167	pCi/g	0.00567	U	0.0128	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Plutonium-239/240	0.00167	pCi/g	0.00731	U	0.0128	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Polychlorinated biphenyl	1.11	ug/kg		U	1.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Potassium	1700	mg/kg			37	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Pyrene	5	ug/kg		U	5	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	SVOA	Pyridine	50	ug/kg		U	50	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Selenium	1.2	mg/kg			0.13	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Silver	0.02	mg/kg		B	0.018	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	HERB	Silvex	0.331	ug/kg		U	0.331	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Sodium	180	mg/kg		B	54	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Strontium	15	mg/kg			0.033	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Styrene	0.62	ug/kg		U	0.62	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Technetium-99	-0.161	pCi/g	0.144	U	0.255	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Tetrachloroethene	0.58	ug/kg		U	0.58	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Thallium	0.12	mg/kg			0.0034	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Thorium-228	1.71	pCi/g	0.191		0.0847	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Thorium-230	0.834	pCi/g	0.141		0.11	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Thorium-232	1.44	pCi/g	0.172		0.0643	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Tin	0.83	mg/kg		U	0.83	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Titanium	31	mg/kg			0.13	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Toluene	0.68	ug/kg		U	0.68	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Total Xylene	0.6	ug/kg		U	0.6	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-02-8.0	PPCB	Toxaphene	2.19	ug/kg		U	2.19	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	trans-1,2-Dichloroethene	0.38	ug/kg		U	0.38	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Trichloroethene	0.23	ug/kg		U	0.23	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Trichlorofluoromethane	1	ug/kg		U	1	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Uranium	0.48	mg/kg			0.0015	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Uranium-233/234	0.703	pCi/g	0.101		0.0588	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Uranium-235/236	0.0528	pCi/g	0.0374		0.0477	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-04-8.0	RADS	Uranium-238	0.879	pCi/g	0.11		0.0437	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Vanadium	18	mg/kg			0.037	6	10	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Vinyl acetate	1.1	ug/kg		U	1.1	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-01-8.0	VOA	Vinyl chloride	1.3	ug/kg		U	1.3	6	8	SOIL	REG	SPS		9/8/2012
WD-SB-68	WDSB68-03-8.0	METAL	Zinc	110	mg/kg			0.3	6	10	SOIL	REG	SPS		9/8/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-01-01	ANION	Chloride	35	mg/L			=	0.25	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-01-01	ANION	Fluoride	0.53	mg/L			=	0.06	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-01-01	ANION	Nitrate	0.09	mg/L		B	J	0.042	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-04-01	ANION	Nitrate/Nitrite as Nitrogen	0.11	mg/L			U	0.019	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-01-01	ANION	Orthophosphate	0.19	mg/L		U	R	0.19	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-01-01	ANION	Sulfate	76	mg/L			=	1.2	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-05-01	METAL	Calcium	160000	ug/L			=	35	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-05-01	METAL	Magnesium	8000	ug/L			=	11	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-05-01	METAL	Potassium	26000	ug/L			=	240	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-05-01	METAL	Sodium	57000	ug/L			=	92	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-02-01	WETCHEM	Alkalinity as CO3	88	mg/L			=	1.1	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-02-01	WETCHEM	Alkalinity as HCO3	1.1	mg/L		U	U	1.1	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-03-01	WETCHEM	Ammonia	0.1	mg/L		U	U	0.1	WATER	WG	REG	BP	7/27/2011
WD-MW01B	WDMW01-01-02	ANION	Chloride	450	mg/L			XV	5.1	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-01-02	ANION	Fluoride	0.63	mg/L			XV	0.06	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-01-02	ANION	Nitrate	0.042	mg/L		JU	XV	0.042	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-01-02	ANION	Orthophosphate	0.19	mg/L		JU	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-01-02	ANION	Sulfate	24	mg/L			XV	0.23	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Aluminum	0.034	mg/L		B	XV	0.018	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Aluminum	0.18	mg/L			XV	0.018	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Antimony	0.009	mg/L		B	XV	0.0031	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Antimony	0.0083	mg/L		B	XV	0.0031	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Arsenic	0.044	mg/L			XV	0.00033	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Arsenic	0.039	mg/L			XV	0.00033	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Barium	0.095	mg/L			XV	0.00058	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Barium	0.12	mg/L			XV	0.00058	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Calcium	11	mg/L			XV	0.035	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Calcium	13	mg/L			XV	0.035	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Chromium	0.001	mg/L		B	XV	0.00066	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Copper	0.0017	mg/L		B	XV	0.0014	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Iron	0.022	mg/L		U	XV	0.022	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Iron	0.22	mg/L			XV	0.022	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Lead	0.00033	mg/L		B	XV	0.00018	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Magnesium	9	mg/L			XV	0.011	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Magnesium	13	mg/L			XV	0.011	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Manganese	0.0061	mg/L		B	XV	0.00025	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Manganese	0.012	mg/L			XV	0.00025	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Mercury	0.027	ug/L		U	XV	0.027	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Molybdenum	0.028	mg/L			XV	0.00014	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Molybdenum	0.022	mg/L			XV	0.00014	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Nickel	0.0014	mg/L		B	XV	0.0013	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Nickel	0.0024	mg/L		B	XV	0.0013	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Potassium	33	mg/L			XV	0.24	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Potassium	29	mg/L			XV	0.24	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Sodium	400	mg/L			XV	0.092	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Sodium	410	mg/L			XV	0.092	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-03-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Uranium	0.016	mg/L			XV	0.00002	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Uranium	0.013	mg/L			XV	0.00002	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Vanadium	0.0031	mg/L		B	XV	0.0011	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Vanadium	0.0046	mg/L		B	XV	0.0011	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-03-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-04-02	METAL	Zinc	0.0045	mg/L		B	XV	0.0045	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	PPCB	PCB-1221	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	PPCB	Polychlorinated biphenyl	0.099	ug/L		U	XV	0.099	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-09-02	RADS	Alpha activity	13.9	pCi/L	2.81	U	XV	11.7	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-09-02	RADS	Americium-241	0.0345	pCi/L	0.0172	U	XV	0.0696	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-09-02	RADS	Beta activity	9.55	pCi/L	2.21	U	XV	9.94	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-09-02	RADS	Neptunium-237	0.00434	pCi/L	0.00614	U	XV	0.0332	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-09-02	RADS	Plutonium-238	0	pCi/L	0.00603	U	XV	0.0326	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-09-02	RADS	Plutonium-239/240	0.0298	pCi/L	0.012	U	XV	0.0326	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-09-02	RADS	Technetium-99	-0.493	pCi/L	1.66	U	XV	5.61	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-09-02	RADS	Uranium-233/234	6.49	pCi/L	0.166		XV	0.0323	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-09-02	RADS	Uranium-235	0.13	pCi/L	0.0266	J	XV	0.0399	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-09-02	RADS	Uranium-238	3.06	pCi/L	0.114		XV	0.0322	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	1,2,4-Trichlorobenzene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	1,3-Dichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2,4,5-Trichlorophenol	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2,4,6-Trichlorophenol	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2,4-Dichlorophenol	0.71	ug/L		U	XV	0.71	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2,4-Dimethylphenol	0.65	ug/L		U	XV	0.65	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2,4-Dinitrophenol	11	ug/L		U	XV	11	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2,6-Dinitrotoluene	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2-Chloronaphthalene	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2-Chlorophenol	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.5	ug/L		U	XV	4.5	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2-Methylnaphthalene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2-Nitrobenzenamine	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	2-Nitrophenol	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	3,3'-Dichlorobenzidine	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	3-Nitrobenzenamine	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	4-Bromophenyl phenyl ether	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	4-Methylphenol	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	4-Nitrobenzenamine	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Acenaphthene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Acenaphthylene	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Anthracene	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Benz(a)anthracene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Benzo(a)pyrene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Benzo(b)fluoranthene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Benzo(ghi)perylene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Benzo(k)fluoranthene	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-05-02	SVOA	Benzoic acid	11	ug/L		U	XV	11	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Butyl benzyl phthalate	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Chrysene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Dibenz(a,h)anthracene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Dibenzofuran	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Diethyl phthalate	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Dimethyl phthalate	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Di-n-butyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Di-n-octylphthalate	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Fluoranthene	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Fluorene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Hexachlorobenzene	0.74	ug/L		U	XV	0.74	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Hexachlorobutadiene	3.7	ug/L		U	XV	3.7	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Hexachlorocyclopentadiene	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Hexachloroethane	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.72	ug/L		U	XV	0.72	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Isophorone	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Naphthalene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Nitrobenzene	0.9	ug/L		U	XV	0.9	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	N-Nitroso-di-n-propylamine	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	N-Nitrosodiphenylamine	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Pentachlorophenol	22	ug/L		U	XV	22	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Phenanthrene	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Phenol	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-05-02	SVOA	Pyrene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	1,2-Dimethylbenzene	0.33	ug/L		J	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Acetone	2.5	ug/L		J	XV	1.9	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Benzene	1.6	ug/L			XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Chloroform	0.21	ug/L		J	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	M + P Xylene	0.64	ug/L		J	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Methylene chloride	1.8	ug/L		BJ	XV	0.32	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	Toluene	1.4	ug/L			XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-01-02	WETCHEM	Alkalinity	290	mg/L			XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-01-02	WETCHEM	Alkalinity as CO3	78	mg/L			XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-01-02	WETCHEM	Alkalinity as HCO3	220	mg/L			XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-02-02	WETCHEM	Ammonium Nitrogen	2	mg/L			XV	0.1	WATER	WG	REG	BP	11/29/2011
WD-MW01B	WDMW01-01-03	ANION	Chloride	470	mg/L			XV	5.1	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-01-03	ANION	Fluoride	0.44	mg/L		B	XV	0.06	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-01-03	ANION	Nitrate	0.053	mg/L		B	XV	0.042	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-01-03	ANION	Sulfate	9.9	mg/L			XV	0.23	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Aluminum	0.023	mg/L		B	XV	0.018	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Antimony	0.0077	mg/L		B	XV	0.0031	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Antimony	0.0063	mg/L		B	XV	0.0031	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Arsenic	0.032	mg/L			XV	0.00033	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Arsenic	0.026	mg/L			XV	0.00033	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Barium	0.11	mg/L			XV	0.00058	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Barium	0.16	mg/L			XV	0.00058	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Calcium	13	mg/L			XV	0.035	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Calcium	17	mg/L			XV	0.035	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Copper	0.006	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Iron	0.034	mg/L		B	XV	0.022	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Iron	0.071	mg/L		B	XV	0.022	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Lead	0.00018	mg/L		B	XV	0.00018	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Magnesium	12	mg/L			XV	0.011	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Magnesium	18	mg/L			XV	0.011	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Manganese	0.011	mg/L			XV	0.00025	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Manganese	0.018	mg/L			XV	0.00025	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Molybdenum	0.021	mg/L			XV	0.00014	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Molybdenum	0.015	mg/L			XV	0.00014	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Nickel	0.0016	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Potassium	38	mg/L			XV	0.24	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Potassium	36	mg/L			XV	0.24	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Sodium	420	mg/L			XV	0.092	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Sodium	420	mg/L			XV	0.092	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Thallium	0.000042	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Thallium	0.00004	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Uranium	0.015	mg/L			XV	0.00002	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Uranium	0.017	mg/L			XV	0.00002	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Vanadium	0.003	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-04-03	METAL	Vanadium	0.0015	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-03-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/12/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-04-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	PPCB	PCB-1016	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	PPCB	PCB-1221	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	PPCB	PCB-1232	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	PPCB	PCB-1242	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	PPCB	PCB-1260	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	PPCB	Polychlorinated biphenyl	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-09-03	RADS	Alpha activity	16.9	pCi/L	3.05		XV	12	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-09-03	RADS	Americium-241	0.0467	pCi/L	0.0147	U	XV	0.0325	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-09-03	RADS	Beta activity	24.5	pCi/L	1.51			3.54	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-09-03	RADS	Neptunium-237	-0.00449	pCi/L	0.01	U	XV	0.0646	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-09-03	RADS	Plutonium-238	0	pCi/L	0.00733	U		0.0496	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-09-03	RADS	Plutonium-239/240	0.0466	pCi/L	0.0172	U		0.0496	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-09-03	RADS	Technetium-99	-1.39	pCi/L	1.64	U	XV	5.55	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-09-03	RADS	Uranium-233/234	12.1	pCi/L	0.231			0.0338	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-09-03	RADS	Uranium-235	0.273	pCi/L	0.0389	J		0.0417	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-09-03	RADS	Uranium-238	5.45	pCi/L	0.155			0.0337	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2,4-Dichlorophenol	0.77	ug/L		U	XV	0.77	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2,4-Dimethylphenol	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2,4-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2-Chloronaphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2-Chlorophenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U	XV	4.8	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2-Methylnaphthalene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	2-Nitrophenol	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	3-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U	XV	2.9	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	4-Methylphenol	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	4-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	4-Nitrophenol	1.5	ug/L		U	XV	1.5	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Acenaphthene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Acenaphthylene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Anthracene	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Benz(a)anthracene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Benzo(a)pyrene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Benzo(ghi)perylene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.67	ug/L		U	XV	0.67	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Chrysene	0.65	ug/L		U	XV	0.65	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	12/12/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-05-03	SVOA	Dibenzofuran	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Diethyl phthalate	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Dimethyl phthalate	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Di-n-octylphthalate	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Fluoranthene	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Fluorene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Hexachlorobenzene	0.79	ug/L		U	XV	0.79	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Hexachlorobutadiene	3.9	ug/L		U	XV	3.9	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Hexachloroethane	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U	XV	0.78	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Isophorone	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Naphthalene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Nitrobenzene	0.97	ug/L		U	XV	0.97	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Pentachlorophenol	24	ug/L		U	XV	24	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Phenanthrene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Phenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-05-03	SVOA	Pyrene	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	1,2-Dimethylbenzene	0.36	ug/L		J	XV	0.19	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Acetone	47	ug/L			XV	1.9	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Benzene	1.9	ug/L			XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	M + P Xylene	0.68	ug/L		J	XV	0.34	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Methylene chloride	1.8	ug/L		BJ	XV	0.32	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Toluene	1.7	ug/L			XV	0.17	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-01-03	WETCHEM	Alkalinity	360	mg/L			XV	1.1	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-01-03	WETCHEM	Alkalinity as CO3	50	mg/L			XV	1.1	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-01-03	WETCHEM	Alkalinity as HCO3	310	mg/L			XV	1.1	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-02-03	WETCHEM	Ammonium Nitrogen	2.4	mg/L				0.1	WATER	WG	REG	BP	12/12/2011
WD-MW01B	WDMW01-01-04	ANION	Chloride	490	mg/L				5.1	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-01-04	ANION	Fluoride	0.45	mg/L		B		0.06	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-01-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-01-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-01-04	ANION	Sulfate	7.2	mg/L				0.23	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Aluminum	0.06	mg/L		B		0.018	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Antimony	0.005	mg/L		B		0.0031	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Antimony	0.0043	mg/L		B		0.0031	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Arsenic	0.027	mg/L				0.00033	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Arsenic	0.022	mg/L				0.00033	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Barium	0.12	mg/L				0.00058	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Barium	0.16	mg/L				0.00058	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Cadmium	0.000094	mg/L		B		0.00004	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Calcium	14	mg/L				0.035	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Calcium	17	mg/L				0.035	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Cobalt	0.0041	mg/L		B		0.0012	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Copper	0.0049	mg/L		B		0.0014	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Copper	0.004	mg/L		B		0.0014	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Iron	0.026	mg/L		B		0.022	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Iron	0.074	mg/L		B		0.022	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Magnesium	13	mg/L				0.011	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Magnesium	17	mg/L				0.011	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Manganese	0.019	mg/L				0.00025	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Manganese	0.02	mg/L				0.00025	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Molybdenum	0.02	mg/L				0.00014	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Molybdenum	0.016	mg/L				0.00014	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Nickel	0.0017	mg/L		B		0.0013	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Potassium	36	mg/L				0.24	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Potassium	33	mg/L				0.24	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Sodium	400	mg/L				0.092	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Sodium	410	mg/L				0.092	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Thallium	0.000036	mg/L		B		0.000033	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Uranium	0.015	mg/L				0.00002	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Uranium	0.014	mg/L				0.00002	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Vanadium	0.0026	mg/L		B		0.0011	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Vanadium	0.0025	mg/L		B		0.0011	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-03-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-04-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-05-04	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-09-04	RADS	Alpha activity	18.5	pCi/L	5.26			10.9	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-09-04	RADS	Americium-241	0.0312	pCi/L	0.0134	U		0.0427	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-09-04	RADS	Beta activity	19.5	pCi/L	5.1			13.9	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-09-04	RADS	Neptunium-237	0	pCi/L	0.00598	U		0.0323	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-09-04	RADS	Plutonium-238	-0.00662	pCi/L	-0.0115	U		0.0815	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-09-04	RADS	Plutonium-239/240	0.0265	pCi/L	0.0148	U		0.0507	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-09-04	RADS	Technetium-99	-0.64	pCi/L	1.66	U		5.6	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-09-04	RADS	Uranium-233/234	11.5	pCi/L	0.228			0.0434	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-09-04	RADS	Uranium-235	0.213	pCi/L	0.0349	J		0.0428	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-09-04	RADS	Uranium-238	5.33	pCi/L	0.155			0.0346	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2,4,5-Trichlorophenol	0.55	ug/L		U		0.55	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2,4-Dichlorophenol	0.78	ug/L		U		0.78	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2,4-Dimethylphenol	0.71	ug/L		U		0.71	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2-Chloronaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2-Methyl-4,6-dinitrophenol	4.9	ug/L		U		4.9	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2-Methylnaphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	2-Nitrophenol	0.48	ug/L		U		0.48	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	4-Bromophenyl phenyl ether	0.53	ug/L		U		0.53	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	4-Methylphenol	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Acenaphthylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Benz(a)anthracene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Benzo(b)fluoranthene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Benzo(ghi)perylene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Bis(2-ethylhexyl)phthalate	0.69	ug/L		U		0.69	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Chrysene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Dibenz(a,h)anthracene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Dibenzofuran	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Diethyl phthalate	0.47	ug/L		U		0.47	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Dimethyl phthalate	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Di-n-octylphthalate	0.43	ug/L		U		0.43	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-05-04	SVOA	Hexachlorobenzene	0.81	ug/L		U		0.81	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Naphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Nitrobenzene	0.99	ug/L		U		0.99	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	N-Nitroso-di-n-propylamine	0.43	ug/L		U		0.43	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	N-Nitrosodiphenylamine	0.54	ug/L		U		0.54	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Phenanthrene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-05-04	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	1,2-Dimethylbenzene	0.33	ug/L		J		0.19	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Acetone	2.3	ug/L		J		1.9	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Benzene	1.6	ug/L				0.16	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	M + P Xylene	0.6	ug/L		J		0.34	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Methylene chloride	1.1	ug/L		J		0.32	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Toluene	1.3	ug/L				0.17	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-01-04	WETCHEM	Alkalinity	370	mg/L				1.1	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-01-04	WETCHEM	Alkalinity as CO3	36	mg/L				1.1	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-01-04	WETCHEM	Alkalinity as HCO3	330	mg/L				1.1	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-02-04	WETCHEM	Ammonium Nitrogen	3.4	mg/L				0.1	WATER	WG	REG	BP	1/11/2012
WD-MW01B	WDMW01-01-05	ANION	Chloride	520	mg/L				5.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-01-05	ANION	Fluoride	0.41	mg/L		B		0.06	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-01-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-01-05	ANION	Sulfate	8.4	mg/L				0.23	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Aluminum	0.032	mg/L		B		0.018	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-04-05	METAL	Antimony	0.0036	mg/L		B		0.0031	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Arsenic	0.02	mg/L				0.00033	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Arsenic	0.018	mg/L				0.00033	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Barium	0.16	mg/L				0.00058	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Barium	0.19	mg/L				0.00058	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Cadmium	0.00012	mg/L		B		0.00004	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Calcium	16	mg/L				0.035	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Copper	0.0023	mg/L		B		0.0014	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Copper	0.0016	mg/L		B		0.0014	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Iron	0.029	mg/L		B		0.022	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Iron	0.087	mg/L		B		0.022	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Magnesium	16	mg/L				0.011	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Magnesium	19	mg/L				0.011	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Manganese	0.021	mg/L				0.00025	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Manganese	0.031	mg/L				0.00025	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Molybdenum	0.018	mg/L				0.00014	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Molybdenum	0.014	mg/L				0.00014	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Nickel	0.0013	mg/L		B		0.0013	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Potassium	36	mg/L				0.24	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Potassium	29	mg/L				0.24	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Sodium	410	mg/L				0.092	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Sodium	410	mg/L				0.092	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Thallium	0.000053	mg/L		B		0.000033	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Uranium	0.015	mg/L				0.00002	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Uranium	0.013	mg/L				0.00002	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Vanadium	0.0014	mg/L		B		0.0011	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-03-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-04-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	PPCB	PCB-1221	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	PPCB	PCB-1232	0.18	ug/L		U		0.18	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	PPCB	Polychlorinated biphenyl	0.094	ug/L		U		0.094	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-09-05	RADS	Alpha activity	13.7	pCi/L	7.2	U		17.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-09-05	RADS	Americium-241	0.0647	pCi/L	0.0228	U		0.0804	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-09-05	RADS	Beta activity	18.9	pCi/L	6.62	U		14	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-09-05	RADS	Neptunium-237	0.0263	pCi/L	0.0116	U		0.0336	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-09-05	RADS	Plutonium-238	-0.00553	pCi/L	-0.00782	U		0.0529	WATER	WG	REG	BP	2/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-09-05	RADS	Plutonium-239/240	0.0166	pCi/L	0.0124	U		0.0529	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-09-05	RADS	Technetium-99	2.19	pCi/L	1.68	U		5.57	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-09-05	RADS	Uranium-233/234	10.8	pCi/L	0.223			0.0352	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-09-05	RADS	Uranium-235	0.182	pCi/L	0.0326	J		0.0435	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-09-05	RADS	Uranium-238	4.61	pCi/L	0.145			0.0351	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	1,2,4-Trichlorobenzene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	1,3-Dichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2,4,5-Trichlorophenol	0.5	ug/L		U		0.5	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2,4,6-Trichlorophenol	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2,4-Dichlorophenol	0.71	ug/L		U		0.71	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2,4-Dimethylphenol	0.65	ug/L		U		0.65	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2,4-Dinitrophenol	11	ug/L		U		11	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2,6-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2-Chloronaphthalene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2-Chlorophenol	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.5	ug/L		U		4.5	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2-Methylnaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2-Nitrobenzenamine	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	2-Nitrophenol	0.43	ug/L		U		0.43	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	3,3'-Dichlorobenzidine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	3-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	4-Bromophenyl phenyl ether	0.48	ug/L		U		0.48	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U		2.7	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	4-Methylphenol	0.28	ug/L		U		0.28	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	4-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Acenaphthene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Acenaphthylene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Anthracene	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Benz(a)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Benzo(a)pyrene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Benzo(b)fluoranthene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Benzo(ghi)perylene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Benzo(k)fluoranthene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Benzoic acid	11	ug/L		U		11	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Bis(2-ethylhexyl)phthalate	0.64	ug/L		J		0.62	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Butyl benzyl phthalate	1.1	ug/L		U		1.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Chrysene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Dibenz(a,h)anthracene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Dibenzofuran	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Diethyl phthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Dimethyl phthalate	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Di-n-octylphthalate	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Fluoranthene	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Fluorene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Hexachlorobenzene	0.74	ug/L		U		0.74	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Hexachlorobutadiene	3.7	ug/L		U		3.7	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Hexachlorocyclopentadiene	11	ug/L		U		11	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Hexachloroethane	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.72	ug/L		U		0.72	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Isophorone	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Naphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/13/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-05-05	SVOA	Nitrobenzene	0.9	ug/L		U		0.9	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	N-Nitroso-di-n-propylamine	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	N-Nitrosodiphenylamine	0.49	ug/L		U		0.49	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Pentachlorophenol	22	ug/L		U		22	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Phenanthrene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Phenol	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-05-05	SVOA	Pyrene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Benzene	1.2	ug/L				0.16	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Methylene chloride	1.5	ug/L		BJ		0.32	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Toluene	0.68	ug/L		J		0.17	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-01-05	WETCHEM	Alkalinity	380	mg/L				1.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-01-05	WETCHEM	Alkalinity as CO3	41	mg/L				1.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-01-05	WETCHEM	Alkalinity as HCO3	340	mg/L				1.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-02-05	WETCHEM	Ammonium Nitrogen	8.5	mg/L				0.1	WATER	WG	REG	BP	2/13/2012
WD-MW01B	WDMW01-01-06	ANION	Chloride	510	mg/L				5.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-01-06	ANION	Fluoride	0.4	mg/L		B		0.06	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-01-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-01-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-01-06	ANION	Sulfate	9.3	mg/L				0.23	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Aluminum	0.031	mg/L		B		0.018	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Antimony	0.0043	mg/L		B		0.0031	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Antimony	0.0043	mg/L		B		0.0031	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Arsenic	0.018	mg/L				0.00033	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Arsenic	0.016	mg/L				0.00033	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Barium	0.15	mg/L				0.00058	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Barium	0.2	mg/L				0.00058	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-03-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Calcium	16	mg/L				0.035	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Iron	0.035	mg/L		B		0.022	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Iron	0.1	mg/L				0.022	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Magnesium	15	mg/L				0.011	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Magnesium	19	mg/L				0.011	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Manganese	0.023	mg/L				0.00025	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Manganese	0.034	mg/L				0.00025	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Molybdenum	0.016	mg/L				0.00014	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Molybdenum	0.012	mg/L				0.00014	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Nickel	0.0013	mg/L		B		0.0013	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Nickel	0.0015	mg/L		B		0.0013	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Potassium	35	mg/L				0.24	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Potassium	30	mg/L				0.24	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Sodium	420	mg/L				0.092	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Sodium	440	mg/L				0.092	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Uranium	0.015	mg/L				0.00002	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Uranium	0.014	mg/L				0.0001	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Vanadium	0.0013	mg/L		B		0.0011	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Vanadium	0.0014	mg/L		B		0.0011	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-03-06	METAL	Zinc	0.04	mg/L				0.0045	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-04-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	PPCB	PCB-1221	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	PPCB	PCB-1232	0.18	ug/L		U		0.18	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	PPCB	Polychlorinated biphenyl	0.094	ug/L		U		0.094	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-09-06	RADS	Alpha activity	10.2	pCi/L	4.95	U	U	11	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-09-06	RADS	Americium-241	0.0478	pCi/L	0.0179	U	U	0.0588	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-09-06	RADS	Beta activity	16.6	pCi/L	4.23		J	8.14	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-09-06	RADS	Neptunium-237	-0.00467	pCi/L	0.00809	U	U	0.0575	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-09-06	RADS	Plutonium-238	0	pCi/L	0.00779	U	U	0.0527	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-09-06	RADS	Plutonium-239/240	0.022	pCi/L	0.0123	U	U	0.0421	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-09-06	RADS	Technetium-99	-1.55	pCi/L	1.65	U	U	5.6	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-09-06	RADS	Uranium-233/234	11.6	pCi/L	0.229		=	0.0343	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-09-06	RADS	Uranium-235	0.166	pCi/L	0.0308	J	J	0.0423	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-09-06	RADS	Uranium-238	4.94	pCi/L	0.149		=	0.0342	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-05-06	SVOA	1,3-Dichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2,4,5-Trichlorophenol	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2,4,6-Trichlorophenol	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2,4-Dichlorophenol	0.73	ug/L		U		0.73	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2,4-Dimethylphenol	0.66	ug/L		U		0.66	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2,4-Dinitrophenol	11	ug/L		U		11	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2,6-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2-Chloronaphthalene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.5	ug/L		U		4.5	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2-Methylnaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	2-Nitrophenol	0.44	ug/L		U		0.44	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	4-Bromophenyl phenyl ether	0.49	ug/L		U		0.49	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U		2.7	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	4-Methylphenol	0.28	ug/L		U		0.28	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Acenaphthene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Acenaphthylene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Anthracene	0.48	ug/L		U		0.48	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Benz(a)anthracene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Benzo(a)pyrene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Benzo(b)fluoranthene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Benzo(ghi)perylene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Benzo(k)fluoranthene	0.52	ug/L		U		0.52	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Benzoic acid	11	ug/L		U		11	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Bis(2-ethylhexyl)phthalate	2.6	ug/L		BJ		0.63	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Butyl benzyl phthalate	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Chrysene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Dibenz(a,h)anthracene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Dibenzofuran	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Diethyl phthalate	0.43	ug/L		U		0.43	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Di-n-octylphthalate	0.4	ug/L		U		0.4	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Fluorene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Hexachlorobenzene	0.75	ug/L		U		0.75	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Hexachlorobutadiene	3.7	ug/L		U		3.7	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Hexachlorocyclopentadiene	11	ug/L		U		11	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.74	ug/L		U		0.74	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Naphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Nitrobenzene	0.92	ug/L		U		0.92	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U		0.4	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	N-Nitrosodiphenylamine	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Phenanthrene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-05-06	SVOA	Pyrene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Acetone	3	ug/L		J		1.9	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Benzene	1.4	ug/L				0.16	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	M + P Xylene	0.45	ug/L		J		0.34	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Methylene chloride	1.3	ug/L		BJ		0.32	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Toluene	0.89	ug/L		J		0.17	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-01-06	WETCHEM	Alkalinity	430	mg/L				1.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-01-06	WETCHEM	Alkalinity as CO3	30	mg/L				1.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-01-06	WETCHEM	Alkalinity as HCO3	400	mg/L				1.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-02-06	WETCHEM	Ammonium Nitrogen	3.1	mg/L				0.1	WATER	WG	REG	BP	3/13/2012
WD-MW01B	WDMW01-01-07	ANION	Chloride	520	mg/L				5.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-01-07	ANION	Fluoride	0.37	mg/L		B		0.06	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-01-07	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-01-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-01-07	ANION	Sulfate	6.8	mg/L				0.23	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Aluminum	0.026	mg/L		B		0.018	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Antimony	0.0038	mg/L		B		0.0031	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Arsenic	0.016	mg/L				0.00033	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Barium	0.17	mg/L				0.00058	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Barium	0.21	mg/L				0.00058	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Calcium	17	mg/L				0.035	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Calcium	21	mg/L				0.035	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-04-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Iron	0.065	mg/L		B		0.022	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Iron	0.11	mg/L				0.022	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Magnesium	18	mg/L				0.011	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Magnesium	21	mg/L				0.011	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Manganese	0.026	mg/L				0.00025	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Manganese	0.034	mg/L				0.00025	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Molybdenum	0.015	mg/L				0.00014	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Molybdenum	0.012	mg/L				0.00014	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Nickel	0.0013	mg/L		B		0.0013	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Nickel	0.0017	mg/L		B		0.0013	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Potassium	33	mg/L				0.24	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Potassium	30	mg/L				0.24	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Selenium	0.00072	mg/L		B		0.0007	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Sodium	390	mg/L				0.092	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Sodium	410	mg/L				0.092	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Uranium	0.014	mg/L				0.00005	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Uranium	0.014	mg/L				0.00005	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-04-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	PPCB	PCB-1221	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	PPCB	Polychlorinated biphenyl	0.095	ug/L		U		0.095	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-09-07	RADS	Alpha activity	7.44	pCi/L	3.16	U	UJ	6.28	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-09-07	RADS	Americium-241	0.0559	pCi/L	0.0177	U	U	0.0528	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-09-07	RADS	Beta activity	3.35	pCi/L	1.78	U	UJ	4.14	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-09-07	RADS	Neptunium-237	0.00991	pCi/L	0.00858	U	U	0.0379	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-09-07	RADS	Plutonium-238	0.00998	pCi/L	0.00864	U	U	0.0382	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-09-07	RADS	Plutonium-239/240	0.0499	pCi/L	0.0165	U	UJ	0.0381	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-09-07	RADS	Technetium-99	-1.13	pCi/L	1.62	U	U	5.49	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-09-07	RADS	Uranium-233/234	0.314	pCi/L	0.0395	J	J	0.0375	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-09-07	RADS	Uranium-235	0.00604	pCi/L	0.00855	U	U	0.0462	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-09-07	RADS	Uranium-238	0.39	pCi/L	0.0439	J	J	0.0373	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	1,3-Dichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2,4,5-Trichlorophenol	0.51	ug/L		U		0.51	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2,4,6-Trichlorophenol	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2,4-Dichlorophenol	0.72	ug/L		U		0.72	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2,4-Dimethylphenol	0.66	ug/L		U		0.66	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2,4-Dinitrophenol	11	ug/L		U		11	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-05-07	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2,6-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2-Chloronaphthalene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2-Methyl-4,6-dinitrophenol	4.5	ug/L		U		4.5	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2-Methylnaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	2-Nitrophenol	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	4-Bromophenyl phenyl ether	0.49	ug/L		U		0.49	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U		2.7	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	4-Methylphenol	0.28	ug/L		U		0.28	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Acenaphthene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Acenaphthylene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Anthracene	0.48	ug/L		U		0.48	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Benz(a)anthracene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Benzo(a)pyrene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Benzo(b)fluoranthene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Benzo(ghi)perylene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Benzo(k)fluoranthene	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Benzoic acid	11	ug/L		U		11	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Bis(2-ethylhexyl)phthalate	1	ug/L		J		0.63	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Butyl benzyl phthalate	1.1	ug/L		U		1.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Chrysene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Dibenz(a,h)anthracene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Dibenzofuran	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Diethyl phthalate	0.43	ug/L		U		0.43	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Di-n-octylphthalate	0.4	ug/L		U		0.4	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Fluorene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Hexachlorobenzene	0.75	ug/L		U		0.75	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Hexachlorobutadiene	3.7	ug/L		U		3.7	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Hexachlorocyclopentadiene	11	ug/L		U		11	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.74	ug/L		U		0.74	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Naphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Nitrobenzene	0.92	ug/L		U		0.92	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U		0.4	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	N-Nitrosodiphenylamine	0.5	ug/L		U		0.5	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Phenanthrene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-05-07	SVOA	Pyrene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	WDMW01-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Benzene	1.2	ug/L				0.16	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Methylene chloride	1.7	ug/L		BJ		0.32	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Toluene	0.75	ug/L		J		0.17	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-01-07	WETCHEM	Alkalinity	390	mg/L				1.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-01-07	WETCHEM	Alkalinity as CO3	33	mg/L				1.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-01-07	WETCHEM	Alkalinity as HCO3	360	mg/L				1.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	WDMW01-02-07	WETCHEM	Ammonium Nitrogen	3.3	mg/L				0.1	WATER	WG	REG	BP	4/9/2012
WD-MW01B	QW64	ANION	Chloride	470000	ug/L				5100	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW64	ANION	Fluoride	450	ug/L		B		60	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW64	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW64	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW64	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW64	ANION	Sulfate	15000	ug/L				230	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW71	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	HERB	2,4,5-T	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	HERB	2,4-D	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	HERB	2,4-DB	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	HERB	Dalapon	1.39	ug/L		U		1.39	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	HERB	Dicamba	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	HERB	Dichloroprop	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW68	HERB	Dinoseb	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	HERB	MCPA	12.2	ug/L		U		12.2	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	HERB	MCPP	11.1	ug/L		U		11.1	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	HERB	Silvex	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	PCB-1016	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	PCB-1221	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	PCB-1232	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	PCB-1242	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	PCB-1248	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	PCB-1254	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	PCB-1260	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	PCB-1268	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Polychlorinated biphenyl	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Americium-241	0.0101	pCi/L	0.014	U		0.0194	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Neptunium-237	-0.0106	pCi/L	0.0122	U		0.0278	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Plutonium-238	0.00271	pCi/L	0.00919	U		0.00812	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Plutonium-239/240	-0.00271	pCi/L	0.0119	U		0.0259	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Technetium-99	-0.23	pCi/L	0.396	U		0.702	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Thorium-228	0.0913	pCi/L	0.0273			0.0232	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Thorium-230	0.00579	pCi/L	0.0149	U		0.0265	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Thorium-232	-0.00201	pCi/L	0.00839	U		0.0181	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Uranium-233/234	6.91	pCi/L	0.494			0.164	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Uranium-235/236	0.11	pCi/L	0.0916	U		0.122	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW70	RADS	Uranium-238	3.02	pCi/L	0.322			0.0267	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW68	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Benzo(a)pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	bis(2-Chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Di-n-butyl phthalate	4.5	ug/L		BJ		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Isophorone	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	m+p Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Pentachlorophenol	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Phenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW68	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW68	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW69	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW64	WETCHEM	Alkalinity	370	mg/L				1.1	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW64	WETCHEM	Alkalinity as CO3	21	mg/L				1.1	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW64	WETCHEM	Alkalinity as HCO3	350	mg/L				1.1	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW65	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW64	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW72	WETCHEM	Cyanide	0.0046	mg/L		B		0.002	WATER	WG	REG	BAI	9/19/2012
WD-MW01B	QW66R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Aluminum	0.043	mg/L		B		0.018	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Antimony	0.0019	mg/L		B		0.0004	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Antimony	0.0037	mg/L				0.0004	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	REG	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW67R	METAL	Arsenic	0.013	mg/L				0.00033	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Barium	0.3	mg/L				0.00029	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Barium	0.19	mg/L				0.00029	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Beryllium	0.00012	mg/L		B		0.00008	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Calcium	29	mg/L				0.035	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Calcium	18	mg/L				0.035	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Cobalt	0.00038	mg/L		B		0.000054	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Cobalt	0.00022	mg/L		B		0.000054	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Iron	0.27	mg/L				0.022	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Iron	0.15	mg/L				0.022	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Lithium	0.085	mg/L				0.0026	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Lithium	0.1	mg/L				0.0026	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Magnesium	20	mg/L				0.011	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Magnesium	17	mg/L				0.011	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Manganese	0.059	mg/L				0.00031	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Manganese	0.029	mg/L				0.00031	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Nickel	0.0053	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Nickel	0.0095	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Potassium	18	mg/L				0.24	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Potassium	32	mg/L				0.24	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Silver	0.000068	mg/L		B		0.000033	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Sodium	410	mg/L				0.092	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Sodium	420	mg/L				0.092	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Strontium	2.1	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Strontium	1.3	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Thallium	0.00035	mg/L		B		0.00005	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Thallium	0.00081	mg/L		B		0.00005	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Titanium	0.001	mg/L		B		0.0006	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Uranium	0.0043	mg/L				0.00005	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Uranium	0.0085	mg/L				0.00005	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Vanadium	0.00068	mg/L		B		0.0005	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW66R	METAL	Zinc	0.004	mg/L		B		0.002	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW67R	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW234	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW235	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	9/27/2012
WD-MW01B	QW335	ANION	Chloride	490000	ug/L				5100	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW335	ANION	Fluoride	380	ug/L		B		60	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW335	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW335	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW335	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW335	ANION	Sulfate	12000	ug/L				230	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW342	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	2,4,5-T	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	2,4,5-T	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	2,4-D	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	2,4-D	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	2,4-DB	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	2,4-DB	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	Dalapon	1.56	ug/L		U		1.56	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	Dalapon	1.45	ug/L		JU		1.45	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	Dicamba	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	Dicamba	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	Dichloroprop	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	Dichloroprop	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	Dinoseb	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	Dinoseb	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	MCPA	13.8	ug/L		U		13.8	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	MCPA	12.8	ug/L		JU		12.8	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	MCPP	12.5	ug/L		U		12.5	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	MCPP	11.6	ug/L		JU		11.6	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	Silvex	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	HERB	Silvex	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Aluminum	0.036	mg/L		B		0.018	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Antimony	0.0031	mg/L				0.0004	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Antimony	0.0038	mg/L				0.0004	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Arsenic	0.018	mg/L				0.00033	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Arsenic	0.013	mg/L				0.00033	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Barium	0.21	mg/L				0.00029	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Barium	0.2	mg/L				0.00029	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Calcium	23	mg/L				0.035	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Calcium	18	mg/L				0.035	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Cobalt	0.00038	mg/L		B		0.000054	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Cobalt	0.0002	mg/L		B		0.000054	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW337	METAL	Iron	0.077	mg/L		B		0.022	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Iron	0.15	mg/L				0.022	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Lithium	0.1	mg/L				0.0026	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Lithium	0.098	mg/L				0.0026	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Magnesium	21	mg/L				0.011	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Magnesium	17	mg/L				0.011	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Manganese	0.039	mg/L				0.00031	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Manganese	0.034	mg/L				0.00031	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Nickel	0.013	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Nickel	0.0056	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Potassium	28	mg/L				0.24	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Potassium	31	mg/L				0.24	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Sodium	430	mg/L				0.092	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Sodium	400	mg/L				0.092	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Strontium	1.7	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Strontium	1.4	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Thallium	0.00017	mg/L		B		0.00005	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Titanium	0.0012	mg/L		B		0.0006	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Uranium	0.012	mg/L				0.00005	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Uranium	0.0077	mg/L				0.00005	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Vanadium	0.0024	mg/L		B		0.0005	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Vanadium	0.00089	mg/L		B		0.0005	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW337	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW338	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	2,4'-DDD	0.00526	ug/L		U		0.00526	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	2,4'-DDE	0.00632	ug/L		U		0.00632	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	2,4'-DDT	0.00526	ug/L		U		0.00526	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	4,4'-DDD	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	4,4'-DDE	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	4,4'-DDT	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Aldrin	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	alpha-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	alpha-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	beta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Chlordane	0.0805	ug/L		U		0.0805	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	delta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Dieldrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Endosulfan I	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Endosulfan II	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Endosulfan sulfate	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Endrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Endrin aldehyde	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Endrin ketone	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	gamma-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Heptachlor	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Heptachlor epoxide	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Lindane	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW339	PPCB	Methoxychlor	0.0526	ug/L		U		0.0526	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	PCB-1016	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	PCB-1221	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	PCB-1232	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	PCB-1242	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	PCB-1248	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	PCB-1254	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	PCB-1260	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	PCB-1268	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Polychlorinated biphenyl	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	PPCB	Toxaphene	0.158	ug/L		U		0.158	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Americium-241	0.00208	pCi/L	0.0177	U		0.0335	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Neptunium-237	0.022	pCi/L	0.0306	U		0.0422	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Plutonium-238	-0.0122	pCi/L	0.016	U		0.0362	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Plutonium-239/240	1.36E-09	pCi/L	0.0126	U		0.0251	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Technetium-99	0.0626	pCi/L	0.324	U		0.556	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Thorium-228	0.0192	pCi/L	0.0164	U		0.0208	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Thorium-230	0.0104	pCi/L	0.0151	U		0.0238	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Thorium-232	0.00164	pCi/L	0.00933	U		0.0168	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Uranium-233/234	8	pCi/L	0.266			0.0389	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Uranium-235/236	0.18	pCi/L	0.0469			0.0312	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW341	RADS	Uranium-238	3.35	pCi/L	0.172			0.0281	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW339	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Hexachlorobenzene	0.00658	ug/L		U		0.00658	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Pentachlorophenol	0.0625	ug/L		U		0.0625	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Pentachlorophenol	0.0581	ug/L		JU		0.0581	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW339	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW340	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW340	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW335	WETCHEM	Alkalinity	390	mg/L				1.1	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW335	WETCHEM	Alkalinity as CO3	16	mg/L				1.1	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW335	WETCHEM	Alkalinity as HCO3	370	mg/L				1.1	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW336	WETCHEM	Ammonium Nitrogen	3.4	mg/L				0.1	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW344	WETCHEM	Chromium, hexavalent	0.005	mg/L		BJ		0.004	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW345	WETCHEM	Chromium, hexavalent	0.0041	mg/L		BJ		0.004	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW343	WETCHEM	Cyanide	0.0031	mg/L		B		0.002	WATER	WG	REG	BP	12/3/2012
WD-MW01B	QW346	ANION	Chloride	490000	ug/L				5100	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW346	ANION	Fluoride	380	ug/L		B		60	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW346	ANION	Nitrate	42	ug/L		U		42	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW346	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW346	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW346	ANION	Sulfate	12000	ug/L				230	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW353	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	2,4,5-T	0.101	ug/L		U		0.101	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	2,4,5-T	0.115	ug/L		JU		0.115	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	2,4-D	0.101	ug/L		U		0.101	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	2,4-D	0.115	ug/L		JU		0.115	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	2,4-DB	0.101	ug/L		U		0.101	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	2,4-DB	0.115	ug/L		JU		0.115	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	Dalapon	1.52	ug/L		U		1.52	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	Dalapon	1.74	ug/L		JU		1.74	WATER	WG	FD	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW350	HERB	Dicamba	0.101	ug/L		U		0.101	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	Dicamba	0.115	ug/L		JU		0.115	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	Dichloroprop	0.101	ug/L		U		0.101	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	Dichloroprop	0.115	ug/L		JU		0.115	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	Dinoseb	0.101	ug/L		U		0.101	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	Dinoseb	0.115	ug/L		JU		0.115	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	MCPA	13.4	ug/L		U		13.4	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	MCPA	15.3	ug/L		JU		15.3	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	MCPP	12.2	ug/L		U		12.2	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	MCPP	13.9	ug/L		JU		13.9	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	Silvex	0.101	ug/L		U		0.101	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	HERB	Silvex	0.115	ug/L		JU		0.115	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Aluminum	0.038	mg/L		B		0.018	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Antimony	0.0033	mg/L				0.0004	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Antimony	0.0041	mg/L				0.0004	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Arsenic	0.018	mg/L				0.00033	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Barium	0.21	mg/L				0.00029	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Barium	0.21	mg/L				0.00029	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Calcium	22	mg/L				0.035	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Calcium	20	mg/L				0.035	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Chromium	0.0005	mg/L		B		0.0005	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Cobalt	0.00035	mg/L		B		0.000054	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Cobalt	0.00022	mg/L		B		0.000054	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Copper	0.0078	mg/L				0.00056	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Iron	0.075	mg/L		B		0.022	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Iron	0.18	mg/L				0.022	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Lead	0.00025	mg/L		B		0.00018	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Lithium	0.1	mg/L				0.0026	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Lithium	0.097	mg/L				0.0026	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Magnesium	22	mg/L				0.011	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Magnesium	18	mg/L				0.011	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Manganese	0.04	mg/L				0.00031	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Manganese	0.037	mg/L				0.00031	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Nickel	0.014	mg/L				0.0003	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Nickel	0.0065	mg/L				0.0003	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Potassium	28	mg/L				0.24	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Potassium	33	mg/L				0.24	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Sodium	430	mg/L				0.092	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Sodium	420	mg/L				0.092	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Strontium	1.6	mg/L				0.0003	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Strontium	1.5	mg/L				0.0003	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Thallium	0.000065	mg/L		B		0.00005	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	FD	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW348	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Titanium	0.0013	mg/L		B		0.0006	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Uranium	0.012	mg/L				0.00005	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Uranium	0.0079	mg/L				0.00005	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Vanadium	0.0021	mg/L		B		0.0005	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Vanadium	0.00095	mg/L		B		0.0005	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW348	METAL	Zinc	0.0049	mg/L		B		0.002	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW349	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	2,4'-DDD	0.00526	ug/L		U		0.00526	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	2,4'-DDE	0.00632	ug/L		U		0.00632	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	2,4'-DDT	0.00526	ug/L		U		0.00526	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	4,4'-DDD	0.0105	ug/L		U		0.0105	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	4,4'-DDE	0.0105	ug/L		U		0.0105	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	4,4'-DDT	0.0105	ug/L		U		0.0105	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Aldrin	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	alpha-BHC	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	alpha-Chlordane	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	beta-BHC	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Chlordane	0.0805	ug/L		U		0.0805	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	delta-BHC	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Dieldrin	0.0105	ug/L		U		0.0105	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Endosulfan I	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Endosulfan II	0.0105	ug/L		U		0.0105	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Endosulfan sulfate	0.0105	ug/L		U		0.0105	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Endrin	0.0105	ug/L		U		0.0105	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Endrin aldehyde	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Endrin ketone	0.0105	ug/L		U		0.0105	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	gamma-Chlordane	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Heptachlor	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Heptachlor epoxide	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Lindane	0.007	ug/L		U		0.007	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Methoxychlor	0.0526	ug/L		U		0.0526	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	PCB-1016	0.0374	ug/L		U		0.0374	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	PCB-1221	0.0374	ug/L		U		0.0374	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	PCB-1232	0.0374	ug/L		U		0.0374	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	PCB-1242	0.0374	ug/L		U		0.0374	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	PCB-1248	0.0374	ug/L		U		0.0374	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	PCB-1254	0.0374	ug/L		U		0.0374	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	PCB-1260	0.0374	ug/L		U		0.0374	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	PCB-1268	0.0374	ug/L		U		0.0374	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Polychlorinated biphenyl	0.0374	ug/L		U		0.0374	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	PPCB	Toxaphene	0.158	ug/L		U		0.158	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Americium-241	-0.00246	pCi/L	0.00833	U		0.0188	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Neptunium-237	0.0229	pCi/L	0.0224	U		0.0316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Plutonium-238	0	pCi/L	0.0115	U		0.023	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Plutonium-239/240	0.0125	pCi/L	0.0129	U		0.0159	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Technetium-99	-0.057	pCi/L	0.364	U		0.632	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Thorium-228	0.0117	pCi/L	0.0165	U		0.023	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Thorium-230	0.00162	pCi/L	0.0223	U		0.0429	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Thorium-232	-0.000486	pCi/L	0.0115	U		0.0229	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Uranium-233/234	5.54	pCi/L	0.206			0.0355	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Uranium-235/236	0.131	pCi/L	0.037			0.0233	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW352	RADS	Uranium-238	2.39	pCi/L	0.135			0.0151	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW350	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Hexachlorobenzene	0.00658	ug/L		U		0.00658	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW350	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Pentachlorophenol	0.061	ug/L		U		0.061	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Pentachlorophenol	0.0694	ug/L		JU		0.0694	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW350	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Acetone	3.3	ug/L		J		1.9	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW351	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW346	WETCHEM	Alkalinity	380	mg/L				1.1	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW346	WETCHEM	Alkalinity as CO3	14	mg/L				1.1	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW346	WETCHEM	Alkalinity as HCO3	360	mg/L				1.1	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW347	WETCHEM	Ammonium Nitrogen	3.4	mg/L				0.1	WATER	WG	FD	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW01B	QW355	WETCHEM	Chromium, hexavalent	0.005	mg/L		BJ		0.004	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW356	WETCHEM	Chromium, hexavalent	0.0075	mg/L		BJ		0.004	WATER	WG	FD	BP	12/3/2012
WD-MW01B	QW354	WETCHEM	Cyanide	0.003	mg/L		B		0.002	WATER	WG	FD	BP	12/3/2012
WD-MW02B	WDMW02-01-01	ANION	Chloride	520	mg/L			=	5.1	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-01-01	ANION	Fluoride	0.52	mg/L			=	0.06	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-01-01	ANION	Nitrate	0.14	mg/L		B	J	0.042	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-04-01	ANION	Nitrate/Nitrite as Nitrogen	0.019	mg/L		U	U	0.019	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-01-01	ANION	Orthophosphate	0.19	mg/L		U	U	0.19	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-01-01	ANION	Sulfate	12	mg/L			=	0.23	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-05-01	METAL	Calcium	33000	ug/L			=	35	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-05-01	METAL	Magnesium	16000	ug/L			=	11	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-05-01	METAL	Potassium	20000	ug/L			=	240	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-05-01	METAL	Sodium	440000	ug/L			=	92	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-02-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	U	1.1	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-02-01	WETCHEM	Alkalinity as HCO3	410	mg/L			=	1.1	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-03-01	WETCHEM	Ammonia	2.7	mg/L			=	0.1	WATER	WG	REG	BP	7/28/2011
WD-MW02B	WDMW02-11-01	ANION	Chloride	530	mg/L			=	5.1	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-11-01	ANION	Fluoride	0.53	mg/L			=	0.06	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-11-01	ANION	Nitrate	0.042	mg/L		U	U	0.042	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-14-01	ANION	Nitrate/Nitrite as Nitrogen	0.019	mg/L		U	U	0.019	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-11-01	ANION	Orthophosphate	0.19	mg/L		U	U	0.19	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-11-01	ANION	Sulfate	11	mg/L			=	0.23	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-15-01	METAL	Calcium	31000	ug/L			=	35	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-15-01	METAL	Magnesium	15000	ug/L			=	11	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-15-01	METAL	Potassium	18000	ug/L			=	240	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-15-01	METAL	Sodium	440000	ug/L			=	92	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-12-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	U	1.1	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-12-01	WETCHEM	Alkalinity as HCO3	410	mg/L			=	1.1	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-13-01	WETCHEM	Ammonia	2.7	mg/L			=	0.1	WATER	WG	FR	BP	7/28/2011
WD-MW02B	WDMW02-01-02	ANION	Chloride	480	mg/L			XV	5.1	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-01-02	ANION	Fluoride	0.48	mg/L		B	XV	0.06	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-01-02	ANION	Nitrate	0.042	mg/L		JU	XV	0.042	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-01-02	ANION	Orthophosphate	0.19	mg/L		JU	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-01-02	ANION	Sulfate	11	mg/L			XV	0.23	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Aluminum	0.15	mg/L			XV	0.018	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Aluminum	2.3	mg/L			XV	0.018	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Arsenic	0.0066	mg/L			XV	0.00033	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Arsenic	0.0084	mg/L			XV	0.00033	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Barium	0.12	mg/L			XV	0.00058	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Barium	0.13	mg/L			XV	0.00058	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Cadmium	0.000048	mg/L		B	XV	0.00004	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Calcium	33	mg/L			XV	0.035	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Calcium	32	mg/L			XV	0.035	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Chromium	0.0049	mg/L		B	XV	0.00066	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Copper	0.0041	mg/L		B	XV	0.0014	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Iron	0.27	mg/L			XV	0.022	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Iron	2.4	mg/L			XV	0.022	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Lead	0.00022	mg/L		B	XV	0.00018	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Lead	0.0013	mg/L			XV	0.00018	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Magnesium	15	mg/L			XV	0.011	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Magnesium	15	mg/L			XV	0.011	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-03-02	METAL	Manganese	0.081	mg/L			XV	0.00025	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Manganese	0.098	mg/L			XV	0.00025	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Mercury	0.027	ug/L		U	XV	0.027	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Molybdenum	0.089	mg/L			XV	0.00014	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Molybdenum	0.092	mg/L			XV	0.00014	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Nickel	0.0032	mg/L		B	XV	0.0013	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Nickel	0.0083	mg/L		B	XV	0.0013	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Potassium	18	mg/L			XV	0.24	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Potassium	18	mg/L			XV	0.24	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Sodium	440	mg/L			XV	0.092	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Sodium	430	mg/L			XV	0.092	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Thallium	0.0001	mg/L		B	XV	0.000033	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Uranium	0.0032	mg/L			XV	0.00002	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Uranium	0.0034	mg/L			XV	0.00002	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Vanadium	0.01	mg/L			XV	0.0011	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-03-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-04-02	METAL	Zinc	0.014	mg/L		B	XV	0.0045	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	PPCB	PCB-1221	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	PPCB	PCB-1232	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	PPCB	Polychlorinated biphenyl	0.099	ug/L		U	XV	0.099	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-09-02	RADS	Alpha activity	6.87	pCi/L	2.69	U	XV	15	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-09-02	RADS	Americium-241	0.0339	pCi/L	0.02	U	XV	0.0857	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-09-02	RADS	Beta activity	13.8	pCi/L	2.38		XV	10.1	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-09-02	RADS	Neptunium-237	0.00424	pCi/L	0.00599	U	XV	0.0324	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-09-02	RADS	Plutonium-238	0.00442	pCi/L	0.00625	U	XV	0.0338	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-09-02	RADS	Plutonium-239/240	0.0486	pCi/L	0.0159	U	XV	0.0423	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-09-02	RADS	Technetium-99	-1.46	pCi/L	1.66	U	XV	5.61	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-09-02	RADS	Uranium-233/234	3.24	pCi/L	0.118		XV	0.033	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-09-02	RADS	Uranium-235	0.0373	pCi/L	0.016	U	XV	0.051	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-09-02	RADS	Uranium-238	1.49	pCi/L	0.0801		XV	0.0329	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2,4-Dichlorophenol	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2,4-Dimethylphenol	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U	XV	4.7	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2-Methylnaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	2-Nitrophenol	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-05-02	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Acenaphthene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Acenaphthylene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Anthracene	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Benz(a)anthracene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Benzo(a)pyrene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Benzo(ghi)perylene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Chrysene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Dibenzofuran	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Diethyl phthalate	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Dimethyl phthalate	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Di-n-octylphthalate	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Fluorene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Hexachlorobenzene	0.77	ug/L		U	XV	0.77	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Hexachlorobutadiene	3.9	ug/L		U	XV	3.9	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Hexachloroethane	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Isophorone	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Naphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Nitrobenzene	0.95	ug/L		U	XV	0.95	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-05-02	SVOA	Pyrene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	2-Butanone	4.1	ug/L		J	XV	2	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Acetone	8.8	ug/L		BJ	XV	1.9	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Benzene	6.3	ug/L			XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Ethylbenzene	0.31	ug/L		J	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	M + P Xylene	1.6	ug/L		J	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Methylene chloride	0.68	ug/L		J	XV	0.32	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Toluene	0.52	ug/L		J	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-01-02	WETCHEM	Alkalinity	430	mg/L			XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-01-02	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-01-02	WETCHEM	Alkalinity as HCO3	430	mg/L			XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-02-02	WETCHEM	Ammonium Nitrogen	2.6	mg/L			XV	0.1	WATER	WG	REG	BP	11/29/2011
WD-MW02B	WDMW02-01-03	ANION	Chloride	500	mg/L			XV	5.1	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-01-03	ANION	Fluoride	0.43	mg/L		B	XV	0.06	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-01-03	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-01-03	ANION	Sulfate	6.1	mg/L			XV	0.23	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Aluminum	0.16	mg/L			XV	0.018	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Aluminum	2.5	mg/L			XV	0.018	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Arsenic	0.0067	mg/L			XV	0.00033	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Arsenic	0.013	mg/L			XV	0.00033	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Barium	0.12	mg/L			XV	0.00058	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Barium	0.14	mg/L			XV	0.00058	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Cadmium	0.000043	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Cadmium	0.00037	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Calcium	35	mg/L			XV	0.035	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Calcium	33	mg/L			XV	0.035	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Chromium	0.0064	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Cobalt	0.0015	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Cobalt	0.0029	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Copper	0.013	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Iron	0.28	mg/L			XV	0.022	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Iron	6.1	mg/L			XV	0.022	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Lead	0.0031	mg/L			XV	0.00018	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Magnesium	16	mg/L			XV	0.011	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Magnesium	16	mg/L			XV	0.011	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Manganese	0.083	mg/L			XV	0.00025	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Manganese	0.13	mg/L			XV	0.00025	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Molybdenum	0.073	mg/L			XV	0.00014	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Molybdenum	0.078	mg/L			XV	0.00014	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Nickel	0.0033	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/12/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-04-03	METAL	Nickel	0.017	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Potassium	18	mg/L			XV	0.24	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Potassium	19	mg/L			XV	0.24	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Selenium	0.0012	mg/L		B	XV	0.0007	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Sodium	460	mg/L			XV	0.092	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Sodium	430	mg/L			XV	0.092	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Thallium	0.00032	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Uranium	0.0029	mg/L			XV	0.00002	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Uranium	0.004	mg/L			XV	0.00002	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Vanadium	0.0018	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Vanadium	0.016	mg/L			XV	0.0011	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-03-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-04-03	METAL	Zinc	0.028	mg/L			XV	0.0045	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	PPCB	PCB-1221	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	PPCB	PCB-1232	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	PPCB	PCB-1242	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	PPCB	Polychlorinated biphenyl	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-09-03	RADS	Alpha activity	5.26	pCi/L	2.35	U	XV	13.6	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-09-03	RADS	Americium-241	0.0277	pCi/L	0.0131	U	XV	0.0443	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-09-03	RADS	Beta activity	7.66	pCi/L	0.988			3.58	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-09-03	RADS	Neptunium-237	-0.00432	pCi/L	0.00611	U	XV	0.0414	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-09-03	RADS	Plutonium-238	-0.00529	pCi/L	-0.00748	U		0.0507	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-09-03	RADS	Plutonium-239/240	0.0423	pCi/L	0.0159	U		0.0404	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-09-03	RADS	Technetium-99	0.948	pCi/L	1.66	U	XV	5.54	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-09-03	RADS	Uranium-233/234	3.42	pCi/L	0.13			0.0375	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-09-03	RADS	Uranium-235	0.109	pCi/L	0.0263	J		0.0462	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-09-03	RADS	Uranium-238	1.6	pCi/L	0.0886			0.0373	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2,4-Dichlorophenol	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2,4-Dimethylphenol	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U	XV	4.7	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2-Methylnaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	2-Nitrophenol	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/12/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-05-03	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Acenaphthene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Acenaphthylene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Anthracene	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Benz(a)anthracene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Benzo(a)pyrene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Benzo(ghi)perylene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.65	ug/L		U	XV	0.65	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Chrysene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Dibenzofuran	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Diethyl phthalate	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Dimethyl phthalate	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Di-n-octylphthalate	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Fluorene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Hexachlorobenzene	0.77	ug/L		U	XV	0.77	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Hexachlorobutadiene	3.8	ug/L		U	XV	3.8	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Hexachloroethane	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Isophorone	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Naphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Nitrobenzene	0.94	ug/L		U	XV	0.94	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-05-03	SVOA	Pyrene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	1,2-Dimethylbenzene	0.19	ug/L		J	XV	0.19	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	2-Butanone	6.7	ug/L			XV	2	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Acetone	26	ug/L			XV	1.9	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Benzene	4.6	ug/L			XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/12/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-06-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Ethylbenzene	0.32	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	M + P Xylene	1.6	ug/L		J	XV	0.34	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Methylene chloride	0.69	ug/L		BJ	XV	0.32	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Toluene	0.65	ug/L		J	XV	0.17	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-01-03	WETCHEM	Alkalinity	420	mg/L			XV	1.1	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-01-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-01-03	WETCHEM	Alkalinity as HCO3	420	mg/L			XV	1.1	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-02-03	WETCHEM	Ammonium Nitrogen	2.8	mg/L				0.1	WATER	WG	REG	BP	12/12/2011
WD-MW02B	WDMW02-01-04	ANION	Chloride	490	mg/L				5.1	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-01-04	ANION	Fluoride	0.51	mg/L				0.06	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-01-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-01-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-01-04	ANION	Sulfate	4.2	mg/L		B		0.23	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Aluminum	0.15	mg/L				0.018	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Aluminum	4.4	mg/L				0.018	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Arsenic	0.0062	mg/L				0.00033	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Arsenic	0.013	mg/L				0.00033	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Barium	0.12	mg/L				0.00058	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Barium	0.15	mg/L				0.00058	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Cadmium	0.00041	mg/L		B		0.00004	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Calcium	32	mg/L				0.035	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Calcium	34	mg/L				0.035	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Chromium	0.0092	mg/L		B		0.00066	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Cobalt	0.0034	mg/L		B		0.0012	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Copper	0.0033	mg/L		B		0.0014	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Copper	0.013	mg/L		B		0.0014	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Iron	0.33	mg/L				0.022	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Iron	7.5	mg/L				0.022	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Lead	0.004	mg/L				0.00018	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Magnesium	15	mg/L				0.011	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Magnesium	17	mg/L				0.011	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Manganese	0.076	mg/L				0.00025	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Manganese	0.15	mg/L				0.00025	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Molybdenum	0.059	mg/L				0.00014	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Molybdenum	0.062	mg/L				0.00014	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Nickel	0.0015	mg/L		B		0.0013	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Nickel	0.021	mg/L		B		0.0013	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Potassium	17	mg/L				0.24	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Selenium	0.0011	mg/L		B		0.0007	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-03-04	METAL	Sodium	430	mg/L				0.092	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Sodium	450	mg/L				0.092	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Thallium	0.0004	mg/L		B		0.000033	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Uranium	0.0029	mg/L				0.00002	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Uranium	0.0038	mg/L				0.00002	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Vanadium	0.0019	mg/L		B		0.0011	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Vanadium	0.024	mg/L				0.0011	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-03-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-04-04	METAL	Zinc	0.033	mg/L				0.0045	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-09-04	RADS	Alpha activity	4.99	pCi/L	3.35	U		11	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-09-04	RADS	Americium-241	0.0187	pCi/L	0.0148	U		0.0673	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-09-04	RADS	Beta activity	2.51	pCi/L	3.99	U		13.9	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-09-04	RADS	Neptunium-237	0.00837	pCi/L	0.00837	U		0.0401	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-09-04	RADS	Plutonium-238	0	pCi/L	0.00843	U		0.0571	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-09-04	RADS	Plutonium-239/240	0.0536	pCi/L	0.0188	U		0.0456	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-09-04	RADS	Technetium-99	2.68	pCi/L	1.7	U		5.61	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-09-04	RADS	Uranium-233/234	3.06	pCi/L	0.123			0.0379	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-09-04	RADS	Uranium-235	0.061	pCi/L	0.0211	U		0.0585	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-09-04	RADS	Uranium-238	1.31	pCi/L	0.0805			0.0377	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	1,2,4-Trichlorobenzene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	1,3-Dichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2,4,5-Trichlorophenol	0.5	ug/L		U		0.5	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2,4,6-Trichlorophenol	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2,4-Dichlorophenol	0.72	ug/L		U		0.72	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2,4-Dimethylphenol	0.65	ug/L		U		0.65	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2,4-Dinitrophenol	11	ug/L		U		11	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2,6-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2-Chloronaphthalene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2-Chlorophenol	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2-Methyl-4,6-dinitrophenol	4.5	ug/L		U		4.5	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2-Methylnaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2-Nitrobenzenamine	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	2-Nitrophenol	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	3,3'-Dichlorobenzidine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	3-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	4-Bromophenyl phenyl ether	0.48	ug/L		U		0.48	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U		2.7	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	4-Methylphenol	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	4-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Acenaphthene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Acenaphthylene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Anthracene	0.47	ug/L		U		0.47	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Benz(a)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Benzo(a)pyrene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Benzo(b)fluoranthene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	1/11/2012

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WD-MW02B	WDMW02-05-04	SVOA	Benzo(ghi)perylene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Benzo(k)fluoranthene	0.52	ug/L		U		0.52	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Benzoic acid	11	ug/L		U		11	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Bis(2-ethylhexyl)phthalate	0.63	ug/L		U		0.63	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Butyl benzyl phthalate	1.1	ug/L		U		1.1	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Chrysene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Dibenz(a,h)anthracene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Dibenzofuran	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Diethyl phthalate	0.43	ug/L		U		0.43	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Di-n-octylphthalate	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Fluoranthene	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Fluorene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Hexachlorobenzene	0.74	ug/L		U		0.74	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Hexachlorobutadiene	3.7	ug/L		U		3.7	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Hexachlorocyclopentadiene	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.73	ug/L		U		0.73	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Naphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Nitrobenzene	0.91	ug/L		U		0.91	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	N-Nitroso-di-n-propylamine	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	N-Nitrosodiphenylamine	0.49	ug/L		U		0.49	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Pentachlorophenol	22	ug/L		U		22	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Phenanthrene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Phenol	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-05-04	SVOA	Pyrene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Benzene	3.6	ug/L				0.16	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Ethylbenzene	0.26	ug/L		J		0.16	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	M + P Xylene	1.4	ug/L		J		0.34	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-06-04	VOA	Toluene	0.54	ug/L		J		0.17	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-01-04	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-01-04	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-02-04	WETCHEM	Ammonium Nitrogen	3.1	mg/L				0.1	WATER	WG	REG	BP	1/11/2012
WD-MW02B	WDMW02-01-05	ANION	Chloride	460	mg/L				5.1	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-01-05	ANION	Fluoride	0.46	mg/L		B		0.06	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-01-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-01-05	ANION	Sulfate	4.6	mg/L		B		0.23	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Aluminum	3.6	mg/L				0.018	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Aluminum	0.14	mg/L				0.018	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Arsenic	0.0082	mg/L				0.00033	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Arsenic	0.0053	mg/L				0.00033	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Barium	0.14	mg/L				0.00058	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Barium	0.12	mg/L				0.00058	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Cadmium	0.0003	mg/L		B		0.00004	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Calcium	31	mg/L				0.035	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Calcium	31	mg/L				0.035	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Chromium	0.0075	mg/L		B		0.00066	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Cobalt	0.0015	mg/L		B		0.0012	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Copper	0.007	mg/L		B		0.0014	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Copper	0.0019	mg/L		B		0.0014	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Iron	4.3	mg/L				0.022	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Iron	0.34	mg/L				0.022	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Lead	0.0024	mg/L				0.00018	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Magnesium	15	mg/L				0.011	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Magnesium	14	mg/L				0.011	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Manganese	0.12	mg/L				0.00025	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Manganese	0.074	mg/L				0.00025	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Molybdenum	0.054	mg/L				0.00014	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Molybdenum	0.054	mg/L				0.00014	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Nickel	0.012	mg/L		B		0.0013	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Silver	0.0018	mg/L		B		0.00093	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Sodium	430	mg/L				0.092	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Sodium	440	mg/L				0.092	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Thallium	0.00024	mg/L		B		0.000033	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Uranium	0.0034	mg/L				0.00002	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Uranium	0.0028	mg/L				0.00002	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Vanadium	0.017	mg/L				0.0011	WATER	WG	REG	BP	2/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-03-05	METAL	Vanadium	0.0019	mg/L		B		0.0011	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-04-05	METAL	Zinc	0.022	mg/L				0.0045	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-03-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-09-05	RADS	Alpha activity	4.44	pCi/L	4.07	U		12.3	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-09-05	RADS	Americium-241	0.0334	pCi/L	0.0172	U		0.0687	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-09-05	RADS	Beta activity	3.46	pCi/L	2.79	U		7.17	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-09-05	RADS	Neptunium-237	0	pCi/L	0.00764	U		0.0413	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-09-05	RADS	Plutonium-238	0.0319	pCi/L	0.0184	U		0.0764	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-09-05	RADS	Plutonium-239/240	0.0478	pCi/L	0.0168	U		0.0406	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-09-05	RADS	Technetium-99	-1.25	pCi/L	1.68	U		5.7	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-09-05	RADS	Uranium-233/234	2.67	pCi/L	0.111			0.0351	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-09-05	RADS	Uranium-235	0.0396	pCi/L	0.016	U		0.0432	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-09-05	RADS	Uranium-238	1.08	pCi/L	0.0704			0.0349	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	1,3-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2,4,5-Trichlorophenol	0.57	ug/L		U		0.57	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2,4-Dichlorophenol	0.81	ug/L		U		0.81	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2,4-Dimethylphenol	0.73	ug/L		U		0.73	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2-Chloronaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2-Methyl-4,6-dinitrophenol	5.1	ug/L		U		5.1	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2-Methylnaphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	2-Nitrophenol	0.49	ug/L		U		0.49	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	4-Bromophenyl phenyl ether	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	4-Methylphenol	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Acenaphthylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Anthracene	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Benz(a)anthracene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Benzo(a)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Benzo(b)fluoranthene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Benzo(ghi)perylene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Benzo(k)fluoranthene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Bis(2-ethylhexyl)phthalate	0.74	ug/L		J		0.71	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	2/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-05-05	SVOA	Chrysene	0.68	ug/L		U		0.68	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Dibenz(a,h)anthracene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Dibenzofuran	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Diethyl phthalate	0.48	ug/L		U		0.48	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Dimethyl phthalate	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Di-n-octylphthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Hexachlorobenzene	0.84	ug/L		U		0.84	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Hexachlorobutadiene	4.2	ug/L		U		4.2	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Hexachlorocyclopentadiene	13	ug/L		U		13	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Hexachloroethane	2.7	ug/L		U		2.7	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.82	ug/L		U		0.82	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Isophorone	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Naphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	N-Nitroso-di-n-propylamine	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	N-Nitrosodiphenylamine	0.56	ug/L		U		0.56	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Phenanthrene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-05-05	SVOA	Pyrene	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Benzene	6.8	ug/L				0.16	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Ethylbenzene	0.32	ug/L		J		0.16	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	M + P Xylene	1.7	ug/L		J		0.34	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Methylene chloride	0.61	ug/L		BJ		0.32	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Toluene	0.71	ug/L		J		0.17	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-01-05	WETCHEM	Alkalinity	430	mg/L				1.1	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-01-05	WETCHEM	Alkalinity as HCO3	430	mg/L				1.1	WATER	WG	REG	BP	2/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-02-05	WETCHEM	Ammonium Nitrogen	3.3	mg/L				0.1	WATER	WG	REG	BP	2/13/2012
WD-MW02B	WDMW02-01-06	ANION	Chloride	520	mg/L				5.1	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-01-06	ANION	Fluoride	0.48	mg/L		B		0.06	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-01-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-01-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-01-06	ANION	Sulfate	6.1	mg/L				0.23	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Aluminum	0.23	mg/L				0.018	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Aluminum	3.4	mg/L				0.018	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Arsenic	0.0051	mg/L				0.00033	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Arsenic	0.01	mg/L				0.00033	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Barium	0.12	mg/L				0.00058	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Barium	0.14	mg/L				0.00058	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Cadmium	0.00036	mg/L		B		0.00004	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Calcium	31	mg/L				0.035	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Calcium	31	mg/L				0.035	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Chromium	0.00087	mg/L		B		0.00066	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Chromium	0.0069	mg/L		B		0.00066	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Cobalt	0.0027	mg/L		B		0.0012	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Copper	0.0068	mg/L		B		0.0014	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Iron	0.32	mg/L				0.022	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Iron	5.3	mg/L				0.022	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Lead	0.0029	mg/L				0.00018	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Magnesium	15	mg/L				0.011	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Magnesium	15	mg/L				0.011	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Manganese	0.076	mg/L				0.00025	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Manganese	0.12	mg/L				0.00025	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Mercury	0.000027	mg/L		B		0.000027	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Molybdenum	0.054	mg/L				0.00014	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Molybdenum	0.056	mg/L				0.00014	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Nickel	0.002	mg/L		B		0.0013	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Nickel	0.016	mg/L		B		0.0013	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Sodium	460	mg/L				0.092	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Sodium	460	mg/L				0.092	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Thallium	0.0003	mg/L		B		0.000033	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Uranium	0.0036	mg/L				0.00002	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Uranium	0.0046	mg/L		B		0.0001	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Vanadium	0.0022	mg/L		B		0.0011	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Vanadium	0.019	mg/L				0.0011	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-04-06	METAL	Zinc	0.025	mg/L				0.0045	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-05-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-09-06	RADS	Alpha activity	5.58	pCi/L	4.11	U	U	11.6	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-09-06	RADS	Americium-241	0.0621	pCi/L	0.0208	U	U	0.0687	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-09-06	RADS	Beta activity	-1.75	pCi/L	2.69	U	UJ	8.17	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-09-06	RADS	Neptunium-237	0	pCi/L	0.00784	U	U	0.0531	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-09-06	RADS	Plutonium-238	0.00673	pCi/L	0.00952	U	U	0.0515	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-09-06	RADS	Plutonium-239/240	0.0471	pCi/L	0.0202	U	U	0.0644	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-09-06	RADS	Technetium-99	-1.98	pCi/L	1.66	U	U	5.64	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-09-06	RADS	Uranium-233/234	3.15	pCi/L	0.121		=	0.0356	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-09-06	RADS	Uranium-235	0.109	pCi/L	0.0257	J	J	0.0439	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-09-06	RADS	Uranium-238	1.54	pCi/L	0.0847		=	0.0355	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2,4-Dichlorophenol	0.76	ug/L		U		0.76	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2,4-Dimethylphenol	0.69	ug/L		U		0.69	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Acenaphthylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Bis(2-ethylhexyl)phthalate	2.7	ug/L		BJ		0.67	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Chrysene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-05-06	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U		0.52	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-05-06	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Benzene	4.1	ug/L				0.16	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Ethylbenzene	0.26	ug/L		J		0.16	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	M + P Xylene	1.5	ug/L		J		0.34	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Toluene	0.33	ug/L		J		0.17	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-01-06	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-01-06	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-02-06	WETCHEM	Ammonium Nitrogen	3.1	mg/L				0.1	WATER	WG	REG	BP	3/13/2012
WD-MW02B	WDMW02-01-07	ANION	Chloride	530	mg/L				5.1	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-01-07	ANION	Fluoride	0.46	mg/L		B		0.06	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-01-07	ANION	Nitrate	0.046	mg/L		B		0.042	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-01-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-01-07	ANION	Sulfate	4.8	mg/L		B		0.23	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Aluminum	0.15	mg/L				0.018	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-04-07	METAL	Aluminum	2.1	mg/L				0.018	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Arsenic	0.0047	mg/L		B		0.00033	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Arsenic	0.009	mg/L				0.00033	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Barium	0.12	mg/L				0.00058	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Barium	0.14	mg/L				0.00058	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Cadmium	0.0004	mg/L		B		0.0001	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Calcium	30	mg/L				0.035	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Calcium	30	mg/L				0.035	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Chromium	0.008	mg/L		B		0.00066	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Cobalt	0.0026	mg/L		B		0.0012	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Copper	0.0057	mg/L		B		0.0014	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Iron	0.27	mg/L				0.022	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Iron	4.9	mg/L				0.022	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Lead	0.0025	mg/L				0.00018	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Magnesium	15	mg/L				0.011	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Magnesium	16	mg/L				0.011	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Manganese	0.071	mg/L				0.00025	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Manganese	0.11	mg/L				0.00025	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Molybdenum	0.05	mg/L				0.00014	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Molybdenum	0.053	mg/L				0.00014	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Nickel	0.0019	mg/L		B		0.0013	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Nickel	0.016	mg/L		B		0.0013	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Selenium	0.00098	mg/L		B		0.0007	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Sodium	440	mg/L				0.092	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Sodium	430	mg/L				0.092	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Thallium	0.00026	mg/L		B		0.00005	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Uranium	0.0031	mg/L				0.00005	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Uranium	0.0038	mg/L				0.00005	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Vanadium	0.0019	mg/L		B		0.0011	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Vanadium	0.025	mg/L				0.0011	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-04-07	METAL	Zinc	0.032	mg/L				0.0045	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	PPCB	Polychlorinated biphenyl	0.097	ug/L		U		0.097	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-09-07	RADS	Alpha activity	17.2	pCi/L	5.89		=	10	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-09-07	RADS	Americium-241	0.0463	pCi/L	0.0146	U	U	0.0322	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-09-07	RADS	Beta activity	5.47	pCi/L	3.49	U	UJ	8.18	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-09-07	RADS	Neptunium-237	0.0044	pCi/L	0.00983	U	U	0.0541	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-09-07	RADS	Plutonium-238	-0.00452	pCi/L	-0.00783	U	U	0.0556	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-09-07	RADS	Plutonium-239/240	0.0136	pCi/L	0.0136	U	U	0.065	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-09-07	RADS	Technetium-99	0.0229	pCi/L	1.62	U	U	5.45	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-09-07	RADS	Uranium-233/234	11.1	pCi/L	0.227		=	0.0443	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-09-07	RADS	Uranium-235	0.24	pCi/L	0.0375	J	J	0.0437	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-09-07	RADS	Uranium-238	5.18	pCi/L	0.155		=	0.0353	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	1,3-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2,4,5-Trichlorophenol	0.57	ug/L		U		0.57	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2,4-Dichlorophenol	0.81	ug/L		U		0.81	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2,4-Dimethylphenol	0.73	ug/L		U		0.73	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2-Chloronaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2-Methyl-4,6-dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2-Methylnaphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	2-Nitrophenol	0.49	ug/L		U		0.49	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	4-Bromophenyl phenyl ether	0.54	ug/L		U		0.54	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	4-Methylphenol	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Acenaphthylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Anthracene	0.53	ug/L		U		0.53	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Benz(a)anthracene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Benzo(a)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Benzo(b)fluoranthene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Benzo(ghi)perylene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Benzo(k)fluoranthene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Bis(2-ethylhexyl)phthalate	1.1	ug/L		J		0.7	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Chrysene	0.68	ug/L		U		0.68	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Dibenz(a,h)anthracene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Dibenzofuran	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Diethyl phthalate	0.48	ug/L		U		0.48	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Dimethyl phthalate	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Di-n-octylphthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Hexachlorobenzene	0.83	ug/L		U		0.83	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Hexachlorobutadiene	4.2	ug/L		U		4.2	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Hexachlorocyclopentadiene	13	ug/L		U		13	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.82	ug/L		U		0.82	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	WDMW02-05-07	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Naphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	N-Nitroso-di-n-propylamine	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	N-Nitrosodiphenylamine	0.55	ug/L		U		0.55	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Phenanthrene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-05-07	SVOA	Pyrene	0.47	ug/L		U		0.47	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	1,2-Dichloroethane	0.21	ug/L		J		0.13	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Benzene	4.9	ug/L				0.16	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Ethylbenzene	0.25	ug/L		J		0.16	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	M + P Xylene	1.3	ug/L		J		0.34	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Methylene chloride	0.92	ug/L		BJ		0.32	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Toluene	0.39	ug/L		J		0.17	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-01-07	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-01-07	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	REG	BP	4/9/2012
WD-MW02B	WDMW02-02-07	WETCHEM	Ammonium Nitrogen	3.4	mg/L				0.1	WATER	WG	REG	BP	4/9/2012
WD-MW02B	QW73	ANION	Chloride	500000	ug/L				5100	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW73	ANION	Fluoride	500	ug/L				60	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW73	ANION	Nitrate	45	ug/L		B		42	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW73	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW73	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW73	ANION	Sulfate	4000	ug/L		B		230	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	QW80	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.155	ng/L		J		2.5	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW80	DI/FURA	Octachlorodibenzofuran	0.102	ng/L		J		2.5	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	HERB	2,4,5-T	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	HERB	2,4-D	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	HERB	2,4-DB	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	HERB	Dalapon	1.39	ug/L		U		1.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	HERB	Dicamba	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	HERB	Dichloroprop	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	HERB	Dinoseb	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	HERB	MCPA	12.2	ug/L		U		12.2	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	HERB	MCPP	11.1	ug/L		U		11.1	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	HERB	Silvex	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	2,4'-DDD	0.00633	ug/L		U		0.00633	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	2,4'-DDD	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	2,4'-DDE	0.00759	ug/L		U		0.00759	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	2,4'-DDE	0.00667	ug/L		JU		0.00667	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	2,4'-DDT	0.00633	ug/L		U		0.00633	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	2,4'-DDT	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	4,4'-DDD	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	4,4'-DDD	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	4,4'-DDE	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	4,4'-DDE	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	4,4'-DDT	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	4,4'-DDT	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Aldrin	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Aldrin	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	alpha-BHC	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	alpha-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	alpha-Chlordane	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	alpha-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	beta-BHC	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	beta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Chlordane	0.0968	ug/L		U		0.0968	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Chlordane	0.085	ug/L		JU		0.085	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	delta-BHC	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	delta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Dieldrin	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Dieldrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endosulfan I	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endosulfan I	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endosulfan II	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endosulfan II	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endosulfan sulfate	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endosulfan sulfate	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endrin	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endrin aldehyde	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endrin aldehyde	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endrin ketone	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Endrin ketone	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	gamma-Chlordane	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	gamma-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	QW77	PPCB	Heptachlor	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Heptachlor	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Heptachlor epoxide	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Heptachlor epoxide	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Kepone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Lindane	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Lindane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Methoxychlor	0.0633	ug/L		U		0.0633	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Methoxychlor	0.0556	ug/L		JU		0.0556	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	PCB-1016	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	PCB-1221	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	PCB-1232	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	PCB-1242	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	PCB-1248	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	PCB-1254	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	PCB-1260	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	PCB-1268	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Polychlorinated biphenyl	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Toxaphene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	PPCB	Toxaphene	0.167	ug/L		JU		0.167	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Americium-241	0.0098	pCi/L	0.0136	U		0.0188	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Neptunium-237	-0.0157	pCi/L	0.0181	U		0.0413	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Plutonium-238	-0.00479	pCi/L	0.0133	U		0.0295	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Plutonium-239/240	0.00479	pCi/L	0.0162	U		0.0294	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Technetium-99	-0.219	pCi/L	0.309	U		0.551	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Thorium-228	0.0791	pCi/L	0.0335			0.0459	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Thorium-230	0.0974	pCi/L	0.0343			0.0447	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Thorium-232	0.0581	pCi/L	0.0213			0.0197	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Uranium-233/234	2.77	pCi/L	0.184			0.0685	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Uranium-235/236	0.0529	pCi/L	0.0331			0.0362	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW79	RADS	Uranium-238	1.36	pCi/L	0.127			0.00918	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	1,2,4-Trichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	1,2-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	1,3-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	1,4-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2,4,5-Trichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2,4,6-Trichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2,4-Dichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2,4-Dimethylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2,4-Dinitrophenol	6.49	ug/L		U		6.49	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2,4-Dinitrotoluene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2,6-Dinitrotoluene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2-Chloronaphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2-Chlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2-Methyl-4,6-dinitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2-Methylnaphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2-Methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	2-Nitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	3,3'-Dichlorobenzidine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	3-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	4-Aminobiphenyl	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	4-Bromophenyl phenyl ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	4-Chloro-3-methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	4-Chlorobenzenamine	4.29	ug/L		U		4.29	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	4-Chlorophenyl phenyl ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	4-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	4-Nitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Acenaphthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Acenaphthylene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	QW77	SVOA	Acetophenone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Benz(a)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Benzenemethanol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Benzo(a)pyrene	0.571	ug/L		U		0.571	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Benzo(b)fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Benzo(ghi)perylene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Benzo(k)fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Benzoic acid	7.79	ug/L		U		7.79	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Bis(2-chloroethoxy)methane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Bis(2-chloroethyl) ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	bis(2-Chloroisopropyl)ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Bis(2-ethylhexyl)phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Butyl benzyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Chrysene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Dibenz(a,h)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Dibenzofuran	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Diethyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Dimethyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Di-n-butyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Di-n-octylphthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Diphenylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Hexachlorobenzene	0.00791	ug/L		U		0.00791	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Hexachlorobenzene	0.00694	ug/L		JU		0.00694	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Hexachlorocyclopentadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Hexachloroethane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Indeno(1,2,3-cd)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Isophorone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	m+p Methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Naphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Nitrobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	N-Nitrosodimethylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	N-Nitroso-di-n-propylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	N-Nitrosomorpholine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	O,O,O-Triethylphosphorothioate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Pentachlorophenol	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Phenanthrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Phenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	SVOA	Pyridine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW77	VOA	1,4-Dioxane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	QW78	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Benzene	0.22	ug/L		J		0.16	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Bromoform	0.31	ug/L		J		0.19	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW78	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW73	WETCHEM	Alkalinity	430	mg/L				1.1	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW73	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW73	WETCHEM	Alkalinity as HCO3	430	mg/L				1.1	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW74	WETCHEM	Ammonium Nitrogen	3	mg/L				0.1	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW73	WETCHEM	Chromium, hexavalent	0.017	mg/L		BJ		0.004	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW81	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/19/2012
WD-MW02B	QW76R	METAL	Aluminum	0.97	mg/L				0.018	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Arsenic	0.004	mg/L		B		0.0017	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Arsenic	0.0025	mg/L		B		0.0017	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Barium	0.12	mg/L				0.0029	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Barium	0.11	mg/L				0.0015	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Calcium	32	mg/L				0.035	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Calcium	30	mg/L				0.035	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Chromium	0.0077	mg/L		B		0.0025	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Chromium	0.0039	mg/L		B		0.0025	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Cobalt	0.0011	mg/L		B		0.00027	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Cobalt	0.00031	mg/L		B		0.00027	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Copper	0.0028	mg/L		B		0.0028	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Iron	2	mg/L				0.022	WATER	WG	REG	BP	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	QW75R	METAL	Iron	0.12	mg/L				0.022	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Lead	0.0011	mg/L		B		0.0009	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Lithium	0.085	mg/L				0.0026	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Lithium	0.074	mg/L				0.0026	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Magnesium	14	mg/L				0.011	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Magnesium	13	mg/L				0.011	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Manganese	0.093	mg/L				0.0016	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Manganese	0.072	mg/L				0.0016	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Nickel	0.011	mg/L				0.0015	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Nickel	0.0041	mg/L		B		0.0015	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Silver	0.00022	mg/L		B		0.00017	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Sodium	470	mg/L				0.092	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Sodium	440	mg/L				0.092	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Strontium	1.2	mg/L				0.0003	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Strontium	1.1	mg/L				0.0003	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Titanium	0.0082	mg/L		B		0.0006	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Titanium	0.0012	mg/L		B		0.0006	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Uranium	0.0023	mg/L		B		0.00025	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Uranium	0.0021	mg/L		B		0.00025	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Vanadium	0.0054	mg/L		B		0.0025	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW76R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW75R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW240	WETCHEM	Chromium, hexavalent	0.0043	mg/L		B		0.004	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW241	WETCHEM	Chromium, hexavalent	0.011	mg/L		B		0.004	WATER	WG	REG	BP	9/26/2012
WD-MW02B	QW358	ANION	Chloride	540000	ug/L				5100	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW358	ANION	Fluoride	480	ug/L		B		60	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW358	ANION	Nitrate	120	ug/L		B		42	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW358	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW358	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW358	ANION	Sulfate	1900	ug/L		B		230	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.165	ng/L		J		2.5	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW365	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	QW362	HERB	2,4,5-T	0.0976	ug/L		U		0.0976	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	HERB	2,4-D	0.0976	ug/L		U		0.0976	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	HERB	2,4-DB	0.0976	ug/L		U		0.0976	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	HERB	Dalapon	1.47	ug/L		U		1.47	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	HERB	Dicamba	0.0976	ug/L		U		0.0976	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	HERB	Dichloroprop	0.0976	ug/L		U		0.0976	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	HERB	Dinoseb	0.0976	ug/L		U		0.0976	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	HERB	MCPA	12.9	ug/L		U		12.9	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	HERB	MCPP	11.8	ug/L		U		11.8	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	HERB	Silvex	0.0976	ug/L		U		0.0976	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Aluminum	0.041	mg/L		B		0.018	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Aluminum	1.9	mg/L				0.018	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Antimony	0.0012	mg/L		B		0.0004	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Antimony	0.001	mg/L		B		0.0004	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Arsenic	0.0019	mg/L		B		0.00033	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Arsenic	0.005	mg/L				0.00033	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Barium	0.11	mg/L				0.00029	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Barium	0.12	mg/L				0.00029	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Cadmium	0.00015	mg/L		B		0.0001	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Calcium	30	mg/L				0.035	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Calcium	29	mg/L				0.035	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Chromium	0.0032	mg/L				0.0005	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Cobalt	0.00042	mg/L		B		0.000054	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Cobalt	0.0012	mg/L				0.000054	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Copper	0.0043	mg/L				0.00056	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Iron	0.094	mg/L		B		0.022	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Iron	2.5	mg/L				0.022	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Lead	0.00024	mg/L		B		0.00018	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Lead	0.0012	mg/L				0.00018	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Lithium	0.083	mg/L				0.0026	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Lithium	0.082	mg/L				0.0026	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Magnesium	15	mg/L				0.011	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Magnesium	14	mg/L				0.011	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Manganese	0.078	mg/L				0.00031	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Manganese	0.099	mg/L				0.00031	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Nickel	0.0011	mg/L		B		0.0003	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Nickel	0.0081	mg/L				0.0003	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Silver	0.0031	mg/L		B		0.000033	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Sodium	480	mg/L				0.092	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Sodium	440	mg/L				0.092	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Strontium	1.3	mg/L				0.0003	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Strontium	1.2	mg/L				0.0003	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Thallium	0.00012	mg/L		B		0.00005	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/4/2012

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STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	QW360	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Titanium	0.06	mg/L				0.0006	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Uranium	0.0023	mg/L				0.00005	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Uranium	0.0027	mg/L				0.00005	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Vanadium	0.0067	mg/L				0.0005	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW360	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW361	METAL	Zinc	0.014	mg/L				0.002	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	2,4'-DDD	0.00526	ug/L		U		0.00526	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	2,4'-DDE	0.00632	ug/L		U		0.00632	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	2,4'-DDT	0.00526	ug/L		U		0.00526	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	4,4'-DDD	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	4,4'-DDE	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	4,4'-DDT	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Aldrin	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	alpha-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	alpha-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	beta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Chlordane	0.0805	ug/L		U		0.0805	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	delta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Dieldrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Endosulfan I	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Endosulfan II	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Endosulfan sulfate	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Endrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Endrin aldehyde	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Endrin ketone	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	gamma-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Heptachlor	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Heptachlor epoxide	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Kepone	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Lindane	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Methoxychlor	0.0526	ug/L		U		0.0526	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	PCB-1016	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	PCB-1221	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	PCB-1232	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	PCB-1242	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	PCB-1248	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	PCB-1254	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	PCB-1260	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	PCB-1268	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Polychlorinated biphenyl	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	PPCB	Toxaphene	0.158	ug/L		U		0.158	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Americium-241	-0.00732	pCi/L	0.0113	U		0.0263	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Neptunium-237	0.00443	pCi/L	0.023	U		0.0424	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Plutonium-238	0	pCi/L	0.0101	U		0.0201	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Plutonium-239/240	-0.0042	pCi/L	0.0101	U		0.0232	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Technetium-99	0.0513	pCi/L	0.295	U		0.506	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Thorium-228	-0.000169	pCi/L	0.0315	U		0.0589	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Thorium-230	0.0252	pCi/L	0.0325	U		0.054	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Thorium-232	-0.00525	pCi/L	0.0148	U		0.0322	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Uranium-233/234	1.93	pCi/L	0.142			0.0501	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Uranium-235/236	0.0488	pCi/L	0.0306			0.036	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW364	RADS	Uranium-238	0.856	pCi/L	0.0939			0.0252	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	1,2,4-Trichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	1,2-Dichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	1,3-Dichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	1,4-Dichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2,4,5-Trichlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2,4,6-Trichlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	QW362	SVOA	2,4-Dichlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2,4-Dimethylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2,4-Dinitrophenol	5.32	ug/L		U		5.32	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2,4-Dinitrotoluene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2,6-Dinitrotoluene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2-Chloronaphthalene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2-Chlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2-Methyl-4,6-dinitrophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2-Methylnaphthalene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2-Methylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2-Nitrobenzenamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	2-Nitrophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	3,3'-Dichlorobenzidine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	3-Nitrobenzenamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	4-Aminobiphenyl	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	4-Bromophenyl phenyl ether	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	4-Chloro-3-methylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	4-Chlorobenzenamine	3.51	ug/L		U		3.51	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	4-Chlorophenyl phenyl ether	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	4-Nitrobenzenamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	4-Nitrophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Acenaphthene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Acenaphthylene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Acetophenone	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Anthracene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Benz(a)anthracene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Benzenemethanol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Benzo(a)pyrene	0.468	ug/L		U		0.468	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Benzo(b)fluoranthene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Benzo(ghi)perylene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Benzo(k)fluoranthene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Benzoic acid	6.38	ug/L		U		6.38	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Bis(2-chloroethoxy)methane	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Bis(2-chloroethyl) ether	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	bis(2-Chloroisopropyl)ether	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Bis(2-ethylhexyl)phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Butyl benzyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Chrysene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Dibenz(a,h)anthracene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Dibenzofuran	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Diethyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Dimethyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Di-n-butyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Di-n-octylphthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Diphenylamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Fluoranthene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Fluorene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Hexachlorobenzene	0.00658	ug/L		U		0.00658	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Hexachlorobutadiene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Hexachlorocyclopentadiene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Hexachloroethane	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Indeno(1,2,3-cd)pyrene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Isophorone	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	m+p Methylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Naphthalene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Nitrobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	N-Nitrosodimethylamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	N-Nitroso-di-n-propylamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	N-Nitrosomorpholine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	O,O,O-Triethylphosphorothioate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW02B	QW362	SVOA	Pentachlorophenol	0.0588	ug/L		U		0.0588	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Phenanthrene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Phenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Pyrene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	SVOA	Pyridine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	1,2-Dimethylbenzene	0.19	ug/L		J		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW362	VOA	1,4-Dioxane	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Benzene	6	ug/L				0.16	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Ethylbenzene	0.32	ug/L		J		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	M + P Xylene	0.98	ug/L		J		0.34	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Methylene chloride	0.34	ug/L		BJ		0.32	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Toluene	0.82	ug/L		J		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Total Xylene	1.2	ug/L		J		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW363	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW358	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW358	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW358	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW359	WETCHEM	Ammonium Nitrogen	3.2	mg/L				0.1	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW367	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW368	WETCHEM	Chromium, hexavalent	0.035	mg/L		J		0.004	WATER	WG	REG	BP	12/4/2012
WD-MW02B	QW366	WETCHEM	Cyanide	0.0025	mg/L		B		0.002	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-01-02	ANION	Chloride	340	mg/L			XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-01-02	ANION	Fluoride	0.58	mg/L			XV	0.06	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-01-02	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-01-02	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-01-02	ANION	Sulfate	31	mg/L			XV	0.23	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Aluminum	0.13	mg/L			XV	0.018	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Aluminum	0.4	mg/L			XV	0.018	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Antimony	0.011	mg/L			XV	0.0031	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Antimony	0.0087	mg/L		B	XV	0.0031	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Arsenic	0.027	mg/L			XV	0.00033	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Arsenic	0.029	mg/L			XV	0.00033	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Barium	0.051	mg/L			XV	0.00058	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Barium	0.05	mg/L			XV	0.00058	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Calcium	21	mg/L			XV	0.035	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Calcium	19	mg/L			XV	0.035	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Chromium	0.0009	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Cobalt	0.0015	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Iron	0.1	mg/L			XV	0.022	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Iron	0.38	mg/L			XV	0.022	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Lead	0.00044	mg/L		B	XV	0.00018	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Magnesium	6.8	mg/L			XV	0.011	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Magnesium	6.3	mg/L			XV	0.011	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Manganese	0.018	mg/L			XV	0.00025	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Manganese	0.018	mg/L			XV	0.00025	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Molybdenum	0.081	mg/L			XV	0.00014	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Molybdenum	0.085	mg/L			XV	0.00014	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Nickel	0.003	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Nickel	0.0036	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Potassium	17	mg/L			XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Potassium	15	mg/L			XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Sodium	400	mg/L			XV	0.092	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Sodium	370	mg/L			XV	0.092	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Thallium	0.000038	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Thallium	0.000042	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Uranium	0.0054	mg/L			XV	0.00002	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Uranium	0.0053	mg/L			XV	0.00002	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Vanadium	0.0019	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Vanadium	0.0027	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-03-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-04-02	METAL	Zinc	0.0052	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	PPCB	PCB-1221	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	PPCB	PCB-1248	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-05-02	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	PPCB	PCB-1260	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	PPCB	Polychlorinated biphenyl	0.095	ug/L		U	XV	0.095	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-09-02	RADS	Alpha activity	-0.351	pCi/L	1.98	U	XV	15.3	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-09-02	RADS	Americium-241	0.0323	pCi/L	0.0131	U	XV	0.0353	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-09-02	RADS	Beta activity	5.34	pCi/L	0.91			3.56	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-09-02	RADS	Neptunium-237	0.0102	pCi/L	0.0102	U	XV	0.0487	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-09-02	RADS	Plutonium-238	-0.00551	pCi/L	-0.0078	U		0.0528	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-09-02	RADS	Plutonium-239/240	0.0331	pCi/L	0.0146	U		0.0422	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-09-02	RADS	Technetium-99	0.699	pCi/L	1.66	U	XV	5.55	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-09-02	RADS	Uranium-233/234	6.2	pCi/L	0.168			0.035	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-09-02	RADS	Uranium-235	0.13	pCi/L	0.0276	J		0.0431	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-09-02	RADS	Uranium-238	2.58	pCi/L	0.108			0.0348	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2,4-Dichlorophenol	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2,4-Dimethylphenol	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U	XV	4.7	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2-Methylnaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	2-Nitrophenol	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Acenaphthene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Acenaphthylene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Anthracene	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Benz(a)anthracene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Benzo(a)pyrene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Benzo(ghi)perylene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.74	ug/L		J	XV	0.65	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Chrysene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Dibenzofuran	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Diethyl phthalate	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Dimethyl phthalate	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Di-n-octylphthalate	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-05-02	SVOA	Fluorene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Hexachlorobenzene	0.77	ug/L		U	XV	0.77	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Hexachlorobutadiene	3.9	ug/L		U	XV	3.9	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Hexachloroethane	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Isophorone	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Naphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Nitrobenzene	0.95	ug/L		U	XV	0.95	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-05-02	SVOA	Pyrene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	1,2-Dimethylbenzene	0.98	ug/L		J	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	2-Butanone	7.5	ug/L			XV	2	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Acetone	38	ug/L			XV	1.9	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Benzene	3.1	ug/L			XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Chloroform	0.54	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Ethylbenzene	0.4	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	M + P Xylene	1.6	ug/L		J	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Methylene chloride	0.77	ug/L		J	XV	0.32	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Toluene	3.3	ug/L			XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-01-02	WETCHEM	Alkalinity	340	mg/L			XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-01-02	WETCHEM	Alkalinity as CO3	31	mg/L			XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-01-02	WETCHEM	Alkalinity as HCO3	300	mg/L			XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-02-02	WETCHEM	Ammonium Nitrogen	2.3	mg/L			XV	0.1	WATER	WG	REG	BP	12/7/2011
WD-MW03B	WDMW03-01-03	ANION	Chloride	420	mg/L			XV	2.5	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-01-03	ANION	Fluoride	0.47	mg/L		B	XV	0.06	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-01-03	ANION	Nitrate	0.052	mg/L		B	XV	0.042	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-01-03	ANION	Sulfate	14	mg/L			XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Aluminum	0.22	mg/L			XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Aluminum	0.72	mg/L			XV	0.018	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-03-03	METAL	Antimony	0.011	mg/L			XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Antimony	0.011	mg/L			XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Arsenic	0.03	mg/L			XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Arsenic	0.026	mg/L			XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Barium	0.044	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Barium	0.056	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Cadmium	0.000044	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Calcium	17	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Calcium	20	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Chromium	0.0008	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Copper	0.0016	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Iron	0.1	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Iron	0.48	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Lead	0.00018	mg/L		B	XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Lead	0.00099	mg/L		B	XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Magnesium	6.1	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Magnesium	7.4	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Manganese	0.015	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Manganese	0.022	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Molybdenum	0.15	mg/L			XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Molybdenum	0.073	mg/L			XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Nickel	0.0029	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Nickel	0.0039	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Potassium	17	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Potassium	16	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Sodium	360	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Sodium	400	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Thallium	0.000035	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Uranium	0.0064	mg/L			XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Uranium	0.0053	mg/L			XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Vanadium	0.0025	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Vanadium	0.0036	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-03-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-04-03	METAL	Zinc	0.0056	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	PPCB	PCB-1221	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	PPCB	PCB-1232	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	PPCB	PCB-1248	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	PPCB	PCB-1260	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	PPCB	Polychlorinated biphenyl	0.093	ug/L		U	XV	0.093	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-09-03	RADS	Alpha activity	-2.16	pCi/L	1.72	U		16.4	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-09-03	RADS	Americium-241	0.0439	pCi/L	0.0146	U		0.0336	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-09-03	RADS	Beta activity	27.2	pCi/L	3.55			14	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-09-03	RADS	Neptunium-237	0.00961	pCi/L	0.00961	U		0.046	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-09-03	RADS	Plutonium-238	-0.0111	pCi/L	-0.0111	U		0.0796	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-09-03	RADS	Plutonium-239/240	0.00553	pCi/L	0.00782	U		0.0423	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-09-03	RADS	Technetium-99	3.29	pCi/L	1.68	U	XV	5.51	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-09-03	RADS	Uranium-233/234	5.92	pCi/L	0.162			0.0341	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-09-03	RADS	Uranium-235	0.0934	pCi/L	0.0233	J		0.042	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-09-03	RADS	Uranium-238	2.12	pCi/L	0.0971			0.0339	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	1,2,4-Trichlorobenzene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	1,2-Dichlorobenzene	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	1,3-Dichlorobenzene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	1,4-Dichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2,4,5-Trichlorophenol	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2,4,6-Trichlorophenol	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2,4-Dichlorophenol	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2,4-Dimethylphenol	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2,4-Dinitrophenol	11	ug/L		U	XV	11	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2,4-Dinitrotoluene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2,6-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2-Chloronaphthalene	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2-Chlorophenol	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.3	ug/L		U	XV	4.3	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2-Methylnaphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2-Methylphenol	1	ug/L		U	XV	1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2-Nitrobenzenamine	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	2-Nitrophenol	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	3,3'-Dichlorobenzidine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	3-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	4-Bromophenyl phenyl ether	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	4-Chloro-3-methylphenol	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	4-Chlorophenyl phenyl ether	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	4-Methylphenol	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	4-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	4-Nitrophenol	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Acenaphthene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Acenaphthylene	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Anthracene	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Benz(a)anthracene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Benzo(a)pyrene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Benzo(b)fluoranthene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Benzo(ghi)perylene	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Benzo(k)fluoranthene	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Benzoic acid	11	ug/L		U	XV	11	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Bis(2-chloroethoxy)methane	1	ug/L		U	XV	1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Butyl benzyl phthalate	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Chrysene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Dibenz(a,h)anthracene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Dibenzofuran	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Diethyl phthalate	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Dimethyl phthalate	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Di-n-butyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Di-n-octylphthalate	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Fluoranthene	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Fluorene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Hexachlorobenzene	0.7	ug/L		U	XV	0.7	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Hexachlorobutadiene	3.5	ug/L		U	XV	3.5	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Hexachlorocyclopentadiene	1.6	ug/L		U	XV	1.6	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Hexachloroethane	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Isophorone	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-05-03	SVOA	Naphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Nitrobenzene	0.87	ug/L		U	XV	0.87	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	N-Nitroso-di-n-propylamine	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	N-Nitrosodiphenylamine	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Pentachlorophenol	21	ug/L		U	XV	21	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Phenanthrene	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Phenol	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-05-03	SVOA	Pyrene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	1,2-Dimethylbenzene	1	ug/L			XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	2-Butanone	11	ug/L			XV	2	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Acetone	19	ug/L			XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Benzene	2.6	ug/L			XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Chloroform	0.42	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Ethylbenzene	0.42	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	M + P Xylene	1.8	ug/L		J	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Methylene chloride	0.61	ug/L		J	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Toluene	1.8	ug/L			XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-01-03	WETCHEM	Alkalinity	370	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-01-03	WETCHEM	Alkalinity as CO3	20	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-01-03	WETCHEM	Alkalinity as HCO3	350	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-02-03	WETCHEM	Ammonium Nitrogen	2.7	mg/L				0.1	WATER	WG	REG	BP	12/14/2011
WD-MW03B	WDMW03-01-04	ANION	Chloride	440	mg/L				5.1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-01-04	ANION	Fluoride	0.51	mg/L				0.06	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-01-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-01-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-01-04	ANION	Sulfate	14	mg/L				0.23	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Aluminum	0.54	mg/L				0.018	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Antimony	0.0071	mg/L		B		0.0031	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Antimony	0.0078	mg/L		B		0.0031	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Arsenic	0.023	mg/L				0.00033	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Arsenic	0.024	mg/L				0.00033	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Barium	0.05	mg/L				0.00058	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Barium	0.058	mg/L				0.00058	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Calcium	18	mg/L				0.035	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Chromium	0.001	mg/L		B		0.00066	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Chromium	0.0014	mg/L		B		0.00066	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Copper	0.0022	mg/L		B		0.0014	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Copper	0.0023	mg/L		B		0.0014	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Iron	0.041	mg/L		B		0.022	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Iron	0.49	mg/L				0.022	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Lead	0.00046	mg/L		B		0.00018	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Magnesium	7.1	mg/L				0.011	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Magnesium	7.5	mg/L				0.011	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Manganese	0.019	mg/L				0.00025	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Manganese	0.027	mg/L				0.00025	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Molybdenum	0.083	mg/L				0.00014	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Molybdenum	0.06	mg/L				0.00014	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Nickel	0.0037	mg/L		B		0.0013	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Nickel	0.0048	mg/L		B		0.0013	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Potassium	18	mg/L				0.24	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Sodium	400	mg/L				0.092	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Sodium	410	mg/L				0.092	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Thallium	0.000033	mg/L		B		0.000033	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Thallium	0.000049	mg/L		B		0.000033	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Uranium	0.0057	mg/L				0.00002	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Uranium	0.0055	mg/L				0.00002	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Vanadium	0.0027	mg/L		B		0.0011	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-03-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-04-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	PPCB	PCB-1221	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	PPCB	PCB-1254	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	PPCB	PCB-1260	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-09-04	RADS	Alpha activity	10.7	pCi/L	4.74	U		9.82	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-09-04	RADS	Americium-241	0.0539	pCi/L	0.0177	U		0.0469	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-09-04	RADS	Beta activity	12.7	pCi/L	3.91			7.96	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-09-04	RADS	Neptunium-237	0.0101	pCi/L	0.00871	U		0.0385	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-09-04	RADS	Plutonium-238	0.0123	pCi/L	0.0107	U		0.0471	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-09-04	RADS	Plutonium-239/240	0.0677	pCi/L	0.0222	U		0.0589	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-09-04	RADS	Technetium-99	-0.82	pCi/L	1.64	U		5.55	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-09-04	RADS	Uranium-233/234	5.44	pCi/L	0.166			0.0386	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-09-04	RADS	Uranium-235	0.106	pCi/L	0.0264	J		0.0476	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-09-04	RADS	Uranium-238	2.03	pCi/L	0.101			0.0384	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	1,2,4-Trichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-05-04	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	1,3-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	1,4-Dichlorobenzene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2,4,5-Trichlorophenol	0.58	ug/L		U		0.58	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2,4-Dichlorophenol	0.82	ug/L		U		0.82	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2,4-Dimethylphenol	0.74	ug/L		U		0.74	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2-Chloronaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2-Chlorophenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2-Methyl-4,6-dinitrophenol	5.1	ug/L		U		5.1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2-Methylnaphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2-Methylphenol	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	2-Nitrophenol	0.5	ug/L		U		0.5	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	3-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	4-Bromophenyl phenyl ether	0.55	ug/L		U		0.55	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	4-Chloro-3-methylphenol	3.1	ug/L		U		3.1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	4-Methylphenol	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	4-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Acenaphthene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Acenaphthylene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Anthracene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Benz(a)anthracene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Benzo(a)pyrene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Benzo(b)fluoranthene	0.68	ug/L		U		0.68	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Benzo(ghi)perylene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Benzo(k)fluoranthene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Bis(2-ethylhexyl)phthalate	3.1	ug/L		BJ		0.72	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Chrysene	0.69	ug/L		U		0.69	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Dibenz(a,h)anthracene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Dibenzofuran	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Diethyl phthalate	0.49	ug/L		U		0.49	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Dimethyl phthalate	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Di-n-octylphthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Fluoranthene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Fluorene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Hexachlorobenzene	0.85	ug/L		U		0.85	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Hexachlorobutadiene	4.2	ug/L		U		4.2	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Hexachlorocyclopentadiene	2	ug/L		U		2	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Hexachloroethane	2.7	ug/L		U		2.7	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.83	ug/L		U		0.83	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Isophorone	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Naphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	N-Nitroso-di-n-propylamine	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	N-Nitrosodiphenylamine	0.56	ug/L		U		0.56	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Pentachlorophenol	26	ug/L		U		26	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Phenanthrene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-05-04	SVOA	Phenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-05-04	SVOA	Pyrene	0.47	ug/L		U		0.47	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Benzene	1	ug/L				0.16	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-01-04	WETCHEM	Alkalinity	380	mg/L				1.1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-01-04	WETCHEM	Alkalinity as CO3	8.4	mg/L				1.1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-01-04	WETCHEM	Alkalinity as HCO3	380	mg/L				1.1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-02-04	WETCHEM	Ammonium Nitrogen	2.3	mg/L				0.1	WATER	WG	REG	BP	1/17/2012
WD-MW03B	WDMW03-01-05	ANION	Chloride	440	mg/L				2.5	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-01-05	ANION	Fluoride	0.52	mg/L				0.06	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-01-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-01-05	ANION	Sulfate	13	mg/L				0.23	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Aluminum	0.079	mg/L		B		0.018	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Aluminum	0.89	mg/L				0.018	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Antimony	0.0034	mg/L		B		0.0031	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Antimony	0.0061	mg/L		B		0.0031	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Arsenic	0.018	mg/L				0.00033	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Arsenic	0.021	mg/L				0.00033	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Barium	0.052	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Barium	0.058	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Calcium	19	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Calcium	19	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Chromium	0.0019	mg/L		B		0.00066	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-03-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Copper	0.0022	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Copper	0.0018	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Iron	0.062	mg/L		B		0.022	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Iron	0.56	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Lead	0.00055	mg/L		B		0.00018	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Magnesium	7.2	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Magnesium	7.2	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Manganese	0.023	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Manganese	0.03	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Molybdenum	0.064	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Molybdenum	0.07	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Nickel	0.0032	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Nickel	0.0046	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Potassium	17	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Sodium	400	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Sodium	400	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Uranium	0.0062	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Uranium	0.0059	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Vanadium	0.0031	mg/L		B		0.0011	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-03-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-04-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-09-05	RADS	Alpha activity	6.05	pCi/L	4.59	U		13	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-09-05	RADS	Americium-241	0.0308	pCi/L	0.0124	U		0.0337	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-09-05	RADS	Beta activity	9.26	pCi/L	4.26	U		9.76	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-09-05	RADS	Neptunium-237	0	pCi/L	0.00702	U		0.0475	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-09-05	RADS	Plutonium-238	0.00577	pCi/L	0.00816	U		0.0441	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-09-05	RADS	Plutonium-239/240	-0.0115	pCi/L	-0.00998	U		0.0709	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-09-05	RADS	Technetium-99	1.23	pCi/L	1.67	U		5.55	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-09-05	RADS	Uranium-233/234	5.84	pCi/L	0.162			0.0343	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-09-05	RADS	Uranium-235	0.111	pCi/L	0.0253	J		0.0423	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-09-05	RADS	Uranium-238	2.27	pCi/L	0.101			0.0341	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Bis(2-ethylhexyl)phthalate	3.2	ug/L		BJ		0.68	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Dibenz(a,h)anthracene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Hexachlorobenzene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Nitrobenzene	0.98	ug/L		U		0.98	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-05-05	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Benzene	1.5	ug/L				0.16	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	M + P Xylene	0.59	ug/L		J		0.34	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Methylene chloride	0.48	ug/L		BJ		0.32	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-01-05	WETCHEM	Alkalinity	370	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-01-05	WETCHEM	Alkalinity as CO3	16	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-01-05	WETCHEM	Alkalinity as HCO3	350	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-02-05	WETCHEM	Ammonium Nitrogen	2.6	mg/L				0.1	WATER	WG	REG	BP	2/15/2012
WD-MW03B	WDMW03-01-06	ANION	Chloride	480	mg/L				2.5	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-01-06	ANION	Fluoride	0.51	mg/L				0.06	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-01-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-01-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-01-06	ANION	Sulfate	10	mg/L				0.23	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Aluminum	0.061	mg/L		B		0.018	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Aluminum	0.34	mg/L				0.018	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Antimony	0.0031	mg/L		B		0.0031	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Arsenic	0.021	mg/L				0.00033	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Arsenic	0.02	mg/L				0.00033	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Barium	0.053	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Barium	0.063	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Cadmium	0.000057	mg/L		B		0.00004	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Calcium	19	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Copper	0.0028	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Copper	0.0026	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Iron	0.06	mg/L		B		0.022	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Iron	0.42	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-04-06	METAL	Lead	0.00038	mg/L		B		0.00018	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Magnesium	6.7	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Magnesium	6.8	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Manganese	0.024	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Manganese	0.031	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Mercury	0.00003	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Mercury	0.000027	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Molybdenum	0.071	mg/L				0.00014	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Molybdenum	0.054	mg/L				0.00014	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Nickel	0.0037	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Nickel	0.004	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Potassium	17	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Sodium	410	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Sodium	430	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Thallium	0.000082	mg/L		B		0.000033	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Thallium	0.000063	mg/L		B		0.000033	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Uranium	0.0064	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Uranium	0.0056	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Vanadium	0.0016	mg/L		B		0.0011	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-04-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-09-06	RADS	Alpha activity	16.5	pCi/L	7.22	U	UJ	15	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-09-06	RADS	Americium-241	0.0351	pCi/L	0.0152	U	U	0.054	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-09-06	RADS	Beta activity	3	pCi/L	6.09	U	U	16.2	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-09-06	RADS	Neptunium-237	0.0089	pCi/L	0.00771	U	U	0.034	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-09-06	RADS	Plutonium-238	0	pCi/L	0.0115	U	U	0.0707	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-09-06	RADS	Plutonium-239/240	0.0575	pCi/L	0.0191	U	UJ	0.044	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-09-06	RADS	Technetium-99	-2.34	pCi/L	1.67	J	U	5.69	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-09-06	RADS	Uranium-233/234	5.8	pCi/L	0.164		=	0.0352	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-09-06	RADS	Uranium-235	0.0739	pCi/L	0.0213	J	J	0.0435	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-09-06	RADS	Uranium-238	2	pCi/L	0.096		=	0.0351	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-05-06	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Bis(2-ethylhexyl)phthalate	3.1	ug/L		BJ		0.68	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Dibenz(a,h)anthracene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Hexachlorobenzene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Nitrobenzene	0.98	ug/L		U		0.98	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-05-06	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Acetone	2.7	ug/L		J		1.9	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Benzene	0.83	ug/L		J		0.16	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-01-06	WETCHEM	Alkalinity	380	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-01-06	WETCHEM	Alkalinity as CO3	1.4	mg/L		B		1.1	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-01-06	WETCHEM	Alkalinity as HCO3	380	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-02-06	WETCHEM	Ammonium Nitrogen	2.8	mg/L				0.1	WATER	WG	REG	BP	3/19/2012
WD-MW03B	WDMW03-01-07	ANION	Chloride	480	mg/L				5.1	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-01-07	ANION	Fluoride	0.78	mg/L				0.06	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-01-07	ANION	Nitrate	0.28	mg/L		B		0.042	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-01-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-01-07	ANION	Sulfate	11	mg/L				0.23	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Aluminum	0.056	mg/L		B		0.018	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Aluminum	0.32	mg/L				0.018	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Antimony	0.0038	mg/L		B		0.0031	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Arsenic	0.02	mg/L				0.00033	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Arsenic	0.017	mg/L				0.00033	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Barium	0.062	mg/L				0.00058	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Barium	0.07	mg/L				0.00058	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Cadmium	0.00022	mg/L		B		0.0001	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Calcium	21	mg/L				0.035	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Chromium	0.0014	mg/L		B		0.00066	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Copper	0.0015	mg/L		B		0.0014	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Copper	0.0021	mg/L		B		0.0014	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Iron	0.071	mg/L		B		0.022	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Iron	0.42	mg/L				0.022	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Lead	0.0003	mg/L		B		0.00018	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Magnesium	6.8	mg/L				0.011	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Magnesium	7	mg/L				0.011	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Manganese	0.027	mg/L				0.00025	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Manganese	0.035	mg/L				0.00025	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-03-07	METAL	Molybdenum	0.055	mg/L				0.00014	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Molybdenum	0.037	mg/L				0.00014	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Nickel	0.0041	mg/L		B		0.0013	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Nickel	0.0053	mg/L		B		0.0013	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Sodium	450	mg/L				0.092	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Sodium	460	mg/L				0.092	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Uranium	0.005	mg/L				0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Uranium	0.0045	mg/L				0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Vanadium	0.0011	mg/L		B		0.0011	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Vanadium	0.0016	mg/L		B		0.0011	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-04-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-09-07	RADS	Alpha activity	1.2	pCi/L	2.61	U	U	10.2	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-09-07	RADS	Americium-241	0.0509	pCi/L	0.0179	U	U	0.0569	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-09-07	RADS	Beta activity	5.97	pCi/L	3.36	U	UJ	8.19	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-09-07	RADS	Neptunium-237	0.00615	pCi/L	0.0107	U	U	0.0589	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-09-07	RADS	Plutonium-238	0	pCi/L	0.00682	U	U	0.0369	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-09-07	RADS	Plutonium-239/240	0.0289	pCi/L	0.0127	U	U	0.0368	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-09-07	RADS	Technetium-99	2.16	pCi/L	1.65	U	U	5.47	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-09-07	RADS	Uranium-233/234	4.16	pCi/L	0.192		J	0.0676	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-09-07	RADS	Uranium-235	0.0873	pCi/L	0.0345	U	UJ	0.104	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-09-07	RADS	Uranium-238	1.86	pCi/L	0.128		J	0.0673	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2,4,5-Trichlorophenol	0.55	ug/L		U		0.55	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2,4-Dichlorophenol	0.78	ug/L		U		0.78	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2-Chloronaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2-Methyl-4,6-dinitrophenol	4.9	ug/L		U		4.9	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-05-07	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Benzo(ghi)perylene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Bis(2-ethylhexyl)phthalate	2.5	ug/L		BJ		0.68	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Chrysene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Dibenz(a,h)anthracene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Hexachlorobenzene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Nitrobenzene	0.98	ug/L		U		0.98	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Phenanthrene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-05-07	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Acetone	1.9	ug/L		BJ		1.9	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Benzene	1.1	ug/L				0.16	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	WDMW03-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-01-07	WETCHEM	Alkalinity	380	mg/L				1.1	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-01-07	WETCHEM	Alkalinity as CO3	5.1	mg/L				1.1	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-01-07	WETCHEM	Alkalinity as HCO3	380	mg/L				1.1	WATER	WG	REG	BP	4/11/2012
WD-MW03B	WDMW03-02-07	WETCHEM	Ammonium Nitrogen	2.8	mg/L				0.1	WATER	WG	REG	BP	4/11/2012
WD-MW03B	QW183	ANION	Chloride	470000	ug/L				5100	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW183	ANION	Fluoride	430	ug/L		B		60	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW183	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW183	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW183	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW183	ANION	Sulfate	5600	ug/L				230	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0778	ng/L		J		2.5	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW190	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	HERB	2,4,5-T	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	HERB	2,4-D	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	HERB	2,4-DB	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	HERB	Dalapon	1.42	ug/L		U		1.42	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	HERB	Dicamba	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	HERB	Dichloroprop	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	HERB	Dinoseb	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	HERB	MCPA	12.5	ug/L		U		12.5	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	HERB	MCPP	11.4	ug/L		U		11.4	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	HERB	Silvex	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Aluminum	0.026	mg/L		B		0.018	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Aluminum	0.81	mg/L				0.018	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Antimony	0.0061	mg/L		B		0.002	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Antimony	0.0084	mg/L		B		0.002	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Arsenic	0.014	mg/L		B		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Arsenic	0.015	mg/L		B		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Barium	0.067	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Barium	0.08	mg/L				0.00029	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	QW186	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Calcium	22	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Chromium	0.0041	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Chromium	0.012	mg/L				0.0025	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Cobalt	0.00068	mg/L		B		0.00027	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Cobalt	0.0014	mg/L		B		0.00027	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Copper	0.0037	mg/L		B		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Iron	0.062	mg/L		B		0.022	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Iron	1.8	mg/L				0.022	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Lead	0.0016	mg/L		B		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Lithium	0.052	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Lithium	0.064	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Magnesium	6.6	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Magnesium	7.1	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Manganese	0.036	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Manganese	0.054	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Nickel	0.0089	mg/L		B		0.0015	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Nickel	0.015	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Silver	0.00063	mg/L		B		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Sodium	430	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Sodium	460	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Strontium	0.8	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Strontium	0.92	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Titanium	0.0011	mg/L		B		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Titanium	0.0088	mg/L		B		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Uranium	0.0037	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Uranium	0.0035	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Vanadium	0.0027	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW185	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW186	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	QW187	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Kepone	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Kepone	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	PCB-1016	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	PCB-1221	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	PCB-1232	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	PCB-1242	0.155	ug/L				0.0396	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	PCB-1248	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	PCB-1254	0.154	ug/L				0.0396	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	PCB-1260	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	PCB-1268	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Polychlorinated biphenyl	0.309	ug/L				0.0396	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Americium-241	0.00241	pCi/L	0.00819	U		0.00723	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Neptunium-237	-0.00813	pCi/L	0.0125	U		0.0268	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Plutonium-238	0	pCi/L	0.00987	U		0.0107	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Plutonium-239/240	0.0142	pCi/L	0.0197	U		0.0272	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Technetium-99	0.342	pCi/L	0.485	U		0.823	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Thorium-228	0.152	pCi/L	0.0925			0.129	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Thorium-230	0.2	pCi/L	0.101			0.134	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Thorium-232	0.107	pCi/L	0.0597			0.0543	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Uranium-233/234	3.56	pCi/L	0.387			0.0827	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Uranium-235/236	0.0403	pCi/L	0.053			0.0403	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW189	RADS	Uranium-238	1.42	pCi/L	0.245			0.0326	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	1,2,4-Trichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	1,2,4-Trichlorobenzene	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	1,2-Dichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	1,2-Dichlorobenzene	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	1,3-Dichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	1,3-Dichlorobenzene	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	1,4-Dichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	1,4-Dichlorobenzene	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4,5-Trichlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4,5-Trichlorophenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4,6-Trichlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4,6-Trichlorophenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4-Dichlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4-Dichlorophenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4-Dimethylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4-Dimethylphenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4-Dinitrophenol	5.81	ug/L		U		5.81	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4-Dinitrophenol	5.81	ug/L		JU		5.81	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4-Dinitrotoluene	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,4-Dinitrotoluene	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,6-Dinitrotoluene	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2,6-Dinitrotoluene	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Chloronaphthalene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Chloronaphthalene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	QW187	SVOA	2-Chlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Chlorophenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Methyl-4,6-dinitrophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Methyl-4,6-dinitrophenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Methylnaphthalene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Methylnaphthalene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Methylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Methylphenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Nitrobenzenamine	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Nitrobenzenamine	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Nitrophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	2-Nitrophenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	3,3'-Dichlorobenzidine	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	3,3'-Dichlorobenzidine	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	3-Nitrobenzenamine	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	3-Nitrobenzenamine	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Aminobiphenyl	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Aminobiphenyl	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Bromophenyl phenyl ether	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Bromophenyl phenyl ether	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Chloro-3-methylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Chloro-3-methylphenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Chlorobenzenamine	3.84	ug/L		U		3.84	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Chlorobenzenamine	3.84	ug/L		JU		3.84	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Chlorophenyl phenyl ether	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Chlorophenyl phenyl ether	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Nitrobenzenamine	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Nitrobenzenamine	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Nitrophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	4-Nitrophenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Acenaphthene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Acenaphthene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Acenaphthylene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Acenaphthylene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Acetophenone	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Acetophenone	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Anthracene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Anthracene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benz(a)anthracene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benz(a)anthracene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzenemethanol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzenemethanol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzo(a)pyrene	0.512	ug/L		U		0.512	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzo(a)pyrene	0.512	ug/L		JU		0.512	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzo(b)fluoranthene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzo(b)fluoranthene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzo(ghi)perylene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzo(ghi)perylene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzo(k)fluoranthene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzo(k)fluoranthene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzoic acid	6.98	ug/L		U		6.98	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Benzoic acid	6.98	ug/L		JU		6.98	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Bis(2-chloroethoxy)methane	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Bis(2-chloroethoxy)methane	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Bis(2-chloroethyl) ether	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Bis(2-chloroethyl) ether	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	bis(2-Chloroisopropyl)ether	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	bis(2-Chloroisopropyl)ether	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Bis(2-ethylhexyl)phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Bis(2-ethylhexyl)phthalate	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	QW187	SVOA	Butyl benzyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Butyl benzyl phthalate	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Chrysene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Chrysene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Dibenz(a,h)anthracene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Dibenz(a,h)anthracene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Dibenzofuran	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Dibenzofuran	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Diethyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Diethyl phthalate	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Dimethyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Dimethyl phthalate	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Di-n-butyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Di-n-butyl phthalate	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Di-n-octylphthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Di-n-octylphthalate	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Diphenylamine	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Diphenylamine	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Fluoranthene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Fluoranthene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Fluorene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Fluorene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Hexachlorobutadiene	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Hexachlorobutadiene	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Hexachlorocyclopentadiene	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Hexachlorocyclopentadiene	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Hexachloroethane	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Hexachloroethane	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Indeno(1,2,3-cd)pyrene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Indeno(1,2,3-cd)pyrene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Isophorone	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Isophorone	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	m+p Methylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	m+p Methylphenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Naphthalene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Naphthalene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Nitrobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Nitrobenzene	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	N-Nitrosodimethylamine	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	N-Nitrosodimethylamine	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	N-Nitroso-di-n-propylamine	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	N-Nitroso-di-n-propylamine	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	N-Nitrosomorpholine	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	N-Nitrosomorpholine	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	O,O,O-Triethylphosphorothioate	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	O,O,O-Triethylphosphorothioate	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Pentachlorophenol	0.0568	ug/L		U		0.0568	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Phenanthrene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Phenanthrene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Phenol	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Phenol	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Pyrene	0.349	ug/L		U		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Pyrene	0.349	ug/L		JU		0.349	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Pyridine	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	SVOA	Pyridine	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/26/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	QW188	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	VOA	1,4-Dioxane	3.49	ug/L		U		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW187	VOA	1,4-Dioxane	3.49	ug/L		JU		3.49	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Acetone	5.5	ug/L		J		1.9	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW188	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW183	WETCHEM	Alkalinity	390	mg/L				1.1	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW183	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW183	WETCHEM	Alkalinity as HCO3	390	mg/L				1.1	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW184	WETCHEM	Ammonium Nitrogen	2.8	mg/L				0.1	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW229	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW233	WETCHEM	Chromium, hexavalent	0.0086	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW191	WETCHEM	Cyanide	0.0083	mg/L		B		0.002	WATER	WG	REG	BAI	9/26/2012
WD-MW03B	QW548	ANION	Chloride	490000	ug/L				5100	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW548	ANION	Fluoride	420	ug/L		B		60	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW548	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW548	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW548	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW548	ANION	Sulfate	6400	ug/L				230	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	QW555	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.113	ng/L		J		2.5	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW555	DI/FURA	Octachlorodibenzofuran	0.0503	ng/L		J		2.5	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	2,4,5-T	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	2,4,5-T	0.112	ug/L		JU		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	2,4-D	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	2,4-D	0.112	ug/L		JU		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	2,4-DB	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	2,4-DB	0.112	ug/L		JU		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	Dalapon	1.56	ug/L		U		1.56	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	Dalapon	1.69	ug/L		JU		1.69	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	Dicamba	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	Dicamba	0.112	ug/L		JU		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	Dichloroprop	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	Dichloroprop	0.112	ug/L		JU		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	Dinoseb	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	Dinoseb	0.112	ug/L		JU		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	MCPA	13.8	ug/L		U		13.8	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	MCPA	14.9	ug/L		JU		14.9	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	MCPP	12.5	ug/L		U		12.5	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	MCPP	13.5	ug/L		JU		13.5	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	Silvex	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	HERB	Silvex	0.112	ug/L		JU		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Aluminum	0.16	mg/L				0.018	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Antimony	0.0044	mg/L				0.0004	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Barium	0.071	mg/L				0.00029	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Calcium	18	mg/L				0.035	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Chromium	0.003	mg/L				0.0005	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Cobalt	0.00083	mg/L		B		0.000054	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Copper	0.0021	mg/L				0.00056	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Iron	0.44	mg/L				0.022	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Lead	0.00079	mg/L		B		0.00018	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Lithium	0.05	mg/L				0.0026	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Magnesium	6.3	mg/L				0.011	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Manganese	0.045	mg/L				0.00031	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Nickel	0.0082	mg/L				0.0003	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Silver	0.00072	mg/L		B		0.000033	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Sodium	390	mg/L				0.092	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Strontium	0.8	mg/L				0.0003	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Thallium	0.000075	mg/L		B		0.00005	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	QW551	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Uranium	0.0037	mg/L				0.00005	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Vanadium	0.0024	mg/L		B		0.0005	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW551	METAL	Zinc	0.0065	mg/L		B		0.002	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	2,4'-DDD	0.0051	ug/L		U		0.0051	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	2,4'-DDE	0.00612	ug/L		U		0.00612	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	2,4'-DDT	0.0051	ug/L		U		0.0051	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	4,4'-DDD	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	4,4'-DDE	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	4,4'-DDT	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Aldrin	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	alpha-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	alpha-Chlordane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	beta-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Chlordane	0.0781	ug/L		U		0.0781	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	delta-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Dieldrin	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Endosulfan I	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Endosulfan II	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Endosulfan sulfate	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Endrin	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Endrin aldehyde	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Endrin ketone	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	gamma-Chlordane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Heptachlor	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Heptachlor epoxide	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Lindane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Methoxychlor	0.051	ug/L		U		0.051	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	PCB-1016	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	PCB-1221	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	PCB-1232	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	PCB-1242	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	PCB-1248	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	PCB-1254	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	PCB-1260	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	PCB-1268	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Polychlorinated biphenyl	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	PPCB	Toxaphene	0.153	ug/L		U		0.153	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	QW552	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Hexachlorobenzene	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Pentachlorophenol	0.0625	ug/L		U		0.0625	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Pentachlorophenol	0.0676	ug/L		JU		0.0676	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	QW553	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW552	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Acetone	4.1	ug/L		J		1.9	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW553	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW548	WETCHEM	Alkalinity	380	mg/L				1.1	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW548	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW548	WETCHEM	Alkalinity as HCO3	380	mg/L				1.1	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW549	WETCHEM	Ammonium Nitrogen	2.7	mg/L				0.1	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW558	WETCHEM	Chromium, hexavalent	0.027	mg/L		J		0.004	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW556	WETCHEM	Cyanide	0.0023	mg/L		B		0.002	WATER	WG	REG	BP	12/4/2012
WD-MW03B	QW550	METAL	Aluminum	0.037	mg/L		B		0.018	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Antimony	0.0065	mg/L				0.0004	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Arsenic	0.013	mg/L				0.00033	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Barium	0.078	mg/L				0.00029	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Calcium	17	mg/L				0.035	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Cobalt	0.0004	mg/L		B		0.000054	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Iron	0.031	mg/L		B		0.022	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Lithium	0.06	mg/L				0.0026	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Magnesium	5.8	mg/L				0.011	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	QW550	METAL	Manganese	0.023	mg/L				0.00031	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Nickel	0.005	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Potassium	10	mg/L				0.24	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Sodium	370	mg/L				0.092	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Strontium	0.76	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Thallium	0.00013	mg/L		B		0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Uranium	0.0034	mg/L				0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Vanadium	0.0018	mg/L		B		0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW550	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Americium-241	0.00451	pCi/L	0.0108	U		0.0173	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Neptunium-237	-0.00772	pCi/L	0.0208	U		0.0436	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Plutonium-238	0	pCi/L	0.00977	U		0.0195	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Plutonium-239/240	0.00611	pCi/L	0.0132	U		0.0225	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Technetium-99	-0.184	pCi/L	0.348	U		0.611	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Thorium-228	0.00676	pCi/L	0.0159	U		0.028	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Thorium-230	0.0162	pCi/L	0.0181	U		0.0289	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Thorium-232	0.00465	pCi/L	0.0101	U		0.0168	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Uranium-233/234	2.63	pCi/L	0.235			0.0584	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Uranium-235/236	0.0669	pCi/L	0.0469			0.0472	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW554	RADS	Uranium-238	0.907	pCi/L	0.138			0.0318	WATER	WG	REG	BP	12/5/2012
WD-MW03B	QW557	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	12/5/2012
WD-MW03B	DC734	ANION	Chloride	480	mg/L				5.1	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC734	ANION	Fluoride	0.36	mg/L		B		0.06	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC734	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC734	ANION	Nitrite as Nitrogen	0.049	mg/L		U		0.049	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC734	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC734	ANION	Sulfate	4.1	mg/L		B		0.23	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00405	ng/L		U		0.00405	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00405	ng/L		U		0.00405	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0405	ng/L		U		0.0405	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC741	DI/FURA	Octachlorodibenzofuran	0.0405	ng/L		U		0.0405	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	HERB	2,4,5-T	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	HERB	2,4-D	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	HERB	2,4-DB	0.106	ug/L		U		0.106	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	HERB	Dalapon	1.33	ug/L		U		1.33	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	HERB	Dicamba	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	HERB	Dichloroprop	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	HERB	Dinoseb	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	HERB	MCPA	11.7	ug/L		U		11.7	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	HERB	MCPP	10.6	ug/L		U		10.6	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	HERB	Silvex	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Aluminum	0.26	mg/L				0.018	WATER	WG	REG	BP	6/18/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	DC737	METAL	Aluminum	0.57	mg/L				0.018	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Antimony	0.0047	mg/L				0.0004	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Antimony	0.0032	mg/L				0.0004	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Barium	0.082	mg/L				0.00029	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Barium	0.084	mg/L				0.00029	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Calcium	21	mg/L				0.035	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Chromium	0.0017	mg/L		B		0.0005	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Chromium	0.0022	mg/L				0.0005	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Cobalt	0.00076	mg/L		B		0.000054	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Cobalt	0.004	mg/L				0.000054	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Copper	0.0018	mg/L		B		0.00056	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Copper	0.0014	mg/L		B		0.00056	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Iron	0.49	mg/L				0.022	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Iron	0.71	mg/L				0.022	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Lead	0.00056	mg/L		B		0.00018	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Lead	0.00057	mg/L		B		0.00018	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Lithium	0.058	mg/L				0.0026	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Lithium	0.056	mg/L				0.0026	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Magnesium	6.2	mg/L				0.011	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Magnesium	6.1	mg/L				0.011	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Manganese	0.054	mg/L				0.00031	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Manganese	0.054	mg/L				0.00031	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Nickel	0.0093	mg/L				0.0003	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Nickel	0.011	mg/L				0.0003	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Silver	0.00055	mg/L		B		0.000033	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Silver	0.00045	mg/L		B		0.000033	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Sodium	460	mg/L				0.092	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Sodium	440	mg/L				0.092	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Strontium	0.86	mg/L				0.0003	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Strontium	0.85	mg/L				0.0003	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Thallium	0.000092	mg/L		B		0.00005	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Thallium	0.000067	mg/L		B		0.00005	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Titanium	0.0032	mg/L		B		0.0006	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Titanium	0.013	mg/L				0.0006	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Uranium	0.0032	mg/L				0.00005	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Uranium	0.0027	mg/L				0.00005	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Vanadium	0.0026	mg/L		B		0.0005	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Vanadium	0.0024	mg/L		B		0.0005	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC736	METAL	Zinc	0.003	mg/L		B		0.002	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC737	METAL	Zinc	0.0031	mg/L		B		0.002	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	2,4'-DDD	0.00633	ug/L		U		0.00633	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	2,4'-DDE	0.00759	ug/L		U		0.00759	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	2,4'-DDT	0.00633	ug/L		U		0.00633	WATER	WG	REG	BP	6/18/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	DC740	PPCB	4,4'-DDD	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	4,4'-DDE	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	4,4'-DDT	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Aldrin	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	alpha-BHC	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	alpha-Chlordane	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	beta-BHC	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Chlordane	0.0968	ug/L		U		0.0968	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	delta-BHC	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Dieldrin	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Endosulfan I	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Endosulfan II	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Endosulfan sulfate	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Endrin	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Endrin aldehyde	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Endrin ketone	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	gamma-Chlordane	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Heptachlor	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Heptachlor epoxide	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Lindane	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Methoxychlor	0.0633	ug/L		U		0.0633	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	PCB-1016	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	PCB-1221	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	PCB-1232	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	PCB-1242	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	PCB-1248	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	PCB-1254	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	PCB-1260	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	PCB-1268	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Polychlorinated biphenyl	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	PPCB	Toxaphene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Americium-241	0.0102	pCi/L	0.0245	U		0.039	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Neptunium-237	0.0307	pCi/L	0.0344	U		0.045	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Plutonium-238	0.00302	pCi/L	0.0178	U		0.0334	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Plutonium-239/240	-0.00604	pCi/L	0.0167	U		0.0372	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Technetium-99	-0.0575	pCi/L	0.378	U		0.668	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Thorium-228	0.0675	pCi/L	0.039			0.0464	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Thorium-230	0.1	pCi/L	0.042			0.0373	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Thorium-232	0.0837	pCi/L	0.0413			0.0455	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Uranium-233/234	2.87	pCi/L	0.193			0.048	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Uranium-235/236	0.0535	pCi/L	0.0333			0.0315	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC744	RADS	Uranium-238	0.913	pCi/L	0.11			0.0368	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2-Chloronaphthalene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	DC740	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Benzo(a)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Bis(2-chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Di-n-butyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Hexachlorobenzene	0.00791	ug/L		U		0.00791	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Isophorone	3.5	ug/L		U		3.5	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	m,p-cresol	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Pentachlorophenol	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Phenol	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/18/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW03B	DC743	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC740	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC743	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC734	WETCHEM	Alkalinity	370	mg/L				1.1	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC734	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC734	WETCHEM	Alkalinity as HCO3	370	mg/L				1.1	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC735	WETCHEM	Ammonia	2.7	mg/L				0.022	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC735	WETCHEM	Ammonium Nitrogen	2.7	mg/L				0.1	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC738	WETCHEM	Chromium, hexavalent	0.011	mg/L		B		0.004	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC739	WETCHEM	Chromium, hexavalent	0.021	mg/L				0.004	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC742	WETCHEM	Cyanide	0.0034	mg/L		B		0.002	WATER	WG	REG	BP	6/18/2013
WD-MW03B	DC734	WETCHEM	Dissolved Solids	1100	mg/L		J		9.4	WATER	WG	REG	BP	6/18/2013
WD-MW04B	WDMW04-01-02	ANION	Chloride	350	mg/L			XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-01-02	ANION	Fluoride	0.67	mg/L			XV	0.06	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-01-02	ANION	Nitrate	0.042	mg/L		JU	XV	0.042	WATER	WG	REG	BP	12/7/2011

Table A.3. PORTS Groundwater Data

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WD-MW04B	WDMW04-01-02	ANION	Orthophosphate	0.19	mg/L		JU	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-01-02	ANION	Sulfate	41	mg/L			XV	0.23	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Aluminum	0.095	mg/L		B	XV	0.018	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Aluminum	3.1	mg/L			XV	0.018	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Antimony	0.0033	mg/L		B	XV	0.0031	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Arsenic	0.017	mg/L			XV	0.00033	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Arsenic	0.016	mg/L			XV	0.00033	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Barium	0.039	mg/L			XV	0.00058	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Barium	0.045	mg/L			XV	0.00058	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Cadmium	0.00013	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Cadmium	0.000096	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Calcium	24	mg/L			XV	0.035	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Calcium	20	mg/L			XV	0.035	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Chromium	0.0051	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Cobalt	0.003	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Copper	0.0053	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Iron	0.14	mg/L			XV	0.022	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Iron	2.5	mg/L			XV	0.022	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Lead	0.0014	mg/L			XV	0.00018	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Magnesium	8.1	mg/L			XV	0.011	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Magnesium	8.2	mg/L			XV	0.011	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Manganese	0.089	mg/L			XV	0.00025	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Manganese	0.1	mg/L			XV	0.00025	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Molybdenum	0.063	mg/L			XV	0.00014	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Molybdenum	0.18	mg/L			XV	0.00014	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Nickel	0.0024	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Nickel	0.0082	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Potassium	13	mg/L			XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Potassium	13	mg/L			XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Selenium	0.00086	mg/L		B	XV	0.0007	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Sodium	460	mg/L			XV	0.092	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Sodium	360	mg/L			XV	0.092	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Thallium	0.000047	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Thallium	0.00014	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Uranium	0.0057	mg/L			XV	0.00002	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Uranium	0.0045	mg/L			XV	0.00002	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Vanadium	0.019	mg/L			XV	0.0011	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-03-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-04-02	METAL	Zinc	0.014	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	PPCB	PCB-1016	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	PPCB	PCB-1221	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	PPCB	PCB-1232	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	PPCB	PCB-1242	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	PPCB	PCB-1248	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	PPCB	PCB-1254	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	PPCB	PCB-1260	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	PPCB	Polychlorinated biphenyl	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/7/2011

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WD-MW04B	WDMW04-09-02	RADS	Alpha activity	1.37	pCi/L	1.63	U	XV	11.3	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-09-02	RADS	Americium-241	0.0354	pCi/L	0.0133	U	XV	0.0338	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-09-02	RADS	Beta activity	7.29	pCi/L	0.943			3.48	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-09-02	RADS	Neptunium-237	-0.0277	pCi/L	0.0173	U	XV	0.11	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-09-02	RADS	Plutonium-238	0.00536	pCi/L	0.012	U		0.0659	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-09-02	RADS	Plutonium-239/240	0.0268	pCi/L	0.0131	U		0.041	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-09-02	RADS	Technetium-99	-1.5	pCi/L	1.63	U	XV	5.54	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-09-02	RADS	Uranium-233/234	5.51	pCi/L	0.163			0.0367	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-09-02	RADS	Uranium-235	0.113	pCi/L	0.0265	J		0.0453	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-09-02	RADS	Uranium-238	2.56	pCi/L	0.111			0.0366	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	1,2,4-Trichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	1,2-Dichlorobenzene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	1,3-Dichlorobenzene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	1,4-Dichlorobenzene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2,4,5-Trichlorophenol	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2,4,6-Trichlorophenol	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2,4-Dichlorophenol	0.84	ug/L		U	XV	0.84	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2,4-Dimethylphenol	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2,4-Dinitrophenol	13	ug/L		U	XV	13	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2,4-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2,6-Dinitrotoluene	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2-Chloronaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2-Chlorophenol	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2-Methyl-4,6-dinitrophenol	5.2	ug/L		U	XV	5.2	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2-Methylnaphthalene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2-Methylphenol	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	2-Nitrophenol	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	3-Nitrobenzenamine	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	4-Bromophenyl phenyl ether	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	4-Chloro-3-methylphenol	3.2	ug/L		U	XV	3.2	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	4-Chlorophenyl phenyl ether	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	4-Methylphenol	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	4-Nitrobenzenamine	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	4-Nitrophenol	1.6	ug/L		U	XV	1.6	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Acenaphthene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Acenaphthylene	0.64	ug/L		U	XV	0.64	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Anthracene	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Benz(a)anthracene	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Benzo(a)pyrene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Benzo(b)fluoranthene	0.7	ug/L		U	XV	0.7	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Benzo(ghi)perylene	0.65	ug/L		U	XV	0.65	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Benzo(k)fluoranthene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Benzoic acid	13	ug/L		U	XV	13	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Bis(2-chloroethoxy)methane	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.73	ug/L		U	XV	0.73	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Butyl benzyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Chrysene	0.71	ug/L		U	XV	0.71	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Dibenz(a,h)anthracene	0.67	ug/L		U	XV	0.67	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Dibenzofuran	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Diethyl phthalate	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Dimethyl phthalate	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Di-n-butyl phthalate	1.5	ug/L		U	XV	1.5	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Di-n-octylphthalate	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Fluoranthene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Fluorene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Hexachlorobenzene	0.86	ug/L		U	XV	0.86	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Hexachlorobutadiene	4.3	ug/L		U	XV	4.3	WATER	WG	REG	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-05-02	SVOA	Hexachlorocyclopentadiene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Hexachloroethane	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.85	ug/L		U	XV	0.85	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Isophorone	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Naphthalene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Nitrobenzene	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	N-Nitroso-di-n-propylamine	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	N-Nitrosodiphenylamine	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Pentachlorophenol	26	ug/L		U	XV	26	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Phenanthrene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Phenol	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-05-02	SVOA	Pyrene	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	1,2-Dimethylbenzene	0.53	ug/L		J	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Acetone	12	ug/L			XV	1.9	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Benzene	2.4	ug/L			XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Chloroform	0.24	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Ethylbenzene	0.17	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	M + P Xylene	0.59	ug/L		J	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Methylene chloride	0.65	ug/L		J	XV	0.32	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Toluene	1	ug/L			XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-01-02	WETCHEM	Alkalinity	330	mg/L			XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-01-02	WETCHEM	Alkalinity as CO3	4.3	mg/L		B	XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-01-02	WETCHEM	Alkalinity as HCO3	330	mg/L			XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-02-02	WETCHEM	Ammonium Nitrogen	2.8	mg/L			XV	0.1	WATER	WG	REG	BP	12/7/2011
WD-MW04B	WDMW04-19-02	ANION	Chloride	350	mg/L			XV	2.5	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-19-02	ANION	Fluoride	0.67	mg/L			XV	0.06	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-19-02	ANION	Nitrate	0.042	mg/L		JU	XV	0.042	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-19-02	ANION	Orthophosphate	0.19	mg/L		JU	XV	0.19	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-19-02	ANION	Sulfate	42	mg/L			XV	0.23	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Aluminum	0.24	mg/L			XV	0.018	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Aluminum	3.2	mg/L			XV	0.018	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Antimony	0.0033	mg/L		B	XV	0.0031	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Antimony	0.0038	mg/L		B	XV	0.0031	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Arsenic	0.016	mg/L			XV	0.00033	WATER	WG	FR	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-22-02	METAL	Arsenic	0.016	mg/L			XV	0.00033	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Barium	0.039	mg/L			XV	0.00058	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Barium	0.046	mg/L			XV	0.00058	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Cadmium	0.0001	mg/L		B	XV	0.00004	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Calcium	23	mg/L			XV	0.035	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Calcium	20	mg/L			XV	0.035	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Chromium	0.005	mg/L		B	XV	0.00066	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Cobalt	0.0046	mg/L		B	XV	0.0012	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Cobalt	0.0029	mg/L		B	XV	0.0012	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Copper	0.0014	mg/L		B	XV	0.0014	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Copper	0.0048	mg/L		B	XV	0.0014	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Iron	0.2	mg/L			XV	0.022	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Iron	2.3	mg/L			XV	0.022	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Lead	0.0013	mg/L			XV	0.00018	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Magnesium	8	mg/L			XV	0.011	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Magnesium	8.2	mg/L			XV	0.011	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Manganese	0.11	mg/L			XV	0.00025	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Manganese	0.1	mg/L			XV	0.00025	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Molybdenum	0.079	mg/L			XV	0.00014	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Molybdenum	0.17	mg/L			XV	0.00014	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Nickel	0.003	mg/L		B	XV	0.0013	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Nickel	0.0075	mg/L		B	XV	0.0013	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Potassium	13	mg/L			XV	0.24	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Potassium	13	mg/L			XV	0.24	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Selenium	0.00088	mg/L		B	XV	0.0007	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Sodium	440	mg/L			XV	0.092	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Sodium	360	mg/L			XV	0.092	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Thallium	0.00013	mg/L		B	XV	0.000033	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Uranium	0.0066	mg/L			XV	0.00002	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Uranium	0.0044	mg/L			XV	0.00002	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Vanadium	0.0021	mg/L		B	XV	0.0011	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Vanadium	0.018	mg/L			XV	0.0011	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-21-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-22-02	METAL	Zinc	0.011	mg/L		B	XV	0.0045	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	PPCB	PCB-1221	0.26	ug/L		U	XV	0.26	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	PPCB	PCB-1232	0.2	ug/L		U	XV	0.2	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	PPCB	Polychlorinated biphenyl	0.1	ug/L		U	XV	0.1	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-27-02	RADS	Alpha activity	9.03	pCi/L	2.42	U	XV	11.7	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-27-02	RADS	Americium-241	0.051	pCi/L	0.0179	U	XV	0.0433	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-27-02	RADS	Beta activity	8.1	pCi/L	1.02			3.49	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-27-02	RADS	Neptunium-237	-0.00412	pCi/L	0.00582	U	XV	0.0394	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-27-02	RADS	Plutonium-238	0.0121	pCi/L	0.0171	U		0.087	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-27-02	RADS	Plutonium-239/240	0.0362	pCi/L	0.016	U		0.0462	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-27-02	RADS	Technetium-99	2.81	pCi/L	1.68	U	XV	5.52	WATER	WG	FR	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-27-02	RADS	Uranium-233/234	3.81	pCi/L	0.134			0.036	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-27-02	RADS	Uranium-235	0.0639	pCi/L	0.021	U		0.0557	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-27-02	RADS	Uranium-238	1.77	pCi/L	0.0912			0.0359	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U	XV	0.29	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	1,3-Dichlorobenzene	0.38	ug/L		U	XV	0.38	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U	XV	0.4	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2,4,5-Trichlorophenol	0.57	ug/L		U	XV	0.57	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U	XV	0.37	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2,4-Dichlorophenol	0.81	ug/L		U	XV	0.81	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2,4-Dimethylphenol	0.73	ug/L		U	XV	0.73	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2,4-Dinitrophenol	13	ug/L		U	XV	13	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U	XV	2.1	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U	XV	2.4	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2-Chloronaphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2-Chlorophenol	2.5	ug/L		U	XV	2.5	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2-Methyl-4,6-dinitrophenol	5.1	ug/L		U	XV	5.1	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2-Methylnaphthalene	0.37	ug/L		U	XV	0.37	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2-Nitrobenzenamine	2.2	ug/L		U	XV	2.2	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	2-Nitrophenol	0.49	ug/L		U	XV	0.49	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U	XV	2.5	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	3-Nitrobenzenamine	2.5	ug/L		U	XV	2.5	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	4-Bromophenyl phenyl ether	0.54	ug/L		U	XV	0.54	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	4-Chloro-3-methylphenol	3	ug/L		U	XV	3	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U	XV	2.1	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	4-Methylphenol	0.32	ug/L		U	XV	0.32	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	4-Nitrobenzenamine	2.5	ug/L		U	XV	2.5	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	4-Nitrophenol	1.6	ug/L		U	XV	1.6	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Acenaphthene	0.35	ug/L		U	XV	0.35	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Acenaphthylene	0.62	ug/L		U	XV	0.62	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Anthracene	0.53	ug/L		U	XV	0.53	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Benz(a)anthracene	0.44	ug/L		U	XV	0.44	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Benzo(a)pyrene	0.39	ug/L		U	XV	0.39	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Benzo(b)fluoranthene	0.67	ug/L		U	XV	0.67	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Benzo(ghi)perylene	0.63	ug/L		U	XV	0.63	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Benzo(k)fluoranthene	0.58	ug/L		U	XV	0.58	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Benzoic acid	13	ug/L		U	XV	13	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U	XV	1.2	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U	XV	0.35	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Bis(2-ethylhexyl)phthalate	0.71	ug/L		U	XV	0.71	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Butyl benzyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Chrysene	0.68	ug/L		U	XV	0.68	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Dibenz(a,h)anthracene	0.65	ug/L		U	XV	0.65	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Dibenzofuran	0.37	ug/L		U	XV	0.37	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Diethyl phthalate	0.48	ug/L		U	XV	0.48	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Dimethyl phthalate	0.27	ug/L		U	XV	0.27	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Di-n-butyl phthalate	1.5	ug/L		U	XV	1.5	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Di-n-octylphthalate	0.44	ug/L		U	XV	0.44	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Fluoranthene	0.25	ug/L		U	XV	0.25	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Fluorene	0.39	ug/L		U	XV	0.39	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Hexachlorobenzene	0.83	ug/L		U	XV	0.83	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Hexachlorobutadiene	4.2	ug/L		U	XV	4.2	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U	XV	1.9	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Hexachloroethane	2.7	ug/L		U	XV	2.7	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Indeno(1,2,3-cd)pyrene	0.82	ug/L		U	XV	0.82	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Isophorone	0.27	ug/L		U	XV	0.27	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Naphthalene	0.37	ug/L		U	XV	0.37	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Nitrobenzene	1	ug/L		U	XV	1	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	N-Nitroso-di-n-propylamine	0.44	ug/L		U	XV	0.44	WATER	WG	FR	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-23-02	SVOA	N-Nitrosodiphenylamine	0.56	ug/L		U	XV	0.56	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Pentachlorophenol	25	ug/L		U	XV	25	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Phenanthrene	0.33	ug/L		U	XV	0.33	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Phenol	2.5	ug/L		U	XV	2.5	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-23-02	SVOA	Pyrene	0.47	ug/L		U	XV	0.47	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	1,2-Dimethylbenzene	0.53	ug/L		J	XV	0.19	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Acetone	22	ug/L			XV	1.9	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-26-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Benzene	2.1	ug/L			XV	0.16	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Chloroform	0.27	ug/L		J	XV	0.16	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Ethylbenzene	0.17	ug/L		J	XV	0.16	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	M + P Xylene	0.63	ug/L		J	XV	0.34	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Methylene chloride	0.64	ug/L		BJ	XV	0.32	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-25-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Toluene	1.1	ug/L			XV	0.17	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-24-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-25-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-19-02	WETCHEM	Alkalinity	330	mg/L			XV	1.1	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-19-02	WETCHEM	Alkalinity as CO3	9.8	mg/L			XV	1.1	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-19-02	WETCHEM	Alkalinity as HCO3	320	mg/L			XV	1.1	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-20-02	WETCHEM	Ammonium Nitrogen	2.5	mg/L			XV	0.1	WATER	WG	FR	BP	12/7/2011
WD-MW04B	WDMW04-01-03	ANION	Chloride	390	mg/L			XV	2.5	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-01-03	ANION	Fluoride	0.83	mg/L			XV	0.06	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-01-03	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-01-03	ANION	Sulfate	31	mg/L			XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Aluminum	0.19	mg/L			XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Aluminum	3.1	mg/L			XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Antimony	0.0037	mg/L		B	XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Antimony	0.0063	mg/L		B	XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Arsenic	0.016	mg/L			XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Arsenic	0.017	mg/L			XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Barium	0.036	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Barium	0.055	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-03-03	METAL	Calcium	20	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Calcium	23	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Chromium	0.0044	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Cobalt	0.0041	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Cobalt	0.0023	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Copper	0.0038	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Iron	0.13	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Iron	1.7	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Lead	0.00067	mg/L		B	XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Magnesium	7.3	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Magnesium	9	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Manganese	0.079	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Manganese	0.12	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Molybdenum	0.16	mg/L			XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Molybdenum	0.12	mg/L			XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Nickel	0.0093	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Nickel	0.024	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Potassium	13	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Potassium	13	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Selenium	0.0011	mg/L		B	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Silver	0.0016	mg/L		B	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Sodium	360	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Sodium	390	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Thallium	0.00013	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Thallium	0.00012	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Uranium	0.0042	mg/L			XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Uranium	0.004	mg/L			XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Vanadium	0.0035	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Vanadium	0.015	mg/L			XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-03-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-04-03	METAL	Zinc	0.0075	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	PPCB	PCB-1221	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	PPCB	PCB-1248	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	PPCB	PCB-1260	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	PPCB	Polychlorinated biphenyl	0.097	ug/L		U	XV	0.097	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-09-03	RADS	Alpha activity	0.263	pCi/L	2.03	U		16	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-09-03	RADS	Americium-241	0.00965	pCi/L	0.0136	U		0.0694	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-09-03	RADS	Beta activity	26.8	pCi/L	3.54			14	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-09-03	RADS	Neptunium-237	-0.0184	pCi/L	0.0184	U		0.11	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-09-03	RADS	Plutonium-238	0	pCi/L	0.00797	U		0.0431	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-09-03	RADS	Plutonium-239/240	0.0338	pCi/L	0.0149	U		0.043	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-09-03	RADS	Technetium-99	1.4	pCi/L	1.66	U	XV	5.52	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-09-03	RADS	Uranium-233/234	3.31	pCi/L	0.119			0.0328	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-09-03	RADS	Uranium-235	0.0687	pCi/L	0.0198	J		0.0405	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-09-03	RADS	Uranium-238	1.56	pCi/L	0.0817			0.0327	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-05-03	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2,4-Dichlorophenol	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2,4-Dimethylphenol	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U	XV	4.7	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2-Methylnaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	2-Nitrophenol	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Acenaphthene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Acenaphthylene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Anthracene	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Benz(a)anthracene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Benzo(a)pyrene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Benzo(ghi)perylene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Benzoic acid	41	ug/L			XV	12	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Chrysene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Dibenzofuran	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Diethyl phthalate	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Dimethyl phthalate	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Di-n-octylphthalate	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Fluorene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Hexachlorobenzene	0.77	ug/L		U	XV	0.77	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Hexachlorobutadiene	3.9	ug/L		U	XV	3.9	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Hexachloroethane	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Isophorone	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Naphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Nitrobenzene	0.95	ug/L		U	XV	0.95	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-05-03	SVOA	Pyrene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Benzene	0.35	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Methylene chloride	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-01-03	WETCHEM	Alkalinity	360	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-01-03	WETCHEM	Alkalinity as CO3	4.2	mg/L		B	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-01-03	WETCHEM	Alkalinity as HCO3	360	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-02-03	WETCHEM	Ammonium Nitrogen	1.9	mg/L				0.1	WATER	WG	REG	BP	12/14/2011
WD-MW04B	WDMW04-19-03	ANION	Chloride	390	mg/L			XV	2.5	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-19-03	ANION	Fluoride	0.82	mg/L			XV	0.06	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-19-03	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-19-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-19-03	ANION	Sulfate	30	mg/L			XV	0.23	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Aluminum	0.12	mg/L			XV	0.018	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Aluminum	3.3	mg/L			XV	0.018	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Antimony	0.0048	mg/L		B	XV	0.0031	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Antimony	0.0046	mg/L		B	XV	0.0031	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Arsenic	0.017	mg/L			XV	0.00033	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Arsenic	0.017	mg/L			XV	0.00033	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Barium	0.035	mg/L			XV	0.00058	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Barium	0.055	mg/L			XV	0.00058	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Cadmium	0.000054	mg/L		B	XV	0.00004	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Calcium	20	mg/L			XV	0.035	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Calcium	23	mg/L			XV	0.035	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Chromium	0.0049	mg/L		B	XV	0.00066	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Cobalt	0.0014	mg/L		B	XV	0.0012	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Cobalt	0.0022	mg/L		B	XV	0.0012	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	FR	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-22-03	METAL	Copper	0.0037	mg/L		B	XV	0.0014	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Iron	0.086	mg/L		B	XV	0.022	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Iron	1.7	mg/L			XV	0.022	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Lead	0.00068	mg/L		B	XV	0.00018	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Magnesium	7.3	mg/L			XV	0.011	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Magnesium	9	mg/L			XV	0.011	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Manganese	0.077	mg/L			XV	0.00025	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Manganese	0.12	mg/L			XV	0.00025	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Molybdenum	0.15	mg/L			XV	0.00014	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Molybdenum	0.12	mg/L			XV	0.00014	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Nickel	0.0077	mg/L		B	XV	0.0013	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Nickel	0.024	mg/L		B	XV	0.0013	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Potassium	13	mg/L			XV	0.24	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Potassium	13	mg/L			XV	0.24	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Sodium	370	mg/L			XV	0.092	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Sodium	390	mg/L			XV	0.092	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Thallium	0.000092	mg/L		B	XV	0.000033	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Thallium	0.00019	mg/L		B	XV	0.000033	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Uranium	0.0041	mg/L			XV	0.00002	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Uranium	0.0043	mg/L			XV	0.00002	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Vanadium	0.0022	mg/L		B	XV	0.0011	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Vanadium	0.016	mg/L			XV	0.0011	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-21-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-22-03	METAL	Zinc	0.0068	mg/L		B	XV	0.0045	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	PPCB	PCB-1221	0.24	ug/L		U	XV	0.24	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	PPCB	PCB-1248	0.1	ug/L		U	XV	0.1	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	PPCB	PCB-1260	0.18	ug/L		U	XV	0.18	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	PPCB	Polychlorinated biphenyl	0.095	ug/L		U	XV	0.095	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-27-03	RADS	Alpha activity	11.8	pCi/L	3.2	U		15.6	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-27-03	RADS	Americium-241	0.0494	pCi/L	0.0171	U		0.0473	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-27-03	RADS	Beta activity	6.57	pCi/L	2.76	U		14	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-27-03	RADS	Neptunium-237	0.0138	pCi/L	0.0103	U		0.044	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-27-03	RADS	Plutonium-238	0	pCi/L	0.00781	U		0.0422	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-27-03	RADS	Plutonium-239/240	0.0276	pCi/L	0.0135	U		0.0422	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-27-03	RADS	Technetium-99	1.49	pCi/L	1.66	U	XV	5.52	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-27-03	RADS	Uranium-233/234	3.23	pCi/L	0.117			0.0322	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-27-03	RADS	Uranium-235	0.0363	pCi/L	0.0147	U		0.0397	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-27-03	RADS	Uranium-238	1.5	pCi/L	0.0794			0.032	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U	XV	0.32	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U	XV	0.52	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2,4-Dichlorophenol	0.74	ug/L		U	XV	0.74	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2,4-Dimethylphenol	0.67	ug/L		U	XV	0.67	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	FR	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-23-03	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U	XV	4.6	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2-Methylnaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	2-Nitrophenol	0.45	ug/L		U	XV	0.45	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U	XV	0.5	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Acenaphthene	0.32	ug/L		U	XV	0.32	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Acenaphthylene	0.57	ug/L		U	XV	0.57	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Anthracene	0.49	ug/L		U	XV	0.49	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Benz(a)anthracene	0.4	ug/L		U	XV	0.4	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Benzo(a)pyrene	0.36	ug/L		U	XV	0.36	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Benzo(b)fluoranthene	0.61	ug/L		U	XV	0.61	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Benzo(ghi)perylene	0.58	ug/L		U	XV	0.58	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Benzo(k)fluoranthene	0.53	ug/L		U	XV	0.53	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Benzoic acid	34	ug/L			XV	12	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U	XV	0.32	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Bis(2-ethylhexyl)phthalate	0.65	ug/L		U	XV	0.65	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Chrysene	0.62	ug/L		U	XV	0.62	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U	XV	0.59	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Dibenzofuran	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Diethyl phthalate	0.44	ug/L		U	XV	0.44	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Dimethyl phthalate	0.24	ug/L		U	XV	0.24	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Di-n-butyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Di-n-octylphthalate	0.4	ug/L		U	XV	0.4	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Fluorene	0.36	ug/L		U	XV	0.36	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Hexachlorobenzene	0.76	ug/L		U	XV	0.76	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Hexachlorobutadiene	3.8	ug/L		U	XV	3.8	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Hexachloroethane	2.4	ug/L		U	XV	2.4	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Indeno(1,2,3-cd)pyrene	0.75	ug/L		U	XV	0.75	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Isophorone	0.24	ug/L		U	XV	0.24	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Naphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Nitrobenzene	0.94	ug/L		U	XV	0.94	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U	XV	0.4	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U	XV	0.51	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-23-03	SVOA	Pyrene	0.43	ug/L		U	XV	0.43	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	1,2-Dimethylbenzene	0.29	ug/L		J	XV	0.19	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	FR	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-24-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Acetone	14	ug/L			XV	1.9	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-26-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Benzene	0.42	ug/L		J	XV	0.16	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Chloroform	0.23	ug/L		J	XV	0.16	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Methylene chloride	0.45	ug/L		J	XV	0.32	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-25-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Toluene	0.34	ug/L		J	XV	0.17	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-24-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-25-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-19-03	WETCHEM	Alkalinity	360	mg/L			XV	1.1	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-19-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-19-03	WETCHEM	Alkalinity as HCO3	360	mg/L			XV	1.1	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-20-03	WETCHEM	Ammonium Nitrogen	1.9	mg/L				0.1	WATER	WG	FR	BP	12/14/2011
WD-MW04B	WDMW04-01-04	ANION	Chloride	490	mg/L				5.1	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-01-04	ANION	Fluoride	0.85	mg/L				0.06	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-01-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-01-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-01-04	ANION	Sulfate	13	mg/L				0.23	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Aluminum	0.029	mg/L		B		0.018	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Aluminum	0.88	mg/L				0.018	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Aluminum	0.034	mg/L		B		0.018	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Antimony	0.0035	mg/L		B		0.0031	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Antimony	0.0033	mg/L		B		0.0031	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Arsenic	0.015	mg/L				0.00033	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Arsenic	0.015	mg/L				0.00033	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Arsenic	0.013	mg/L				0.00033	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Barium	0.063	mg/L				0.00058	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Barium	0.07	mg/L				0.00058	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Barium	0.062	mg/L				0.00058	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Cadmium	0.000041	mg/L		B		0.00004	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Cadmium	0.000079	mg/L		B		0.00004	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Calcium	28	mg/L				0.035	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Calcium	27	mg/L				0.035	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Calcium	27	mg/L				0.035	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Chromium	0.0028	mg/L		B		0.00066	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Cobalt	0.0013	mg/L		B		0.0012	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Cobalt	0.0018	mg/L		B		0.0012	WATER	WG	REG	BP	1/17/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-21-04	METAL	Cobalt	0.0042	mg/L		B		0.0012	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Copper	0.0018	mg/L		B		0.0014	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Copper	0.0033	mg/L		B		0.0014	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Copper	0.0015	mg/L		B		0.0014	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Iron	0.32	mg/L				0.022	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Iron	1.3	mg/L				0.022	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Iron	0.31	mg/L				0.022	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Lead	0.00042	mg/L		B		0.00018	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Magnesium	9.9	mg/L				0.011	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Magnesium	10	mg/L				0.011	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Magnesium	9.7	mg/L				0.011	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Manganese	0.19	mg/L				0.00025	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Manganese	0.21	mg/L				0.00025	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Manganese	0.18	mg/L				0.00025	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Molybdenum	0.061	mg/L				0.00014	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Molybdenum	0.063	mg/L				0.00014	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Molybdenum	0.07	mg/L				0.00014	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Nickel	0.012	mg/L		B		0.0013	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Nickel	0.022	mg/L		B		0.0013	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Nickel	0.013	mg/L		B		0.0013	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Sodium	470	mg/L				0.092	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Sodium	450	mg/L				0.092	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Sodium	460	mg/L				0.092	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Thallium	0.000036	mg/L		B		0.000033	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Thallium	0.000064	mg/L		B		0.000033	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Thallium	0.000059	mg/L		B		0.000033	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Uranium	0.0035	mg/L				0.00002	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Uranium	0.0032	mg/L				0.00002	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Uranium	0.0037	mg/L				0.00002	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Vanadium	0.0014	mg/L		B		0.0011	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Vanadium	0.0053	mg/L		B		0.0011	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Vanadium	0.0015	mg/L		B		0.0011	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-03-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-04-04	METAL	Zinc	0.0078	mg/L		B		0.0045	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-21-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-09-04	RADS	Alpha activity	14.2	pCi/L	5.31	U		9.77	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-09-04	RADS	Americium-241	0.0287	pCi/L	0.0148	U		0.0591	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-09-04	RADS	Beta activity	-0.619	pCi/L	2.84	U		7.95	WATER	WG	REG	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-09-04	RADS	Neptunium-237	0.007	pCi/L	0.0099	U		0.0536	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-09-04	RADS	Plutonium-238	-0.0279	pCi/L	-0.0241	U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-09-04	RADS	Plutonium-239/240	0	pCi/L	0.00985	U		0.0667	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-09-04	RADS	Technetium-99	-1.04	pCi/L	1.67	U		5.64	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-09-04	RADS	Uranium-233/234	3.14	pCi/L	0.125			0.0378	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-09-04	RADS	Uranium-235	0.0427	pCi/L	0.0172	U		0.0466	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-09-04	RADS	Uranium-238	1.43	pCi/L	0.0842			0.0471	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2,4,5-Trichlorophenol	0.56	ug/L		U		0.56	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2,4-Dichlorophenol	0.8	ug/L		U		0.8	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2,4-Dimethylphenol	0.72	ug/L		U		0.72	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2-Chloronaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2-Methyl-4,6-dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2-Methylnaphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	2-Nitrophenol	0.49	ug/L		U		0.49	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	4-Bromophenyl phenyl ether	0.54	ug/L		U		0.54	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	4-Methylphenol	0.41	ug/L		J		0.31	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Acenaphthylene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Anthracene	0.52	ug/L		U		0.52	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Benz(a)anthracene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Benzo(a)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Benzo(b)fluoranthene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Benzo(ghi)perylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Benzo(k)fluoranthene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Benzoic acid	30	ug/L		J		12	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Bis(2-ethylhexyl)phthalate	3.3	ug/L		BJ		0.7	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Chrysene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Dibenz(a,h)anthracene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Dibenzofuran	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Diethyl phthalate	0.47	ug/L		U		0.47	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Dimethyl phthalate	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Di-n-octylphthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Hexachlorobenzene	0.82	ug/L		U		0.82	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Hexachlorobutadiene	4.1	ug/L		U		4.1	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.81	ug/L		U		0.81	WATER	WG	REG	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-05-04	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Naphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	N-Nitroso-di-n-propylamine	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	N-Nitrosodiphenylamine	0.55	ug/L		U		0.55	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Phenanthrene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-05-04	SVOA	Pyrene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	1,2-Dimethylbenzene	0.26	ug/L		J		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Benzene	0.95	ug/L		J		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	M + P Xylene	0.45	ug/L		J		0.34	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Toluene	0.32	ug/L		J		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-01-04	WETCHEM	Alkalinity	400	mg/L				1.1	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-01-04	WETCHEM	Alkalinity as HCO3	400	mg/L				1.1	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-02-04	WETCHEM	Ammonium Nitrogen	2.7	mg/L				0.1	WATER	WG	REG	BP	1/17/2012
WD-MW04B	WDMW04-19-04	ANION	Chloride	430	mg/L				5.1	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-19-04	ANION	Fluoride	0.83	mg/L				0.06	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-19-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-19-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-19-04	ANION	Sulfate	14	mg/L				0.23	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Aluminum	0.76	mg/L				0.018	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Antimony	0.0049	mg/L		B		0.0031	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Arsenic	0.016	mg/L				0.00033	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Barium	0.069	mg/L				0.00058	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Cadmium	0.00008	mg/L		B		0.00004	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Calcium	27	mg/L				0.035	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Chromium	0.0023	mg/L		B		0.00066	WATER	WG	FR	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-22-04	METAL	Cobalt	0.0017	mg/L		B		0.0012	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Copper	0.0026	mg/L		B		0.0014	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Iron	1.2	mg/L				0.022	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Lead	0.00031	mg/L		B		0.00018	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Magnesium	9.8	mg/L				0.011	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Manganese	0.2	mg/L				0.00025	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Molybdenum	0.061	mg/L				0.00014	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Nickel	0.022	mg/L		B		0.0013	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Potassium	13	mg/L				0.24	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Sodium	450	mg/L				0.092	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Thallium	0.000076	mg/L		B		0.000033	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Uranium	0.0032	mg/L				0.00002	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Vanadium	0.0047	mg/L		B		0.0011	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-22-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	PPCB	PCB-1221	0.28	ug/L		U		0.28	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	PPCB	PCB-1232	0.22	ug/L		U		0.22	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	PPCB	PCB-1242	0.14	ug/L		U		0.14	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	PPCB	PCB-1254	0.15	ug/L		U		0.15	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	PPCB	PCB-1260	0.21	ug/L		U		0.21	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-27-04	RADS	Alpha activity	4.6	pCi/L	3.64	U		10.8	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-27-04	RADS	Americium-241	0.0516	pCi/L	0.0169	U		0.0449	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-27-04	RADS	Beta activity	1.33	pCi/L	2.93	U		8	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-27-04	RADS	Neptunium-237	0	pCi/L	0.00641	U		0.0347	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-27-04	RADS	Plutonium-238	-0.00713	pCi/L	-0.0101	U		0.0683	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-27-04	RADS	Plutonium-239/240	0.057	pCi/L	0.0214	U		0.0546	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-27-04	RADS	Technetium-99	-1.16	pCi/L	1.67	U		5.64	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-27-04	RADS	Uranium-233/234	2.51	pCi/L	0.106			0.0343	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-27-04	RADS	Uranium-235	0.0553	pCi/L	0.0192	U		0.053	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-27-04	RADS	Uranium-238	1.21	pCi/L	0.0738			0.0341	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2,4,5-Trichlorophenol	0.55	ug/L		U		0.55	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2,4-Dichlorophenol	0.78	ug/L		U		0.78	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	4-Methylphenol	0.61	ug/L		J		0.3	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	FR	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-23-04	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Benzo(ghi)perylene	0.61	ug/L		U		0.61	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U		0.56	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Benzoic acid	35	ug/L				12	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		BJ		0.68	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Dibenz(a,h)anthracene	0.62	ug/L		U		0.62	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Hexachlorobenzene	0.8	ug/L		U		0.8	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U		1.9	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Indeno(1,2,3-cd)pyrene	0.79	ug/L		U		0.79	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Nitrobenzene	0.98	ug/L		U		0.98	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-23-04	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	1,2-Dimethylbenzene	0.26	ug/L		J		0.19	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-26-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Benzene	0.98	ug/L		J		0.16	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Chloroform	0.17	ug/L		J		0.16	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-24-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	M + P Xylene	0.48	ug/L		J		0.34	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-25-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Toluene	0.33	ug/L		J		0.17	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-24-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-25-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-19-04	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-19-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-19-04	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-20-04	WETCHEM	Ammonium Nitrogen	2.9	mg/L				0.1	WATER	WG	FR	BP	1/17/2012
WD-MW04B	WDMW04-01-05	ANION	Chloride	530	mg/L				5.1	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-01-05	ANION	Fluoride	0.57	mg/L				0.06	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-01-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-01-05	ANION	Sulfate	10	mg/L				0.23	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Aluminum	0.045	mg/L		B		0.018	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Aluminum	0.59	mg/L				0.018	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Antimony	0.0032	mg/L		B		0.0031	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Arsenic	0.015	mg/L				0.00033	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Barium	0.067	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Barium	0.079	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Calcium	26	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Calcium	27	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Chromium	0.0016	mg/L		B		0.00066	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Copper	0.0028	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Copper	0.0024	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Iron	0.31	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Iron	0.99	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Lead	0.00031	mg/L		B		0.00018	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Magnesium	9.2	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Magnesium	9.6	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Manganese	0.18	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Manganese	0.2	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Molybdenum	0.063	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Molybdenum	0.05	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Nickel	0.0079	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Nickel	0.012	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-03-05	METAL	Sodium	460	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Sodium	470	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Thallium	0.000074	mg/L		B		0.000033	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Thallium	0.000084	mg/L		B		0.000033	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Uranium	0.0038	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Uranium	0.0031	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Vanadium	0.0018	mg/L		B		0.0011	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Vanadium	0.004	mg/L		B		0.0011	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-03-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-04-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-09-05	RADS	Alpha activity	6.41	pCi/L	6.43	U		20.4	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-09-05	RADS	Americium-241	0.044	pCi/L	0.0165	U		0.0421	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-09-05	RADS	Beta activity	17.4	pCi/L	8.18	U		19.1	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-09-05	RADS	Neptunium-237	0.0106	pCi/L	0.00916	U		0.0405	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-09-05	RADS	Plutonium-238	0.0219	pCi/L	0.0123	U		0.0419	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-09-05	RADS	Plutonium-239/240	0.00548	pCi/L	0.00775	U		0.0419	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-09-05	RADS	Technetium-99	3.86	pCi/L	1.69	U		5.54	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-09-05	RADS	Uranium-233/234	2.9	pCi/L	0.116			0.0352	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-09-05	RADS	Uranium-235	0.0738	pCi/L	0.0212	J		0.0434	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-09-05	RADS	Uranium-238	1.16	pCi/L	0.073			0.0351	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	1,2,4-Trichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	1,2-Dichlorobenzene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	1,3-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	1,4-Dichlorobenzene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2,4,5-Trichlorophenol	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2,4,6-Trichlorophenol	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2,4-Dichlorophenol	0.85	ug/L		U		0.85	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2,4-Dimethylphenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2,4-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2,6-Dinitrotoluene	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2-Chloronaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2-Chlorophenol	2.7	ug/L		U		2.7	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2-Methyl-4,6-dinitrophenol	5.3	ug/L		U		5.3	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2-Methylnaphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2-Methylphenol	1.3	ug/L		U		1.3	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	2-Nitrophenol	0.52	ug/L		U		0.52	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	3,3'-Dichlorobenzidine	2.7	ug/L		U		2.7	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	3-Nitrobenzenamine	2.7	ug/L		U		2.7	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	4-Bromophenyl phenyl ether	0.57	ug/L		U		0.57	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	4-Chloro-3-methylphenol	3.2	ug/L		U		3.2	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	4-Chlorophenyl phenyl ether	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	4-Methylphenol	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	4-Nitrobenzenamine	2.7	ug/L		U		2.7	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Acenaphthene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Acenaphthylene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Anthracene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Benz(a)anthracene	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Benzo(a)pyrene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Benzo(b)fluoranthene	0.71	ug/L		U		0.71	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-05-05	SVOA	Benzo(ghi)perylene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Benzo(k)fluoranthene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Benzoic acid	27	ug/L		J		13	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Bis(2-chloroethoxy)methane	1.3	ug/L		U		1.3	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Bis(2-ethylhexyl)phthalate	3.4	ug/L		BJ		0.75	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Chrysene	0.72	ug/L		U		0.72	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Dibenz(a,h)anthracene	0.68	ug/L		U		0.68	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Dibenzofuran	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Diethyl phthalate	0.51	ug/L		U		0.51	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Dimethyl phthalate	0.28	ug/L		U		0.28	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Di-n-octylphthalate	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Fluoranthene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Fluorene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Hexachlorobenzene	0.88	ug/L		U		0.88	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Hexachlorobutadiene	4.4	ug/L		U		4.4	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Hexachlorocyclopentadiene	13	ug/L		U		13	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Hexachloroethane	2.8	ug/L		U		2.8	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.87	ug/L		U		0.87	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Isophorone	0.28	ug/L		U		0.28	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Naphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Nitrobenzene	1.1	ug/L		U		1.1	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	N-Nitroso-di-n-propylamine	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	N-Nitrosodiphenylamine	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Pentachlorophenol	27	ug/L		U		27	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Phenanthrene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Phenol	2.7	ug/L		U		2.7	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-05-05	SVOA	Pyrene	0.49	ug/L		U		0.49	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Benzene	0.67	ug/L		J		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	M + P Xylene	0.36	ug/L		J		0.34	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Methylene chloride	0.55	ug/L		BJ		0.32	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-06-05	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-01-05	WETCHEM	Alkalinity	410	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-01-05	WETCHEM	Alkalinity as HCO3	410	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-02-05	WETCHEM	Ammonium Nitrogen	2.5	mg/L				0.1	WATER	WG	REG	BP	2/15/2012
WD-MW04B	WDMW04-19-05	ANION	Chloride	530	mg/L				5.1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-19-05	ANION	Fluoride	0.57	mg/L				0.06	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-19-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-19-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-19-05	ANION	Sulfate	10	mg/L				0.23	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Aluminum	0.053	mg/L		B		0.018	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Aluminum	0.66	mg/L				0.018	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Antimony	0.0032	mg/L		B		0.0031	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Barium	0.067	mg/L				0.00058	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Barium	0.078	mg/L				0.00058	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Calcium	25	mg/L				0.035	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Calcium	26	mg/L				0.035	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Chromium	0.0022	mg/L		B		0.00066	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Copper	0.0041	mg/L		B		0.0014	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Copper	0.0026	mg/L		B		0.0014	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Iron	0.24	mg/L				0.022	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Iron	1	mg/L				0.022	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Lead	0.00037	mg/L		B		0.00018	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Magnesium	9.1	mg/L				0.011	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Magnesium	9.5	mg/L				0.011	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Manganese	0.16	mg/L				0.00025	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Manganese	0.19	mg/L				0.00025	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Molybdenum	0.079	mg/L				0.00014	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Molybdenum	0.051	mg/L				0.00014	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Nickel	0.0083	mg/L		B		0.0013	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Nickel	0.012	mg/L		B		0.0013	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Potassium	12	mg/L				0.24	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Potassium	13	mg/L				0.24	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Sodium	440	mg/L				0.092	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Sodium	460	mg/L				0.092	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Thallium	0.00007	mg/L		B		0.000033	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Thallium	0.000061	mg/L		B		0.000033	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Uranium	0.0042	mg/L				0.00002	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Uranium	0.0031	mg/L				0.00002	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Vanadium	0.0023	mg/L		B		0.0011	WATER	WG	FR	BP	2/15/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-22-05	METAL	Vanadium	0.0046	mg/L		B		0.0011	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-21-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-22-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	PPCB	PCB-1254	0.15	ug/L		U		0.15	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-27-05	RADS	Alpha activity	19.4	pCi/L	9.07	U		20.2	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-27-05	RADS	Americium-241	0.0567	pCi/L	0.018	U		0.0536	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-27-05	RADS	Beta activity	-10.6	pCi/L	5.39	U		19.1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-27-05	RADS	Neptunium-237	0	pCi/L	0.00654	U		0.0442	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-27-05	RADS	Plutonium-238	-0.00545	pCi/L	-0.00944	U		0.067	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-27-05	RADS	Plutonium-239/240	0	pCi/L	0.0077	U		0.0417	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-27-05	RADS	Technetium-99	-0.549	pCi/L	1.65	U		5.55	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-27-05	RADS	Uranium-233/234	2.56	pCi/L	0.112			0.0372	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-27-05	RADS	Uranium-235	0.054	pCi/L	0.019	U		0.0459	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-27-05	RADS	Uranium-238	1.17	pCi/L	0.0756			0.0463	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2,4,5-Trichlorophenol	0.56	ug/L		U		0.56	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U		0.36	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2,4-Dichlorophenol	0.79	ug/L		U		0.79	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2,4-Dimethylphenol	0.72	ug/L		U		0.72	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2-Chloronaphthalene	0.32	ug/L		U		0.32	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2-Methyl-4,6-dinitrophenol	5	ug/L		U		5	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2-Methylnaphthalene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	2-Nitrophenol	0.48	ug/L		U		0.48	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	4-Bromophenyl phenyl ether	0.53	ug/L		U		0.53	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	4-Methylphenol	0.31	ug/L		U		0.31	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Acenaphthylene	0.61	ug/L		U		0.61	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Anthracene	0.52	ug/L		U		0.52	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Benz(a)anthracene	0.43	ug/L		U		0.43	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Benzo(b)fluoranthene	0.66	ug/L		U		0.66	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Benzo(ghi)perylene	0.62	ug/L		U		0.62	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Benzo(k)fluoranthene	0.57	ug/L		U		0.57	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Benzoic acid	25	ug/L		J		12	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Bis(2-ethylhexyl)phthalate	3.2	ug/L		BJ		0.69	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	FR	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-23-05	SVOA	Chrysene	0.67	ug/L		U		0.67	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Dibenz(a,h)anthracene	0.63	ug/L		U		0.63	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Dibenzofuran	0.36	ug/L		U		0.36	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Diethyl phthalate	0.47	ug/L		U		0.47	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Dimethyl phthalate	0.26	ug/L		U		0.26	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Di-n-octylphthalate	0.43	ug/L		U		0.43	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Hexachlorobenzene	0.82	ug/L		U		0.82	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Hexachlorobutadiene	4.1	ug/L		U		4.1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Indeno(1,2,3-cd)pyrene	0.8	ug/L		U		0.8	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Naphthalene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	N-Nitroso-di-n-propylamine	0.43	ug/L		U		0.43	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	N-Nitrosodiphenylamine	0.54	ug/L		U		0.54	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Phenanthrene	0.32	ug/L		U		0.32	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-23-05	SVOA	Pyrene	0.46	ug/L		U		0.46	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-26-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Benzene	0.72	ug/L		J		0.16	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Methylene chloride	0.6	ug/L		BJ		0.32	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-25-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-24-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-25-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-19-05	WETCHEM	Alkalinity	410	mg/L				1.1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-19-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-19-05	WETCHEM	Alkalinity as HCO3	410	mg/L				1.1	WATER	WG	FR	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-20-05	WETCHEM	Ammonium Nitrogen	2.8	mg/L				0.1	WATER	WG	FR	BP	2/15/2012
WD-MW04B	WDMW04-01-06	ANION	Chloride	580	mg/L				5.1	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-01-06	ANION	Fluoride	0.51	mg/L				0.06	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-01-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-01-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-01-06	ANION	Sulfate	11	mg/L				0.23	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Aluminum	0.046	mg/L		B		0.018	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Aluminum	0.22	mg/L				0.018	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Arsenic	0.01	mg/L				0.00033	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Barium	0.08	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Barium	0.1	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Cadmium	0.000045	mg/L		B		0.00004	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Cadmium	0.000041	mg/L		B		0.00004	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Calcium	26	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Calcium	27	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Chromium	0.00079	mg/L		B		0.00066	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Copper	0.0024	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Copper	0.0039	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Iron	0.15	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Iron	0.83	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Lead	0.00026	mg/L		B		0.00018	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Magnesium	8.4	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Magnesium	8.4	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Manganese	0.11	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Manganese	0.16	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Mercury	0.000034	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Mercury	0.000031	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Molybdenum	0.049	mg/L				0.00014	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Molybdenum	0.0083	mg/L				0.00014	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Nickel	0.0041	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Nickel	0.0072	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Potassium	11	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Silver	0.0015	mg/L		B		0.00093	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Sodium	480	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Sodium	530	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Thallium	0.00011	mg/L		B		0.000033	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Uranium	0.0039	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Uranium	0.0016	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Vanadium	0.0023	mg/L		B		0.0011	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-04-06	METAL	Zinc	0.005	mg/L		B		0.0045	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-05-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-09-06	RADS	Alpha activity	1.23	pCi/L	3.81	U	U	15.5	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-09-06	RADS	Americium-241	0.0327	pCi/L	0.014	U	U	0.0448	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-09-06	RADS	Beta activity	3.09	pCi/L	5.91	U	U	16.3	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-09-06	RADS	Neptunium-237	0.0325	pCi/L	0.0181	U	U	0.0621	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-09-06	RADS	Plutonium-238	0	pCi/L	0.0117	U	U	0.0716	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-09-06	RADS	Plutonium-239/240	0.0116	pCi/L	0.0116	U	U	0.0558	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-09-06	RADS	Technetium-99	-1.01	pCi/L	1.66	U	U	5.61	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-09-06	RADS	Uranium-233/234	3.16	pCi/L	0.119		=	0.0548	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-09-06	RADS	Uranium-235	0.0495	pCi/L	0.0174	U	UJ	0.0421	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-09-06	RADS	Uranium-238	1.4	pCi/L	0.079		=	0.0425	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Bis(2-ethylhexyl)phthalate	3.5	ug/L		BJ		0.67	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-05-06	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Nitrobenzene	0.98	ug/L		U		0.98	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-05-06	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	1,2-Dimethylbenzene	0.38	ug/L		J		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Benzene	1.1	ug/L				0.16	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Ethylbenzene	0.18	ug/L		J		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	M + P Xylene	0.9	ug/L		J		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Toluene	0.17	ug/L		J		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-01-06	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-01-06	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-02-06	WETCHEM	Ammonium Nitrogen	2.5	mg/L				0.1	WATER	WG	REG	BP	3/19/2012
WD-MW04B	WDMW04-19-06	ANION	Chloride	570	mg/L				5.1	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-19-06	ANION	Fluoride	0.5	mg/L				0.06	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-19-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-19-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-19-06	ANION	Sulfate	9.7	mg/L				0.23	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Aluminum	0.037	mg/L		B		0.018	WATER	WG	FR	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-22-06	METAL	Aluminum	0.14	mg/L				0.018	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Arsenic	0.012	mg/L				0.00033	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Barium	0.077	mg/L				0.00058	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Barium	0.1	mg/L				0.00058	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Calcium	26	mg/L				0.035	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Calcium	28	mg/L				0.035	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Chromium	0.003	mg/L		B		0.00066	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Copper	0.0024	mg/L		B		0.0014	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Copper	0.0035	mg/L		B		0.0014	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Iron	0.2	mg/L				0.022	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Iron	0.82	mg/L				0.022	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Magnesium	8.4	mg/L				0.011	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Magnesium	8.5	mg/L				0.011	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Manganese	0.13	mg/L				0.00025	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Manganese	0.16	mg/L				0.00025	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Mercury	0.000031	mg/L		B		0.000027	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Mercury	0.000034	mg/L		B		0.000027	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Molybdenum	0.042	mg/L				0.00014	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Molybdenum	0.006	mg/L				0.00014	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Nickel	0.0041	mg/L		B		0.0013	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Nickel	0.0067	mg/L		B		0.0013	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Potassium	12	mg/L				0.24	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Potassium	11	mg/L				0.24	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Silver	0.0039	mg/L		B		0.00093	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Sodium	490	mg/L				0.092	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Sodium	540	mg/L				0.092	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Thallium	0.000089	mg/L		B		0.000033	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Uranium	0.0037	mg/L				0.00002	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Uranium	0.0015	mg/L				0.00002	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Vanadium	0.0019	mg/L		B		0.0011	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-21-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-22-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-27-06	RADS	Alpha activity	1.1	pCi/L	3.63	U	U	14.7	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-27-06	RADS	Americium-241	0.0199	pCi/L	0.0211	U	U	0.101	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-27-06	RADS	Beta activity	8.59	pCi/L	6.35	U	U	16.2	WATER	WG	FR	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-27-06	RADS	Neptunium-237	0.0236	pCi/L	0.0115	U	U	0.036	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-27-06	RADS	Plutonium-238	0	pCi/L	0.00787	U	U	0.0532	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-27-06	RADS	Plutonium-239/240	0.0278	pCi/L	0.0136	U	U	0.0425	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-27-06	RADS	Technetium-99	-1.39	pCi/L	1.67	U	U	5.67	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-27-06	RADS	Uranium-233/234	2.63	pCi/L	0.111		=	0.0356	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-27-06	RADS	Uranium-235	0.0345	pCi/L	0.0152	U	U	0.044	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-27-06	RADS	Uranium-238	1.27	pCi/L	0.0768		=	0.0355	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Bis(2-ethylhexyl)phthalate	3.3	ug/L		BJ		0.68	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Hexachlorobenzene	0.8	ug/L		U		0.8	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	FR	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-23-06	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Nitrobenzene	0.98	ug/L		U		0.98	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-23-06	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	1,2-Dimethylbenzene	0.38	ug/L		J		0.19	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-26-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Benzene	0.96	ug/L		J		0.16	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Ethylbenzene	0.17	ug/L		J		0.16	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	M + P Xylene	0.83	ug/L		J		0.34	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-25-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-24-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-25-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-19-06	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-19-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-19-06	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-20-06	WETCHEM	Ammonium Nitrogen	2.3	mg/L				0.1	WATER	WG	FR	BP	3/19/2012
WD-MW04B	WDMW04-01-07	ANION	Chloride	560	mg/L				5.1	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-01-07	ANION	Fluoride	0.43	mg/L		B		0.06	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-01-07	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-01-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-01-07	ANION	Sulfate	11	mg/L				0.23	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Aluminum	0.059	mg/L		B		0.018	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Aluminum	0.57	mg/L				0.018	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Antimony	0.0066	mg/L		B		0.0031	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Arsenic	0.0091	mg/L				0.00033	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Barium	0.083	mg/L				0.00058	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Barium	0.097	mg/L				0.00058	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Cadmium	0.00015	mg/L		B		0.0001	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Calcium	27	mg/L				0.035	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Calcium	27	mg/L				0.035	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Chromium	0.0009	mg/L		B		0.00066	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Copper	0.0019	mg/L		B		0.0014	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Copper	0.0027	mg/L		B		0.0014	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Iron	0.18	mg/L				0.022	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Iron	0.81	mg/L				0.022	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Lead	0.0003	mg/L		B		0.00018	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Magnesium	8.6	mg/L				0.011	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Magnesium	8.5	mg/L				0.011	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Manganese	0.13	mg/L				0.00025	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Manganese	0.14	mg/L				0.00025	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Molybdenum	0.025	mg/L				0.00014	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Molybdenum	0.044	mg/L				0.00014	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Nickel	0.0033	mg/L		B		0.0013	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Nickel	0.0059	mg/L		B		0.0013	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Sodium	540	mg/L				0.092	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Sodium	530	mg/L				0.092	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Thallium	0.000053	mg/L		B		0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Thallium	0.00012	mg/L		B		0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Uranium	0.0028	mg/L				0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Uranium	0.0032	mg/L				0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Vanadium	0.0019	mg/L		B		0.0011	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Vanadium	0.0042	mg/L		B		0.0011	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-04-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	PPCB	Polychlorinated biphenyl	0.097	ug/L		U		0.097	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-09-07	RADS	Alpha activity	10.7	pCi/L	5.74	U	U	13.1	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-09-07	RADS	Americium-241	0.0261	pCi/L	0.0115	U	U	0.0332	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-09-07	RADS	Beta activity	15.2	pCi/L	4.16		J	8.31	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-09-07	RADS	Neptunium-237	0.00942	pCi/L	0.00942	U	U	0.0451	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-09-07	RADS	Plutonium-238	0.00952	pCi/L	0.00952	U	U	0.0456	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-09-07	RADS	Plutonium-239/240	0.0143	pCi/L	0.0126	U	U	0.0585	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-09-07	RADS	Technetium-99	-1.84	pCi/L	1.61	U	U	5.48	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-09-07	RADS	Uranium-233/234	2.67	pCi/L	0.111		=	0.0351	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-09-07	RADS	Uranium-235	0.0396	pCi/L	0.016	U	U	0.0433	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-09-07	RADS	Uranium-238	1.15	pCi/L	0.0726		=	0.0349	WATER	WG	REG	BP	4/11/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-05-07	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2,4-Dichlorophenol	0.74	ug/L		U		0.74	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2,4-Dimethylphenol	0.67	ug/L		U		0.67	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U		4.6	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	2-Nitrophenol	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U		0.5	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	4-Methylphenol	0.29	ug/L		U		0.29	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Acenaphthene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Acenaphthylene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Anthracene	0.49	ug/L		U		0.49	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Benz(a)anthracene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Benzo(a)pyrene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Benzo(b)fluoranthene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Benzo(ghi)perylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Benzo(k)fluoranthene	0.53	ug/L		U		0.53	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Bis(2-ethylhexyl)phthalate	2.4	ug/L		BJ		0.65	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Chrysene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Diethyl phthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Di-n-octylphthalate	0.4	ug/L		U		0.4	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Fluorene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Hexachlorobenzene	0.76	ug/L		U		0.76	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Hexachlorobutadiene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.75	ug/L		U		0.75	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Nitrobenzene	0.94	ug/L		U		0.94	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U		0.4	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U		0.51	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-05-07	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-05-07	SVOA	Pyrene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Benzene	0.74	ug/L		J		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	M + P Xylene	0.55	ug/L		J		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-01-07	WETCHEM	Alkalinity	410	mg/L				1.1	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-01-07	WETCHEM	Alkalinity as HCO3	410	mg/L				1.1	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-02-07	WETCHEM	Ammonium Nitrogen	2.7	mg/L				0.1	WATER	WG	REG	BP	4/11/2012
WD-MW04B	WDMW04-19-07	ANION	Chloride	550	mg/L				5.1	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-19-07	ANION	Fluoride	0.43	mg/L		B		0.06	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-19-07	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-19-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-19-07	ANION	Sulfate	11	mg/L				0.23	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Aluminum	0.06	mg/L		B		0.018	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Aluminum	0.77	mg/L				0.018	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Antimony	0.0034	mg/L		B		0.0031	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Arsenic	0.0086	mg/L				0.00033	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Barium	0.084	mg/L				0.00058	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Barium	0.092	mg/L				0.00058	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Calcium	27	mg/L				0.035	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Calcium	26	mg/L				0.035	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	FR	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-22-07	METAL	Chromium	0.00098	mg/L		B		0.00066	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Copper	0.0019	mg/L		B		0.0014	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Copper	0.0028	mg/L		B		0.0014	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Iron	0.18	mg/L				0.022	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Iron	0.77	mg/L				0.022	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Lead	0.0003	mg/L		B		0.00018	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Magnesium	8.5	mg/L				0.011	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Magnesium	8.5	mg/L				0.011	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Manganese	0.12	mg/L				0.00025	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Manganese	0.14	mg/L				0.00025	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Molybdenum	0.03	mg/L				0.00014	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Molybdenum	0.045	mg/L				0.00014	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Nickel	0.0037	mg/L		B		0.0013	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Nickel	0.006	mg/L		B		0.0013	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Potassium	13	mg/L				0.24	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Potassium	12	mg/L				0.24	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Sodium	540	mg/L				0.092	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Sodium	500	mg/L				0.092	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Thallium	0.000072	mg/L		B		0.00005	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Thallium	0.000086	mg/L		B		0.00005	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Uranium	0.0031	mg/L				0.00005	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Uranium	0.0031	mg/L				0.00005	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Vanadium	0.002	mg/L		B		0.0011	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Vanadium	0.0054	mg/L		B		0.0011	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-21-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-22-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	PPCB	Polychlorinated biphenyl	0.097	ug/L		U		0.097	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-27-07	RADS	Alpha activity	-0.745	pCi/L	2.13	U	U	11.7	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-27-07	RADS	Americium-241	0.0349	pCi/L	0.0163	U	U	0.0627	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-27-07	RADS	Beta activity	13	pCi/L	3.9		J	8.26	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-27-07	RADS	Neptunium-237	0.0299	pCi/L	0.0147	U	U	0.0458	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-27-07	RADS	Plutonium-238	0	pCi/L	0.00667	U	U	0.036	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-27-07	RADS	Plutonium-239/240	0.033	pCi/L	0.0133	U	U	0.036	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-27-07	RADS	Technetium-99	1.75	pCi/L	1.65	U	U	5.48	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-27-07	RADS	Uranium-233/234	2.37	pCi/L	0.104		=	0.0347	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-27-07	RADS	Uranium-235	0.0504	pCi/L	0.0177	U	UJ	0.0428	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-27-07	RADS	Uranium-238	1.2	pCi/L	0.074		=	0.0433	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U		0.32	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U		0.52	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2,4-Dichlorophenol	0.74	ug/L		U		0.74	WATER	WG	FR	BP	4/11/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-23-07	SVOA	2,4-Dimethylphenol	0.67	ug/L		U		0.67	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U		4.6	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	2-Nitrophenol	0.45	ug/L		U		0.45	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U		0.5	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	4-Methylphenol	0.29	ug/L		U		0.29	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Acenaphthene	0.32	ug/L		U		0.32	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Acenaphthylene	0.57	ug/L		U		0.57	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Anthracene	0.49	ug/L		U		0.49	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Benz(a)anthracene	0.41	ug/L		U		0.41	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Benzo(a)pyrene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U		0.62	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Benzo(ghi)perylene	0.58	ug/L		U		0.58	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Benzo(k)fluoranthene	0.53	ug/L		U		0.53	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U		0.32	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Bis(2-ethylhexyl)phthalate	2.4	ug/L		BJ		0.65	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Chrysene	0.63	ug/L		U		0.63	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U		0.59	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Diethyl phthalate	0.44	ug/L		U		0.44	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Di-n-octylphthalate	0.41	ug/L		U		0.41	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Fluorene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Hexachlorobenzene	0.77	ug/L		U		0.77	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Hexachlorobutadiene	3.8	ug/L		U		3.8	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Indeno(1,2,3-cd)pyrene	0.75	ug/L		U		0.75	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Nitrobenzene	0.94	ug/L		U		0.94	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U		0.41	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U		0.51	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-23-07	SVOA	Pyrene	0.43	ug/L		U		0.43	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FR	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	WDMW04-24-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	1,2-Dimethylbenzene	0.32	ug/L		J		0.19	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-26-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Benzene	0.82	ug/L		J		0.16	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	M + P Xylene	0.65	ug/L		J		0.34	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-25-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-24-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-25-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-19-07	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-19-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-19-07	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	FR	BP	4/11/2012
WD-MW04B	WDMW04-20-07	WETCHEM	Ammonium Nitrogen	2.4	mg/L				0.1	WATER	WG	FR	BP	4/11/2012
WD-MW04B	QW192	ANION	Chloride	630000	ug/L				5100	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW192	ANION	Fluoride	450	ug/L		B		60	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW192	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW192	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW192	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW192	ANION	Sulfate	2300	ug/L		B		230	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW199	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	HERB	2,4,5-T	0.105	ug/L		U		0.105	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	HERB	2,4-D	0.105	ug/L		U		0.105	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	HERB	2,4-DB	0.105	ug/L		U		0.105	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	HERB	Dalapon	1.58	ug/L		U		1.58	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW196	HERB	Dicamba	0.105	ug/L		U		0.105	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	HERB	Dichloroprop	0.105	ug/L		U		0.105	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	HERB	Dinoseb	0.105	ug/L		U		0.105	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	HERB	MCPA	13.9	ug/L		U		13.9	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	HERB	MCPP	12.7	ug/L		U		12.7	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	HERB	Silvex	0.105	ug/L		U		0.105	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Aluminum	0.04	mg/L		B		0.018	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Aluminum	0.16	mg/L				0.018	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Antimony	0.0049	mg/L				0.0004	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Antimony	0.01	mg/L				0.0004	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Arsenic	0.0065	mg/L				0.00033	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Arsenic	0.0084	mg/L				0.00033	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Barium	0.12	mg/L				0.00029	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Barium	0.13	mg/L				0.00029	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Calcium	24	mg/L				0.035	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Calcium	26	mg/L				0.035	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Chromium	0.0017	mg/L		B		0.0005	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Cobalt	0.0005	mg/L		B		0.000054	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Cobalt	0.00073	mg/L		B		0.000054	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Copper	0.0017	mg/L		B		0.00056	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Iron	0.11	mg/L				0.022	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Iron	0.51	mg/L				0.022	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Lead	0.00033	mg/L		B		0.00018	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Lithium	0.036	mg/L				0.0026	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Lithium	0.036	mg/L				0.0026	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Magnesium	8.1	mg/L				0.011	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Magnesium	8.7	mg/L				0.011	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Manganese	0.082	mg/L				0.00031	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Manganese	0.12	mg/L				0.00031	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Nickel	0.0034	mg/L				0.0003	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Nickel	0.0064	mg/L				0.0003	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Potassium	11	mg/L				0.24	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Potassium	11	mg/L				0.24	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Silver	0.00023	mg/L		B		0.000033	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Sodium	510	mg/L				0.092	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Sodium	530	mg/L				0.092	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Strontium	0.93	mg/L				0.0003	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Strontium	1	mg/L				0.0003	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Thallium	0.000088	mg/L		B		0.00005	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Thallium	0.00032	mg/L		B		0.00005	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Titanium	0.0016	mg/L		B		0.0006	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Uranium	0.0034	mg/L				0.00005	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Uranium	0.0026	mg/L				0.00005	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW194	METAL	Vanadium	0.0025	mg/L		B		0.0005	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Vanadium	0.0035	mg/L		B		0.0005	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW194	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW195	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Kepone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Americium-241	0.00788	pCi/L	0.0136	U		0.0201	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Neptunium-237	0	pCi/L	0.023	U		0.0343	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Plutonium-238	0.00593	pCi/L	0.0116	U		0.019	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Plutonium-239/240	0.00988	pCi/L	0.014	U		0.0218	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Technetium-99	-0.177	pCi/L	0.398	U		0.735	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Thorium-228	0.0344	pCi/L	0.0199			0.0237	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Thorium-230	0.0186	pCi/L	0.0195	U		0.0306	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Thorium-232	0.0105	pCi/L	0.0133	U		0.0203	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Uranium-233/234	1.3	pCi/L	0.165			0.0612	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Uranium-235/236	0.0324	pCi/L	0.0354	U		0.0458	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW198	RADS	Uranium-238	0.588	pCi/L	0.11			0.037	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	1,2,4-Trichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	1,2-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	1,3-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	1,4-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2,4,5-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2,4,6-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2,4-Dichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2,4-Dimethylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2,4-Dinitrophenol	5.68	ug/L		U		5.68	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2,4-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW196	SVOA	2,6-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2-Chloronaphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2-Chlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2-Methyl-4,6-dinitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2-Methylnaphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2-Methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	2-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	3,3'-Dichlorobenzidine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	3-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	4-Aminobiphenyl	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	4-Bromophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	4-Chloro-3-methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	4-Chlorobenzenamine	3.75	ug/L		U		3.75	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	4-Chlorophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	4-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	4-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Acenaphthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Acenaphthylene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Acetophenone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Benz(a)anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Benzenemethanol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Benzo(a)pyrene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Benzo(b)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Benzo(ghi)perylene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Benzo(k)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Benzoic acid	6.82	ug/L		U		6.82	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Bis(2-chloroethoxy)methane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Bis(2-chloroethyl) ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	bis(2-Chloroisopropyl)ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Bis(2-ethylhexyl)phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Butyl benzyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Chrysene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Dibenz(a,h)anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Dibenzofuran	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Diethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Dimethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Di-n-butyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Di-n-octylphthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Diphenylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Fluorene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Hexachlorobutadiene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Hexachlorocyclopentadiene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Hexachloroethane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Indeno(1,2,3-cd)pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Isophorone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	m+p Methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Naphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Nitrobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	N-Nitrosodimethylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	N-Nitroso-di-n-propylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	N-Nitrosomorpholine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	O,O,O-Triethylphosphorothioate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Pentachlorophenol	0.0633	ug/L		U		0.0633	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Phenanthrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Phenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	SVOA	Pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW196	SVOA	Pyridine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	1,2-Dimethylbenzene	0.2	ug/L		J		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW196	VOA	1,4-Dioxane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Total Xylene	0.2	ug/L		J		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW197	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW192	WETCHEM	Alkalinity	430	mg/L				1.1	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW192	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW192	WETCHEM	Alkalinity as HCO3	430	mg/L				1.1	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW193	WETCHEM	Ammonium Nitrogen	3	mg/L				0.1	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW192	WETCHEM	Chromium, hexavalent	0.014	mg/L		BJ		0.004	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW200	WETCHEM	Cyanide	0.0071	mg/L		B		0.002	WATER	WG	REG	BP	9/24/2012
WD-MW04B	QW224	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	9/26/2012
WD-MW04B	QW559	ANION	Chloride	620000	ug/L				5100	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW559	ANION	Fluoride	440	ug/L		B		60	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW559	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW559	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW559	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW559	ANION	Sulfate	5500	ug/L				230	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.073	ng/L		J		2.5	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW566	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	2,4,5-T	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	2,4,5-T	0.104	ug/L		JU		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	2,4-D	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	2,4-D	0.104	ug/L		JU		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	2,4-DB	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	2,4-DB	0.104	ug/L		JU		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	Dalapon	1.52	ug/L		U		1.52	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	Dalapon	1.56	ug/L		JU		1.56	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	Dicamba	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	Dicamba	0.104	ug/L		JU		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	Dichloroprop	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	Dichloroprop	0.104	ug/L		JU		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	Dinoseb	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	Dinoseb	0.104	ug/L		JU		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	MCPA	13.4	ug/L		U		13.4	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	MCPA	13.8	ug/L		JU		13.8	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	MCPP	12.2	ug/L		U		12.2	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	MCPP	12.5	ug/L		JU		12.5	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	Silvex	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	HERB	Silvex	0.104	ug/L		JU		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Aluminum	0.034	mg/L		B		0.018	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Aluminum	0.75	mg/L				0.018	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Antimony	0.0019	mg/L		B		0.0004	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Antimony	0.0042	mg/L				0.0004	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Arsenic	0.0077	mg/L				0.00033	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Arsenic	0.0063	mg/L				0.00033	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Barium	0.12	mg/L				0.00029	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Barium	0.14	mg/L				0.00029	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Cadmium	0.00011	mg/L		B		0.0001	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Calcium	23	mg/L				0.035	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Calcium	25	mg/L				0.035	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Chromium	0.0024	mg/L				0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Cobalt	0.00048	mg/L		B		0.000054	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Cobalt	0.0011	mg/L				0.000054	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW562	METAL	Copper	0.0017	mg/L		B		0.00056	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Iron	0.15	mg/L				0.022	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Iron	0.93	mg/L				0.022	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Lead	0.00059	mg/L		B		0.00018	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Lithium	0.049	mg/L				0.0026	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Lithium	0.047	mg/L				0.0026	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Magnesium	7.4	mg/L				0.011	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Magnesium	8.2	mg/L				0.011	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Manganese	0.098	mg/L				0.00031	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Manganese	0.066	mg/L				0.00031	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Nickel	0.0026	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Nickel	0.0059	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Potassium	9.8	mg/L				0.24	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Potassium	11	mg/L				0.24	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Silver	0.00022	mg/L		B		0.000033	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Sodium	490	mg/L				0.092	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Sodium	560	mg/L				0.092	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Strontium	0.99	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Strontium	1	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Thallium	0.000078	mg/L		B		0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Thallium	0.00022	mg/L		B		0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Titanium	0.021	mg/L				0.0006	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Uranium	0.0019	mg/L				0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Uranium	0.0027	mg/L				0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Vanadium	0.0018	mg/L		B		0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Vanadium	0.0059	mg/L				0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW561	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW562	METAL	Zinc	0.0042	mg/L		B		0.002	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	2,4'-DDD	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	2,4'-DDE	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	2,4'-DDT	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	4,4'-DDD	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	4,4'-DDE	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	4,4'-DDT	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Aldrin	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	alpha-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	alpha-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	beta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Chlordane	0.0814	ug/L		U		0.0814	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	delta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Dieldrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Endosulfan I	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Endosulfan II	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Endosulfan sulfate	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Endrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Endrin aldehyde	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Endrin ketone	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	gamma-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Heptachlor	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Heptachlor epoxide	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Kepone	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW563	PPCB	Lindane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Methoxychlor	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	PCB-1016	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	PCB-1221	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	PCB-1232	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	PCB-1242	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	PCB-1248	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	PCB-1254	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	PCB-1260	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	PCB-1268	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Polychlorinated biphenyl	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	PPCB	Toxaphene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Americium-241	-0.00395	pCi/L	0.0134	U		0.0284	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Neptunium-237	0.0158	pCi/L	0.0219	U		0.0364	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Plutonium-238	-0.0148	pCi/L	0.0136	U		0.0328	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Plutonium-239/240	9.26E-10	pCi/L	0.0103	U		0.0205	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Technetium-99	-0.42	pCi/L	0.41	U		0.731	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Thorium-228	0.0119	pCi/L	0.0157	U		0.0233	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Thorium-230	0.0206	pCi/L	0.0211	U		0.0315	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Thorium-232	0.00191	pCi/L	0.0105	U		0.0189	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Uranium-233/234	1.87	pCi/L	0.121			0.0298	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Uranium-235/236	0.0175	pCi/L	0.0235	U		0.0382	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW565	RADS	Uranium-238	0.84	pCi/L	0.0813			0.0193	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	1,2,4-Trichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	1,2-Dichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	1,3-Dichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	1,4-Dichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2,4,5-Trichlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2,4,6-Trichlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2,4-Dichlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2,4-Dimethylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2,4-Dinitrophenol	5.32	ug/L		U		5.32	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2,4-Dinitrotoluene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2,6-Dinitrotoluene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2-Chloronaphthalene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2-Chlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2-Methyl-4,6-dinitrophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2-Methylnaphthalene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2-Methylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2-Nitrobenzenamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	2-Nitrophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	3,3'-Dichlorobenzidine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	3-Nitrobenzenamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	4-Aminobiphenyl	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	4-Bromophenyl phenyl ether	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	4-Chloro-3-methylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	4-Chlorobenzenamine	3.51	ug/L		U		3.51	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	4-Chlorophenyl phenyl ether	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	4-Nitrobenzenamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	4-Nitrophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Acenaphthene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Acenaphthylene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Acetophenone	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Anthracene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Benz(a)anthracene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Benzenemethanol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Benzo(a)pyrene	0.468	ug/L		U		0.468	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Benzo(b)fluoranthene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Benzo(ghi)perylene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Benzo(k)fluoranthene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW563	SVOA	Benzoic acid	6.38	ug/L		U		6.38	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Bis(2-chloroethoxy)methane	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Bis(2-chloroethyl) ether	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	bis(2-Chloroisopropyl)ether	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Bis(2-ethylhexyl)phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Butyl benzyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Chrysene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Dibenz(a,h)anthracene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Dibenzofuran	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Diethyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Dimethyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Di-n-butyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Di-n-octylphthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Diphenylamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Fluoranthene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Fluorene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Hexachlorobenzene	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Hexachlorobutadiene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Hexachlorocyclopentadiene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Hexachloroethane	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Indeno(1,2,3-cd)pyrene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Isophorone	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	m+p Methylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Naphthalene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Nitrobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	N-Nitrosodimethylamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	N-Nitroso-di-n-propylamine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	N-Nitrosomorpholine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	O,O,O-Triethylphosphorothioate	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Pentachlorophenol	0.061	ug/L		U		0.061	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Pentachlorophenol	0.0625	ug/L		JU		0.0625	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Phenanthrene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Phenol	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Pyrene	0.319	ug/L		U		0.319	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	SVOA	Pyridine	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW563	VOA	1,4-Dioxane	3.19	ug/L		U		3.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Acetone	3.6	ug/L		J		1.9	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW564	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW564	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW559	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW559	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW559	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW560	WETCHEM	Ammonium Nitrogen	2.8	mg/L				0.1	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW568	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW569	WETCHEM	Chromium, hexavalent	0.0092	mg/L		BJ		0.004	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW567	WETCHEM	Cyanide	0.0035	mg/L		B		0.002	WATER	WG	REG	BP	12/5/2012
WD-MW04B	QW570	ANION	Chloride	620000	ug/L				5100	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW570	ANION	Fluoride	440	ug/L		B		60	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW570	ANION	Nitrate	42	ug/L		U		42	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW570	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW570	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW570	ANION	Sulfate	4300	ug/L		B		230	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW577	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	2,4,5-T	0.0965	ug/L		U		0.0965	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	2,4,5-T	0.101	ug/L		JU		0.101	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	2,4-D	0.0965	ug/L		U		0.0965	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	2,4-D	0.101	ug/L		JU		0.101	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	2,4-DB	0.0965	ug/L		U		0.0965	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	2,4-DB	0.101	ug/L		JU		0.101	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	Dalapon	1.45	ug/L		U		1.45	WATER	WG	FD	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW574	HERB	Dalapon	1.52	ug/L		JU		1.52	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	Dicamba	0.0965	ug/L		U		0.0965	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	Dicamba	0.101	ug/L		JU		0.101	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	Dichloroprop	0.0965	ug/L		U		0.0965	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	Dichloroprop	0.101	ug/L		JU		0.101	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	Dinoseb	0.0965	ug/L		U		0.0965	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	Dinoseb	0.101	ug/L		JU		0.101	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	MCPA	12.8	ug/L		U		12.8	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	MCPA	13.4	ug/L		JU		13.4	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	MCPP	11.6	ug/L		U		11.6	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	MCPP	12.2	ug/L		JU		12.2	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	Silvex	0.0965	ug/L		U		0.0965	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	HERB	Silvex	0.101	ug/L		JU		0.101	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Aluminum	0.057	mg/L		B		0.018	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Aluminum	0.66	mg/L				0.018	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Antimony	0.0022	mg/L				0.0004	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Antimony	0.0041	mg/L				0.0004	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Arsenic	0.0074	mg/L				0.00033	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Arsenic	0.0069	mg/L				0.00033	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Barium	0.12	mg/L				0.00029	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Barium	0.15	mg/L				0.00029	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Calcium	21	mg/L				0.035	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Calcium	25	mg/L				0.035	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Chromium	0.0016	mg/L		B		0.0005	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Cobalt	0.00049	mg/L		B		0.000054	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Cobalt	0.001	mg/L				0.000054	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Copper	0.0017	mg/L		B		0.00056	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Iron	0.12	mg/L				0.022	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Iron	0.83	mg/L				0.022	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Lead	0.00059	mg/L		B		0.00018	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Lithium	0.048	mg/L				0.0026	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Lithium	0.048	mg/L				0.0026	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Magnesium	7	mg/L				0.011	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Magnesium	8.1	mg/L				0.011	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Manganese	0.089	mg/L				0.00031	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Manganese	0.071	mg/L				0.00031	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Nickel	0.0025	mg/L				0.0003	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Nickel	0.0058	mg/L				0.0003	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Potassium	9.5	mg/L				0.24	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Potassium	11	mg/L				0.24	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Silver	0.0001	mg/L		B		0.000033	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Sodium	460	mg/L				0.092	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Sodium	560	mg/L				0.092	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Strontium	0.93	mg/L				0.0003	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Strontium	1.1	mg/L				0.0003	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Thallium	0.000083	mg/L		B		0.00005	WATER	WG	FD	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW573	METAL	Thallium	0.00017	mg/L		B		0.00005	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Titanium	0.014	mg/L				0.0006	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Uranium	0.0023	mg/L				0.00005	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Uranium	0.0026	mg/L				0.00005	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Vanadium	0.0025	mg/L		B		0.0005	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Vanadium	0.0058	mg/L				0.0005	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW572	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW573	METAL	Zinc	0.0042	mg/L		B		0.002	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Kepone	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	PCB-1016	0.0383	ug/L		U		0.0383	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	PCB-1221	0.0383	ug/L		U		0.0383	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	PCB-1232	0.0383	ug/L		U		0.0383	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	PCB-1242	0.0383	ug/L		U		0.0383	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	PCB-1248	0.0383	ug/L		U		0.0383	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	PCB-1254	0.0383	ug/L		U		0.0383	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	PCB-1260	0.0383	ug/L		U		0.0383	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	PCB-1268	0.0383	ug/L		U		0.0383	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Polychlorinated biphenyl	0.0383	ug/L		U		0.0383	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Americium-241	0.0115	pCi/L	0.0175	U		0.0283	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Neptunium-237	-0.00222	pCi/L	0.0218	U		0.0425	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Plutonium-238	-0.00258	pCi/L	0.00877	U		0.0198	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Plutonium-239/240	-0.00258	pCi/L	0.00876	U		0.0198	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Technetium-99	-0.422	pCi/L	0.439	U		0.781	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Thorium-228	0.0216	pCi/L	0.016			0.0169	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Thorium-230	0.0302	pCi/L	0.0224	U		0.0312	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Thorium-232	0.00167	pCi/L	0.00732	U		0.00983	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Uranium-233/234	0.812	pCi/L	0.0845			0.0448	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Uranium-235/236	0.0183	pCi/L	0.0153			0.00783	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW576	RADS	Uranium-238	0.357	pCi/L	0.0551			0.0233	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	1,2,4-Trichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	1,2-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	1,3-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW574	SVOA	1,4-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2,4,5-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2,4,6-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2,4-Dichlorophenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2,4-Dimethylphenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2,4-Dinitrophenol	5.68	ug/L		U		5.68	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2,4-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2,6-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2-Chloronaphthalene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2-Chlorophenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2-Methyl-4,6-dinitrophenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2-Methylnaphthalene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2-Methylphenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	2-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	3,3'-Dichlorobenzidine	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	3-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	4-Aminobiphenyl	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	4-Bromophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	4-Chloro-3-methylphenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	4-Chlorobenzenamine	3.75	ug/L		U		3.75	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	4-Chlorophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	4-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	4-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Acenaphthene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Acenaphthylene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Acetophenone	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Anthracene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Benz(a)anthracene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Benzenemethanol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Benzo(a)pyrene	0.5	ug/L		U		0.5	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Benzo(b)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Benzo(ghi)perylene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Benzo(k)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Benzoic acid	6.82	ug/L		U		6.82	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Bis(2-chloroethoxy)methane	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Bis(2-chloroethyl) ether	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	bis(2-Chloroisopropyl)ether	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Bis(2-ethylhexyl)phthalate	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Butyl benzyl phthalate	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Chrysene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Dibenz(a,h)anthracene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Dibenzofuran	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Diethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Dimethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Di-n-butyl phthalate	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Di-n-octylphthalate	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Diphenylamine	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Fluoranthene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Fluorene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Hexachlorobutadiene	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Hexachlorocyclopentadiene	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Hexachloroethane	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Indeno(1,2,3-cd)pyrene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Isophorone	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	m+p Methylphenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Naphthalene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Nitrobenzene	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	N-Nitrosodimethylamine	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW574	SVOA	N-Nitroso-di-n-propylamine	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	N-Nitrosomorpholine	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	O,O,O-Triethylphosphorothioate	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Pentachlorophenol	0.0581	ug/L		U		0.0581	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Pentachlorophenol	0.061	ug/L		JU		0.061	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Phenanthrene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Phenol	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Pyrene	0.341	ug/L		U		0.341	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	SVOA	Pyridine	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW574	VOA	1,4-Dioxane	3.41	ug/L		U		3.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Acetone	16	ug/L				1.9	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW575	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW570	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW570	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW570	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	FD	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	QW571	WETCHEM	Ammonium Nitrogen	2.9	mg/L				0.1	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW579	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW580	WETCHEM	Chromium, hexavalent	0.011	mg/L		BJ		0.004	WATER	WG	FD	BP	12/5/2012
WD-MW04B	QW578	WETCHEM	Cyanide	0.0051	mg/L		B		0.002	WATER	WG	FD	BP	12/5/2012
WD-MW04B	DC746	ANION	Chloride	630	mg/L				5.1	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC746	ANION	Fluoride	0.41	mg/L		B		0.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC746	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC746	ANION	Nitrite as Nitrogen	0.049	mg/L		U		0.049	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC746	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC746	ANION	Sulfate	2.5	mg/L		B		0.23	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0197	ng/L		U		0.0197	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00394	ng/L		U		0.00394	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00394	ng/L		U		0.00394	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0394	ng/L		U		0.0394	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC753	DI/FURA	Octachlorodibenzofuran	0.0394	ng/L		U		0.0394	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	HERB	2,4,5-T	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	HERB	2,4-D	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	HERB	2,4-DB	0.105	ug/L		U		0.105	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	HERB	Dalapon	1.32	ug/L		U		1.32	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	HERB	Dicamba	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	HERB	Dichloroprop	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	HERB	Dinoseb	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	HERB	MCPA	11.6	ug/L		U		11.6	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	HERB	MCPP	10.5	ug/L		U		10.5	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	HERB	Silvex	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Aluminum	0.2	mg/L				0.018	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Antimony	0.0022	mg/L				0.0004	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Arsenic	0.0089	mg/L				0.00033	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Barium	0.15	mg/L				0.00029	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Calcium	27	mg/L				0.035	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Chromium	0.00098	mg/L		B		0.0005	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Cobalt	0.0011	mg/L				0.000054	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Copper	0.0015	mg/L		B		0.00056	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Iron	0.9	mg/L				0.022	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Lead	0.00037	mg/L		B		0.00018	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Lithium	0.054	mg/L				0.0026	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Magnesium	7.8	mg/L				0.011	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Manganese	0.11	mg/L				0.00031	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Nickel	0.0058	mg/L				0.0003	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Potassium	11	mg/L				0.24	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Silver	0.00029	mg/L		B		0.000033	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Sodium	570	mg/L				0.092	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Strontium	1.1	mg/L				0.0003	WATER	WG	REG	BP	6/18/2013

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	DC749	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Titanium	0.0041	mg/L		B		0.0006	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Uranium	0.0012	mg/L				0.00005	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Vanadium	0.0015	mg/L		B		0.0005	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC749	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	2,4'-DDD	0.00568	ug/L		U		0.00568	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	2,4'-DDE	0.00682	ug/L		U		0.00682	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	2,4'-DDT	0.00568	ug/L		U		0.00568	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	4,4'-DDD	0.0114	ug/L		U		0.0114	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	4,4'-DDE	0.0114	ug/L		U		0.0114	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	4,4'-DDT	0.0114	ug/L		U		0.0114	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Aldrin	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	alpha-BHC	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	alpha-Chlordane	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	beta-BHC	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Chlordane	0.0869	ug/L		U		0.0869	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	delta-BHC	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Dieldrin	0.0114	ug/L		U		0.0114	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Endosulfan I	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Endosulfan II	0.0114	ug/L		U		0.0114	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Endosulfan sulfate	0.0114	ug/L		U		0.0114	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Endrin	0.0114	ug/L		U		0.0114	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Endrin aldehyde	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Endrin ketone	0.0114	ug/L		U		0.0114	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	gamma-Chlordane	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Heptachlor	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Heptachlor epoxide	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Kepone	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Lindane	0.00756	ug/L		U		0.00756	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Methoxychlor	0.0568	ug/L		U		0.0568	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	PCB-1016	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	PCB-1221	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	PCB-1232	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	PCB-1242	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	PCB-1248	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	PCB-1254	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	PCB-1260	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	PCB-1268	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Polychlorinated biphenyl	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	PPCB	Toxaphene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	1,2,4-Trichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	1,2-Dichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	1,3-Dichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	1,4-Dichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2,4,5-Trichlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2,4,6-Trichlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2,4-Dichlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2,4-Dimethylphenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2,4-Dinitrophenol	5.1	ug/L		U		5.1	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2,4-Dinitrotoluene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2,6-Dinitrotoluene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2-Chloronaphthalene	0.418	ug/L		U		0.418	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2-Chlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2-Methyl-4,6-dinitrophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2-Methylnaphthalene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2-Methylphenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2-Nitrobenzenamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	2-Nitrophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	3,3'-Dichlorobenzidine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	DC752	SVOA	3-Nitrobenzenamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	4-Aminobiphenyl	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	4-Bromophenyl phenyl ether	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	4-Chloro-3-methylphenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	4-Chlorobenzenamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	4-Chlorophenyl phenyl ether	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	4-Nitrobenzenamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	4-Nitrophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Acenaphthene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Acenaphthylene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Acetophenone	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Anthracene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Benz(a)anthracene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Benzenemethanol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Benzo(a)pyrene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Benzo(b)fluoranthene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Benzo(ghi)perylene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Benzo(k)fluoranthene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Benzoic acid	6.12	ug/L		U		6.12	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Bis(2-chloroethoxy)methane	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Bis(2-chloroethyl) ether	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Bis(2-chloroisopropyl)ether	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Bis(2-ethylhexyl)phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Butyl benzyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Chrysene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Dibenz(a,h)anthracene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Dibenzofuran	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Diethyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Dimethyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Di-n-butyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Di-n-octylphthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Diphenylamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Fluoranthene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Fluorene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Hexachlorobenzene	0.0071	ug/L		U		0.0071	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Hexachlorobutadiene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Hexachlorocyclopentadiene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Hexachloroethane	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Indeno(1,2,3-cd)pyrene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Isophorone	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	m,p-cresol	3.78	ug/L		U		3.78	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Naphthalene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Nitrobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	N-Nitrosodimethylamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	N-Nitroso-di-n-propylamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	N-Nitrosomorpholine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	O,O,O-Triethylphosphorothioate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Pentachlorophenol	0.0526	ug/L		U		0.0526	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Phenanthrene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Phenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Pyrene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	SVOA	Pyridine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/18/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	DC755	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC752	VOA	1,4-Dioxane	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Acetone	2.3	ug/L		J		1.9	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC755	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC746	WETCHEM	Alkalinity	410	mg/L				1.1	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC746	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC746	WETCHEM	Alkalinity as HCO3	410	mg/L				1.1	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC747	WETCHEM	Ammonia	2.8	mg/L				0.022	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC747	WETCHEM	Ammonium Nitrogen	2.8	mg/L				0.1	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC751	WETCHEM	Chromium, hexavalent	0.0048	mg/L		B		0.004	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC754	WETCHEM	Cyanide	0.0083	mg/L		B		0.002	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC746	WETCHEM	Dissolved Solids	1400	mg/L		J		9.4	WATER	WG	REG	BP	6/18/2013
WD-MW04B	DC748	METAL	Aluminum	0.15	mg/L				0.018	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Antimony	0.0042	mg/L				0.0004	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Arsenic	0.0055	mg/L				0.00033	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Barium	0.15	mg/L				0.00029	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW04B	DC748	METAL	Calcium	25	mg/L				0.035	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Cobalt	0.001	mg/L				0.000054	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Copper	0.0012	mg/L		B		0.00056	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Iron	0.24	mg/L				0.022	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Lead	0.00018	mg/L		B		0.00018	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Lithium	0.058	mg/L				0.0026	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Magnesium	7.5	mg/L				0.011	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Manganese	0.056	mg/L				0.00031	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Nickel	0.004	mg/L				0.0003	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Potassium	11	mg/L				0.24	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Silver	0.000036	mg/L		B		0.000033	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Sodium	560	mg/L				0.092	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Strontium	1	mg/L				0.0003	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Thallium	0.00011	mg/L		B		0.00005	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Titanium	0.0055	mg/L		B		0.0006	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Uranium	0.0018	mg/L				0.00005	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Vanadium	0.0018	mg/L		B		0.0005	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC748	METAL	Zinc	0.0038	mg/L		B		0.002	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Americium-241	-0.00488	pCi/L	0.0166	U		0.0374	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Neptunium-237	0	pCi/L	0.0407	U		0.034	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Plutonium-238	0.00337	pCi/L	0.0148	U		0.0258	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Plutonium-239/240	0.0168	pCi/L	0.0219	U		0.0323	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Technetium-99	0.185	pCi/L	0.377	U		0.648	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Thorium-228	0.0271	pCi/L	0.0214			0.0234	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Thorium-230	0.0036	pCi/L	0.0176	U		0.0327	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Thorium-232	0.0083	pCi/L	0.0131	U		0.0135	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Uranium-233/234	1.08	pCi/L	0.117			0.0249	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Uranium-235/236	0.0242	pCi/L	0.0274	U		0.0386	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC756	RADS	Uranium-238	0.495	pCi/L	0.0803			0.0312	WATER	WG	REG	BP	6/19/2013
WD-MW04B	DC750	WETCHEM	Chromium, hexavalent	0.0065	mg/L		BJ		0.004	WATER	WG	REG	BP	6/19/2013
WD-MW05B	WDMW05-01-02	ANION	Chloride	100	mg/L			XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-01-02	ANION	Fluoride	0.29	mg/L		B	XV	0.06	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-01-02	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-01-02	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-01-02	ANION	Sulfate	320	mg/L			XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Aluminum	0.039	mg/L		B	XV	0.018	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Arsenic	0.0032	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Arsenic	0.0034	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Barium	0.064	mg/L			XV	0.00058	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Barium	0.06	mg/L			XV	0.00058	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Cadmium	0.000064	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Calcium	96	mg/L			XV	0.035	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Calcium	89	mg/L			XV	0.035	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Chromium	0.0012	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-03-02	METAL	Iron	0.68	mg/L			XV	0.022	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Iron	0.58	mg/L			XV	0.022	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Magnesium	48	mg/L			XV	0.011	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Magnesium	47	mg/L			XV	0.011	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Manganese	0.33	mg/L			XV	0.00025	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Manganese	0.34	mg/L			XV	0.00025	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Molybdenum	0.082	mg/L			XV	0.00014	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Molybdenum	0.087	mg/L			XV	0.00014	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Nickel	0.0028	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Potassium	18	mg/L			XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Potassium	18	mg/L			XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Silver	0.0058	mg/L		B	XV	0.00093	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Sodium	120	mg/L			XV	0.092	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Sodium	120	mg/L			XV	0.092	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Uranium	0.00069	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Uranium	0.0008	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-03-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-04-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	PPCB	PCB-1221	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	PPCB	Polychlorinated biphenyl	0.098	ug/L		U	XV	0.098	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-09-02	RADS	Alpha activity	-0.0358	pCi/L	1.25	U	XV	9.69	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-09-02	RADS	Americium-241	0.0314	pCi/L	0.0127	U	XV	0.0343	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-09-02	RADS	Beta activity	10.1	pCi/L	1			3.39	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-09-02	RADS	Neptunium-237	0.00412	pCi/L	0.00714	U	XV	0.0395	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-09-02	RADS	Plutonium-238	0	pCi/L	0.00929	U		0.0571	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-09-02	RADS	Plutonium-239/240	0.0278	pCi/L	0.0123	U		0.0355	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-09-02	RADS	Technetium-99	1.8	pCi/L	1.68	U	XV	5.56	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-09-02	RADS	Uranium-233/234	0.597	pCi/L	0.052			0.0343	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-09-02	RADS	Uranium-235	0.0111	pCi/L	0.00959	U		0.0424	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-09-02	RADS	Uranium-238	0.264	pCi/L	0.0346	J		0.0342	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	1,3-Dichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2,4,6-Trichlorophenol	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2,4-Dichlorophenol	0.74	ug/L		U	XV	0.74	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2,4-Dimethylphenol	0.67	ug/L		U	XV	0.67	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2,4-Dinitrophenol	11	ug/L		U	XV	11	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-05-02	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U	XV	4.6	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2-Methylnaphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	2-Nitrophenol	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	4-Bromophenyl phenyl ether	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	4-Methylphenol	0.33	ug/L		J	XV	0.29	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Acenaphthene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Acenaphthylene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Anthracene	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Benz(a)anthracene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Benzo(a)pyrene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Benzo(b)fluoranthene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Benzo(ghi)perylene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Benzo(k)fluoranthene	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Benzoic acid	11	ug/L		U	XV	11	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Bis(2-ethylhexyl)phthalate	1.1	ug/L		J	XV	0.64	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Butyl benzyl phthalate	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Chrysene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Dibenzofuran	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Diethyl phthalate	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Dimethyl phthalate	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Di-n-butyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Di-n-octylphthalate	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Fluorene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Hexachlorobenzene	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Hexachlorobutadiene	3.8	ug/L		U	XV	3.8	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Hexachloroethane	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Isophorone	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Naphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Nitrobenzene	0.93	ug/L		U	XV	0.93	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-05-02	SVOA	Pyrene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	1,2-Dimethylbenzene	1.6	ug/L			XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-06-02	VOA	Acetone	19	ug/L			XV	1.9	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Benzene	5.4	ug/L			XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Ethylbenzene	0.47	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	M + P Xylene	2.4	ug/L			XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Methylene chloride	0.48	ug/L		J	XV	0.32	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Toluene	5.8	ug/L			XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-01-02	WETCHEM	Alkalinity	260	mg/L			XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-01-02	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-01-02	WETCHEM	Alkalinity as HCO3	260	mg/L			XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-02-02	WETCHEM	Ammonium Nitrogen	2.2	mg/L			XV	0.1	WATER	WG	REG	BP	12/7/2011
WD-MW05B	WDMW05-01-03	ANION	Chloride	110	mg/L			XV	1.3	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-01-03	ANION	Fluoride	0.31	mg/L		B	XV	0.06	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-01-03	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-01-03	ANION	Sulfate	240	mg/L			XV	1.2	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Arsenic	0.004	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Arsenic	0.003	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Barium	0.062	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Barium	0.064	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Calcium	77	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Calcium	80	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Iron	0.62	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Iron	0.73	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Lead	0.0011	mg/L			XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Magnesium	41	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Magnesium	43	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Manganese	0.31	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-04-03	METAL	Manganese	0.34	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Molybdenum	0.081	mg/L			XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Molybdenum	0.077	mg/L			XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Potassium	16	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Potassium	17	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Sodium	120	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Sodium	120	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Thallium	0.000057	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Uranium	0.00096	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Uranium	0.00095	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-03-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-04-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	PPCB	PCB-1221	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	PPCB	PCB-1232	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	PPCB	PCB-1242	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	PPCB	PCB-1248	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	PPCB	PCB-1254	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	PPCB	PCB-1260	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	PPCB	Polychlorinated biphenyl	0.092	ug/L		U	XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-09-03	RADS	Alpha activity	-1.72	pCi/L	1.53	U		14.6	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-09-03	RADS	Americium-241	0.0592	pCi/L	0.017	J		0.0348	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-09-03	RADS	Beta activity	6.43	pCi/L	2.64	U		13.9	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-09-03	RADS	Neptunium-237	-0.00438	pCi/L	0.0062	U		0.042	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-09-03	RADS	Plutonium-238	0.00543	pCi/L	0.00768	U		0.0416	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-09-03	RADS	Plutonium-239/240	0.0217	pCi/L	0.0121	U		0.0415	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-09-03	RADS	Technetium-99	1.02	pCi/L	1.66	U	XV	5.53	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-09-03	RADS	Uranium-233/234	0.676	pCi/L	0.0549			0.0338	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-09-03	RADS	Uranium-235	0.0273	pCi/L	0.0134	U		0.0417	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-09-03	RADS	Uranium-238	0.317	pCi/L	0.0376	J		0.0337	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	1,3-Dichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2,4,5-Trichlorophenol	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2,4,6-Trichlorophenol	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2,4-Dichlorophenol	0.73	ug/L		U	XV	0.73	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2,4-Dimethylphenol	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2,4-Dinitrophenol	11	ug/L		U	XV	11	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U	XV	4.6	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2-Methylnaphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	2-Nitrophenol	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-05-03	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	4-Bromophenyl phenyl ether	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	4-Methylphenol	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Acenaphthene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Acenaphthylene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Anthracene	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Benz(a)anthracene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Benzo(a)pyrene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Benzo(b)fluoranthene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Benzo(ghi)perylene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Benzo(k)fluoranthene	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Benzoic acid	11	ug/L		U	XV	11	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.64	ug/L		U	XV	0.64	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Butyl benzyl phthalate	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Chrysene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Dibenz(a,h)anthracene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Dibenzofuran	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Diethyl phthalate	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Dimethyl phthalate	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Di-n-butyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Di-n-octylphthalate	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Fluorene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Hexachlorobenzene	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Hexachlorobutadiene	3.8	ug/L		U	XV	3.8	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Hexachlorocyclopentadiene	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Hexachloroethane	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.74	ug/L		U	XV	0.74	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Isophorone	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Naphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Nitrobenzene	0.92	ug/L		U	XV	0.92	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	N-Nitrosodiphenylamine	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-05-03	SVOA	Pyrene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	1,2-Dimethylbenzene	1.3	ug/L			XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	2-Butanone	8.4	ug/L			XV	2	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Acetone	27	ug/L			XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Benzene	3.6	ug/L			XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Ethylbenzene	0.38	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	M + P Xylene	2.2	ug/L			XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Methylene chloride	0.43	ug/L		J	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Toluene	4	ug/L			XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-01-03	WETCHEM	Alkalinity	280	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-01-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-01-03	WETCHEM	Alkalinity as HCO3	280	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-02-03	WETCHEM	Ammonium Nitrogen	1.8	mg/L				0.1	WATER	WG	REG	BP	12/14/2011
WD-MW05B	WDMW05-01-04	ANION	Chloride	140	mg/L				1.3	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-01-04	ANION	Fluoride	0.3	mg/L		B		0.06	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-01-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-01-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-01-04	ANION	Sulfate	130	mg/L				1.2	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Arsenic	0.0025	mg/L		B		0.00033	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Arsenic	0.0028	mg/L		B		0.00033	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Barium	0.071	mg/L				0.00058	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Barium	0.07	mg/L				0.00058	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Cadmium	0.000079	mg/L		B		0.00004	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Calcium	69	mg/L				0.035	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Calcium	68	mg/L				0.035	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Chromium	0.0019	mg/L		B		0.00066	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Cobalt	0.0034	mg/L		B		0.0012	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Copper	0.0019	mg/L		B		0.0014	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Iron	0.82	mg/L				0.022	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Iron	1	mg/L				0.022	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Magnesium	36	mg/L				0.011	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Magnesium	35	mg/L				0.011	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Manganese	0.34	mg/L				0.00025	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Manganese	0.33	mg/L				0.00025	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Molybdenum	0.049	mg/L				0.00014	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Molybdenum	0.05	mg/L				0.00014	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Nickel	0.0042	mg/L		B		0.0013	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Nickel	0.002	mg/L		B		0.0013	WATER	WG	REG	BP	1/17/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-03-04	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Sodium	130	mg/L				0.092	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Sodium	130	mg/L				0.092	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Uranium	0.001	mg/L				0.00002	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Uranium	0.0011	mg/L				0.00002	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-03-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-04-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	PPCB	PCB-1221	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	PPCB	PCB-1254	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	PPCB	PCB-1260	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-09-04	RADS	Alpha activity	1.74	pCi/L	2.05	U		6.88	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-09-04	RADS	Americium-241	0.0278	pCi/L	0.016	U		0.0666	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-09-04	RADS	Beta activity	2.17	pCi/L	2.86	U		7.74	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-09-04	RADS	Neptunium-237	0	pCi/L	0.00728	U		0.0393	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-09-04	RADS	Plutonium-238	0.00656	pCi/L	0.00927	U		0.0502	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-09-04	RADS	Plutonium-239/240	0.0328	pCi/L	0.0197	U		0.0806	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-09-04	RADS	Technetium-99	0.183	pCi/L	1.66	U		5.57	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-09-04	RADS	Uranium-233/234	1.02	pCi/L	0.0707			0.0373	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-09-04	RADS	Uranium-235	0.0241	pCi/L	0.0135	U		0.046	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-09-04	RADS	Uranium-238	0.398	pCi/L	0.0443	J		0.0372	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	1,3-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2,4,5-Trichlorophenol	0.57	ug/L		U		0.57	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2,4-Dichlorophenol	0.81	ug/L		U		0.81	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2,4-Dimethylphenol	0.73	ug/L		U		0.73	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2-Chloronaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2-Methyl-4,6-dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2-Methylnaphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	2-Nitrophenol	0.49	ug/L		U		0.49	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	4-Bromophenyl phenyl ether	0.54	ug/L		U		0.54	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	4-Methylphenol	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-05-04	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Acenaphthylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Anthracene	0.53	ug/L		U		0.53	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Benz(a)anthracene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Benzo(a)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Benzo(b)fluoranthene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Benzo(ghi)perylene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Benzo(k)fluoranthene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Bis(2-ethylhexyl)phthalate	3.1	ug/L		BJ		0.71	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Chrysene	0.68	ug/L		U		0.68	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Dibenz(a,h)anthracene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Dibenzofuran	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Diethyl phthalate	0.48	ug/L		U		0.48	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Dimethyl phthalate	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Di-n-octylphthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Hexachlorobenzene	0.83	ug/L		U		0.83	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Hexachlorobutadiene	4.2	ug/L		U		4.2	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Hexachloroethane	2.7	ug/L		U		2.7	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.82	ug/L		U		0.82	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Isophorone	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Naphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	N-Nitroso-di-n-propylamine	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	N-Nitrosodiphenylamine	0.56	ug/L		U		0.56	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Phenanthrene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-05-04	SVOA	Pyrene	0.47	ug/L		U		0.47	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	1,2-Dimethylbenzene	0.44	ug/L		J		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Benzene	1.8	ug/L				0.16	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Ethylbenzene	0.18	ug/L		J		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	M + P Xylene	0.94	ug/L		J		0.34	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Toluene	0.63	ug/L		J		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-01-04	WETCHEM	Alkalinity	320	mg/L				1.1	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-01-04	WETCHEM	Alkalinity as HCO3	320	mg/L				1.1	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-02-04	WETCHEM	Ammonium Nitrogen	1.9	mg/L				0.1	WATER	WG	REG	BP	1/17/2012
WD-MW05B	WDMW05-01-05	ANION	Chloride	140	mg/L				1.3	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-01-05	ANION	Fluoride	0.29	mg/L		B		0.06	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-01-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-01-05	ANION	Sulfate	93	mg/L				1.2	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Arsenic	0.0025	mg/L		B		0.00033	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Arsenic	0.0024	mg/L		B		0.00033	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Barium	0.083	mg/L				0.00058	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Barium	0.082	mg/L				0.00058	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Calcium	65	mg/L				0.035	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Calcium	64	mg/L				0.035	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Chromium	0.00069	mg/L		B		0.00066	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Copper	0.0019	mg/L		B		0.0014	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Copper	0.0015	mg/L		B		0.0014	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Iron	1	mg/L				0.022	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Iron	1.1	mg/L				0.022	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Magnesium	34	mg/L				0.011	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Magnesium	34	mg/L				0.011	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Manganese	0.34	mg/L				0.00025	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Manganese	0.34	mg/L				0.00025	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Molybdenum	0.044	mg/L				0.00014	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Molybdenum	0.042	mg/L				0.00014	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Nickel	0.0017	mg/L		B		0.0013	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Sodium	140	mg/L				0.092	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-04-05	METAL	Sodium	130	mg/L				0.092	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Uranium	0.0013	mg/L				0.00002	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Uranium	0.0013	mg/L				0.00002	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-03-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-04-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-09-05	RADS	Alpha activity	3.77	pCi/L	2.39	U		6.08	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-09-05	RADS	Americium-241	0.0845	pCi/L	0.0199	J		0.034	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-09-05	RADS	Beta activity	8.89	pCi/L	2.47			4.86	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-09-05	RADS	Neptunium-237	0	pCi/L	0.00609	U		0.0329	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-09-05	RADS	Plutonium-238	-0.0106	pCi/L	-0.0106	U		0.0766	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-09-05	RADS	Plutonium-239/240	0	pCi/L	0.00752	U		0.0407	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-09-05	RADS	Technetium-99	-0.275	pCi/L	1.65	U		5.56	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-09-05	RADS	Uranium-233/234	0.969	pCi/L	0.0669			0.0351	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-09-05	RADS	Uranium-235	0.017	pCi/L	0.0113	U		0.0433	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-09-05	RADS	Uranium-238	0.37	pCi/L	0.0414	J		0.035	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	1,2,4-Trichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	1,3-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	1,4-Dichlorobenzene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2,4,5-Trichlorophenol	0.57	ug/L		U		0.57	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2,4-Dichlorophenol	0.82	ug/L		U		0.82	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2,4-Dimethylphenol	0.74	ug/L		U		0.74	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2-Chloronaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2-Chlorophenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2-Methyl-4,6-dinitrophenol	5.1	ug/L		U		5.1	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2-Methylnaphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	2-Nitrophenol	0.5	ug/L		U		0.5	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	3-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	4-Bromophenyl phenyl ether	0.55	ug/L		U		0.55	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	4-Chloro-3-methylphenol	3.1	ug/L		U		3.1	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	4-Methylphenol	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	4-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Acenaphthene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Acenaphthylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Anthracene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Benz(a)anthracene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Benzo(a)pyrene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Benzo(b)fluoranthene	0.68	ug/L		U		0.68	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Benzo(ghi)perylene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-05-05	SVOA	Benzo(k)fluoranthene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Bis(2-ethylhexyl)phthalate	3.1	ug/L		BJ		0.71	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Chrysene	0.69	ug/L		U		0.69	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Dibenz(a,h)anthracene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Dibenzofuran	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Diethyl phthalate	0.48	ug/L		U		0.48	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Dimethyl phthalate	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Di-n-octylphthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Fluoranthene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Fluorene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Hexachlorobenzene	0.84	ug/L		U		0.84	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Hexachlorobutadiene	4.2	ug/L		U		4.2	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Hexachlorocyclopentadiene	13	ug/L		U		13	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Hexachloroethane	2.7	ug/L		U		2.7	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.83	ug/L		U		0.83	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Isophorone	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Naphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	N-Nitroso-di-n-propylamine	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	N-Nitrosodiphenylamine	0.56	ug/L		U		0.56	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Pentachlorophenol	26	ug/L		U		26	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Phenanthrene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Phenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-05-05	SVOA	Pyrene	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	1,2-Dimethylbenzene	0.33	ug/L		J		0.19	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Acetone	98	ug/L				1.9	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Benzene	1.6	ug/L				0.16	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Ethylbenzene	0.19	ug/L		J		0.16	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	M + P Xylene	0.88	ug/L		J		0.34	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Methylene chloride	0.54	ug/L		BJ		0.32	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Toluene	0.32	ug/L		J		0.17	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-01-05	WETCHEM	Alkalinity	320	mg/L				1.1	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-01-05	WETCHEM	Alkalinity as HCO3	320	mg/L				1.1	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-02-05	WETCHEM	Ammonium Nitrogen	2.2	mg/L				0.1	WATER	WG	REG	BP	2/14/2012
WD-MW05B	WDMW05-01-06	ANION	Chloride	150	mg/L				1.3	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-01-06	ANION	Fluoride	0.24	mg/L		B		0.06	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-01-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-01-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-01-06	ANION	Sulfate	82	mg/L				1.2	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Arsenic	0.0024	mg/L		B		0.00033	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Arsenic	0.0019	mg/L		B		0.00033	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Barium	0.091	mg/L				0.00058	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Barium	0.092	mg/L				0.00058	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Calcium	61	mg/L				0.035	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Calcium	60	mg/L				0.035	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Iron	1.1	mg/L				0.022	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Iron	1.1	mg/L				0.022	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Magnesium	32	mg/L				0.011	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Magnesium	31	mg/L				0.011	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Manganese	0.31	mg/L				0.00025	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Manganese	0.31	mg/L				0.00025	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Molybdenum	0.034	mg/L				0.00014	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Molybdenum	0.034	mg/L				0.00014	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Nickel	0.0039	mg/L		B		0.0013	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Sodium	150	mg/L				0.092	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Sodium	140	mg/L				0.092	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Uranium	0.0013	mg/L				0.00002	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Uranium	0.0014	mg/L		B		0.0001	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-03-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Vanadium	0.0013	mg/L		B		0.0011	WATER	WG	REG	BP	3/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-04-06	METAL	Zinc	0.0046	mg/L		B		0.0045	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	PPCB	PCB-1221	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	PPCB	Polychlorinated biphenyl	0.094	ug/L		U		0.094	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-09-06	RADS	Alpha activity	4.89	pCi/L	2.6	U	U	6.17	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-09-06	RADS	Americium-241	0.0401	pCi/L	0.0174	U	U	0.0616	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-09-06	RADS	Beta activity	3.78	pCi/L	2.23	U	UJ	5.37	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-09-06	RADS	Neptunium-237	0.00459	pCi/L	0.00649	U	U	0.0351	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-09-06	RADS	Plutonium-238	0	pCi/L	0.0117	U	U	0.0632	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-09-06	RADS	Plutonium-239/240	0.0331	pCi/L	0.0185	U	U	0.0632	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-09-06	RADS	Technetium-99	0.594	pCi/L	1.67	U	U	5.59	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-09-06	RADS	Uranium-233/234	0.966	pCi/L	0.0688		=	0.0465	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-09-06	RADS	Uranium-235	0.012	pCi/L	0.012	U	U	0.0573	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-09-06	RADS	Uranium-238	0.401	pCi/L	0.0443		U	0.037	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	1,2,4-Trichlorobenzene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	1,2-Dichlorobenzene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	1,3-Dichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	1,4-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2,4,5-Trichlorophenol	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2,4,6-Trichlorophenol	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2,4-Dichlorophenol	0.71	ug/L		U		0.71	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2,4-Dimethylphenol	0.64	ug/L		U		0.64	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2,4-Dinitrophenol	11	ug/L		U		11	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2,4-Dinitrotoluene	1.8	ug/L		U		1.8	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2,6-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2-Chloronaphthalene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2-Chlorophenol	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.4	ug/L		U		4.4	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2-Methylnaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2-Nitrobenzenamine	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	2-Nitrophenol	0.43	ug/L		U		0.43	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	3,3'-Dichlorobenzidine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	3-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	4-Bromophenyl phenyl ether	0.48	ug/L		U		0.48	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U		2.7	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	4-Chlorophenyl phenyl ether	1.8	ug/L		U		1.8	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	4-Methylphenol	0.28	ug/L		U		0.28	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	4-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Acenaphthene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Acenaphthylene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Anthracene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Benz(a)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Benzo(a)pyrene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Benzo(b)fluoranthene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Benzo(ghi)perylene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Benzo(k)fluoranthene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Benzoic acid	11	ug/L		U		11	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Bis(2-ethylhexyl)phthalate	2.6	ug/L		BJ		0.62	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Butyl benzyl phthalate	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Chrysene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	3/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-05-06	SVOA	Dibenz(a,h)anthracene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Dibenzofuran	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Diethyl phthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Dimethyl phthalate	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Di-n-octylphthalate	0.39	ug/L		U		0.39	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Fluoranthene	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Fluorene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Hexachlorobenzene	0.73	ug/L		U		0.73	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Hexachlorobutadiene	3.6	ug/L		U		3.6	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Hexachlorocyclopentadiene	11	ug/L		U		11	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Hexachloroethane	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.72	ug/L		U		0.72	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Isophorone	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Naphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Nitrobenzene	0.9	ug/L		U		0.9	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	N-Nitroso-di-n-propylamine	0.39	ug/L		U		0.39	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	N-Nitrosodiphenylamine	0.49	ug/L		U		0.49	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Pentachlorophenol	22	ug/L		U		22	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Phenanthrene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Phenol	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-05-06	SVOA	Pyrene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	1,2-Dimethylbenzene	0.37	ug/L		J		0.19	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Acetone	10	ug/L				1.9	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Benzene	1.2	ug/L				0.16	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Ethylbenzene	0.22	ug/L		J		0.16	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	M + P Xylene	1.1	ug/L		J		0.34	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-01-06	WETCHEM	Alkalinity	330	mg/L				1.1	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-01-06	WETCHEM	Alkalinity as HCO3	330	mg/L				1.1	WATER	WG	REG	BP	3/14/2012
WD-MW05B	WDMW05-02-06	WETCHEM	Ammonium Nitrogen	2.1	mg/L				0.1	WATER	WG	REG	BP	3/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-01-07	ANION	Chloride	160	mg/L				1.3	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-01-07	ANION	Fluoride	0.23	mg/L		B		0.06	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-01-07	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-01-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-01-07	ANION	Sulfate	66	mg/L				1.2	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Arsenic	0.0022	mg/L		B		0.00033	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Arsenic	0.0015	mg/L		B		0.00033	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Barium	0.11	mg/L				0.00058	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Barium	0.1	mg/L				0.00058	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Cadmium	0.00012	mg/L		B		0.0001	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Calcium	59	mg/L				0.035	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Calcium	58	mg/L				0.035	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Copper	0.0018	mg/L		B		0.0014	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Copper	0.0014	mg/L		B		0.0014	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Iron	1.1	mg/L				0.022	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Iron	1.2	mg/L				0.022	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Magnesium	30	mg/L				0.011	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Magnesium	30	mg/L				0.011	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Manganese	0.3	mg/L				0.00025	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Manganese	0.28	mg/L				0.00025	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Molybdenum	0.032	mg/L				0.00014	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Molybdenum	0.027	mg/L				0.00014	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Nickel	0.0017	mg/L		B		0.0013	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Selenium	0.00086	mg/L		B		0.0007	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Sodium	150	mg/L				0.092	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Sodium	140	mg/L				0.092	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Uranium	0.0015	mg/L				0.00005	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Uranium	0.0014	mg/L				0.00005	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-04-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	PPCB	PCB-1221	0.28	ug/L		U		0.28	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	REG	BP	4/10/2012

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STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-05-07	PPCB	PCB-1254	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	PPCB	PCB-1260	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-09-07	RADS	Alpha activity	5.86	pCi/L	2.5	U	UJ	4.97	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-09-07	RADS	Americium-241	0.0429	pCi/L	0.0142	U	U	0.0328	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-09-07	RADS	Beta activity	4.49	pCi/L	1.86	U	UJ	4.09	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-09-07	RADS	Neptunium-237	0.0244	pCi/L	0.0129	U	U	0.0468	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-09-07	RADS	Plutonium-238	0	pCi/L	0.011	U	U	0.0644	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-09-07	RADS	Plutonium-239/240	0.0358	pCi/L	0.0141	U	U	0.0428	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-09-07	RADS	Technetium-99	-1.97	pCi/L	1.59	U	U	5.43	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-09-07	RADS	Uranium-233/234	1.2	pCi/L	0.0746		=	0.0354	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-09-07	RADS	Uranium-235	0.0228	pCi/L	0.0128	U	U	0.0436	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-09-07	RADS	Uranium-238	0.479	pCi/L	0.0472		=	0.0352	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Bis(2-ethylhexyl)phthalate	2.4	ug/L		BJ		0.67	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	WDMW05-05-07	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-05-07	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	1,2-Dimethylbenzene	0.47	ug/L		J		0.19	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Benzene	1.3	ug/L				0.16	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Ethylbenzene	0.24	ug/L		J		0.16	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	M + P Xylene	1.1	ug/L		J		0.34	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Methylene chloride	0.37	ug/L		BJ		0.32	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-01-07	WETCHEM	Alkalinity	330	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-01-07	WETCHEM	Alkalinity as HCO3	330	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-MW05B	WDMW05-02-07	WETCHEM	Ammonium Nitrogen	2.2	mg/L				0.1	WATER	WG	REG	BP	4/10/2012
WD-MW05B	QW201	ANION	Chloride	160000	ug/L				1300	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW201	ANION	Fluoride	270	ug/L		B		60	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW201	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW201	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW201	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW201	ANION	Sulfate	36000	ug/L				230	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	QW208	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0891	ng/L		J		2.5	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW208	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	HERB	2,4,5-T	0.101	ug/L		U		0.101	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	HERB	2,4-D	0.101	ug/L		U		0.101	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	HERB	2,4-DB	0.101	ug/L		U		0.101	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	HERB	Dalapon	1.52	ug/L		U		1.52	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	HERB	Dicamba	0.101	ug/L		U		0.101	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	HERB	Dichloroprop	0.101	ug/L		U		0.101	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	HERB	Dinoseb	0.101	ug/L		U		0.101	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	HERB	MCPA	13.4	ug/L		U		13.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	HERB	MCPP	12.2	ug/L		U		12.2	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	HERB	Silvex	0.101	ug/L		U		0.101	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Kepone	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	PCB-1016	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	PCB-1221	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	PCB-1232	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	PCB-1242	0.21	ug/L				0.0374	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	PCB-1248	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	PCB-1254	0.161	ug/L				0.0374	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	PCB-1260	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	PCB-1268	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	PPCB	Polychlorinated biphenyl	0.371	ug/L				0.0374	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	QW205	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	1,2,4-Trichlorobenzene	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	1,2-Dichlorobenzene	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	1,3-Dichlorobenzene	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	1,4-Dichlorobenzene	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2,4,5-Trichlorophenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2,4,6-Trichlorophenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2,4-Dichlorophenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2,4-Dimethylphenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2,4-Dinitrophenol	6.67	ug/L		U		6.67	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2,4-Dinitrotoluene	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2,6-Dinitrotoluene	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2-Chloronaphthalene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2-Chlorophenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2-Methyl-4,6-dinitrophenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2-Methylnaphthalene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2-Methylphenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2-Nitrobenzenamine	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	2-Nitrophenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	3,3'-Dichlorobenzidine	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	3-Nitrobenzenamine	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	4-Aminobiphenyl	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	4-Bromophenyl phenyl ether	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	4-Chloro-3-methylphenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	4-Chlorobenzenamine	4.4	ug/L		U		4.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	4-Chlorophenyl phenyl ether	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	4-Nitrobenzenamine	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	4-Nitrophenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Acenaphthene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Acenaphthylene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Acetophenone	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Anthracene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Benz(a)anthracene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Benzenemethanol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Benzo(a)pyrene	0.587	ug/L		U		0.587	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Benzo(b)fluoranthene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Benzo(ghi)perylene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Benzo(k)fluoranthene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Benzoic acid	8	ug/L		U		8	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Bis(2-chloroethoxy)methane	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Bis(2-chloroethyl) ether	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	bis(2-Chloroisopropyl)ether	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Bis(2-ethylhexyl)phthalate	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Butyl benzyl phthalate	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Chrysene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Dibenz(a,h)anthracene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Dibenzofuran	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Diethyl phthalate	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Dimethyl phthalate	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Di-n-butyl phthalate	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Di-n-octylphthalate	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Diphenylamine	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Fluoranthene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Fluorene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Hexachlorocyclopentadiene	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Hexachloroethane	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Indeno(1,2,3-cd)pyrene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Isophorone	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	QW205	SVOA	m+p Methylphenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Naphthalene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Nitrobenzene	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	N-Nitrosodimethylamine	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	N-Nitroso-di-n-propylamine	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	N-Nitrosomorpholine	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	O,O,O-Triethylphosphorothioate	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Pentachlorophenol	0.061	ug/L		U		0.061	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Phenanthrene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Phenol	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Pyrene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	SVOA	Pyridine	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW205	VOA	1,4-Dioxane	4	ug/L		U		4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Benzene	0.61	ug/L		J		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	M + P Xylene	0.34	ug/L		J		0.34	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Total Xylene	0.34	ug/L		J		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW206	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	QW201	WETCHEM	Alkalinity	340	mg/L				1.1	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW201	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW201	WETCHEM	Alkalinity as HCO3	340	mg/L				1.1	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW201	WETCHEM	Chromium, hexavalent	0.0051	mg/L		BJ		0.004	WATER	WG	REG	BP	9/24/2012
WD-MW05B	QW203	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Aluminum	0.02	mg/L		B		0.018	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Antimony	0.0029	mg/L				0.0004	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Antimony	0.0026	mg/L				0.0004	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Arsenic	0.0016	mg/L		B		0.00033	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Arsenic	0.0012	mg/L		B		0.00033	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Barium	0.12	mg/L				0.00029	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Barium	0.12	mg/L				0.00029	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Calcium	51	mg/L				0.035	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Calcium	54	mg/L				0.035	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Cobalt	0.00019	mg/L		B		0.000054	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Cobalt	0.00016	mg/L		B		0.000054	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Copper	0.00076	mg/L		B		0.00056	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Iron	0.82	mg/L				0.022	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Iron	0.56	mg/L				0.022	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Lithium	0.038	mg/L				0.0026	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Lithium	0.033	mg/L				0.0026	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Magnesium	26	mg/L				0.011	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Magnesium	28	mg/L				0.011	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Manganese	0.21	mg/L				0.00031	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Manganese	0.3	mg/L				0.00031	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Nickel	0.0014	mg/L		B		0.0003	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Nickel	0.0039	mg/L				0.0003	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Potassium	11	mg/L				0.24	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Potassium	10	mg/L				0.24	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Silver	0.0019	mg/L		B		0.000033	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Sodium	150	mg/L				0.092	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Sodium	160	mg/L				0.092	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Strontium	1.5	mg/L				0.0003	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Strontium	1.6	mg/L				0.0003	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Uranium	0.0017	mg/L				0.00005	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Uranium	0.002	mg/L				0.00005	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW203	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	QW203	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW204	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Americium-241	0.00355	pCi/L	0.0155	U		0.0271	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Neptunium-237	-0.00541	pCi/L	0.00791	U		0.02	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Plutonium-238	0.00756	pCi/L	0.0148	U		0.0113	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Plutonium-239/240	0.00755	pCi/L	0.0181	U		0.0289	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Technetium-99	0.111	pCi/L	0.391	U		0.677	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Thorium-228	0.0898	pCi/L	0.0221			0.0141	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Thorium-230	0.0399	pCi/L	0.0159			0.0165	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Thorium-232	0.0164	pCi/L	0.0105			0.0118	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Uranium-233/234	1.45	pCi/L	0.26			0.0889	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Uranium-235/236	0.0111	pCi/L	0.0415	U		0.0699	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW207	RADS	Uranium-238	0.737	pCi/L	0.185			0.0653	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW202	WETCHEM	Ammonium Nitrogen	2.3	mg/L				0.1	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW232	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW209	WETCHEM	Cyanide	0.005	mg/L		B		0.002	WATER	WG	REG	BP	9/25/2012
WD-MW05B	QW588	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW588	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	2,4,5-T	0.0943	ug/L		U		0.0943	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	2,4,5-T	0.111	ug/L		JU		0.111	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	2,4-D	0.0943	ug/L		U		0.0943	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	2,4-D	0.111	ug/L		JU		0.111	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	2,4-DB	0.0943	ug/L		U		0.0943	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	2,4-DB	0.111	ug/L		JU		0.111	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	Dalapon	1.42	ug/L		U		1.42	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	Dalapon	1.67	ug/L		JU		1.67	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	Dicamba	0.0943	ug/L		U		0.0943	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	Dicamba	0.111	ug/L		JU		0.111	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	Dichloroprop	0.0943	ug/L		U		0.0943	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	Dichloroprop	0.111	ug/L		JU		0.111	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	Dinoseb	0.0943	ug/L		U		0.0943	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	Dinoseb	0.111	ug/L		JU		0.111	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	MCPA	12.5	ug/L		U		12.5	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	MCPA	14.7	ug/L		JU		14.7	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	MCPP	11.4	ug/L		U		11.4	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	MCPP	13.3	ug/L		JU		13.3	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	Silvex	0.0943	ug/L		U		0.0943	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	HERB	Silvex	0.111	ug/L		JU		0.111	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	2,4'-DDD	0.00595	ug/L		U		0.00595	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	2,4'-DDE	0.00714	ug/L		U		0.00714	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	2,4'-DDT	0.00595	ug/L		U		0.00595	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	4,4'-DDD	0.0119	ug/L		U		0.0119	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	4,4'-DDE	0.0119	ug/L		U		0.0119	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	4,4'-DDT	0.0119	ug/L		U		0.0119	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Aldrin	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	QW585	PPCB	alpha-BHC	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	alpha-Chlordane	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	beta-BHC	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Chlordane	0.0911	ug/L		U		0.0911	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	delta-BHC	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Dieldrin	0.0119	ug/L		U		0.0119	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Endosulfan I	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Endosulfan II	0.0119	ug/L		U		0.0119	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Endosulfan sulfate	0.0119	ug/L		U		0.0119	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Endrin	0.0119	ug/L		U		0.0119	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Endrin aldehyde	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Endrin ketone	0.0119	ug/L		U		0.0119	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	gamma-Chlordane	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Heptachlor	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Heptachlor epoxide	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Kepone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Lindane	0.00792	ug/L		U		0.00792	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Methoxychlor	0.0595	ug/L		U		0.0595	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	PCB-1016	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	PCB-1221	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	PCB-1232	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	PCB-1242	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	PCB-1248	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	PCB-1254	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	PCB-1260	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	PCB-1268	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Polychlorinated biphenyl	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	PPCB	Toxaphene	0.179	ug/L		U		0.179	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Americium-241	0.00242	pCi/L	0.0106	U		0.0185	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Neptunium-237	0.0051	pCi/L	0.0187	U		0.0341	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Plutonium-238	0.00184	pCi/L	0.00952	U		0.0176	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Plutonium-239/240	0.00184	pCi/L	0.00952	U		0.0176	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Technetium-99	-0.155	pCi/L	0.304	U		0.534	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Thorium-228	0.00467	pCi/L	0.0105	U		0.018	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Thorium-230	0.00619	pCi/L	0.0126	U		0.0216	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Thorium-232	-0.00208	pCi/L	0.00701	U		0.0157	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Uranium-233/234	1.58	pCi/L	0.177			0.0385	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Uranium-235/236	0.0506	pCi/L	0.0377			0.019	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW587	RADS	Uranium-238	0.653	pCi/L	0.114			0.0301	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	1,2,4-Trichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	1,2-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	1,3-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	1,4-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2,4,5-Trichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2,4,6-Trichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2,4-Dichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2,4-Dimethylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2,4-Dinitrophenol	6.49	ug/L		U		6.49	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2,4-Dinitrotoluene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2,6-Dinitrotoluene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2-Chloronaphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2-Chlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2-Methyl-4,6-dinitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2-Methylnaphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2-Methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	2-Nitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	3,3'-Dichlorobenzidine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	3-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	4-Aminobiphenyl	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	QW585	SVOA	4-Bromophenyl phenyl ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	4-Chloro-3-methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	4-Chlorobenzenamine	4.29	ug/L		U		4.29	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	4-Chlorophenyl phenyl ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	4-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	4-Nitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Acenaphthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Acenaphthylene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Acetophenone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Benz(a)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Benzenemethanol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Benzo(a)pyrene	0.571	ug/L		U		0.571	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Benzo(b)fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Benzo(ghi)perylene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Benzo(k)fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Benzoic acid	7.79	ug/L		U		7.79	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Bis(2-chloroethoxy)methane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Bis(2-chloroethyl) ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	bis(2-Chloroisopropyl)ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Bis(2-ethylhexyl)phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Butyl benzyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Chrysene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Dibenz(a,h)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Dibenzofuran	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Diethyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Dimethyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Di-n-butyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Di-n-octylphthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Diphenylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Hexachlorobenzene	0.00744	ug/L		U		0.00744	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Hexachlorocyclopentadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Hexachloroethane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Indeno(1,2,3-cd)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Isophorone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	m+p Methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Naphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Nitrobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	N-Nitrosodimethylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	N-Nitroso-di-n-propylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	N-Nitrosomorpholine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	O,O,O-Triethylphosphorothioate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Pentachlorophenol	0.0568	ug/L		U		0.0568	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Pentachlorophenol	0.0667	ug/L		JU		0.0667	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Phenanthrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Phenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	SVOA	Pyridine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	QW586	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	1,2-Dimethylbenzene	0.52	ug/L		J		0.19	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW585	VOA	1,4-Dioxane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Acetone	7.8	ug/L		J		1.9	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Benzene	2.9	ug/L				0.16	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Ethylbenzene	0.5	ug/L		J		0.16	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	M + P Xylene	1.5	ug/L		J		0.34	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Total Xylene	2.1	ug/L				0.19	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW586	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW582	WETCHEM	Ammonium Nitrogen	2.2	mg/L				0.1	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW589	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/6/2012
WD-MW05B	QW581R	ANION	Chloride	160000	ug/L				1300	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW581R	ANION	Fluoride	270	ug/L		B		60	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW581R	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW581R	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW581R	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW581R	ANION	Sulfate	26000	ug/L				230	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Antimony	0.0004	mg/L		B		0.0004	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Antimony	0.00046	mg/L		B		0.0004	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Arsenic	0.0023	mg/L		B		0.00033	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Arsenic	0.0022	mg/L		B		0.00033	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Barium	0.14	mg/L				0.00029	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Barium	0.14	mg/L				0.00029	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Calcium	50	mg/L				0.035	WATER	WG	REG	BP	12/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	QW584R	METAL	Calcium	42	mg/L				0.035	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Cobalt	0.00018	mg/L		B		0.000054	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Cobalt	0.00013	mg/L		B		0.000054	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Copper	0.00069	mg/L		B		0.00056	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Iron	0.98	mg/L				0.022	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Iron	1.1	mg/L				0.022	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Lithium	0.042	mg/L				0.0026	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Lithium	0.037	mg/L				0.0026	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Magnesium	25	mg/L				0.011	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Magnesium	21	mg/L				0.011	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Manganese	0.2	mg/L				0.00031	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Manganese	0.21	mg/L				0.00031	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Nickel	0.0013	mg/L		B		0.0003	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Nickel	0.0017	mg/L		B		0.0003	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Potassium	9.2	mg/L				0.24	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Potassium	8.9	mg/L				0.24	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Silver	0.000039	mg/L		B		0.000033	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Silver	0.00019	mg/L		B		0.000033	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Sodium	150	mg/L				0.092	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Sodium	160	mg/L				0.092	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Strontium	1.4	mg/L				0.0003	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Strontium	1.3	mg/L				0.0003	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Titanium	0.0006	mg/L		B		0.0006	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Uranium	0.0017	mg/L				0.00005	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Uranium	0.0016	mg/L				0.00005	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW583R	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW584R	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW581R	WETCHEM	Alkalinity	330	mg/L				1.1	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW581R	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW581R	WETCHEM	Alkalinity as HCO3	330	mg/L				1.1	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW590R	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	12/10/2012
WD-MW05B	QW591R	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	12/10/2012
WD-MW05B	DC757	ANION	Chloride	160	mg/L				1.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC757	ANION	Fluoride	0.22	mg/L		B		0.06	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC757	ANION	Nitrate	0.1	mg/L		B		0.042	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC757	ANION	Nitrite as Nitrogen	0.049	mg/L		U		0.049	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC757	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC757	ANION	Sulfate	16	mg/L				0.23	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	DC764	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0232	ng/L		U		0.0232	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00465	ng/L		U		0.00465	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00465	ng/L		U		0.00465	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0465	ng/L		U		0.0465	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC764	DI/FURA	Octachlorodibenzofuran	0.0465	ng/L		U		0.0465	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	HERB	2,4,5-T	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	HERB	2,4-D	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	HERB	2,4-DB	0.106	ug/L		U		0.106	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	HERB	Dalapon	1.33	ug/L		U		1.33	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	HERB	Dicamba	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	HERB	Dichloroprop	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	HERB	Dinoseb	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	HERB	MCPA	11.7	ug/L		U		11.7	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	HERB	MCPP	10.6	ug/L		U		10.6	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	HERB	Silvex	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Aluminum	0.034	mg/L		B		0.018	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Antimony	0.0017	mg/L		B		0.0004	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Arsenic	0.0017	mg/L		B		0.00033	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Arsenic	0.0017	mg/L		B		0.00033	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Barium	0.15	mg/L				0.00029	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Barium	0.14	mg/L				0.00029	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Calcium	44	mg/L				0.035	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Calcium	40	mg/L				0.035	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Chromium	0.00066	mg/L		B		0.0005	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Cobalt	0.000093	mg/L		B		0.000054	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Cobalt	0.0011	mg/L				0.000054	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Copper	0.00061	mg/L		B		0.00056	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Copper	0.00087	mg/L		B		0.00056	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Iron	0.87	mg/L				0.022	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Iron	1	mg/L				0.022	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Lithium	0.033	mg/L				0.0026	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Lithium	0.036	mg/L				0.0026	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Magnesium	22	mg/L				0.011	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Magnesium	19	mg/L				0.011	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Manganese	0.17	mg/L				0.00031	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Manganese	0.16	mg/L				0.00031	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Nickel	0.0018	mg/L		B		0.0003	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Nickel	0.00096	mg/L		B		0.0003	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Potassium	8.3	mg/L				0.24	WATER	WG	REG	BP	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	DC760	METAL	Potassium	8.3	mg/L				0.24	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Silver	0.000095	mg/L		B		0.000033	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Silver	0.00025	mg/L		B		0.000033	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Sodium	140	mg/L				0.092	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Sodium	140	mg/L				0.092	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Strontium	1.4	mg/L				0.0003	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Strontium	1.2	mg/L				0.0003	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Titanium	0.00081	mg/L		B		0.0006	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Uranium	0.0018	mg/L				0.00005	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Uranium	0.0016	mg/L				0.00005	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC759	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC760	METAL	Zinc	0.0028	mg/L		B		0.002	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	PCB-1016	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	PCB-1221	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	PCB-1232	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	PCB-1242	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	PCB-1248	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	PCB-1254	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	PCB-1260	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	PCB-1268	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Polychlorinated biphenyl	0.034	ug/L		U		0.034	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC767	RADS	Americium-241	0	pCi/L	0.0193	U		0.0209	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC767	RADS	Neptunium-237	0.0133	pCi/L	0.0246	U		0.0364	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC767	RADS	Plutonium-238	0.00813	pCi/L	0.0159	U		0.0122	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC767	RADS	Plutonium-239/240	0.00407	pCi/L	0.0211	U		0.0389	WATER	WG	REG	BP	6/19/2013

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STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	DC767	RADS	Technetium-99	-0.0281	pCi/L	0.34	U		0.601	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC767	RADS	Thorium-228	-0.00382	pCi/L	0.0159	U		0.0349	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC767	RADS	Thorium-230	0.0114	pCi/L	0.0281	U		0.0496	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC767	RADS	Thorium-232	0.00293	pCi/L	0.0121	U		0.0157	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC767	RADS	Uranium-233/234	1.48	pCi/L	0.143			0.0625	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC767	RADS	Uranium-235/236	0.00839	pCi/L	0.0232	U		0.0402	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC767	RADS	Uranium-238	0.6	pCi/L	0.0904			0.0375	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2-Chloronaphthalene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Benzo(a)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Bis(2-chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Di-n-butyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	DC763	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Isophorone	3.5	ug/L		U		3.5	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	m,p-cresol	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Pentachlorophenol	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Phenol	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC763	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Benzene	0.47	ug/L		J		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW05B	DC766	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC766	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC757	WETCHEM	Alkalinity	310	mg/L				1.1	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC757	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC757	WETCHEM	Alkalinity as HCO3	310	mg/L				1.1	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC758	WETCHEM	Ammonia	2.1	mg/L				0.022	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC758	WETCHEM	Ammonium Nitrogen	2.1	mg/L				0.1	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC761	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC762	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC765	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/19/2013
WD-MW05B	DC757	WETCHEM	Dissolved Solids	580	mg/L		J		4.7	WATER	WG	REG	BP	6/19/2013
WD-MW06B	WDMW06-01-02	ANION	Chloride	380	mg/L			XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-01-02	ANION	Fluoride	0.94	mg/L			XV	0.06	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-01-02	ANION	Nitrate	0.042	mg/L		JU	XV	0.042	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-01-02	ANION	Orthophosphate	0.19	mg/L		JU	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-01-02	ANION	Sulfate	39	mg/L			XV	0.23	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Aluminum	0.16	mg/L			XV	0.018	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Aluminum	3.8	mg/L			XV	0.018	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Antimony	0.014	mg/L			XV	0.0031	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Antimony	0.011	mg/L			XV	0.0031	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Arsenic	0.035	mg/L			XV	0.00033	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Arsenic	0.039	mg/L			XV	0.00033	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Barium	0.038	mg/L			XV	0.00058	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Barium	0.055	mg/L			XV	0.00058	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Cadmium	0.00015	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Cadmium	0.000042	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Calcium	18	mg/L			XV	0.035	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Calcium	18	mg/L			XV	0.035	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Chromium	0.011	mg/L			XV	0.00066	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Cobalt	0.0017	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Cobalt	0.0031	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Copper	0.0055	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Iron	0.094	mg/L		B	XV	0.022	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Iron	4	mg/L			XV	0.022	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Lead	0.00064	mg/L		B	XV	0.00018	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Magnesium	6.7	mg/L			XV	0.011	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Magnesium	7.3	mg/L			XV	0.011	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Manganese	0.039	mg/L			XV	0.00025	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Manganese	0.08	mg/L			XV	0.00025	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Molybdenum	0.17	mg/L			XV	0.00014	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Molybdenum	0.19	mg/L			XV	0.00014	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Nickel	0.0026	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Nickel	0.014	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-03-02	METAL	Potassium	14	mg/L			XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Potassium	16	mg/L			XV	0.24	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Sodium	330	mg/L			XV	0.092	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Sodium	320	mg/L			XV	0.092	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Uranium	0.0033	mg/L			XV	0.00002	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Uranium	0.0032	mg/L			XV	0.00002	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Vanadium	0.0018	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Vanadium	0.019	mg/L			XV	0.0011	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-03-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-04-02	METAL	Zinc	0.019	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	PPCB	PCB-1221	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	PPCB	PCB-1232	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	PPCB	PCB-1242	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	PPCB	Polychlorinated biphenyl	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-09-02	RADS	Alpha activity	0.00362	pCi/L	1.46	U	XV	11.3	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-09-02	RADS	Americium-241	0.0398	pCi/L	0.0149	U	XV	0.0381	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-09-02	RADS	Beta activity	4.4	pCi/L	0.838			3.51	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-09-02	RADS	Neptunium-237	0	pCi/L	0.00889	U	XV	0.0546	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-09-02	RADS	Plutonium-238	-0.0053	pCi/L	-0.014	U		0.0857	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-09-02	RADS	Plutonium-239/240	0.0371	pCi/L	0.015	U		0.0406	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-09-02	RADS	Technetium-99	4.65	pCi/L	1.7	U	XV	5.51	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-09-02	RADS	Uranium-233/234	3.52	pCi/L	0.125			0.0337	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-09-02	RADS	Uranium-235	0.0597	pCi/L	0.0188	U		0.0415	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-09-02	RADS	Uranium-238	1.3	pCi/L	0.0756			0.0335	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2,4,5-Trichlorophenol	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2,4-Dichlorophenol	0.78	ug/L		U	XV	0.78	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2,4-Dimethylphenol	0.71	ug/L		U	XV	0.71	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2,4-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2-Chloronaphthalene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2-Chlorophenol	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.9	ug/L		U	XV	4.9	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2-Methylnaphthalene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	2-Nitrophenol	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	3-Nitrobenzenamine	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	4-Bromophenyl phenyl ether	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	4-Chloro-3-methylphenol	3	ug/L		U	XV	3	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	4-Methylphenol	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	4-Nitrobenzenamine	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	4-Nitrophenol	1.5	ug/L		U	XV	1.5	WATER	WG	REG	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-05-02	SVOA	Acenaphthene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Acenaphthylene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Anthracene	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Benz(a)anthracene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Benzo(a)pyrene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Benzo(b)fluoranthene	0.65	ug/L		U	XV	0.65	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Benzo(ghi)perylene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Chrysene	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Dibenz(a,h)anthracene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Dibenzofuran	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Diethyl phthalate	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Dimethyl phthalate	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Di-n-octylphthalate	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Fluoranthene	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Fluorene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Hexachlorobenzene	0.81	ug/L		U	XV	0.81	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Hexachlorobutadiene	4	ug/L		U	XV	4	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Hexachloroethane	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.8	ug/L		U	XV	0.8	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Isophorone	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Naphthalene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Nitrobenzene	0.99	ug/L		U	XV	0.99	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	N-Nitroso-di-n-propylamine	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	N-Nitrosodiphenylamine	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Pentachlorophenol	25	ug/L		U	XV	25	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Phenanthrene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Phenol	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-05-02	SVOA	Pyrene	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	1,2-Dimethylbenzene	0.33	ug/L		J	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	2-Butanone	9.1	ug/L			XV	2	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Acetone	44	ug/L			XV	1.9	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Benzene	9.1	ug/L			XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Ethylbenzene	0.4	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	M + P Xylene	1.2	ug/L		J	XV	0.34	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Methylene chloride	1.4	ug/L		J	XV	0.32	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Toluene	1.1	ug/L			XV	0.17	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-01-02	WETCHEM	Alkalinity	330	mg/L			XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-01-02	WETCHEM	Alkalinity as CO3	11	mg/L			XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-01-02	WETCHEM	Alkalinity as HCO3	320	mg/L			XV	1.1	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-02-02	WETCHEM	Ammonium Nitrogen	2.4	mg/L			XV	0.1	WATER	WG	REG	BP	12/7/2011
WD-MW06B	WDMW06-01-03	ANION	Chloride	420	mg/L			XV	5.1	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-01-03	ANION	Fluoride	0.78	mg/L			XV	0.06	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-01-03	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-01-03	ANION	Sulfate	30	mg/L			XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Aluminum	0.15	mg/L			XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Aluminum	3.6	mg/L			XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Antimony	0.0094	mg/L		B	XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Antimony	0.012	mg/L			XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Arsenic	0.04	mg/L			XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Arsenic	0.037	mg/L			XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Barium	0.046	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Barium	0.073	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Cadmium	0.000048	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Calcium	19	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Calcium	22	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Chromium	0.0057	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Cobalt	0.0016	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Copper	0.0025	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Iron	0.11	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Iron	2.2	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Lead	0.0018	mg/L			XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Magnesium	7.2	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Magnesium	8.9	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Manganese	0.043	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Manganese	0.073	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Molybdenum	0.15	mg/L			XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Molybdenum	0.089	mg/L			XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Nickel	0.0015	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Nickel	0.0065	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Potassium	14	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Potassium	15	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Sodium	380	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-04-03	METAL	Sodium	450	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Thallium	0.000059	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Uranium	0.0035	mg/L			XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Uranium	0.0033	mg/L			XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Vanadium	0.0017	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Vanadium	0.015	mg/L			XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-03-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-04-03	METAL	Zinc	0.0088	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	PPCB	PCB-1221	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	PPCB	PCB-1248	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	PPCB	PCB-1260	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	PPCB	Polychlorinated biphenyl	0.097	ug/L		U	XV	0.097	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-09-03	RADS	Alpha activity	-1.98	pCi/L	1.75	U		16.7	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-09-03	RADS	Americium-241	0.0385	pCi/L	0.0144	U		0.0368	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-09-03	RADS	Beta activity	7.66	pCi/L	2.71	U		14.1	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-09-03	RADS	Neptunium-237	-0.00824	pCi/L	0.00714	U		0.0507	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-09-03	RADS	Plutonium-238	0.0118	pCi/L	0.0118	U		0.0564	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-09-03	RADS	Plutonium-239/240	0.0235	pCi/L	0.0132	U		0.045	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-09-03	RADS	Technetium-99	0.904	pCi/L	1.66	U	XV	5.55	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-09-03	RADS	Uranium-233/234	3.72	pCi/L	0.129			0.034	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-09-03	RADS	Uranium-235	0.0604	pCi/L	0.019	U		0.042	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-09-03	RADS	Uranium-238	1.19	pCi/L	0.0727			0.0339	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	1,3-Dichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2,4,5-Trichlorophenol	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2,4,6-Trichlorophenol	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2,4-Dichlorophenol	0.73	ug/L		U	XV	0.73	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2,4-Dimethylphenol	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2,4-Dinitrophenol	11	ug/L		U	XV	11	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U	XV	4.6	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2-Methylnaphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	2-Nitrophenol	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	4-Bromophenyl phenyl ether	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Acenaphthene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Acenaphthylene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Anthracene	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Benz(a)anthracene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Benzo(a)pyrene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Benzo(b)fluoranthene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Benzo(ghi)perylene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	12/14/2011

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STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-05-03	SVOA	Benzo(k)fluoranthene	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Benzoic acid	11	ug/L		U	XV	11	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.64	ug/L		U	XV	0.64	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Butyl benzyl phthalate	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Chrysene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Dibenz(a,h)anthracene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Dibenzofuran	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Diethyl phthalate	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Dimethyl phthalate	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Di-n-butyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Di-n-octylphthalate	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Fluorene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Hexachlorobenzene	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Hexachlorobutadiene	3.8	ug/L		U	XV	3.8	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Hexachlorocyclopentadiene	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Hexachloroethane	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.74	ug/L		U	XV	0.74	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Isophorone	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Naphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Nitrobenzene	0.92	ug/L		U	XV	0.92	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	N-Nitrosodiphenylamine	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-05-03	SVOA	Pyrene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	1,2-Dimethylbenzene	0.19	ug/L		J	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	2-Butanone	12	ug/L			XV	2	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Acetone	33	ug/L			XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Benzene	5.2	ug/L			XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Ethylbenzene	0.27	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	M + P Xylene	0.75	ug/L		J	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Methylene chloride	1.1	ug/L		J	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Toluene	0.46	ug/L		J	XV	0.17	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-01-03	WETCHEM	Alkalinity	360	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-01-03	WETCHEM	Alkalinity as CO3	13	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-01-03	WETCHEM	Alkalinity as HCO3	340	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-MW06B	WDMW06-01-04	ANION	Chloride	410	mg/L				5.1	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-01-04	ANION	Fluoride	0.8	mg/L				0.06	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-01-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-01-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-01-04	ANION	Sulfate	24	mg/L				0.23	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Aluminum	0.15	mg/L				0.018	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Aluminum	2.2	mg/L				0.018	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Antimony	0.0098	mg/L		B		0.0031	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Antimony	0.0092	mg/L		B		0.0031	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Arsenic	0.027	mg/L				0.00033	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Arsenic	0.029	mg/L				0.00033	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Barium	0.051	mg/L				0.00058	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Barium	0.068	mg/L				0.00058	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Calcium	22	mg/L				0.035	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Chromium	0.0053	mg/L		B		0.00066	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Cobalt	0.0014	mg/L		B		0.0012	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Cobalt	0.0021	mg/L		B		0.0012	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Copper	0.0017	mg/L		B		0.0014	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Copper	0.0032	mg/L		B		0.0014	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Iron	0.13	mg/L				0.022	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Iron	2.4	mg/L				0.022	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Lead	0.0016	mg/L				0.00018	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Magnesium	7.8	mg/L				0.011	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Magnesium	8.7	mg/L				0.011	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Manganese	0.049	mg/L				0.00025	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Manganese	0.075	mg/L				0.00025	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Molybdenum	0.12	mg/L				0.00014	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Molybdenum	0.081	mg/L				0.00014	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Nickel	0.0032	mg/L		B		0.0013	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Nickel	0.0076	mg/L		B		0.0013	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Sodium	420	mg/L				0.092	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Sodium	460	mg/L				0.092	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Thallium	0.000082	mg/L		B		0.000033	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Uranium	0.0045	mg/L				0.00002	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Uranium	0.0049	mg/L				0.00002	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Vanadium	0.0016	mg/L		B		0.0011	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-04-04	METAL	Vanadium	0.012	mg/L				0.0011	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-03-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-04-04	METAL	Zinc	0.0076	mg/L		B		0.0045	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-09-04	RADS	Alpha activity	0.834	pCi/L	2.63	U		10.7	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-09-04	RADS	Americium-241	0.017	pCi/L	0.0134	U		0.0611	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-09-04	RADS	Beta activity	2.4	pCi/L	2.96	U		8	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-09-04	RADS	Neptunium-237	0	pCi/L	0.00706	U		0.0382	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-09-04	RADS	Plutonium-238	0	pCi/L	0.00929	U		0.0628	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-09-04	RADS	Plutonium-239/240	0.00656	pCi/L	0.00928	U		0.0502	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-09-04	RADS	Technetium-99	-0.343	pCi/L	1.66	U		5.58	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-09-04	RADS	Uranium-233/234	4.48	pCi/L	0.146			0.0361	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-09-04	RADS	Uranium-235	0.134	pCi/L	0.0285	J		0.0446	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-09-04	RADS	Uranium-238	1.86	pCi/L	0.0937			0.036	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U		0.53	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2,4-Dichlorophenol	0.75	ug/L		U		0.75	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2,4-Dimethylphenol	0.68	ug/L		U		0.68	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U		4.7	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	2-Nitrophenol	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U		0.5	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	4-Methylphenol	0.29	ug/L		U		0.29	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Acenaphthylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Anthracene	0.49	ug/L		U		0.49	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Benz(a)anthracene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Benzo(a)pyrene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Benzo(ghi)perylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Bis(2-ethylhexyl)phthalate	3.1	ug/L		BJ		0.66	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Chrysene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	1/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-05-04	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Di-n-octylphthalate	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Fluorene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Hexachlorobenzene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U		1.8	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.76	ug/L		U		0.76	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Nitrobenzene	0.95	ug/L		U		0.95	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U		0.52	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-05-04	SVOA	Pyrene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Benzene	3.3	ug/L				0.16	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Ethylbenzene	0.16	ug/L		J		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-01-04	WETCHEM	Alkalinity	380	mg/L				1.1	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-01-04	WETCHEM	Alkalinity as CO3	6.8	mg/L				1.1	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-01-04	WETCHEM	Alkalinity as HCO3	370	mg/L				1.1	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-02-04	WETCHEM	Ammonium Nitrogen	2.2	mg/L				0.1	WATER	WG	REG	BP	1/17/2012
WD-MW06B	WDMW06-01-05	ANION	Chloride	530	mg/L				5.1	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-01-05	ANION	Fluoride	0.75	mg/L				0.06	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-01-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-01-05	ANION	Sulfate	19	mg/L				0.23	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Aluminum	0.19	mg/L				0.018	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Aluminum	2.1	mg/L				0.018	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Antimony	0.0058	mg/L		B		0.0031	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Antimony	0.0087	mg/L		B		0.0031	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Arsenic	0.024	mg/L				0.00033	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Arsenic	0.03	mg/L				0.00033	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Barium	0.054	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Barium	0.071	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Cadmium	0.00012	mg/L		B		0.00004	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Cadmium	0.00015	mg/L		B		0.00004	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Calcium	21	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Chromium	0.005	mg/L		B		0.00066	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Cobalt	0.0016	mg/L		B		0.0012	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Copper	0.0025	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Copper	0.0032	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Iron	0.12	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Iron	2	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Lead	0.0014	mg/L				0.00018	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Magnesium	7.9	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Magnesium	8.5	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Manganese	0.051	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Manganese	0.075	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Molybdenum	0.092	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Molybdenum	0.065	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Nickel	0.0031	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Nickel	0.0063	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Sodium	450	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Sodium	470	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Thallium	0.000051	mg/L		B		0.000033	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Uranium	0.005	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Uranium	0.0053	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Vanadium	0.011	mg/L				0.0011	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-03-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-04-05	METAL	Zinc	0.0078	mg/L		B		0.0045	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-05-05	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-09-05	RADS	Alpha activity	-0.193	pCi/L	4.62	U		20.1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-09-05	RADS	Americium-241	0.0602	pCi/L	0.0182	U		0.0528	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-09-05	RADS	Beta activity	17	pCi/L	8.08	U		19.1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-09-05	RADS	Neptunium-237	0	pCi/L	0.00705	U		0.0381	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-09-05	RADS	Plutonium-238	-0.011	pCi/L	-0.00949	U		0.0674	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-09-05	RADS	Plutonium-239/240	-0.00547	pCi/L	-0.00774	U		0.0524	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-09-05	RADS	Technetium-99	1.05	pCi/L	1.66	U		5.54	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-09-05	RADS	Uranium-233/234	4.81	pCi/L	0.148			0.0349	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-09-05	RADS	Uranium-235	0.0788	pCi/L	0.0218	J		0.0431	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-09-05	RADS	Uranium-238	1.62	pCi/L	0.0859			0.0348	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	1,3-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2,4,5-Trichlorophenol	0.56	ug/L		U		0.56	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2,4-Dichlorophenol	0.8	ug/L		U		0.8	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2,4-Dimethylphenol	0.73	ug/L		U		0.73	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2-Chloronaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2-Methyl-4,6-dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2-Methylnaphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	2-Nitrophenol	0.49	ug/L		U		0.49	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	4-Bromophenyl phenyl ether	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	4-Methylphenol	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Acenaphthylene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Anthracene	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Benz(a)anthracene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Benzo(a)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Benzo(b)fluoranthene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Benzo(ghi)perylene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Benzo(k)fluoranthene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Bis(2-ethylhexyl)phthalate	3.2	ug/L		BJ		0.7	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Chrysene	0.68	ug/L		U		0.68	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Dibenz(a,h)anthracene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Dibenzofuran	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Diethyl phthalate	0.48	ug/L		U		0.48	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Dimethyl phthalate	0.26	ug/L		U		0.26	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Di-n-octylphthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-05-05	SVOA	Hexachlorobenzene	0.83	ug/L		U		0.83	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Hexachlorobutadiene	4.1	ug/L		U		4.1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Hexachlorocyclopentadiene	13	ug/L		U		13	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.81	ug/L		U		0.81	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Naphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	N-Nitroso-di-n-propylamine	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	N-Nitrosodiphenylamine	0.55	ug/L		U		0.55	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Phenanthrene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-05-05	SVOA	Pyrene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Benzene	3.2	ug/L				0.16	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Methylene chloride	0.67	ug/L		BJ		0.32	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-01-05	WETCHEM	Alkalinity	390	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-01-05	WETCHEM	Alkalinity as CO3	13	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-01-05	WETCHEM	Alkalinity as HCO3	380	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-02-05	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-MW06B	WDMW06-01-06	ANION	Chloride	580	mg/L				5.1	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-01-06	ANION	Fluoride	0.76	mg/L				0.06	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-01-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-01-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-01-06	ANION	Sulfate	15	mg/L				0.23	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Aluminum	0.1	mg/L				0.018	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Aluminum	1.2	mg/L				0.018	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-04-06	METAL	Antimony	0.0035	mg/L		B		0.0031	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Arsenic	0.024	mg/L				0.00033	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Arsenic	0.028	mg/L				0.00033	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Barium	0.055	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Barium	0.066	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Cadmium	0.000082	mg/L		B		0.00004	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Calcium	22	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Chromium	0.0024	mg/L		B		0.00066	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Copper	0.002	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Copper	0.0036	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Iron	0.096	mg/L		B		0.022	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Iron	1.7	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Lead	0.001	mg/L				0.00018	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Magnesium	7.6	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Magnesium	8.2	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Manganese	0.05	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Manganese	0.071	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Mercury	0.00003	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Mercury	0.000033	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Molybdenum	0.084	mg/L				0.00014	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Molybdenum	0.062	mg/L				0.00014	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Nickel	0.0023	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Nickel	0.0051	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Sodium	480	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Sodium	500	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Thallium	0.000049	mg/L		B		0.000033	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Uranium	0.0056	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Uranium	0.0056	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Vanadium	0.0061	mg/L		B		0.0011	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-04-06	METAL	Zinc	0.0085	mg/L		B		0.0045	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-09-06	RADS	Alpha activity	6.53	pCi/L	5.11	U	U	15.1	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-09-06	RADS	Americium-241	0.0193	pCi/L	0.0136	U	U	0.0593	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-09-06	RADS	Beta activity	-3.15	pCi/L	5.38	U	U	16.2	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-09-06	RADS	Neptunium-237	0.0136	pCi/L	0.00904	U	U	0.0346	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-09-06	RADS	Plutonium-238	-0.00557	pCi/L	-0.00965	U	U	0.0685	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-09-06	RADS	Plutonium-239/240	0.0334	pCi/L	0.0158	U	U	0.0533	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-09-06	RADS	Technetium-99	-0.811	pCi/L	1.67	U	U	5.65	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-09-06	RADS	Uranium-233/234	4.84	pCi/L	0.154		=	0.0471	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-09-06	RADS	Uranium-235	0.109	pCi/L	0.0271	J	J	0.058	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-09-06	RADS	Uranium-238	1.8	pCi/L	0.094		=	0.0469	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2,4,5-Trichlorophenol	0.55	ug/L		U		0.55	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2,4-Dichlorophenol	0.78	ug/L		U		0.78	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2-Chloronaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Benzo(ghi)perylene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Bis(2-ethylhexyl)phthalate	3.3	ug/L		BJ		0.68	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Dibenz(a,h)anthracene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Di-n-butyl phthalate	2.2	ug/L		J		1.4	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Hexachlorobenzene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-05-06	SVOA	Nitrobenzene	0.98	ug/L		U		0.98	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Phenanthrene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-05-06	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Benzene	2	ug/L				0.16	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-01-06	WETCHEM	Alkalinity	410	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-01-06	WETCHEM	Alkalinity as HCO3	410	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-02-06	WETCHEM	Ammonium Nitrogen	2.2	mg/L				0.1	WATER	WG	REG	BP	3/19/2012
WD-MW06B	WDMW06-01-07	ANION	Chloride	590	mg/L				5.1	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-01-07	ANION	Fluoride	0.71	mg/L				0.06	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-01-07	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-01-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-01-07	ANION	Sulfate	14	mg/L				0.23	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Aluminum	0.16	mg/L				0.018	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Aluminum	2.4	mg/L				0.018	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Antimony	0.0045	mg/L		B		0.0031	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Antimony	0.0084	mg/L		B		0.0031	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Arsenic	0.022	mg/L				0.00033	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Arsenic	0.025	mg/L				0.00033	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Barium	0.062	mg/L				0.00058	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Barium	0.079	mg/L				0.00058	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Cadmium	0.00031	mg/L		B		0.0001	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Calcium	21	mg/L				0.035	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Calcium	23	mg/L				0.035	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Chromium	0.0036	mg/L		B		0.00066	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Copper	0.0016	mg/L		B		0.0014	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Copper	0.0032	mg/L		B		0.0014	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Iron	0.14	mg/L				0.022	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Iron	1.9	mg/L				0.022	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Lead	0.001	mg/L				0.00018	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Magnesium	7.8	mg/L				0.011	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Magnesium	8.6	mg/L				0.011	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Manganese	0.053	mg/L				0.00025	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Manganese	0.073	mg/L				0.00025	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Molybdenum	0.07	mg/L				0.00014	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Molybdenum	0.051	mg/L				0.00014	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Nickel	0.0025	mg/L		B		0.0013	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Nickel	0.0051	mg/L		B		0.0013	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Sodium	530	mg/L				0.092	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Sodium	540	mg/L				0.092	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Uranium	0.0053	mg/L				0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Uranium	0.0055	mg/L				0.00005	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Vanadium	0.0012	mg/L		B		0.0011	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Vanadium	0.012	mg/L				0.0011	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-04-07	METAL	Zinc	0.0071	mg/L		B		0.0045	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	PPCB	Polychlorinated biphenyl	0.097	ug/L		U		0.097	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-09-07	RADS	Alpha activity	22.6	pCi/L	7.39		=	11.9	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-09-07	RADS	Americium-241	0.018	pCi/L	0.018	U	U	0.086	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-09-07	RADS	Beta activity	7.9	pCi/L	3.76	U	UJ	8.27	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-09-07	RADS	Neptunium-237	0.00491	pCi/L	0.00694	U	U	0.0376	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-09-07	RADS	Plutonium-238	0.0192	pCi/L	0.0107	U	U	0.0368	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-09-07	RADS	Plutonium-239/240	0.0336	pCi/L	0.0136	U	U	0.0368	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-09-07	RADS	Technetium-99	0.781	pCi/L	1.64	U	U	5.46	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-09-07	RADS	Uranium-233/234	5.06	pCi/L	0.152		=	0.035	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-09-07	RADS	Uranium-235	0.062	pCi/L	0.0218	U	U	0.0694	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-09-07	RADS	Uranium-238	2.07	pCi/L	0.0972		=	0.0436	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/11/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-05-07	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U		0.53	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2,4-Dichlorophenol	0.75	ug/L		U		0.75	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2,4-Dimethylphenol	0.68	ug/L		U		0.68	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U		4.7	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	2-Nitrophenol	0.46	ug/L		U		0.46	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	4-Methylphenol	0.29	ug/L		U		0.29	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Acenaphthylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Benz(a)anthracene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Benzo(ghi)perylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Bis(2-ethylhexyl)phthalate	2.5	ug/L		BJ		0.66	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Chrysene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Di-n-octylphthalate	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Hexachlorobenzene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.77	ug/L		U		0.77	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Nitrobenzene	0.96	ug/L		U		0.96	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-05-07	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	WDMW06-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Benzene	2.3	ug/L				0.16	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-01-07	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-01-07	WETCHEM	Alkalinity as CO3	2.1	mg/L		B		1.1	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-01-07	WETCHEM	Alkalinity as HCO3	410	mg/L				1.1	WATER	WG	REG	BP	4/11/2012
WD-MW06B	WDMW06-02-07	WETCHEM	Ammonium Nitrogen	2.1	mg/L				0.1	WATER	WG	REG	BP	4/11/2012
WD-MW06B	QW210	ANION	Chloride	620000	ug/L				5100	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW210	ANION	Fluoride	710	ug/L				60	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW210	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW210	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW210	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW210	ANION	Sulfate	8600	ug/L				230	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW217	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.118	ng/L		J		2.5	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	QW217	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	2,4,5-T	0.083	ug/L		U		0.083	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	2,4,5-T	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	2,4-D	0.083	ug/L		U		0.083	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	2,4-D	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	2,4-DB	0.083	ug/L		U		0.083	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	2,4-DB	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	Dalapon	1.25	ug/L		U		1.25	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	Dalapon	1.49	ug/L		U		1.49	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	Dicamba	0.083	ug/L		U		0.083	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	Dicamba	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	Dichloroprop	0.083	ug/L		U		0.083	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	Dichloroprop	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	Dinoseb	0.083	ug/L		U		0.083	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	Dinoseb	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	MCPA	11	ug/L		U		11	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	MCPA	13.1	ug/L		U		13.1	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	MCPP	10	ug/L		U		10	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	MCPP	11.9	ug/L		U		11.9	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	Silvex	0.083	ug/L		U		0.083	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	HERB	Silvex	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Aluminum	0.35	mg/L				0.018	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Aluminum	1.8	mg/L				0.018	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Antimony	0.0084	mg/L				0.0004	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Antimony	0.0075	mg/L				0.0004	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Arsenic	0.019	mg/L				0.00033	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Arsenic	0.021	mg/L				0.00033	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Barium	0.07	mg/L				0.00029	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Barium	0.069	mg/L				0.00029	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Beryllium	0.000083	mg/L		B		0.00008	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Calcium	22	mg/L				0.035	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Chromium	0.0037	mg/L				0.0005	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Cobalt	0.00075	mg/L		B		0.000054	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Cobalt	0.0024	mg/L				0.000054	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Copper	0.0034	mg/L				0.00056	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Iron	0.19	mg/L				0.022	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Iron	2.5	mg/L				0.022	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Lead	0.0019	mg/L				0.00018	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Lithium	0.046	mg/L				0.0026	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Lithium	0.044	mg/L				0.0026	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Magnesium	7.5	mg/L				0.011	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Magnesium	8.5	mg/L				0.011	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Manganese	0.054	mg/L				0.00031	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Manganese	0.078	mg/L				0.00031	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Nickel	0.0053	mg/L				0.0003	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Nickel	0.011	mg/L				0.0003	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	QW213	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Silver	0.00043	mg/L		B		0.000033	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Sodium	540	mg/L				0.092	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Sodium	570	mg/L				0.092	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Strontium	0.69	mg/L				0.0003	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Strontium	0.76	mg/L				0.0003	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Thallium	0.00012	mg/L		B		0.00005	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Titanium	0.0049	mg/L		B		0.0006	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Titanium	0.056	mg/L				0.0006	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Uranium	0.0054	mg/L				0.00005	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Uranium	0.0059	mg/L				0.00005	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Vanadium	0.0011	mg/L		B		0.0005	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Vanadium	0.0074	mg/L				0.0005	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW212	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW213	METAL	Zinc	0.0075	mg/L		B		0.002	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Kepone	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW216	RADS	Americium-241	0	pCi/L	0.0311	U		0.0607	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW216	RADS	Neptunium-237	-0.00296	pCi/L	0.0101	U		0.0227	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW216	RADS	Plutonium-238	0.00375	pCi/L	0.0127	U		0.0112	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW216	RADS	Plutonium-239/240	0	pCi/L	0.0147	U		0.0286	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW216	RADS	Technetium-99	0.057	pCi/L	0.402	U		0.712	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW216	RADS	Thorium-228	0.187	pCi/L	0.0322			0.0109	WATER	WG	REG	BP	9/24/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	QW216	RADS	Thorium-230	0.131	pCi/L	0.0278			0.0202	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW216	RADS	Thorium-232	0.0959	pCi/L	0.0224			0.00631	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW216	RADS	Uranium-233/234	5.19	pCi/L	0.322			0.0604	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW216	RADS	Uranium-235/236	0.0606	pCi/L	0.0452			0.0509	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW216	RADS	Uranium-238	2.4	pCi/L	0.219			0.0365	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	1,2,4-Trichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	1,2-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	1,3-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	1,4-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2,4,5-Trichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2,4,6-Trichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2,4-Dichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2,4-Dimethylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2,4-Dinitrophenol	5.88	ug/L		U		5.88	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2,4-Dinitrotoluene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2,6-Dinitrotoluene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2-Chloronaphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2-Chlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2-Methyl-4,6-dinitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2-Methylnaphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2-Methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	2-Nitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	3,3'-Dichlorobenzidine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	3-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	4-Aminobiphenyl	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	4-Bromophenyl phenyl ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	4-Chloro-3-methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	4-Chlorobenzenamine	3.88	ug/L		U		3.88	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	4-Chlorophenyl phenyl ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	4-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	4-Nitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Acenaphthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Acenaphthylene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Acetophenone	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Benz(a)anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Benzenemethanol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Benzo(a)pyrene	0.518	ug/L		U		0.518	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Benzo(b)fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Benzo(ghi)perylene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Benzo(k)fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Benzoic acid	7.06	ug/L		U		7.06	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Bis(2-chloroethoxy)methane	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Bis(2-chloroethyl) ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	bis(2-Chloroisopropyl)ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Bis(2-ethylhexyl)phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Butyl benzyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Chrysene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Dibenz(a,h)anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Dibenzofuran	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Diethyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Dimethyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Di-n-butyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Di-n-octylphthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Diphenylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Fluorene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Hexachlorobutadiene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	QW214	SVOA	Hexachlorocyclopentadiene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Hexachloroethane	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Indeno(1,2,3-cd)pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Isophorone	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	m+p Methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Naphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Nitrobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	N-Nitrosodimethylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	N-Nitroso-di-n-propylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	N-Nitrosomorpholine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	O,O,O-Triethylphosphorothioate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Pentachlorophenol	0.05	ug/L		U		0.05	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Pentachlorophenol	0.0595	ug/L		U		0.0595	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Phenanthrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Phenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	SVOA	Pyridine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW214	VOA	1,4-Dioxane	3.53	ug/L		U		3.53	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	QW215	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW215	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW210	WETCHEM	Alkalinity	440	mg/L				1.1	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW210	WETCHEM	Alkalinity as CO3	11	mg/L				1.1	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW210	WETCHEM	Alkalinity as HCO3	430	mg/L				1.1	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW211	WETCHEM	Ammonium Nitrogen	2.6	mg/L				0.1	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW210	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW218	WETCHEM	Cyanide	0.0039	mg/L		B		0.002	WATER	WG	REG	BP	9/24/2012
WD-MW06B	QW228	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	9/26/2012
WD-MW06B	QW600	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW600	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	2,4,5-T	0.112	ug/L		U		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	2,4,5-T	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	2,4-D	0.112	ug/L		U		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	2,4-D	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	2,4-DB	0.112	ug/L		U		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	2,4-DB	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	Dalapon	1.69	ug/L		U		1.69	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	Dalapon	1.45	ug/L		JU		1.45	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	Dicamba	0.112	ug/L		U		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	Dicamba	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	Dichloroprop	0.112	ug/L		U		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	Dichloroprop	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	Dinoseb	0.112	ug/L		U		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	Dinoseb	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	MCPA	14.9	ug/L		U		14.9	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	MCPA	12.8	ug/L		JU		12.8	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	MCPP	13.5	ug/L		U		13.5	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	MCPP	11.6	ug/L		JU		11.6	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	Silvex	0.112	ug/L		U		0.112	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	HERB	Silvex	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	2,4'-DDD	0.005	ug/L		U		0.005	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	2,4'-DDE	0.006	ug/L		U		0.006	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	2,4'-DDT	0.005	ug/L		U		0.005	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	4,4'-DDD	0.01	ug/L		U		0.01	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	4,4'-DDE	0.01	ug/L		U		0.01	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	4,4'-DDT	0.01	ug/L		U		0.01	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Aldrin	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	alpha-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	alpha-Chlordane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	beta-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Chlordane	0.0765	ug/L		U		0.0765	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	QW597	PPCB	delta-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Dieldrin	0.01	ug/L		U		0.01	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Endosulfan I	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Endosulfan II	0.01	ug/L		U		0.01	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Endosulfan sulfate	0.01	ug/L		U		0.01	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Endrin	0.01	ug/L		U		0.01	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Endrin aldehyde	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Endrin ketone	0.01	ug/L		U		0.01	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	gamma-Chlordane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Heptachlor	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Heptachlor epoxide	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Lindane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Methoxychlor	0.05	ug/L		U		0.05	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	PCB-1016	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	PCB-1221	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	PCB-1232	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	PCB-1242	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	PCB-1248	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	PCB-1254	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	PCB-1260	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	PCB-1268	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Polychlorinated biphenyl	0.0392	ug/L		U		0.0392	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	PPCB	Toxaphene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	QW597	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Hexachlorobenzene	0.00625	ug/L		U		0.00625	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Pentachlorophenol	0.0676	ug/L		U		0.0676	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Pentachlorophenol	0.0581	ug/L		JU		0.0581	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW597	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	QW598	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW598	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW603	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	12/4/2012
WD-MW06B	QW593	ANION	Chloride	630000	ug/L				5100	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW593	ANION	Fluoride	620	ug/L				60	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW593	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW593	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW593	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW593	ANION	Sulfate	9700	ug/L				230	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Aluminum	2.1	mg/L				0.018	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Aluminum	4	mg/L				0.018	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Antimony	0.0056	mg/L				0.0004	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Antimony	0.0066	mg/L				0.0004	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Arsenic	0.021	mg/L				0.00033	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Arsenic	0.022	mg/L				0.00033	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Barium	0.083	mg/L				0.00029	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Barium	0.092	mg/L				0.00029	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Beryllium	0.000081	mg/L		B		0.00008	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Beryllium	0.00016	mg/L		B		0.00008	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Cadmium	0.00011	mg/L		B		0.0001	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Cadmium	0.00019	mg/L		B		0.0001	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Calcium	20	mg/L				0.035	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Calcium	21	mg/L				0.035	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Chromium	0.0038	mg/L				0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Chromium	0.0092	mg/L				0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Cobalt	0.0035	mg/L				0.000054	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Cobalt	0.0034	mg/L				0.000054	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Copper	0.0018	mg/L		B		0.00056	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Copper	0.0066	mg/L				0.00056	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Iron	1.4	mg/L				0.022	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Iron	4.7	mg/L				0.022	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Lead	0.00089	mg/L		B		0.00018	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Lead	0.0033	mg/L				0.00018	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Lithium	0.056	mg/L				0.0026	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Lithium	0.058	mg/L				0.0026	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Magnesium	7.9	mg/L				0.011	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	QW596	METAL	Magnesium	8.6	mg/L				0.011	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Manganese	0.066	mg/L				0.00031	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Manganese	0.097	mg/L				0.00031	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Nickel	0.0065	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Nickel	0.016	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Silver	0.00027	mg/L		B		0.000033	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Silver	0.0064	mg/L				0.000033	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Sodium	530	mg/L				0.092	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Sodium	570	mg/L				0.092	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Strontium	0.76	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Strontium	0.77	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Thallium	0.000051	mg/L		B		0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Thallium	0.00012	mg/L		B		0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Titanium	0.08	mg/L				0.0006	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Titanium	0.11	mg/L				0.0006	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Uranium	0.0053	mg/L				0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Uranium	0.0062	mg/L				0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Vanadium	0.011	mg/L				0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Vanadium	0.013	mg/L				0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW595	METAL	Zinc	0.005	mg/L		B		0.002	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW596	METAL	Zinc	0.015	mg/L				0.002	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Americium-241	0.00389	pCi/L	0.012	U		0.0215	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Neptunium-237	-0.00276	pCi/L	0.0143	U		0.0305	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Plutonium-238	-0.00976	pCi/L	0.0101	U		0.0262	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Plutonium-239/240	-0.00195	pCi/L	0.00855	U		0.0187	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Technetium-99	-0.253	pCi/L	0.309	U		0.547	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Thorium-228	0.0935	pCi/L	0.0275			0.0181	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Thorium-230	0.123	pCi/L	0.032			0.0239	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Thorium-232	0.057	pCi/L	0.0221			0.0181	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Uranium-233/234	4.77	pCi/L	0.309			0.106	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Uranium-235/236	0.0625	pCi/L	0.0649	U		0.101	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW599	RADS	Uranium-238	2.12	pCi/L	0.207			0.0775	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW593	WETCHEM	Alkalinity	440	mg/L				1.1	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW593	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW593	WETCHEM	Alkalinity as HCO3	440	mg/L				1.1	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW594	WETCHEM	Ammonium Nitrogen	2.4	mg/L				0.1	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW602	WETCHEM	Chromium, hexavalent	0.039	mg/L		J		0.004	WATER	WG	REG	BP	12/5/2012
WD-MW06B	QW601	WETCHEM	Cyanide	0.0026	mg/L		B		0.002	WATER	WG	REG	BP	12/5/2012
WD-MW06B	DC780	ANION	Chloride	670	mg/L				5.1	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC780	ANION	Fluoride	0.53	mg/L				0.06	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC780	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC780	ANION	Nitrite as Nitrogen	0.049	mg/L		U		0.049	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC780	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC780	ANION	Sulfate	6.5	mg/L				0.23	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	DC787	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00412	ng/L		U		0.00412	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00412	ng/L		U		0.00412	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0412	ng/L		U		0.0412	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC787	DI/FURA	Octachlorodibenzofuran	0.0412	ng/L		U		0.0412	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	HERB	2,4,5-T	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	HERB	2,4-D	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	HERB	2,4-DB	0.102	ug/L		U		0.102	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	HERB	Dalapon	1.28	ug/L		U		1.28	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	HERB	Dicamba	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	HERB	Dichloroprop	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	HERB	Dinoseb	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	HERB	MCPA	11.2	ug/L		U		11.2	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	HERB	MCPP	10.2	ug/L		U		10.2	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	HERB	Silvex	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Aluminum	0.083	mg/L		B		0.018	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Aluminum	3.7	mg/L				0.018	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Antimony	0.0043	mg/L				0.0004	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Antimony	0.0021	mg/L				0.0004	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Arsenic	0.017	mg/L				0.00033	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Arsenic	0.018	mg/L				0.00033	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Barium	0.082	mg/L				0.00029	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Barium	0.079	mg/L				0.00029	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Beryllium	0.00013	mg/L		B		0.00008	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Cadmium	0.00016	mg/L		B		0.0001	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Calcium	19	mg/L				0.035	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Calcium	18	mg/L				0.035	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Chromium	0.0055	mg/L				0.0005	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Cobalt	0.0011	mg/L				0.000054	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Cobalt	0.0033	mg/L				0.000054	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Copper	0.00082	mg/L		B		0.00056	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Copper	0.0044	mg/L				0.00056	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Iron	0.14	mg/L				0.022	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Iron	4.1	mg/L				0.022	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Lead	0.0026	mg/L				0.00018	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Lithium	0.049	mg/L				0.0026	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Lithium	0.055	mg/L				0.0026	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Magnesium	6.9	mg/L				0.011	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Magnesium	6.4	mg/L				0.011	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Manganese	0.056	mg/L				0.00031	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Manganese	0.083	mg/L				0.00031	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Nickel	0.0025	mg/L				0.0003	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Nickel	0.011	mg/L				0.0003	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Potassium	10	mg/L				0.24	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Potassium	11	mg/L				0.24	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	DC783	METAL	Silver	0.00012	mg/L		B		0.000033	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Sodium	540	mg/L				0.092	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Sodium	550	mg/L				0.092	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Strontium	0.73	mg/L				0.0003	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Strontium	0.65	mg/L				0.0003	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Thallium	0.00013	mg/L		B		0.00005	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Titanium	0.0018	mg/L		B		0.0006	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Titanium	0.11	mg/L				0.0006	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Uranium	0.0044	mg/L				0.00005	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Uranium	0.0042	mg/L				0.00005	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Vanadium	0.00059	mg/L		B		0.0005	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Vanadium	0.013	mg/L				0.0005	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC782	METAL	Zinc	0.0067	mg/L		B		0.002	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC783	METAL	Zinc	0.012	mg/L				0.002	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	2,4'-DDD	0.0061	ug/L		U		0.0061	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	2,4'-DDE	0.00732	ug/L		U		0.00732	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	2,4'-DDT	0.0061	ug/L		U		0.0061	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	4,4'-DDD	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	4,4'-DDE	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	4,4'-DDT	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Aldrin	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	alpha-BHC	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	alpha-Chlordane	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	beta-BHC	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Chlordane	0.0933	ug/L		U		0.0933	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	delta-BHC	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Dieldrin	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Endosulfan I	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Endosulfan II	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Endosulfan sulfate	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Endrin	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Endrin aldehyde	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Endrin ketone	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	gamma-Chlordane	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Heptachlor	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Heptachlor epoxide	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Kepone	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Lindane	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Methoxychlor	0.061	ug/L		U		0.061	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	PCB-1016	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	PCB-1221	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	PCB-1232	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	PCB-1242	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	PCB-1248	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	PCB-1254	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	PCB-1260	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	PCB-1268	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Polychlorinated biphenyl	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	PPCB	Toxaphene	0.183	ug/L		U		0.183	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC790	RADS	Americium-241	0.00513	pCi/L	0.0174	U		0.0154	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC790	RADS	Neptunium-237	0.00244	pCi/L	0.0284	U		0.0496	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC790	RADS	Plutonium-238	-0.00534	pCi/L	0.0148	U		0.0329	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC790	RADS	Plutonium-239/240	0.00534	pCi/L	0.0128	U		0.0204	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC790	RADS	Technetium-99	0.259	pCi/L	0.402	U		0.684	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC790	RADS	Thorium-228	0.274	pCi/L	0.0548			0.0212	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC790	RADS	Thorium-230	0.262	pCi/L	0.0549			0.034	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC790	RADS	Thorium-232	0.188	pCi/L	0.0449			0.0125	WATER	WG	REG	BP	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	DC790	RADS	Uranium-233/234	4.21	pCi/L	0.243			0.0278	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC790	RADS	Uranium-235/236	0.117	pCi/L	0.0465			0.0135	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC790	RADS	Uranium-238	1.89	pCi/L	0.163			0.0278	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	1,2,4-Trichlorobenzene	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	1,2-Dichlorobenzene	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	1,3-Dichlorobenzene	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	1,4-Dichlorobenzene	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2,4,5-Trichlorophenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2,4,6-Trichlorophenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2,4-Dichlorophenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2,4-Dimethylphenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2,4-Dinitrophenol	5.21	ug/L		U		5.21	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2,4-Dinitrotoluene	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2,6-Dinitrotoluene	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2-Chloronaphthalene	0.427	ug/L		U		0.427	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2-Chlorophenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2-Methyl-4,6-dinitrophenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2-Methylnaphthalene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2-Methylphenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2-Nitrobenzenamine	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	2-Nitrophenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	3,3'-Dichlorobenzidine	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	3-Nitrobenzenamine	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	4-Aminobiphenyl	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	4-Bromophenyl phenyl ether	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	4-Chloro-3-methylphenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	4-Chlorobenzenamine	3.44	ug/L		U		3.44	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	4-Chlorophenyl phenyl ether	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	4-Nitrobenzenamine	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	4-Nitrophenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Acenaphthene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Acenaphthylene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Acetophenone	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Anthracene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Benz(a)anthracene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Benzenemethanol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Benzo(a)pyrene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Benzo(b)fluoranthene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Benzo(ghi)perylene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Benzo(k)fluoranthene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Benzoic acid	6.25	ug/L		U		6.25	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Bis(2-chloroethoxy)methane	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Bis(2-chloroethyl) ether	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Bis(2-chloroisopropyl)ether	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Bis(2-ethylhexyl)phthalate	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Butyl benzyl phthalate	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Chrysene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Dibenz(a,h)anthracene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Dibenzofuran	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Diethyl phthalate	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Dimethyl phthalate	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Di-n-butyl phthalate	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Di-n-octylphthalate	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Diphenylamine	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Fluoranthene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Fluorene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Hexachlorobenzene	0.00762	ug/L		U		0.00762	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Hexachlorobutadiene	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Hexachlorocyclopentadiene	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Hexachloroethane	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	DC786	SVOA	Indeno(1,2,3-cd)pyrene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Isophorone	3.65	ug/L		U		3.65	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	m,p-cresol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Naphthalene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Nitrobenzene	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	N-Nitrosodimethylamine	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	N-Nitroso-di-n-propylamine	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	N-Nitrosomorpholine	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	O,O,O-Triethylphosphorothioate	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Pentachlorophenol	0.051	ug/L		U		0.051	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Phenanthrene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Phenol	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Pyrene	0.313	ug/L		U		0.313	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	SVOA	Pyridine	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC786	VOA	1,4-Dioxane	3.13	ug/L		U		3.13	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW06B	DC789	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC789	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC780	WETCHEM	Alkalinity	440	mg/L				1.1	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC780	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC780	WETCHEM	Alkalinity as HCO3	440	mg/L				1.1	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC781	WETCHEM	Ammonia	2.6	mg/L				0.022	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC781	WETCHEM	Ammonium Nitrogen	2.6	mg/L				0.1	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC784	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC785	WETCHEM	Chromium, hexavalent	0.0048	mg/L		BJ		0.004	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC788	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/19/2013
WD-MW06B	DC780	WETCHEM	Dissolved Solids	750	mg/L		J		4.7	WATER	WG	REG	BP	6/19/2013
WD-MW07B	WDMW07-01-01	ANION	Chloride	170000	ug/L				1300	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-01-01	ANION	Fluoride	420	ug/L		B		60	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-01-01	ANION	Nitrate	53	ug/L		B		42	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-01-01	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-01-01	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-01-01	ANION	Sulfate	93000	ug/L				1200	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0714	ng/L		J		2.5	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-31-01	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	HERB	2,4,5-T	0.0912	ug/L		U		0.0912	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	HERB	2,4-D	0.0912	ug/L		U		0.0912	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	HERB	2,4-DB	0.0912	ug/L		U		0.0912	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	HERB	Dalapon	1.37	ug/L		U		1.37	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	HERB	Dicamba	0.0912	ug/L		U		0.0912	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	HERB	Dichloroprop	0.0912	ug/L		U		0.0912	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	HERB	Dinoseb	0.0912	ug/L		U		0.0912	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	HERB	MCPA	12.1	ug/L		U		12.1	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	HERB	MCPP	11	ug/L		U		11	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	HERB	Silvex	0.0912	ug/L		U		0.0912	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Aluminum	0.099	mg/L		B		0.018	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Antimony	0.00062	mg/L		B		0.0004	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Antimony	0.00046	mg/L		B		0.0004	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Arsenic	0.0024	mg/L		B		0.00033	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Arsenic	0.0037	mg/L		B		0.00033	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Barium	0.19	mg/L				0.00029	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Barium	0.2	mg/L				0.00029	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	WDMW07-03-01	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Calcium	42	mg/L				0.035	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Calcium	43	mg/L				0.035	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Chromium	0.0012	mg/L		B		0.0005	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Cobalt	0.00086	mg/L		B		0.000054	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Cobalt	0.00099	mg/L		B		0.000054	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Copper	0.0017	mg/L		B		0.00056	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Iron	0.045	mg/L		B		0.022	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Iron	0.48	mg/L				0.022	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Lead	0.00065	mg/L		B		0.00018	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Lithium	0.046	mg/L				0.0026	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Lithium	0.043	mg/L				0.0026	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Magnesium	19	mg/L				0.011	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Magnesium	19	mg/L				0.011	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Manganese	0.069	mg/L				0.00031	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Manganese	0.079	mg/L				0.00031	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Nickel	0.0079	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Nickel	0.011	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Silver	0.00069	mg/L		B		0.000033	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Sodium	240	mg/L				0.092	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Sodium	250	mg/L				0.092	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Strontium	1.5	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Strontium	1.6	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Thallium	0.00049	mg/L		B		0.00005	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Titanium	0.0015	mg/L		B		0.0006	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Uranium	0.0037	mg/L				0.00005	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Uranium	0.0046	mg/L				0.00005	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Vanadium	0.0014	mg/L		B		0.0005	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Vanadium	0.0025	mg/L		B		0.0005	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-03-01	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-04-01	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	2,4'-DDD	0.00208	ug/L		U		0.00208	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	2,4'-DDE	0.0025	ug/L		U		0.0025	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	2,4'-DDT	0.00208	ug/L		U		0.00208	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	4,4'-DDD	0.00417	ug/L		U		0.00417	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	4,4'-DDE	0.00417	ug/L		U		0.00417	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	4,4'-DDT	0.00417	ug/L		U		0.00417	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Aldrin	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	alpha-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	alpha-Chlordane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	beta-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Chlordane	0.0319	ug/L		U		0.0319	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	delta-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	WDMW07-05-01	PPCB	Dieldrin	0.00417	ug/L		U		0.00417	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Endosulfan I	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Endosulfan II	0.00417	ug/L		U		0.00417	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Endosulfan sulfate	0.00417	ug/L		U		0.00417	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Endrin	0.00417	ug/L		U		0.00417	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Endrin aldehyde	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Endrin ketone	0.00417	ug/L		U		0.00417	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	gamma-Chlordane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Heptachlor	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Heptachlor epoxide	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Kepone	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Kepone	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Lindane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Methoxychlor	0.0208	ug/L		U		0.0208	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	PPCB	Toxaphene	0.0625	ug/L		U		0.0625	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Americium-241	-0.00817	pCi/L	0.0127	U		0.0294	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Neptunium-237	0.00839	pCi/L	0.0164	U		0.0268	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Plutonium-238	0.00357	pCi/L	0.0105	U		0.0107	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Plutonium-239/240	0.0107	pCi/L	0.0168	U		0.0252	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Technetium-99	-0.166	pCi/L	0.445	U		0.777	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Thorium-228	0.0427	pCi/L	0.0203			0.00887	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Thorium-230	0.0271	pCi/L	0.0231	U		0.034	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Thorium-232	0.00174	pCi/L	0.00755	U		0.0101	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Uranium-233/234	4.19	pCi/L	0.239			0.051	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Uranium-235/236	0.0544	pCi/L	0.0346			0.0354	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-09-01	RADS	Uranium-238	1.22	pCi/L	0.128			0.0105	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	1,2,4-Trichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	1,2,4-Trichlorobenzene	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	1,2-Dichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	1,2-Dichlorobenzene	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	1,3-Dichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	1,3-Dichlorobenzene	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	1,4-Dichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	1,4-Dichlorobenzene	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4,5-Trichlorophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4,5-Trichlorophenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4,6-Trichlorophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4,6-Trichlorophenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4-Dichlorophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4-Dichlorophenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4-Dimethylphenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4-Dimethylphenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4-Dinitrophenol	6.1	ug/L		U		6.1	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4-Dinitrophenol	6.02	ug/L		JU		6.02	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4-Dinitrotoluene	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,4-Dinitrotoluene	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,6-Dinitrotoluene	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2,6-Dinitrotoluene	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Chloronaphthalene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Chloronaphthalene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Chlorophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	WDMW07-05-01	SVOA	2-Chlorophenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Methyl-4,6-dinitrophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Methyl-4,6-dinitrophenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Methylnaphthalene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Methylnaphthalene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Methylphenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Methylphenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Nitrobenzenamine	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Nitrobenzenamine	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Nitrophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	2-Nitrophenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	3,3'-Dichlorobenzidine	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	3,3'-Dichlorobenzidine	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	3-Nitrobenzenamine	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	3-Nitrobenzenamine	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Aminobiphenyl	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Aminobiphenyl	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Bromophenyl phenyl ether	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Bromophenyl phenyl ether	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Chloro-3-methylphenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Chloro-3-methylphenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Chlorobenzenamine	4.02	ug/L		U		4.02	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Chlorobenzenamine	3.98	ug/L		JU		3.98	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Chlorophenyl phenyl ether	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Chlorophenyl phenyl ether	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Nitrobenzenamine	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Nitrobenzenamine	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Nitrophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	4-Nitrophenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Acenaphthene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Acenaphthene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Acenaphthylene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Acenaphthylene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Acetophenone	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Acetophenone	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Anthracene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Anthracene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benz(a)anthracene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benz(a)anthracene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzenemethanol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzenemethanol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzo(a)pyrene	0.537	ug/L		U		0.537	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzo(a)pyrene	0.53	ug/L		JU		0.53	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzo(b)fluoranthene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzo(b)fluoranthene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzo(ghi)perylene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzo(ghi)perylene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzo(k)fluoranthene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzo(k)fluoranthene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzoic acid	7.32	ug/L		U		7.32	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Benzoic acid	7.23	ug/L		JU		7.23	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Bis(2-chloroethoxy)methane	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Bis(2-chloroethoxy)methane	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Bis(2-chloroethyl) ether	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Bis(2-chloroethyl) ether	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	bis(2-Chloroisopropyl)ether	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	bis(2-Chloroisopropyl)ether	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Bis(2-ethylhexyl)phthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Bis(2-ethylhexyl)phthalate	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Butyl benzyl phthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	WDMW07-05-01	SVOA	Butyl benzyl phthalate	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Chrysene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Chrysene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Dibenz(a,h)anthracene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Dibenz(a,h)anthracene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Dibenzofuran	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Dibenzofuran	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Diethyl phthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Diethyl phthalate	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Dimethyl phthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Dimethyl phthalate	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Di-n-butyl phthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Di-n-butyl phthalate	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Di-n-octylphthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Di-n-octylphthalate	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Diphenylamine	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Diphenylamine	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Fluoranthene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Fluoranthene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Fluorene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Fluorene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Hexachlorobenzene	0.0026	ug/L		U		0.0026	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Hexachlorobutadiene	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Hexachlorobutadiene	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Hexachlorocyclopentadiene	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Hexachlorocyclopentadiene	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Hexachloroethane	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Hexachloroethane	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Indeno(1,2,3-cd)pyrene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Indeno(1,2,3-cd)pyrene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Isophorone	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Isophorone	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	m+p Methylphenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	m+p Methylphenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Naphthalene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Naphthalene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Nitrobenzene	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Nitrobenzene	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	N-Nitrosodimethylamine	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	N-Nitrosodimethylamine	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	N-Nitroso-di-n-propylamine	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	N-Nitroso-di-n-propylamine	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	N-Nitrosomorpholine	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	N-Nitrosomorpholine	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	O,O,O-Triethylphosphorothioate	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	O,O,O-Triethylphosphorothioate	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Pentachlorophenol	0.0549	ug/L		U		0.0549	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Phenanthrene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Phenanthrene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Phenol	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Phenol	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Pyrene	0.366	ug/L		U		0.366	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Pyrene	0.361	ug/L		JU		0.361	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Pyridine	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	SVOA	Pyridine	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	WDMW07-06-01	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	VOA	1,4-Dioxane	3.66	ug/L		U		3.66	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-05-01	VOA	1,4-Dioxane	3.61	ug/L		JU		3.61	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-06-01	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-01-01	WETCHEM	Alkalinity	400	mg/L				1.1	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-01-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-01-01	WETCHEM	Alkalinity as HCO3	400	mg/L				1.1	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-02-01	WETCHEM	Ammonium Nitrogen	2.6	mg/L				0.1	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-37-01	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-38-01	WETCHEM	Chromium, hexavalent	0.0079	mg/L		B		0.004	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-32-01	WETCHEM	Cyanide	0.0057	mg/L		B		0.002	WATER	WG	REG	BP	9/27/2012
WD-MW07B	WDMW07-19-01	ANION	Chloride	180000	ug/L				1300	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-19-01	ANION	Fluoride	490	ug/L		B		60	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-19-01	ANION	Nitrate	54	ug/L		B		42	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-19-01	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-19-01	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-19-01	ANION	Sulfate	100000	ug/L				1200	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-35-01	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	HERB	2,4,5-T	0.083	ug/L		U		0.083	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	HERB	2,4-D	0.083	ug/L		U		0.083	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	HERB	2,4-DB	0.083	ug/L		U		0.083	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	HERB	Dalapon	1.25	ug/L		U		1.25	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	HERB	Dicamba	0.083	ug/L		U		0.083	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	HERB	Dichloroprop	0.083	ug/L		U		0.083	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	HERB	Dinoseb	0.083	ug/L		U		0.083	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	HERB	MCPA	11	ug/L		U		11	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	HERB	MCPP	10	ug/L		U		10	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	HERB	Silvex	0.083	ug/L		U		0.083	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Aluminum	0.083	mg/L		B		0.018	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Antimony	0.00045	mg/L		B		0.0004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Antimony	0.00048	mg/L		B		0.0004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Arsenic	0.0025	mg/L		B		0.00033	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Arsenic	0.003	mg/L		B		0.00033	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Barium	0.19	mg/L				0.00029	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Barium	0.19	mg/L				0.00029	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Cadmium	0.0001	mg/L		B		0.0001	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Calcium	41	mg/L				0.035	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Calcium	42	mg/L				0.035	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Chromium	0.00058	mg/L		B		0.0005	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Cobalt	0.00062	mg/L		B		0.000054	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Cobalt	0.00088	mg/L		B		0.000054	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Copper	0.00065	mg/L		B		0.00056	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Iron	0.035	mg/L		B		0.022	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Iron	0.3	mg/L				0.022	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Lead	0.00033	mg/L		B		0.00018	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Lithium	0.043	mg/L				0.0026	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Lithium	0.044	mg/L				0.0026	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Magnesium	19	mg/L				0.011	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Magnesium	19	mg/L				0.011	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Manganese	0.069	mg/L				0.00031	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Manganese	0.075	mg/L				0.00031	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Nickel	0.0088	mg/L				0.0003	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Nickel	0.0093	mg/L				0.0003	WATER	WG	FD	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	WDMW07-21-01	METAL	Potassium	15	mg/L				0.24	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Potassium	15	mg/L				0.24	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Selenium	0.0011	mg/L		B		0.0007	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Silver	0.00036	mg/L		B		0.000033	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Sodium	240	mg/L				0.092	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Sodium	250	mg/L				0.092	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Strontium	1.5	mg/L				0.0003	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Strontium	1.6	mg/L				0.0003	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Thallium	0.0001	mg/L		B		0.00005	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Titanium	0.001	mg/L		B		0.0006	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Uranium	0.0039	mg/L				0.00005	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Uranium	0.0039	mg/L				0.00005	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Vanadium	0.0015	mg/L		B		0.0005	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Vanadium	0.0018	mg/L		B		0.0005	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-21-01	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-22-01	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	2,4'-DDD	0.002	ug/L		U		0.002	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	2,4'-DDE	0.0024	ug/L		U		0.0024	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	2,4'-DDT	0.002	ug/L		U		0.002	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	4,4'-DDD	0.004	ug/L		U		0.004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	4,4'-DDE	0.004	ug/L		U		0.004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	4,4'-DDT	0.004	ug/L		U		0.004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Aldrin	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	alpha-BHC	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	alpha-Chlordane	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	beta-BHC	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Chlordane	0.0306	ug/L		U		0.0306	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	delta-BHC	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Dieldrin	0.004	ug/L		U		0.004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Endosulfan I	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Endosulfan II	0.004	ug/L		U		0.004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Endosulfan sulfate	0.004	ug/L		U		0.004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Endrin	0.004	ug/L		U		0.004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Endrin aldehyde	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Endrin ketone	0.004	ug/L		U		0.004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	gamma-Chlordane	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Heptachlor	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Heptachlor epoxide	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Kepone	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Lindane	0.00266	ug/L		U		0.00266	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Methoxychlor	0.02	ug/L		U		0.02	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	PPCB	Toxaphene	0.06	ug/L		U		0.06	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Americium-241	-0.00286	pCi/L	0.0097	U		0.0219	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Neptunium-237	-0.0027	pCi/L	0.014	U		0.0298	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Plutonium-238	-0.00362	pCi/L	0.0126	U		0.031	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Plutonium-239/240	-7.09E-05	pCi/L	0.0144	U		0.031	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Technetium-99	-0.124	pCi/L	0.344	U		0.632	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Thorium-228	0.0206	pCi/L	0.0183	U		0.0257	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Thorium-230	0.0158	pCi/L	0.0171	U		0.0257	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Thorium-232	0.00978	pCi/L	0.0106			0.00944	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Uranium-233/234	4.24	pCi/L	0.227			0.0525	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Uranium-235/236	0.028	pCi/L	0.0328	U		0.0517	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-27-01	RADS	Uranium-238	1.18	pCi/L	0.121			0.035	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	1,2,4-Trichlorobenzene	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	WDMW07-23-01	SVOA	1,2-Dichlorobenzene	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	1,3-Dichlorobenzene	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	1,4-Dichlorobenzene	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2,4,5-Trichlorophenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2,4,6-Trichlorophenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2,4-Dichlorophenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2,4-Dimethylphenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2,4-Dinitrophenol	8.2	ug/L		U		8.2	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2,4-Dinitrotoluene	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2,6-Dinitrotoluene	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2-Chloronaphthalene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2-Chlorophenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2-Methyl-4,6-dinitrophenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2-Methylnaphthalene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2-Methylphenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2-Nitrobenzenamine	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	2-Nitrophenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	3,3'-Dichlorobenzidine	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	3-Nitrobenzenamine	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	4-Aminobiphenyl	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	4-Bromophenyl phenyl ether	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	4-Chloro-3-methylphenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	4-Chlorobenzenamine	5.41	ug/L		U		5.41	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	4-Chlorophenyl phenyl ether	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	4-Nitrobenzenamine	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	4-Nitrophenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Acenaphthene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Acenaphthylene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Acetophenone	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Anthracene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Benz(a)anthracene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Benzenemethanol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Benzo(a)pyrene	0.721	ug/L		U		0.721	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Benzo(b)fluoranthene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Benzo(ghi)perylene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Benzo(k)fluoranthene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Benzoic acid	9.84	ug/L		U		9.84	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Bis(2-chloroethoxy)methane	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Bis(2-chloroethyl) ether	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	bis(2-Chloroisopropyl)ether	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Bis(2-ethylhexyl)phthalate	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Butyl benzyl phthalate	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Chrysene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Dibenz(a,h)anthracene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Dibenzofuran	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Diethyl phthalate	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Dimethyl phthalate	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Di-n-butyl phthalate	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Di-n-octylphthalate	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Diphenylamine	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Fluoranthene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Fluorene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Hexachlorobenzene	0.0025	ug/L		U		0.0025	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Hexachlorobutadiene	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Hexachlorocyclopentadiene	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Hexachloroethane	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Indeno(1,2,3-cd)pyrene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Isophorone	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	m+p Methylphenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Naphthalene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	WDMW07-23-01	SVOA	Nitrobenzene	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	N-Nitrosodimethylamine	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	N-Nitroso-di-n-propylamine	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	N-Nitrosomorpholine	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	O,O,O-Triethylphosphorothioate	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Pentachlorophenol	0.05	ug/L		U		0.05	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Phenanthrene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Phenol	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Pyrene	0.492	ug/L		U		0.492	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	SVOA	Pyridine	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-23-01	VOA	1,4-Dioxane	4.92	ug/L		U		4.92	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-24-01	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-19-01	WETCHEM	Alkalinity	390	mg/L				1.1	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-19-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FD	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	WDMW07-19-01	WETCHEM	Alkalinity as HCO3	390	mg/L				1.1	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-20-01	WETCHEM	Ammonium Nitrogen	6.9	mg/L				0.1	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-39-01	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-40-01	WETCHEM	Chromium, hexavalent	0.016	mg/L		B		0.004	WATER	WG	FD	BP	9/27/2012
WD-MW07B	WDMW07-36-01	WETCHEM	Cyanide	0.0058	mg/L		B		0.002	WATER	WG	FD	BP	9/27/2012
WD-MW07B	QW604	ANION	Chloride	58000	ug/L				1300	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW604	ANION	Fluoride	390	ug/L		B		60	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW604	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW604	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW604	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW604	ANION	Sulfate	830000	ug/L				4600	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW611	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	2,4,5-T	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	2,4,5-T	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	2,4-D	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	2,4-D	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	2,4-DB	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	2,4-DB	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	Dalapon	1.56	ug/L		U		1.56	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	Dalapon	1.45	ug/L		JU		1.45	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	Dicamba	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	Dicamba	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	Dichloroprop	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	Dichloroprop	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	Dinoseb	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	Dinoseb	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	MCPA	13.8	ug/L		U		13.8	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	MCPA	12.8	ug/L		JU		12.8	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	MCPP	12.5	ug/L		U		12.5	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	MCPP	11.6	ug/L		JU		11.6	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	Silvex	0.104	ug/L		U		0.104	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	HERB	Silvex	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Aluminum	0.027	mg/L		B		0.018	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Aluminum	0.028	mg/L		B		0.018	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Antimony	0.003	mg/L				0.0004	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Antimony	0.0012	mg/L		B		0.0004	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Arsenic	0.0071	mg/L				0.00033	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Arsenic	0.004	mg/L		B		0.00033	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Barium	0.11	mg/L				0.00029	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Barium	0.11	mg/L				0.00029	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Cadmium	0.00016	mg/L		B		0.0001	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	QW606	METAL	Calcium	68	mg/L				0.035	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Calcium	69	mg/L				0.035	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Chromium	0.00054	mg/L		B		0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Cobalt	0.00066	mg/L		B		0.000054	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Cobalt	0.00031	mg/L		B		0.000054	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Copper	0.00071	mg/L		B		0.00056	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Iron	0.45	mg/L				0.022	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Iron	0.28	mg/L				0.022	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Lead	0.00029	mg/L		B		0.00018	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Lithium	0.11	mg/L				0.0026	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Lithium	0.1	mg/L				0.0026	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Magnesium	33	mg/L				0.011	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Magnesium	34	mg/L				0.011	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Manganese	0.056	mg/L				0.00031	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Manganese	0.051	mg/L				0.00031	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Nickel	0.02	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Nickel	0.011	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Potassium	17	mg/L				0.24	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Potassium	17	mg/L				0.24	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Selenium	0.0007	mg/L		B		0.0007	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Selenium	0.00072	mg/L		B		0.0007	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Sodium	490	mg/L				0.092	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Sodium	540	mg/L				0.092	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Strontium	3	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Strontium	3	mg/L				0.0003	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Titanium	0.00083	mg/L		B		0.0006	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Uranium	0.012	mg/L				0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Uranium	0.011	mg/L				0.00005	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Vanadium	0.0025	mg/L		B		0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Vanadium	0.0029	mg/L		B		0.0005	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW606	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW607	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	2,4'-DDD	0.00625	ug/L		U		0.00625	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	2,4'-DDE	0.0075	ug/L		U		0.0075	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	2,4'-DDT	0.00625	ug/L		U		0.00625	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	4,4'-DDD	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	4,4'-DDE	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	4,4'-DDT	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Aldrin	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	alpha-BHC	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	alpha-Chlordane	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	beta-BHC	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Chlordane	0.0956	ug/L		U		0.0956	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	delta-BHC	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Dieldrin	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Endosulfan I	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	QW608	PPCB	Endosulfan II	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Endosulfan sulfate	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Endrin	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Endrin aldehyde	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Endrin ketone	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	gamma-Chlordane	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Heptachlor	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Heptachlor epoxide	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Kepone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Lindane	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Methoxychlor	0.0625	ug/L		U		0.0625	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	PCB-1016	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	PCB-1221	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	PCB-1232	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	PCB-1242	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	PCB-1248	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	PCB-1254	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	PCB-1260	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	PCB-1268	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Polychlorinated biphenyl	0.0374	ug/L		U		0.0374	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	PPCB	Toxaphene	0.188	ug/L		U		0.188	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Americium-241	-0.0187	pCi/L	0.0215	U		0.0478	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Neptunium-237	0	pCi/L	0.0185	U		0.0368	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Plutonium-238	-0.00224	pCi/L	0.0116	U		0.0248	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Plutonium-239/240	-0.0112	pCi/L	0.0132	U		0.0322	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Technetium-99	-0.317	pCi/L	0.286	U		0.512	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Thorium-228	0.0115	pCi/L	0.0137	U		0.0181	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Thorium-230	-0.0061	pCi/L	0.0176	U		0.0371	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Thorium-232	0.00414	pCi/L	0.00906	U		0.0104	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Uranium-233/234	14.4	pCi/L	0.362			0.0511	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Uranium-235/236	0.178	pCi/L	0.0454			0.00875	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW610	RADS	Uranium-238	4.03	pCi/L	0.191			0.0181	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	1,2,4-Trichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	1,2-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	1,3-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	1,4-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2,4,5-Trichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2,4,6-Trichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2,4-Dichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2,4-Dimethylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2,4-Dinitrophenol	6.49	ug/L		U		6.49	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2,4-Dinitrotoluene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2,6-Dinitrotoluene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2-Chloronaphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2-Chlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2-Methyl-4,6-dinitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2-Methylnaphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2-Methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	2-Nitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	3,3'-Dichlorobenzidine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	3-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	4-Aminobiphenyl	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	4-Bromophenyl phenyl ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	4-Chloro-3-methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	4-Chlorobenzenamine	4.29	ug/L		U		4.29	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	4-Chlorophenyl phenyl ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	4-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	4-Nitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Acenaphthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	QW608	SVOA	Acenaphthylene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Acetophenone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Benz(a)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Benzenemethanol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Benzo(a)pyrene	0.571	ug/L		U		0.571	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Benzo(b)fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Benzo(ghi)perylene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Benzo(k)fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Benzoic acid	7.79	ug/L		U		7.79	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Bis(2-chloroethoxy)methane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Bis(2-chloroethyl) ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	bis(2-Chloroisopropyl)ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Bis(2-ethylhexyl)phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Butyl benzyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Chrysene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Dibenz(a,h)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Dibenzofuran	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Diethyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Dimethyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Di-n-butyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Di-n-octylphthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Diphenylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Hexachlorobenzene	0.00781	ug/L		U		0.00781	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Hexachlorocyclopentadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Hexachloroethane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Indeno(1,2,3-cd)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Isophorone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	m+p Methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Naphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Nitrobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	N-Nitrosodimethylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	N-Nitroso-di-n-propylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	N-Nitrosomorpholine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	O,O,O-Triethylphosphorothioate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Pentachlorophenol	0.0625	ug/L		U		0.0625	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Pentachlorophenol	0.0581	ug/L		JU		0.0581	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Phenanthrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Phenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	SVOA	Pyridine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW608	VOA	1,4-Dioxane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	QW609	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Acetone	7.3	ug/L		J		1.9	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW609	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW604	WETCHEM	Alkalinity	520	mg/L				1.1	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW604	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW604	WETCHEM	Alkalinity as HCO3	520	mg/L				1.1	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW605	WETCHEM	Ammonium Nitrogen	3.8	mg/L				0.1	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW613	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW614	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	12/5/2012
WD-MW07B	QW612	WETCHEM	Cyanide	0.0037	mg/L		B		0.002	WATER	WG	REG	BP	12/5/2012
WD-MW07B	DC791	ANION	Chloride	51	mg/L				0.51	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC791	ANION	Fluoride	0.26	mg/L		B		0.12	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC791	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC791	ANION	Nitrite as Nitrogen	0.098	mg/L		U		0.098	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC791	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC791	ANION	Sulfate	1000	mg/L				12	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0206	ng/L		U		0.0206	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00412	ng/L		U		0.00412	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00412	ng/L		U		0.00412	WATER	WG	REG	BP	6/18/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	DC798	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0412	ng/L		U		0.0412	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC798	DI/FURA	Octachlorodibenzofuran	0.0412	ng/L		U		0.0412	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	HERB	2,4,5-T	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	HERB	2,4-D	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	HERB	2,4-DB	0.105	ug/L		U		0.105	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	HERB	Dalapon	1.32	ug/L		U		1.32	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	HERB	Dicamba	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	HERB	Dichloroprop	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	HERB	Dinoseb	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	HERB	MCPA	11.6	ug/L		U		11.6	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	HERB	MCPP	10.5	ug/L		U		10.5	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	HERB	Silvex	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Aluminum	0.12	mg/L				0.018	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Antimony	0.0013	mg/L		B		0.0004	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Antimony	0.0014	mg/L		B		0.0004	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Arsenic	0.0022	mg/L		B		0.00033	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Arsenic	0.003	mg/L		B		0.00033	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Barium	0.07	mg/L				0.00029	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Barium	0.074	mg/L				0.00029	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Chromium	0.00097	mg/L		B		0.0005	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Cobalt	0.00078	mg/L		B		0.000054	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Cobalt	0.00054	mg/L		B		0.000054	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Copper	0.0007	mg/L		B		0.00056	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Iron	0.63	mg/L				0.022	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Iron	0.7	mg/L				0.022	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Lead	0.00037	mg/L		B		0.00018	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Lithium	0.15	mg/L				0.0026	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Lithium	0.15	mg/L				0.0026	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Magnesium	61	mg/L				0.011	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Magnesium	63	mg/L				0.011	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Manganese	0.089	mg/L				0.00031	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Manganese	0.096	mg/L				0.00031	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Nickel	0.0086	mg/L				0.0003	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Nickel	0.011	mg/L				0.0003	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Potassium	21	mg/L				0.24	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Potassium	22	mg/L				0.24	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Silver	0.000075	mg/L		B		0.000033	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Sodium	600	mg/L				0.092	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Sodium	610	mg/L				0.092	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Strontium	5.7	mg/L				0.0003	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Strontium	5.8	mg/L				0.0003	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/18/2013

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	DC793	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Titanium	0.0037	mg/L		B		0.0006	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Uranium	0.0045	mg/L				0.00005	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Uranium	0.0061	mg/L				0.00005	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Vanadium	0.0017	mg/L		B		0.0005	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Vanadium	0.0027	mg/L		B		0.0005	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC793	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC794	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	2,4'-DDD	0.00625	ug/L		U		0.00625	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	2,4'-DDE	0.0075	ug/L		U		0.0075	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	2,4'-DDT	0.00625	ug/L		U		0.00625	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	4,4'-DDD	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	4,4'-DDE	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	4,4'-DDT	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Aldrin	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	alpha-BHC	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	alpha-Chlordane	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	beta-BHC	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Chlordane	0.0956	ug/L		U		0.0956	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	delta-BHC	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Dieldrin	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Endosulfan I	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Endosulfan II	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Endosulfan sulfate	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Endrin	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Endrin aldehyde	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Endrin ketone	0.0125	ug/L		U		0.0125	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	gamma-Chlordane	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Heptachlor	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Heptachlor epoxide	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Kepone	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Lindane	0.00831	ug/L		U		0.00831	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Methoxychlor	0.0625	ug/L		U		0.0625	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	PCB-1016	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	PCB-1221	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	PCB-1232	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	PCB-1242	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	PCB-1248	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	PCB-1254	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	PCB-1260	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	PCB-1268	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Polychlorinated biphenyl	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	PPCB	Toxaphene	0.188	ug/L		U		0.188	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Americium-241	0.00491	pCi/L	0.0167	U		0.0147	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Neptunium-237	0.00227	pCi/L	0.0264	U		0.046	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Plutonium-238	-0.0222	pCi/L	0.0174	U		0.0436	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Plutonium-239/240	-0.00739	pCi/L	0.021	U		0.0436	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Technetium-99	0.217	pCi/L	0.388	U		0.663	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Thorium-228	0.0244	pCi/L	0.0225	U		0.0296	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Thorium-230	0.0191	pCi/L	0.0266	U		0.0433	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Thorium-232	-0.00367	pCi/L	0.0157	U		0.0339	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Uranium-233/234	6.63	pCi/L	0.304			0.052	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Uranium-235/236	0.125	pCi/L	0.0479			0.0134	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC801	RADS	Uranium-238	2.67	pCi/L	0.193			0.0108	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	1,2,4-Trichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	1,2-Dichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	1,3-Dichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	1,4-Dichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	DC797	SVOA	2,4,5-Trichlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2,4,6-Trichlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2,4-Dichlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2,4-Dimethylphenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2,4-Dinitrophenol	5.1	ug/L		U		5.1	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2,4-Dinitrotoluene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2,6-Dinitrotoluene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2-Chloronaphthalene	0.418	ug/L		U		0.418	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2-Chlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2-Methyl-4,6-dinitrophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2-Methylnaphthalene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2-Methylphenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2-Nitrobenzenamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	2-Nitrophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	3,3'-Dichlorobenzidine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	3-Nitrobenzenamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	4-Aminobiphenyl	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	4-Bromophenyl phenyl ether	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	4-Chloro-3-methylphenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	4-Chlorobenzenamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	4-Chlorophenyl phenyl ether	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	4-Nitrobenzenamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	4-Nitrophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Acenaphthene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Acenaphthylene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Acetophenone	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Anthracene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Benz(a)anthracene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Benzenemethanol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Benzo(a)pyrene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Benzo(b)fluoranthene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Benzo(ghi)perylene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Benzo(k)fluoranthene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Benzoic acid	6.12	ug/L		U		6.12	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Bis(2-chloroethoxy)methane	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Bis(2-chloroethyl) ether	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Bis(2-chloroisopropyl)ether	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Bis(2-ethylhexyl)phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Butyl benzyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Chrysene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Dibenz(a,h)anthracene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Dibenzofuran	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Diethyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Dimethyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Di-n-butyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Di-n-octylphthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Diphenylamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Fluoranthene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Fluorene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Hexachlorobenzene	0.00781	ug/L		U		0.00781	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Hexachlorobutadiene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Hexachlorocyclopentadiene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Hexachloroethane	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Indeno(1,2,3-cd)pyrene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Isophorone	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	m,p-cresol	3.78	ug/L		U		3.78	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Naphthalene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Nitrobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	N-Nitrosodimethylamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	N-Nitroso-di-n-propylamine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	DC797	SVOA	N-Nitrosomorpholine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	O,O,O-Triethylphosphorothioate	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Pentachlorophenol	0.0526	ug/L		U		0.0526	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Phenanthrene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Phenol	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Pyrene	0.306	ug/L		U		0.306	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	SVOA	Pyridine	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC797	VOA	1,4-Dioxane	3.06	ug/L		U		3.06	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC800	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/18/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-MW07B	DC800	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC791	WETCHEM	Alkalinity	680	mg/L				1.1	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC791	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC791	WETCHEM	Alkalinity as HCO3	680	mg/L				1.1	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC792	WETCHEM	Ammonia	4.7	mg/L				0.022	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC792	WETCHEM	Ammonium Nitrogen	4.7	mg/L				0.1	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC795	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC796	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC799	WETCHEM	Cyanide	0.004	mg/L		B		0.002	WATER	WG	REG	BP	6/18/2013
WD-MW07B	DC791	WETCHEM	Dissolved Solids	2300	mg/L		J		9.4	WATER	WG	REG	BP	6/18/2013
WD-PZ01G	WDPZ01-01-01	ANION	Chloride	7	mg/L			=	0.25	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-01-01	ANION	Fluoride	0.06	mg/L		U	U	0.06	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-01-01	ANION	Nitrate	0.042	mg/L		U	U	0.042	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-04-01	ANION	Nitrate/Nitrite as Nitrogen	0.019	mg/L		U	U	0.019	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-01-01	ANION	Orthophosphate	0.19	mg/L		U	U	0.19	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-01-01	ANION	Sulfate	590	mg/L			=	4.6	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-05-01	METAL	Calcium	170000	ug/L			=	35	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-05-01	METAL	Magnesium	68000	ug/L			=	11	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-05-01	METAL	Potassium	4400	ug/L			=	240	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-05-01	METAL	Sodium	14000	ug/L			=	92	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-02-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	U	1.1	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-02-01	WETCHEM	Alkalinity as HCO3	220	mg/L			=	1.1	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-03-01	WETCHEM	Ammonia	0.48	mg/L			=	0.1	WATER	WG	REG	BP	7/26/2011
WD-PZ01G	WDPZ01-01-02	ANION	Chloride	9.1	mg/L			XV	0.25	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-01-02	ANION	Fluoride	0.06	mg/L		B	XV	0.06	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-01-02	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-01-02	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-01-02	ANION	Sulfate	510	mg/L			XV	4.6	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Aluminum	6.9	mg/L			XV	0.018	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Arsenic	0.0011	mg/L		B	XV	0.00033	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Arsenic	0.0043	mg/L		B	XV	0.00033	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Barium	0.06	mg/L			XV	0.00058	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Barium	0.096	mg/L			XV	0.00058	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Cadmium	0.00011	mg/L		B	XV	0.00004	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Calcium	170	mg/L			XV	0.035	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Calcium	170	mg/L			XV	0.035	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Chromium	0.009	mg/L		B	XV	0.00066	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Cobalt	0.0017	mg/L		B	XV	0.0012	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Cobalt	0.0026	mg/L		B	XV	0.0012	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Copper	0.0059	mg/L		B	XV	0.0014	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Iron	19	mg/L			XV	0.022	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Iron	28	mg/L			XV	0.022	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Lead	0.00018	mg/L		B	XV	0.00018	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Lead	0.0036	mg/L			XV	0.00018	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Magnesium	67	mg/L			XV	0.011	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Magnesium	68	mg/L			XV	0.011	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Manganese	0.15	mg/L			XV	0.00025	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Manganese	0.22	mg/L			XV	0.00025	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Mercury	0.027	ug/L		U	XV	0.027	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Molybdenum	0.0019	mg/L		B	XV	0.00014	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Molybdenum	0.0031	mg/L			XV	0.00014	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-03-02	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Nickel	0.0078	mg/L		B	XV	0.0013	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Potassium	3.6	mg/L			XV	0.24	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Potassium	5.6	mg/L			XV	0.24	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Sodium	15	mg/L			XV	0.092	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Sodium	15	mg/L			XV	0.092	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Thallium	0.000097	mg/L		B	XV	0.000033	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Uranium	0.00022	mg/L		B	XV	0.00002	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Uranium	0.00063	mg/L		B	XV	0.00002	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Vanadium	0.018	mg/L			XV	0.0011	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-03-02	METAL	Zinc	0.0049	mg/L		B	XV	0.0045	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-04-02	METAL	Zinc	0.024	mg/L			XV	0.0045	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	PPCB	PCB-1221	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	PPCB	PCB-1232	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	PPCB	PCB-1242	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	PPCB	Polychlorinated biphenyl	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-09-02	RADS	Alpha activity	-1.31	pCi/L	1.15	U	XV	10.9	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-09-02	RADS	Americium-241	0.0675	pCi/L	0.0225	U	XV	0.0691	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-09-02	RADS	Beta activity	5.96	pCi/L	1.95	U	XV	9.88	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-09-02	RADS	Neptunium-237	0.00423	pCi/L	0.00599	U	XV	0.0324	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-09-02	RADS	Plutonium-238	0	pCi/L	0.00592	U	XV	0.032	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-09-02	RADS	Plutonium-239/240	0.0293	pCi/L	0.0125	U	XV	0.04	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-09-02	RADS	Technetium-99	-0.195	pCi/L	1.67	U	XV	5.62	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-09-02	RADS	Uranium-233/234	12.2	pCi/L	0.231		XV	0.0334	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-09-02	RADS	Uranium-235	0.21	pCi/L	0.0341	J	XV	0.0412	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-09-02	RADS	Uranium-238	5.61	pCi/L	0.156		XV	0.0333	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2,4-Dichlorophenol	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2,4-Dimethylphenol	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2,4-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2-Chloronaphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2-Chlorophenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U	XV	4.7	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2-Methylnaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	2-Nitrophenol	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	3-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-05-02	SVOA	4-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Acenaphthene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Acenaphthylene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Anthracene	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Benz(a)anthracene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Benzo(a)pyrene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Benzo(ghi)perylene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Chrysene	0.64	ug/L		U	XV	0.64	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Dibenzofuran	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Diethyl phthalate	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Dimethyl phthalate	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Di-n-octylphthalate	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Fluoranthene	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Fluorene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Hexachlorobenzene	0.78	ug/L		U	XV	0.78	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Hexachlorobutadiene	3.9	ug/L		U	XV	3.9	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Hexachloroethane	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Isophorone	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Naphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Nitrobenzene	0.95	ug/L		U	XV	0.95	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Pentachlorophenol	24	ug/L		U	XV	24	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Phenanthrene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Phenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-05-02	SVOA	Pyrene	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Methylene chloride	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-01-02	WETCHEM	Alkalinity	240	mg/L			XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-01-02	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-01-02	WETCHEM	Alkalinity as HCO3	240	mg/L			XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-02-02	WETCHEM	Ammonium Nitrogen	0.45	mg/L			XV	0.1	WATER	WG	REG	BP	11/29/2011
WD-PZ01G	WDPZ01-01-03	ANION	Chloride	6.6	mg/L			XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-01-03	ANION	Fluoride	0.06	mg/L		U	XV	0.06	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-01-03	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-01-03	ANION	Sulfate	500	mg/L			XV	2.3	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Aluminum	8.9	mg/L			XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Arsenic	0.0013	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Arsenic	0.015	mg/L			XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Barium	0.064	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Barium	0.11	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Beryllium	0.00071	mg/L		B	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Cadmium	0.00052	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Calcium	180	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Calcium	170	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Chromium	0.02	mg/L			XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Cobalt	0.0025	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Cobalt	0.013	mg/L			XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Copper	0.023	mg/L			XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Iron	21	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Iron	60	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Lead	0.016	mg/L			XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Magnesium	74	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Magnesium	71	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Manganese	0.16	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Manganese	0.48	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Molybdenum	0.0017	mg/L		B	XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Molybdenum	0.0086	mg/L			XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Nickel	0.032	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Potassium	3.8	mg/L			XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Potassium	6	mg/L			XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Selenium	0.00089	mg/L		B	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Sodium	15	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Sodium	14	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Thallium	0.0003	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Uranium	0.00022	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Uranium	0.0018	mg/L			XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Vanadium	0.041	mg/L			XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-03-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-04-03	METAL	Zinc	0.088	mg/L			XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	PPCB	PCB-1016	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	PPCB	PCB-1221	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	PPCB	PCB-1232	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	PPCB	PCB-1242	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	PPCB	PCB-1248	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	PPCB	PCB-1254	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	PPCB	PCB-1260	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	PPCB	Polychlorinated biphenyl	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-09-03	RADS	Alpha activity	9.51	pCi/L	2.25	U	XV	10.5	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-09-03	RADS	Americium-241	0.0548	pCi/L	0.0179	U	XV	0.0477	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-09-03	RADS	Beta activity	7.15	pCi/L	0.961			3.42	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-09-03	RADS	Neptunium-237	-0.00916	pCi/L	0.0112	U	XV	0.0739	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-09-03	RADS	Plutonium-238	0	pCi/L	0.00808	U		0.0437	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-09-03	RADS	Plutonium-239/240	0.0342	pCi/L	0.0151	U		0.0437	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-09-03	RADS	Technetium-99	-1.22	pCi/L	1.64	U	XV	5.54	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-09-03	RADS	Uranium-233/234	0.789	pCi/L	0.0633			0.0387	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-09-03	RADS	Uranium-235	0.00624	pCi/L	0.0108	U		0.0597	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-09-03	RADS	Uranium-238	0.78	pCi/L	0.0629			0.0385	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	1,2,4-Trichlorobenzene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	1,2-Dichlorobenzene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	1,3-Dichlorobenzene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	1,4-Dichlorobenzene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2,4,5-Trichlorophenol	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2,4,6-Trichlorophenol	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2,4-Dichlorophenol	0.86	ug/L		U	XV	0.86	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2,4-Dimethylphenol	0.78	ug/L		U	XV	0.78	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2,4-Dinitrophenol	13	ug/L		U	XV	13	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2,4-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2,6-Dinitrotoluene	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2-Chloronaphthalene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2-Chlorophenol	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2-Methyl-4,6-dinitrophenol	5.4	ug/L		U	XV	5.4	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2-Methylnaphthalene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2-Methylphenol	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	2-Nitrophenol	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	3,3'-Dichlorobenzidine	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	3-Nitrobenzenamine	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	4-Bromophenyl phenyl ether	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	4-Chloro-3-methylphenol	3.2	ug/L		U	XV	3.2	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	4-Chlorophenyl phenyl ether	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	4-Methylphenol	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	4-Nitrobenzenamine	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	4-Nitrophenol	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Acenaphthene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Acenaphthylene	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Anthracene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Benz(a)anthracene	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Benzo(a)pyrene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-05-03	SVOA	Benzo(b)fluoranthene	0.71	ug/L		U	XV	0.71	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Benzo(ghi)perylene	0.67	ug/L		U	XV	0.67	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Benzo(k)fluoranthene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Benzoic acid	13	ug/L		U	XV	13	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Bis(2-chloroethoxy)methane	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Butyl benzyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Chrysene	0.73	ug/L		U	XV	0.73	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Dibenz(a,h)anthracene	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Dibenzofuran	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Diethyl phthalate	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Dimethyl phthalate	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Di-n-butyl phthalate	1.6	ug/L		U	XV	1.6	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Di-n-octylphthalate	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Fluoranthene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Fluorene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Hexachlorobenzene	0.89	ug/L		U	XV	0.89	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Hexachlorobutadiene	4.4	ug/L		U	XV	4.4	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Hexachlorocyclopentadiene	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Hexachloroethane	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.87	ug/L		U	XV	0.87	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Isophorone	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Naphthalene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Nitrobenzene	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	N-Nitroso-di-n-propylamine	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	N-Nitrosodiphenylamine	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Pentachlorophenol	27	ug/L		U	XV	27	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Phenanthrene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Phenol	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-05-03	SVOA	Pyrene	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Methylene chloride	0.41	ug/L		BJ	XV	0.32	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-01-03	WETCHEM	Alkalinity	230	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-01-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-01-03	WETCHEM	Alkalinity as HCO3	230	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-02-03	WETCHEM	Ammonium Nitrogen	0.5	mg/L				0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ01G	WDPZ01-01-04	ANION	Chloride	7.8	mg/L				0.25	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-01-04	ANION	Fluoride	0.06	mg/L		B		0.06	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-01-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-01-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-01-04	ANION	Sulfate	500	mg/L				4.6	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Aluminum	10	mg/L				0.018	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Arsenic	0.0014	mg/L		B		0.00033	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Arsenic	0.013	mg/L				0.00033	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Barium	0.06	mg/L				0.00058	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Barium	0.11	mg/L				0.00058	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Beryllium	0.00054	mg/L		B		0.00047	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Cadmium	0.00041	mg/L		B		0.00004	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Calcium	180	mg/L				0.035	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Calcium	180	mg/L				0.035	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Chromium	0.02	mg/L				0.00066	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Cobalt	0.0012	mg/L		B		0.0012	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Cobalt	0.012	mg/L				0.0012	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Copper	0.0034	mg/L		B		0.0014	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Copper	0.019	mg/L				0.0014	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Iron	20	mg/L				0.022	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Iron	58	mg/L				0.022	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Lead	0.013	mg/L				0.00018	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Magnesium	72	mg/L				0.011	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Magnesium	75	mg/L				0.011	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Manganese	0.14	mg/L				0.00025	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Manganese	0.47	mg/L				0.00025	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Molybdenum	0.0017	mg/L		B		0.00014	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Molybdenum	0.007	mg/L				0.00014	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Nickel	0.029	mg/L		B		0.0013	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Potassium	3.4	mg/L				0.24	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Potassium	5.7	mg/L				0.24	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Sodium	13	mg/L				0.092	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Sodium	14	mg/L				0.092	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Thallium	0.00023	mg/L		B		0.000033	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Uranium	0.00021	mg/L		B		0.00002	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Uranium	0.0014	mg/L				0.00002	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-03-04	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Vanadium	0.041	mg/L				0.0011	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-03-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-04-04	METAL	Zinc	0.082	mg/L				0.0045	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	PPCB	PCB-1221	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	PPCB	PCB-1232	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	PPCB	PCB-1242	0.14	ug/L		U		0.14	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	PPCB	PCB-1254	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	PPCB	PCB-1260	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-09-04	RADS	Alpha activity	10.9	pCi/L	3.96	U		9.56	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-09-04	RADS	Americium-241	0.046	pCi/L	0.0172	U		0.0566	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-09-04	RADS	Beta activity	3.71	pCi/L	4.07	U		13.8	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-09-04	RADS	Neptunium-237	0.00474	pCi/L	0.00821	U		0.0454	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-09-04	RADS	Plutonium-238	0.00667	pCi/L	0.0176	U		0.096	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-09-04	RADS	Plutonium-239/240	0.02	pCi/L	0.0133	U		0.051	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-09-04	RADS	Technetium-99	2.91	pCi/L	1.7	U		5.58	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-09-04	RADS	Uranium-233/234	0.616	pCi/L	0.0574			0.0504	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-09-04	RADS	Uranium-235	0.0195	pCi/L	0.0145	U		0.0622	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-09-04	RADS	Uranium-238	0.503	pCi/L	0.0516			0.0401	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Benzo(ghi)perylene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Bis(2-ethylhexyl)phthalate	0.68	ug/L		U		0.68	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-05-04	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Dibenz(a,h)anthracene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Hexachlorobenzene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Nitrobenzene	0.98	ug/L		U		0.98	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-05-04	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-01-04	WETCHEM	Alkalinity	230	mg/L				1.1	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-01-04	WETCHEM	Alkalinity as HCO3	230	mg/L				1.1	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-02-04	WETCHEM	Ammonium Nitrogen	0.45	mg/L				0.1	WATER	WG	REG	BP	1/11/2012
WD-PZ01G	WDPZ01-01-05	ANION	Chloride	6.7	mg/L				0.25	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-01-05	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-01-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-01-05	ANION	Sulfate	500	mg/L				4.6	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Aluminum	8.4	mg/L				0.018	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Arsenic	0.0013	mg/L		B		0.00033	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Arsenic	0.012	mg/L				0.00033	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Barium	0.057	mg/L				0.00058	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Barium	0.1	mg/L				0.00058	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Beryllium	0.00065	mg/L		B		0.00047	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Cadmium	0.00018	mg/L		B		0.00004	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Calcium	160	mg/L				0.035	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Calcium	170	mg/L				0.035	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Chromium	0.017	mg/L				0.00066	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Cobalt	0.01	mg/L				0.0012	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Copper	0.002	mg/L		B		0.0014	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Copper	0.015	mg/L				0.0014	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Iron	19	mg/L				0.022	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Iron	50	mg/L				0.022	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Lead	0.013	mg/L				0.00018	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Magnesium	64	mg/L				0.011	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Magnesium	71	mg/L				0.011	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Manganese	0.13	mg/L				0.00025	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Manganese	0.45	mg/L				0.00025	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Molybdenum	0.0016	mg/L		B		0.00014	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Molybdenum	0.006	mg/L				0.00014	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Nickel	0.022	mg/L		B		0.0013	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Potassium	3.4	mg/L				0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Potassium	5.4	mg/L				0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Sodium	13	mg/L				0.092	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Sodium	14	mg/L				0.092	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Thallium	0.00023	mg/L		B		0.000033	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Uranium	0.0002	mg/L		B		0.00002	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Uranium	0.0014	mg/L				0.00002	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Vanadium	0.034	mg/L				0.0011	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-03-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-04-05	METAL	Zinc	0.073	mg/L				0.0045	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	PPCB	PCB-1221	0.28	ug/L		U		0.28	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	PPCB	PCB-1232	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-05-05	PPCB	PCB-1242	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	PPCB	PCB-1254	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	PPCB	PCB-1260	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-09-05	RADS	Alpha activity	4.83	pCi/L	2.99	U		7.62	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-09-05	RADS	Americium-241	0.0394	pCi/L	0.0197	U		0.0796	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-09-05	RADS	Beta activity	4.01	pCi/L	2.64	U		6.44	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-09-05	RADS	Neptunium-237	-0.0103	pCi/L	0.00893	U		0.0634	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-09-05	RADS	Plutonium-238	0	pCi/L	0.0149	U		0.0874	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-09-05	RADS	Plutonium-239/240	0.0121	pCi/L	0.0121	U		0.0581	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-09-05	RADS	Technetium-99	1.63	pCi/L	1.68	U		5.59	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-09-05	RADS	Uranium-233/234	0.533	pCi/L	0.0499			0.0355	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-09-05	RADS	Uranium-235	0.0229	pCi/L	0.0128	U		0.0437	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-09-05	RADS	Uranium-238	0.411	pCi/L	0.0438			0.0353	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2,4,5-Trichlorophenol	0.55	ug/L		U		0.55	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2,4-Dichlorophenol	0.78	ug/L		U		0.78	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2,4-Dimethylphenol	0.71	ug/L		U		0.71	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2-Chloronaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.9	ug/L		U		4.9	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2-Methylnaphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	2-Nitrophenol	0.48	ug/L		U		0.48	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	4-Bromophenyl phenyl ether	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	4-Methylphenol	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Acenaphthylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Anthracene	0.52	ug/L		U		0.52	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Benz(a)anthracene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Benzo(b)fluoranthene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Benzo(ghi)perylene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U		0.56	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Bis(2-ethylhexyl)phthalate	0.69	ug/L		U		0.69	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Chrysene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Dibenz(a,h)anthracene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Dibenzofuran	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Diethyl phthalate	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Dimethyl phthalate	4.5	ug/L		J		0.26	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/14/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-05-05	SVOA	Di-n-octylphthalate	0.43	ug/L		U		0.43	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Hexachlorobenzene	0.81	ug/L		U		0.81	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Naphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Nitrobenzene	0.99	ug/L		U		0.99	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	N-Nitroso-di-n-propylamine	0.43	ug/L		U		0.43	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	N-Nitrosodiphenylamine	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Phenanthrene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-05-05	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Acetone	100	ug/L				1.9	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Methylene chloride	0.5	ug/L		BJ		0.32	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-01-05	WETCHEM	Alkalinity	230	mg/L				1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-01-05	WETCHEM	Alkalinity as HCO3	230	mg/L				1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-02-05	WETCHEM	Ammonium Nitrogen	0.47	mg/L				0.1	WATER	WG	REG	BP	2/14/2012
WD-PZ01G	WDPZ01-01-06	ANION	Chloride	6.7	mg/L				0.25	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-01-06	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-01-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-01-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-01-06	ANION	Sulfate	470	mg/L				2.3	WATER	WG	REG	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-03-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Aluminum	5.4	mg/L				0.018	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Arsenic	0.0012	mg/L		B		0.00033	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Arsenic	0.0062	mg/L				0.00033	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Barium	0.061	mg/L				0.00058	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Barium	0.09	mg/L				0.00058	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Cadmium	0.000086	mg/L		B		0.00004	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Cadmium	0.00031	mg/L		B		0.00004	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Calcium	170	mg/L				0.035	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Calcium	170	mg/L				0.035	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Chromium	0.011	mg/L				0.00066	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Cobalt	0.0056	mg/L		B		0.0012	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Copper	0.0085	mg/L		B		0.0014	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Iron	19	mg/L				0.022	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Iron	35	mg/L				0.022	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Lead	0.0077	mg/L				0.00018	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Magnesium	69	mg/L				0.011	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Magnesium	67	mg/L				0.011	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Manganese	0.14	mg/L				0.00025	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Manganese	0.27	mg/L				0.00025	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Molybdenum	0.0015	mg/L		B		0.00014	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Molybdenum	0.0049	mg/L				0.00014	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Nickel	0.015	mg/L		B		0.0013	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Potassium	3.3	mg/L				0.24	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Potassium	4.7	mg/L				0.24	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Sodium	14	mg/L				0.092	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Sodium	14	mg/L				0.092	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Thallium	0.000049	mg/L		B		0.000033	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Thallium	0.00015	mg/L		B		0.000033	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Uranium	0.00025	mg/L		B		0.00002	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Uranium	0.00098	mg/L		B		0.00002	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Vanadium	0.0016	mg/L		B		0.0011	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Vanadium	0.022	mg/L				0.0011	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-04-06	METAL	Zinc	0.043	mg/L				0.0045	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-09-06	RADS	Alpha activity	1.35	pCi/L	2.31	U	U	8.32	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-09-06	RADS	Americium-241	0.0327	pCi/L	0.0155	U	U	0.0574	WATER	WG	REG	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-09-06	RADS	Beta activity	0.454	pCi/L	2.79	U	UJ	7.98	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-09-06	RADS	Neptunium-237	-0.00941	pCi/L	0.00815	U	U	0.0579	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-09-06	RADS	Plutonium-238	0.00727	pCi/L	0.0126	U	U	0.0696	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-09-06	RADS	Plutonium-239/240	0.0218	pCi/L	0.0145	U	U	0.0556	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-09-06	RADS	Technetium-99	-0.138	pCi/L	1.67	U	U	5.61	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-09-06	RADS	Uranium-233/234	0.281	pCi/L	0.0394	J	J	0.0414	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-09-06	RADS	Uranium-235	0.0267	pCi/L	0.0149	U	U	0.051	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-09-06	RADS	Uranium-238	0.312	pCi/L	0.0414	J	J	0.0412	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2,4-Dichlorophenol	0.76	ug/L		U		0.76	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2,4-Dimethylphenol	0.69	ug/L		U		0.69	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Bis(2-ethylhexyl)phthalate	2.8	ug/L		BJ		0.67	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-05-06	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-01-06	WETCHEM	Alkalinity	220	mg/L				1.1	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-01-06	WETCHEM	Alkalinity as HCO3	220	mg/L				1.1	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-02-06	WETCHEM	Ammonium Nitrogen	0.44	mg/L				0.1	WATER	WG	REG	BP	3/13/2012
WD-PZ01G	WDPZ01-01-07	ANION	Chloride	6.8	mg/L				0.25	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-01-07	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-01-07	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-01-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-01-07	ANION	Sulfate	490	mg/L				4.6	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Aluminum	3.7	mg/L				0.018	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Arsenic	0.0012	mg/L		B		0.00033	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Arsenic	0.0068	mg/L				0.00033	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Barium	0.059	mg/L				0.00058	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-04-07	METAL	Barium	0.079	mg/L				0.00058	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Cadmium	0.00033	mg/L		B		0.0001	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Calcium	170	mg/L				0.035	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Calcium	150	mg/L				0.035	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Chromium	0.0097	mg/L		B		0.00066	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Cobalt	0.0056	mg/L		B		0.0012	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Copper	0.0064	mg/L		B		0.0014	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Iron	19	mg/L				0.022	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Iron	31	mg/L				0.022	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Lead	0.0065	mg/L				0.00018	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Magnesium	70	mg/L				0.011	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Magnesium	65	mg/L				0.011	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Manganese	0.12	mg/L				0.00025	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Manganese	0.27	mg/L				0.00025	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Molybdenum	0.0015	mg/L		B		0.00014	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Molybdenum	0.0045	mg/L				0.00014	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Nickel	0.013	mg/L		B		0.0013	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Potassium	3.4	mg/L				0.24	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Potassium	4.2	mg/L				0.24	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Selenium	0.00089	mg/L		B		0.0007	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Sodium	13	mg/L				0.092	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Sodium	12	mg/L				0.092	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Thallium	0.00013	mg/L		B		0.00005	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Uranium	0.00017	mg/L		B		0.00005	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Uranium	0.00088	mg/L		B		0.00005	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Vanadium	0.0014	mg/L		B		0.0011	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Vanadium	0.02	mg/L				0.0011	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-04-07	METAL	Zinc	0.039	mg/L				0.0045	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-09-07	RADS	Alpha activity	9.46	pCi/L	4.99	U	U	11.4	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-09-07	RADS	Americium-241	0.0558	pCi/L	0.016	J	U	0.0328	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-09-07	RADS	Beta activity	7.78	pCi/L	3.62	U	UJ	8.25	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-09-07	RADS	Neptunium-237	0	pCi/L	0.00724	U	U	0.0391	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-09-07	RADS	Plutonium-238	-0.00502	pCi/L	-0.0087	U	U	0.0618	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-09-07	RADS	Plutonium-239/240	0.0552	pCi/L	0.0174	U	UJ	0.0384	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-09-07	RADS	Technetium-99	-0.554	pCi/L	1.63	U	U	5.49	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-09-07	RADS	Uranium-233/234	3.04	pCi/L	0.116		=	0.0422	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-09-07	RADS	Uranium-235	0.0815	pCi/L	0.0224	J	J	0.052	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-09-07	RADS	Uranium-238	1.6	pCi/L	0.0839		=	0.042	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2,4,5-Trichlorophenol	0.56	ug/L		U		0.56	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2,4-Dichlorophenol	0.8	ug/L		U		0.8	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2,4-Dimethylphenol	0.72	ug/L		U		0.72	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2-Chloronaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2-Methyl-4,6-dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2-Methylnaphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	2-Nitrophenol	0.49	ug/L		U		0.49	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	4-Bromophenyl phenyl ether	0.53	ug/L		U		0.53	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	4-Methylphenol	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Acenaphthylene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Anthracene	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Benz(a)anthracene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Benzo(a)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Benzo(b)fluoranthene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Benzo(ghi)perylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Benzo(k)fluoranthene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Bis(2-ethylhexyl)phthalate	0.7	ug/L		J		0.7	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Chrysene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Dibenz(a,h)anthracene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Dibenzofuran	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Diethyl phthalate	0.47	ug/L		U		0.47	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Dimethyl phthalate	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Di-n-octylphthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Hexachlorobenzene	0.82	ug/L		U		0.82	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Hexachlorobutadiene	4.1	ug/L		U		4.1	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.81	ug/L		U		0.81	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Naphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	N-Nitroso-di-n-propylamine	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	N-Nitrosodiphenylamine	0.55	ug/L		U		0.55	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	WDPZ01-05-07	SVOA	Phenanthrene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-05-07	SVOA	Pyrene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Methylene chloride	0.87	ug/L		BJ		0.32	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-01-07	WETCHEM	Alkalinity	220	mg/L				1.1	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-01-07	WETCHEM	Alkalinity as HCO3	220	mg/L				1.1	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	WDPZ01-02-07	WETCHEM	Ammonium Nitrogen	0.48	mg/L				0.1	WATER	WG	REG	BP	4/9/2012
WD-PZ01G	QW01	ANION	Chloride	6400	ug/L				250	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW01	ANION	Fluoride	60	ug/L		U		60	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW01	ANION	Nitrate	47	ug/L		B		42	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW01	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW01	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW01	ANION	Sulfate	620000	ug/L				4600	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	QW08	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW08	DI/FURA	Octachlorodibenzofuran	0.0462	ng/L		J		2.5	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	HERB	2,4,5-T	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	HERB	2,4-D	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	HERB	2,4-DB	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	HERB	Dalapon	1.39	ug/L		U		1.39	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	HERB	Dicamba	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	HERB	Dichloroprop	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	HERB	Dinoseb	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	HERB	MCPA	12.2	ug/L		U		12.2	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	HERB	MCPP	11.1	ug/L		U		11.1	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	HERB	Silvex	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	2,4'-DDD	0.00633	ug/L		U		0.00633	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	2,4'-DDD	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	2,4'-DDE	0.00759	ug/L		U		0.00759	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	2,4'-DDE	0.00667	ug/L		JU		0.00667	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	2,4'-DDT	0.00633	ug/L		U		0.00633	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	2,4'-DDT	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	4,4'-DDD	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	4,4'-DDD	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	4,4'-DDE	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	4,4'-DDE	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	4,4'-DDT	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	4,4'-DDT	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Aldrin	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Aldrin	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	alpha-BHC	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	alpha-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	alpha-Chlordane	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	alpha-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	beta-BHC	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	beta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Chlordane	0.0968	ug/L		U		0.0968	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Chlordane	0.085	ug/L		JU		0.085	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	delta-BHC	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	delta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Dieldrin	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Dieldrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endosulfan I	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endosulfan I	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endosulfan II	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endosulfan II	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endosulfan sulfate	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endosulfan sulfate	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endrin	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endrin aldehyde	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endrin aldehyde	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endrin ketone	0.0127	ug/L		U		0.0127	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Endrin ketone	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	gamma-Chlordane	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	gamma-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Heptachlor	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Heptachlor	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Heptachlor epoxide	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Heptachlor epoxide	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Kepone	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Lindane	0.00842	ug/L		U		0.00842	WATER	WG	REG	BP	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	QW05	PPCB	Lindane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Methoxychlor	0.0633	ug/L		U		0.0633	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Methoxychlor	0.0556	ug/L		JU		0.0556	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	PCB-1016	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	PCB-1221	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	PCB-1232	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	PCB-1242	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	PCB-1248	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	PCB-1254	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	PCB-1260	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	PCB-1268	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Polychlorinated biphenyl	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Toxaphene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	PPCB	Toxaphene	0.167	ug/L		JU		0.167	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Americium-241	0.0199	pCi/L	0.039	U		0.0299	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Neptunium-237	-0.0158	pCi/L	0.0139	U		0.0323	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Plutonium-238	-0.00474	pCi/L	0.0208	U		0.0454	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Plutonium-239/240	0.00473	pCi/L	0.0207	U		0.0362	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Technetium-99	0.119	pCi/L	0.33	U		0.566	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Thorium-228	0.179	pCi/L	0.0433			0.0272	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Thorium-230	0.183	pCi/L	0.0438			0.0338	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Thorium-232	0.115	pCi/L	0.0325			0.01	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Uranium-233/234	0.379	pCi/L	0.0721			0.051	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Uranium-235/236	0.0191	pCi/L	0.0225	U		0.0293	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW07	RADS	Uranium-238	0.412	pCi/L	0.0705			0.00929	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	1,2,4-Trichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	1,2-Dichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	1,3-Dichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	1,4-Dichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2,4,5-Trichlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2,4,6-Trichlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2,4-Dichlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2,4-Dimethylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2,4-Dinitrophenol	5.81	ug/L		U		5.81	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2,4-Dinitrotoluene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2,6-Dinitrotoluene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2-Chloronaphthalene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2-Chlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2-Methyl-4,6-dinitrophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2-Methylnaphthalene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2-Methylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2-Nitrobenzenamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	2-Nitrophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	3,3'-Dichlorobenzidine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	3-Nitrobenzenamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	4-Aminobiphenyl	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	4-Bromophenyl phenyl ether	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	4-Chloro-3-methylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	4-Chlorobenzenamine	3.84	ug/L		U		3.84	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	4-Chlorophenyl phenyl ether	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	4-Nitrobenzenamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	4-Nitrophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Acenaphthene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Acenaphthylene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Acetophenone	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Anthracene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Benz(a)anthracene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Benzenemethanol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Benzo(a)pyrene	0.512	ug/L		U		0.512	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Benzo(b)fluoranthene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	QW05	SVOA	Benzo(ghi)perylene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Benzo(k)fluoranthene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Benzoic acid	6.98	ug/L		U		6.98	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Bis(2-chloroethoxy)methane	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Bis(2-chloroethyl) ether	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	bis(2-Chloroisopropyl)ether	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Bis(2-ethylhexyl)phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Butyl benzyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Chrysene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Dibenz(a,h)anthracene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Dibenzofuran	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Diethyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Dimethyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Di-n-butyl phthalate	6.53	ug/L		BJ		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Di-n-octylphthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Diphenylamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Fluoranthene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Fluorene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Hexachlorobenzene	0.00791	ug/L		U		0.00791	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Hexachlorobenzene	0.00694	ug/L		JU		0.00694	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Hexachlorobutadiene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Hexachlorocyclopentadiene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Hexachloroethane	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Indeno(1,2,3-cd)pyrene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Isophorone	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	m+p Methylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Naphthalene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Nitrobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	N-Nitrosodimethylamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	N-Nitroso-di-n-propylamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	N-Nitrosomorpholine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	O,O,O-Triethylphosphorothioate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Pentachlorophenol	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Phenanthrene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Phenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Pyrene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	SVOA	Pyridine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW05	VOA	1,4-Dioxane	3.49	ug/L		U		3.49	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	QW06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW01	WETCHEM	Alkalinity	230	mg/L				1.1	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW01	WETCHEM	Alkalinity as HCO3	230	mg/L				1.1	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW02	WETCHEM	Ammonium Nitrogen	0.54	mg/L				0.1	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW01	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW09	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/18/2012
WD-PZ01G	QW04R	METAL	Aluminum	0.094	mg/L		B		0.018	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Barium	0.064	mg/L				0.00029	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Barium	0.061	mg/L				0.0015	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Calcium	180	mg/L				0.035	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Calcium	170	mg/L				0.035	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Chromium	0.0054	mg/L		B		0.0025	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Chromium	0.004	mg/L		B		0.0025	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Cobalt	0.00027	mg/L		U		0.00027	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Cobalt	0.00044	mg/L		B		0.00027	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Iron	19	mg/L				0.022	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Iron	18	mg/L				0.022	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Lithium	0.017	mg/L				0.0026	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Lithium	0.015	mg/L				0.0026	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Magnesium	70	mg/L				0.011	WATER	WG	REG	BP	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	QW03R	METAL	Magnesium	70	mg/L				0.011	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Manganese	0.11	mg/L				0.0016	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Manganese	0.11	mg/L				0.0016	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Nickel	0.0025	mg/L		B		0.0015	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Nickel	0.0023	mg/L		B		0.0015	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Potassium	3.4	mg/L				0.24	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Potassium	3.4	mg/L				0.24	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Silver	0.00025	mg/L		B		0.00017	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Sodium	13	mg/L				0.092	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Sodium	16	mg/L				0.092	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Strontium	1.5	mg/L				0.0003	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Strontium	1.4	mg/L				0.0003	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Titanium	0.0011	mg/L		B		0.0006	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Titanium	0.0021	mg/L		B		0.0006	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Uranium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Uranium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW04R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW03R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW246	WETCHEM	Chromium, hexavalent	0.0051	mg/L		B		0.004	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW247	WETCHEM	Chromium, hexavalent	0.0086	mg/L		B		0.004	WATER	WG	REG	BP	9/26/2012
WD-PZ01G	QW239	ANION	Chloride	12000	ug/L				250	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW239	ANION	Fluoride	60	ug/L		U		60	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW239	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW239	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW239	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW239	ANION	Sulfate	490000	ug/L				4600	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW254	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	2,4,5-T	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	2,4,5-T	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	2,4-D	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	2,4-D	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	2,4-DB	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	2,4-DB	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	QW249	HERB	Dalapon	1.49	ug/L		U		1.49	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	Dalapon	1.45	ug/L		JU		1.45	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	Dicamba	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	Dicamba	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	Dichloroprop	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	Dichloroprop	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	Dinoseb	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	Dinoseb	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	MCPA	13.1	ug/L		U		13.1	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	MCPA	12.8	ug/L		JU		12.8	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	MCPP	11.9	ug/L		U		11.9	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	MCPP	11.6	ug/L		JU		11.6	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	Silvex	0.0988	ug/L		U		0.0988	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	HERB	Silvex	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Arsenic	0.00085	mg/L		B		0.00033	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Arsenic	0.0011	mg/L		B		0.00033	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Barium	0.058	mg/L				0.00029	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Barium	0.063	mg/L				0.00029	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Calcium	160	mg/L				0.035	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Calcium	160	mg/L				0.035	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Cobalt	0.000054	mg/L		U		0.000054	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Cobalt	0.000085	mg/L		B		0.000054	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Iron	18	mg/L				0.022	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Iron	18	mg/L				0.022	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Lithium	0.017	mg/L				0.0026	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Lithium	0.013	mg/L				0.0026	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Magnesium	72	mg/L				0.011	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Magnesium	68	mg/L				0.011	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Manganese	0.11	mg/L				0.00031	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Manganese	0.12	mg/L				0.00031	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Nickel	0.0003	mg/L		U		0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Nickel	0.001	mg/L		B		0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Potassium	3.2	mg/L				0.24	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Potassium	3.6	mg/L				0.24	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Sodium	12	mg/L				0.092	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Sodium	13	mg/L				0.092	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Strontium	1.4	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Strontium	1.4	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	QW245	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Uranium	0.000091	mg/L		B		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Uranium	0.00011	mg/L		B		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW245	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW248	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Kepone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Americium-241	-0.00179	pCi/L	0.0117	U		0.0241	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Neptunium-237	7.41E-10	pCi/L	0.0107	U		0.0213	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Plutonium-238	-0.00257	pCi/L	0.00873	U		0.0197	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Plutonium-239/240	0	pCi/L	0.0101	U		0.0197	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Technetium-99	-0.256	pCi/L	0.347	U		0.614	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Thorium-228	0.00469	pCi/L	0.0178	U		0.0327	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Thorium-230	0.0207	pCi/L	0.02	U		0.0288	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Thorium-232	0.00432	pCi/L	0.00941	U		0.0108	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Uranium-233/234	0.0258	pCi/L	0.0277	U		0.0451	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Uranium-235/236	-3.85E-10	pCi/L	0.00906	U		0.0177	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW253	RADS	Uranium-238	0.0393	pCi/L	0.019			0.0179	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	1,2,4-Trichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	1,2-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	QW249	SVOA	1,3-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	1,4-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2,4,5-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2,4,6-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2,4-Dichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2,4-Dimethylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2,4-Dinitrophenol	5.68	ug/L		U		5.68	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2,4-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2,6-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2-Chloronaphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2-Chlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2-Methyl-4,6-dinitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2-Methylnaphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2-Methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	2-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	3,3'-Dichlorobenzidine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	3-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	4-Aminobiphenyl	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	4-Bromophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	4-Chloro-3-methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	4-Chlorobenzenamine	3.75	ug/L		U		3.75	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	4-Chlorophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	4-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	4-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Acenaphthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Acenaphthylene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Acetophenone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Benz(a)anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Benzenemethanol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Benzo(a)pyrene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Benzo(b)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Benzo(ghi)perylene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Benzo(k)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Benzoic acid	6.82	ug/L		U		6.82	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Bis(2-chloroethoxy)methane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Bis(2-chloroethyl) ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	bis(2-Chloroisopropyl)ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Bis(2-ethylhexyl)phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Butyl benzyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Chrysene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Dibenz(a,h)anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Dibenzofuran	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Diethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Dimethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Di-n-butyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Di-n-octylphthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Diphenylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Fluorene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Hexachlorobutadiene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Hexachlorocyclopentadiene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Hexachloroethane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Indeno(1,2,3-cd)pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Isophorone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	m+p Methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Naphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Nitrobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	QW249	SVOA	N-Nitrosodimethylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	N-Nitroso-di-n-propylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	N-Nitrosomorpholine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	O,O,O-Triethylphosphorothioate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Pentachlorophenol	0.0595	ug/L		U		0.0595	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Pentachlorophenol	0.0581	ug/L		JU		0.0581	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Phenanthrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Phenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	SVOA	Pyridine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW249	VOA	1,4-Dioxane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW252	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW239	WETCHEM	Alkalinity	210	mg/L				1.1	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW239	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ01G	QW239	WETCHEM	Alkalinity as HCO3	210	mg/L				1.1	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW244	WETCHEM	Ammonium Nitrogen	0.42	mg/L				0.1	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW260	WETCHEM	Chromium, hexavalent	0.0041	mg/L		B		0.004	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW261	WETCHEM	Chromium, hexavalent	0.01	mg/L		B		0.004	WATER	WG	REG	BP	12/3/2012
WD-PZ01G	QW255	WETCHEM	Cyanide	0.0034	mg/L		B		0.002	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	WDPZ02-01-01	ANION	Chloride	18	mg/L			=	0.25	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-01-01	ANION	Fluoride	0.06	mg/L		U	U	0.06	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-01-01	ANION	Nitrate	0.042	mg/L		U	U	0.042	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-04-01	ANION	Nitrate/Nitrite as Nitrogen	0.019	mg/L		U	U	0.019	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-01-01	ANION	Orthophosphate	0.19	mg/L		U	R	0.19	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-01-01	ANION	Sulfate	730	mg/L			=	4.6	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-05-01	METAL	Calcium	200000	ug/L			=	35	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-05-01	METAL	Magnesium	100000	ug/L			=	11	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-05-01	METAL	Potassium	5900	ug/L			=	240	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-05-01	METAL	Sodium	37000	ug/L			=	92	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-02-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	U	1.1	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-02-01	WETCHEM	Alkalinity as HCO3	300	mg/L			=	1.1	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-03-01	WETCHEM	Ammonia	0.76	mg/L			=	0.1	WATER	WG	REG	BP	7/27/2011
WD-PZ02G	WDPZ02-01-02	ANION	Chloride	22	mg/L			XV	0.25	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-01-02	ANION	Fluoride	0.06	mg/L		U	XV	0.06	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-01-02	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-01-02	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-01-02	ANION	Sulfate	740	mg/L			XV	4.6	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Aluminum	2.5	mg/L			XV	0.018	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Arsenic	0.0034	mg/L		B	XV	0.00033	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Arsenic	0.0047	mg/L		B	XV	0.00033	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Barium	0.043	mg/L			XV	0.00058	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Barium	0.057	mg/L			XV	0.00058	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Calcium	210	mg/L			XV	0.035	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Calcium	200	mg/L			XV	0.035	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Chromium	0.0047	mg/L		B	XV	0.00066	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Cobalt	0.0019	mg/L		B	XV	0.0012	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Copper	0.0029	mg/L		B	XV	0.0014	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Iron	25	mg/L			XV	0.022	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Iron	27	mg/L			XV	0.022	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Lead	0.0017	mg/L			XV	0.00018	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Magnesium	110	mg/L			XV	0.011	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Magnesium	110	mg/L			XV	0.011	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Manganese	0.65	mg/L			XV	0.00025	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Manganese	0.76	mg/L			XV	0.00025	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Mercury	0.027	ug/L		U	XV	0.027	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Molybdenum	0.0011	mg/L		B	XV	0.00014	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Molybdenum	0.0024	mg/L			XV	0.00014	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Nickel	0.0041	mg/L		B	XV	0.0013	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Potassium	4.7	mg/L			XV	0.24	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Potassium	5.6	mg/L			XV	0.24	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	11/30/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-04-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Sodium	41	mg/L			XV	0.092	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Sodium	40	mg/L			XV	0.092	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Thallium	0.000081	mg/L		B	XV	0.000033	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Uranium	0.00015	mg/L		B	XV	0.00002	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Uranium	0.00046	mg/L		B	XV	0.00002	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Vanadium	0.0092	mg/L		B	XV	0.0011	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-03-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-04-02	METAL	Zinc	0.015	mg/L		B	XV	0.0045	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	PPCB	PCB-1016	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	PPCB	PCB-1221	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	PPCB	PCB-1232	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	PPCB	PCB-1242	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	PPCB	PCB-1248	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	PPCB	PCB-1254	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	PPCB	PCB-1260	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	PPCB	Polychlorinated biphenyl	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-09-02	RADS	Alpha activity	-1.4	pCi/L	1.3	U	XV	12.4	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-09-02	RADS	Americium-241	0.0308	pCi/L	0.0205	U	XV	0.0908	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-09-02	RADS	Beta activity	0.21	pCi/L	1.67	U	XV	9.99	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-09-02	RADS	Neptunium-237	0.00434	pCi/L	0.00614	U	XV	0.0332	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-09-02	RADS	Plutonium-238	0	pCi/L	0.00591	U	XV	0.0319	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-09-02	RADS	Plutonium-239/240	0.0459	pCi/L	0.0144	U	XV	0.0319	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-09-02	RADS	Technetium-99	1.41	pCi/L	1.68	U	XV	5.59	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-09-02	RADS	Uranium-233/234	0.181	pCi/L	0.0286	J	XV	0.0337	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-09-02	RADS	Uranium-235	0.00544	pCi/L	0.00769	U	XV	0.0416	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-09-02	RADS	Uranium-238	0.101	pCi/L	0.022	J	XV	0.042	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2,4-Dichlorophenol	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2,4-Dimethylphenol	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2,4-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2-Chloronaphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2-Chlorophenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U	XV	4.8	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2-Methylnaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	2-Nitrophenol	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	3-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U	XV	2.9	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	4-Methylphenol	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	4-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	4-Nitrophenol	1.5	ug/L		U	XV	1.5	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Acenaphthene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Acenaphthylene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Anthracene	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	11/30/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-05-02	SVOA	Benz(a)anthracene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Benzo(a)pyrene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Benzo(ghi)perylene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.67	ug/L		U	XV	0.67	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Chrysene	0.64	ug/L		U	XV	0.64	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Dibenzofuran	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Diethyl phthalate	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Dimethyl phthalate	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Di-n-octylphthalate	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Fluoranthene	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Fluorene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Hexachlorobenzene	0.78	ug/L		U	XV	0.78	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Hexachlorobutadiene	3.9	ug/L		U	XV	3.9	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Hexachloroethane	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.77	ug/L		U	XV	0.77	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Isophorone	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Naphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Nitrobenzene	0.96	ug/L		U	XV	0.96	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Pentachlorophenol	24	ug/L		U	XV	24	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Phenanthrene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Phenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-05-02	SVOA	Pyrene	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Acetone	5.8	ug/L		J	XV	1.9	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/30/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-06-02	VOA	Methylene chloride	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-01-02	WETCHEM	Alkalinity	280	mg/L			XV	1.1	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-01-02	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-01-02	WETCHEM	Alkalinity as HCO3	280	mg/L			XV	1.1	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-02-02	WETCHEM	Ammonium Nitrogen	0.57	mg/L			XV	0.1	WATER	WG	REG	BP	11/30/2011
WD-PZ02G	WDPZ02-01-03	ANION	Chloride	16	mg/L			XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-01-03	ANION	Fluoride	0.06	mg/L		U	XV	0.06	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-01-03	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-01-03	ANION	Sulfate	740	mg/L			XV	4.6	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Aluminum	8.8	mg/L			XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Arsenic	0.0034	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Arsenic	0.017	mg/L			XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Barium	0.045	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Barium	0.097	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Beryllium	0.00074	mg/L		B	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Cadmium	0.00065	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Calcium	220	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Calcium	200	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Chromium	0.022	mg/L			XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Cobalt	0.014	mg/L			XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Copper	0.026	mg/L			XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Iron	27	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Iron	57	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Lead	0.017	mg/L			XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Magnesium	120	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Magnesium	110	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Manganese	0.72	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Manganese	0.94	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Molybdenum	0.0015	mg/L		B	XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Molybdenum	0.016	mg/L			XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Nickel	0.037	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Potassium	4.9	mg/L			XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Potassium	6.8	mg/L			XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Selenium	0.00095	mg/L		B	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Sodium	39	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Sodium	38	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Thallium	0.00045	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-03-03	METAL	Uranium	0.00017	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Uranium	0.0023	mg/L			XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Vanadium	0.0014	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Vanadium	0.043	mg/L			XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-03-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-04-03	METAL	Zinc	0.11	mg/L			XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	PPCB	PCB-1016	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	PPCB	PCB-1221	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	PPCB	PCB-1232	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	PPCB	PCB-1242	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	PPCB	PCB-1248	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	PPCB	PCB-1254	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	PPCB	PCB-1260	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	PPCB	Polychlorinated biphenyl	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-09-03	RADS	Alpha activity	-0.0606	pCi/L	1.57	U	XV	12.1	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-09-03	RADS	Americium-241	0.0199	pCi/L	0.0111	U	XV	0.0381	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-09-03	RADS	Beta activity	5.09	pCi/L	0.88			3.51	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-09-03	RADS	Neptunium-237	0	pCi/L	0.00701	U	XV	0.0474	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-09-03	RADS	Plutonium-238	0	pCi/L	0.00898	U		0.0607	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-09-03	RADS	Plutonium-239/240	0.0317	pCi/L	0.0168	U		0.0607	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-09-03	RADS	Technetium-99	1.56	pCi/L	1.67	U	XV	5.53	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-09-03	RADS	Uranium-233/234	0.8	pCi/L	0.0642			0.0392	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-09-03	RADS	Uranium-235	0.0126	pCi/L	0.0126	U		0.0605	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-09-03	RADS	Uranium-238	0.806	pCi/L	0.0646			0.0489	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	1,2,4-Trichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	1,2-Dichlorobenzene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	1,3-Dichlorobenzene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	1,4-Dichlorobenzene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2,4,5-Trichlorophenol	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2,4-Dichlorophenol	0.82	ug/L		U	XV	0.82	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2,4-Dimethylphenol	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2,4-Dinitrophenol	13	ug/L		U	XV	13	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2-Chloronaphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2-Chlorophenol	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2-Methyl-4,6-dinitrophenol	5.1	ug/L		U	XV	5.1	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2-Methylnaphthalene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2-Methylphenol	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2-Nitrobenzenamine	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	2-Nitrophenol	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	3-Nitrobenzenamine	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	4-Bromophenyl phenyl ether	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	4-Chloro-3-methylphenol	3.1	ug/L		U	XV	3.1	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	4-Methylphenol	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	4-Nitrobenzenamine	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	4-Nitrophenol	1.6	ug/L		U	XV	1.6	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Acenaphthene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Acenaphthylene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Anthracene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Benz(a)anthracene	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Benzo(a)pyrene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Benzo(b)fluoranthene	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Benzo(ghi)perylene	0.64	ug/L		U	XV	0.64	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Benzo(k)fluoranthene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Benzoic acid	13	ug/L		U	XV	13	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.72	ug/L		U	XV	0.72	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Butyl benzyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Chrysene	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Dibenz(a,h)anthracene	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Dibenzofuran	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Diethyl phthalate	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Dimethyl phthalate	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Di-n-butyl phthalate	1.5	ug/L		U	XV	1.5	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Di-n-octylphthalate	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Fluoranthene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Fluorene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Hexachlorobenzene	0.85	ug/L		U	XV	0.85	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Hexachlorobutadiene	4.2	ug/L		U	XV	4.2	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Hexachlorocyclopentadiene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Hexachloroethane	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.84	ug/L		U	XV	0.84	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Isophorone	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Naphthalene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Nitrobenzene	1	ug/L		U	XV	1	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	N-Nitroso-di-n-propylamine	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	N-Nitrosodiphenylamine	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Pentachlorophenol	26	ug/L		U	XV	26	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Phenanthrene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Phenol	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-05-03	SVOA	Pyrene	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Methylene chloride	0.38	ug/L		BJ	XV	0.32	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-01-03	WETCHEM	Alkalinity	270	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-01-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-01-03	WETCHEM	Alkalinity as HCO3	270	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-02-03	WETCHEM	Ammonium Nitrogen	0.69	mg/L				0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ02G	WDPZ02-01-04	ANION	Chloride	16	mg/L				0.25	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-01-04	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-01-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-01-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-01-04	ANION	Sulfate	730	mg/L				4.6	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Aluminum	0.042	mg/L		B		0.018	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Aluminum	0.44	mg/L				0.018	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Arsenic	0.0033	mg/L		B		0.00033	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Arsenic	0.0032	mg/L		B		0.00033	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Barium	0.043	mg/L				0.00058	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Barium	0.049	mg/L				0.00058	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Cadmium	0.000043	mg/L		B		0.00004	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Calcium	200	mg/L				0.035	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Calcium	210	mg/L				0.035	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Chromium	0.0016	mg/L		B		0.00066	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Cobalt	0.0012	mg/L		B		0.0012	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Copper	0.0028	mg/L		B		0.0014	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Iron	26	mg/L				0.022	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Iron	27	mg/L				0.022	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Lead	0.00067	mg/L		B		0.00018	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Magnesium	120	mg/L				0.011	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Manganese	0.66	mg/L				0.00025	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Manganese	0.68	mg/L				0.00025	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Molybdenum	0.0013	mg/L		B		0.00014	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Molybdenum	0.0021	mg/L				0.00014	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Nickel	0.0028	mg/L		B		0.0013	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Potassium	4.8	mg/L				0.24	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Potassium	4.9	mg/L				0.24	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Silver	0.00093	mg/L		NU		0.00093	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Sodium	40	mg/L				0.092	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Sodium	38	mg/L				0.092	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Uranium	0.00015	mg/L		B		0.00002	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Uranium	0.00021	mg/L		B		0.00002	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Vanadium	0.0013	mg/L		B		0.0011	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Vanadium	0.0041	mg/L		B		0.0011	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-03-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-04-04	METAL	Zinc	0.0075	mg/L		B		0.0045	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/12/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-05-04	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-09-04	RADS	Alpha activity	2.3	pCi/L	2.63	U		10	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-09-04	RADS	Americium-241	0.0474	pCi/L	0.019	U		0.0683	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-09-04	RADS	Beta activity	3.93	pCi/L	4.03	U		13.8	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-09-04	RADS	Neptunium-237	0.014	pCi/L	0.00933	U		0.0357	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-09-04	RADS	Plutonium-238	0	pCi/L	0.00956	U		0.0517	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-09-04	RADS	Plutonium-239/240	0.0405	pCi/L	0.0191	U		0.0647	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-09-04	RADS	Technetium-99	-0.366	pCi/L	1.67	U		5.61	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-09-04	RADS	Uranium-233/234	0.124	pCi/L	0.0242	J		0.035	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-09-04	RADS	Uranium-235	0.0169	pCi/L	0.0113	U		0.0432	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-09-04	RADS	Uranium-238	0.0684	pCi/L	0.0188	J		0.0437	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	1,3-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2,4,5-Trichlorophenol	0.57	ug/L		U		0.57	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2,4-Dichlorophenol	0.8	ug/L		U		0.8	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2,4-Dimethylphenol	0.73	ug/L		U		0.73	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2-Chloronaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2-Methyl-4,6-dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2-Methylnaphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	2-Nitrophenol	0.49	ug/L		U		0.49	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	4-Bromophenyl phenyl ether	0.54	ug/L		U		0.54	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	4-Methylphenol	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Acenaphthylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Anthracene	0.53	ug/L		U		0.53	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Benz(a)anthracene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Benzo(a)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Benzo(b)fluoranthene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Benzo(ghi)perylene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Benzo(k)fluoranthene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Bis(2-ethylhexyl)phthalate	0.7	ug/L		U		0.7	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Chrysene	0.68	ug/L		U		0.68	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Dibenz(a,h)anthracene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Dibenzofuran	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Diethyl phthalate	0.48	ug/L		U		0.48	WATER	WG	REG	BP	1/12/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-05-04	SVOA	Dimethyl phthalate	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Di-n-octylphthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Hexachlorobenzene	0.83	ug/L		U		0.83	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Hexachlorobutadiene	4.1	ug/L		U		4.1	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.82	ug/L		U		0.82	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Naphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	N-Nitroso-di-n-propylamine	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	N-Nitrosodiphenylamine	0.55	ug/L		U		0.55	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Phenanthrene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-05-04	SVOA	Pyrene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-01-04	WETCHEM	Alkalinity	270	mg/L				1.1	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-01-04	WETCHEM	Alkalinity as HCO3	270	mg/L				1.1	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-02-04	WETCHEM	Ammonium Nitrogen	0.65	mg/L				0.1	WATER	WG	REG	BP	1/12/2012
WD-PZ02G	WDPZ02-01-05	ANION	Chloride	17	mg/L				0.25	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-01-05	ANION	Fluoride	0.082	mg/L		B		0.06	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-01-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-01-05	ANION	Sulfate	740	mg/L				4.6	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Aluminum	7.4	mg/L				0.018	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Arsenic	0.0035	mg/L		B		0.00033	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Barium	0.042	mg/L				0.00058	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Barium	0.084	mg/L				0.00058	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Calcium	210	mg/L				0.035	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Calcium	200	mg/L				0.035	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Chromium	0.014	mg/L				0.00066	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Cobalt	0.0079	mg/L		B		0.0012	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Copper	0.0022	mg/L		B		0.0014	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Copper	0.012	mg/L		B		0.0014	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Iron	25	mg/L				0.022	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Iron	41	mg/L				0.022	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Lead	0.0094	mg/L				0.00018	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Manganese	0.6	mg/L				0.00025	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Manganese	0.77	mg/L				0.00025	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Molybdenum	0.0015	mg/L		B		0.00014	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Molybdenum	0.0087	mg/L				0.00014	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Nickel	0.017	mg/L		B		0.0013	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Potassium	4.6	mg/L				0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Potassium	6.3	mg/L				0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Sodium	37	mg/L				0.092	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Sodium	36	mg/L				0.092	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Thallium	0.00026	mg/L		B		0.000033	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Uranium	0.00015	mg/L		B		0.00002	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Uranium	0.0013	mg/L				0.00002	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Vanadium	0.0011	mg/L		B		0.0011	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Vanadium	0.03	mg/L				0.0011	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-03-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-04-05	METAL	Zinc	0.061	mg/L				0.0045	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-09-05	RADS	Alpha activity	3.57	pCi/L	3.58	U		11.3	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-09-05	RADS	Americium-241	0.0391	pCi/L	0.0169	U		0.0601	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-09-05	RADS	Beta activity	8.75	pCi/L	4.13	U		9.66	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-09-05	RADS	Neptunium-237	0	pCi/L	0.00776	U		0.0525	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-09-05	RADS	Plutonium-238	0.00568	pCi/L	0.00803	U		0.0434	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-09-05	RADS	Plutonium-239/240	0	pCi/L	0.00803	U		0.0434	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-09-05	RADS	Technetium-99	1.82	pCi/L	1.69	J		5.6	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-09-05	RADS	Uranium-233/234	0.43	pCi/L	0.0458			0.0369	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-09-05	RADS	Uranium-235	0.0357	pCi/L	0.0158	U		0.0456	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-09-05	RADS	Uranium-238	0.365	pCi/L	0.043	J		0.0591	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2,4-Dimethylphenol	0.69	ug/L		U		0.69	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Benzoic acid	23	ug/L		J		12	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Bis(2-ethylhexyl)phthalate	2.8	ug/L		BJ		0.67	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-05-05	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Methylene chloride	0.43	ug/L		BJ		0.32	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-01-05	WETCHEM	Alkalinity	280	mg/L				1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-01-05	WETCHEM	Alkalinity as HCO3	280	mg/L				1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-02-05	WETCHEM	Ammonium Nitrogen	0.57	mg/L				0.1	WATER	WG	REG	BP	2/14/2012
WD-PZ02G	WDPZ02-01-06	ANION	Chloride	16	mg/L				0.25	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-01-06	ANION	Fluoride	0.076	mg/L		B		0.06	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-01-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-01-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-01-06	ANION	Sulfate	700	mg/L				4.6	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Aluminum	0.029	mg/L		B		0.018	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Aluminum	0.24	mg/L				0.018	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Arsenic	0.0033	mg/L		B		0.00033	WATER	WG	REG	BP	3/8/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-04-06	METAL	Arsenic	0.0033	mg/L		B		0.00033	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Barium	0.041	mg/L				0.00058	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Barium	0.045	mg/L				0.00058	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Calcium	200	mg/L				0.035	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Calcium	210	mg/L				0.035	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Chromium	0.0013	mg/L		B		0.00066	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Chromium	0.00092	mg/L		B		0.00066	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Copper	0.0014	mg/L		B		0.0014	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Copper	0.0047	mg/L		B		0.0014	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Iron	24	mg/L				0.022	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Iron	26	mg/L				0.022	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Lead	0.00052	mg/L		B		0.00018	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Manganese	0.58	mg/L				0.00025	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Manganese	0.58	mg/L				0.00025	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Molybdenum	0.0015	mg/L		B		0.00014	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Molybdenum	0.0017	mg/L		B		0.00014	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Potassium	4.6	mg/L				0.24	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Potassium	4.8	mg/L				0.24	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Sodium	37	mg/L				0.092	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Sodium	39	mg/L				0.092	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Thallium	0.000038	mg/L		B		0.000033	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Thallium	0.000046	mg/L		B		0.000033	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Uranium	0.00017	mg/L		B		0.00002	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Uranium	0.00024	mg/L		B		0.00002	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Vanadium	0.0024	mg/L		B		0.0011	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-04-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-09-06	RADS	Alpha activity	0.00617	pCi/L	2.18	U	U	9.52	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-09-06	RADS	Americium-241	0.0961	pCi/L	0.0413	U	U	0.154	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-09-06	RADS	Beta activity	-0.432	pCi/L	2.72	U	UJ	8.07	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-09-06	RADS	Neptunium-237	-0.0046	pCi/L	0.00796	U	U	0.0565	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-09-06	RADS	Plutonium-238	0.00555	pCi/L	0.00785	U	U	0.0425	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-09-06	RADS	Plutonium-239/240	0.0111	pCi/L	0.0111	U	U	0.0531	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-09-06	RADS	Technetium-99	0.299	pCi/L	1.68	J	U	5.63	WATER	WG	REG	BP	3/8/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-09-06	RADS	Uranium-233/234	0.0905	pCi/L	0.0219	J	J	0.0384	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-09-06	RADS	Uranium-235	0.0124	pCi/L	0.0107	U	U	0.0474	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-09-06	RADS	Uranium-238	0.11	pCi/L	0.024	J	J	0.0383	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	1,2,4-Trichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	1,2-Dichlorobenzene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	1,3-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	1,4-Dichlorobenzene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2,4,5-Trichlorophenol	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2,4,6-Trichlorophenol	0.38	ug/L		U		0.38	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2,4-Dichlorophenol	0.84	ug/L		U		0.84	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2,4-Dimethylphenol	0.76	ug/L		U		0.76	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2,4-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2,6-Dinitrotoluene	2.5	ug/L		U		2.5	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2-Chloronaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2-Chlorophenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2-Methyl-4,6-dinitrophenol	5.2	ug/L		U		5.2	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2-Methylnaphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2-Methylphenol	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	2-Nitrophenol	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	3-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	4-Bromophenyl phenyl ether	0.56	ug/L		U		0.56	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	4-Chloro-3-methylphenol	3.2	ug/L		U		3.2	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	4-Chlorophenyl phenyl ether	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	4-Methylphenol	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	4-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Acenaphthene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Acenaphthylene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Anthracene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Benz(a)anthracene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Benzo(a)pyrene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Benzo(b)fluoranthene	0.7	ug/L		U		0.7	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Benzo(ghi)perylene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Benzo(k)fluoranthene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Benzoic acid	19	ug/L		J		13	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Bis(2-chloroethoxy)methane	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Bis(2-ethylhexyl)phthalate	2.9	ug/L		BJ		0.73	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Chrysene	0.71	ug/L		U		0.71	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Dibenz(a,h)anthracene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Dibenzofuran	0.38	ug/L		U		0.38	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Diethyl phthalate	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Dimethyl phthalate	0.28	ug/L		U		0.28	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Di-n-octylphthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Fluoranthene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Fluorene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Hexachlorobenzene	0.87	ug/L		U		0.87	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Hexachlorobutadiene	4.3	ug/L		U		4.3	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Hexachlorocyclopentadiene	13	ug/L		U		13	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Hexachloroethane	2.8	ug/L		U		2.8	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.85	ug/L		U		0.85	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Isophorone	0.28	ug/L		U		0.28	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Naphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Nitrobenzene	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	N-Nitroso-di-n-propylamine	0.46	ug/L		U		0.46	WATER	WG	REG	BP	3/8/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-05-06	SVOA	N-Nitrosodiphenylamine	0.58	ug/L		U		0.58	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Pentachlorophenol	26	ug/L		U		26	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Phenanthrene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Phenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-05-06	SVOA	Pyrene	0.49	ug/L		U		0.49	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Methylene chloride	0.72	ug/L		BJ		0.32	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-01-06	WETCHEM	Alkalinity	270	mg/L				1.1	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-01-06	WETCHEM	Alkalinity as HCO3	270	mg/L				1.1	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-02-06	WETCHEM	Ammonium Nitrogen	0.64	mg/L				0.1	WATER	WG	REG	BP	3/8/2012
WD-PZ02G	WDPZ02-01-07	ANION	Chloride	17	mg/L				0.25	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-01-07	ANION	Fluoride	0.074	mg/L		B		0.06	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-01-07	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-01-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-01-07	ANION	Sulfate	750	mg/L				4.6	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Aluminum	5.6	mg/L				0.018	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Arsenic	0.0036	mg/L		B		0.00033	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Arsenic	0.0065	mg/L				0.00033	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Barium	0.043	mg/L				0.00058	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Barium	0.075	mg/L				0.00058	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Cadmium	0.00028	mg/L		B		0.0001	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-03-07	METAL	Calcium	210	mg/L				0.035	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Calcium	210	mg/L				0.035	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Chromium	0.0096	mg/L		B		0.00066	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Cobalt	0.0049	mg/L		B		0.0012	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Copper	0.0021	mg/L		B		0.0014	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Copper	0.0084	mg/L		B		0.0014	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Iron	26	mg/L				0.022	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Iron	36	mg/L				0.022	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Lead	0.0056	mg/L				0.00018	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Manganese	0.57	mg/L				0.00025	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Manganese	0.65	mg/L				0.00025	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Molybdenum	0.0015	mg/L		B		0.00014	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Molybdenum	0.0052	mg/L				0.00014	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Nickel	0.011	mg/L		B		0.0013	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Potassium	4.8	mg/L				0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Potassium	5.9	mg/L				0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Selenium	0.0013	mg/L		B		0.0007	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Sodium	39	mg/L				0.092	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Sodium	37	mg/L				0.092	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Thallium	0.00017	mg/L		B		0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Uranium	0.00019	mg/L		B		0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Uranium	0.00081	mg/L		B		0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Vanadium	0.0014	mg/L		B		0.0011	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Vanadium	0.021	mg/L				0.0011	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-04-07	METAL	Zinc	0.037	mg/L				0.0045	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-09-07	RADS	Alpha activity	9.01	pCi/L	4.12	U	UJ	8.75	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-09-07	RADS	Americium-241	0.0768	pCi/L	0.0192	J	U	0.0345	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-09-07	RADS	Beta activity	-3.52	pCi/L	2.53	U	UJ	8.11	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-09-07	RADS	Neptunium-237	0.0136	pCi/L	0.00909	U	U	0.0348	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-09-07	RADS	Plutonium-238	-0.0053	pCi/L	-0.00749	U	U	0.0507	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-09-07	RADS	Plutonium-239/240	0.0371	pCi/L	0.015	U	U	0.0405	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-09-07	RADS	Technetium-99	-0.184	pCi/L	1.63	U	U	5.48	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-09-07	RADS	Uranium-233/234	0.306	pCi/L	0.0395	J	J	0.0384	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-09-07	RADS	Uranium-235	0.0186	pCi/L	0.0124	U	U	0.0474	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-09-07	RADS	Uranium-238	0.225	pCi/L	0.0339	J	J	0.0383	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-05-07	SVOA	2,4,5-Trichlorophenol	0.56	ug/L		U		0.56	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2,4-Dichlorophenol	0.8	ug/L		U		0.8	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2,4-Dimethylphenol	0.72	ug/L		U		0.72	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2-Chloronaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2-Methyl-4,6-dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2-Methylnaphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	2-Nitrophenol	0.49	ug/L		U		0.49	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	4-Bromophenyl phenyl ether	0.54	ug/L		U		0.54	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	4-Methylphenol	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Acenaphthylene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Anthracene	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Benz(a)anthracene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Benzo(a)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Benzo(b)fluoranthene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Benzo(ghi)perylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Benzo(k)fluoranthene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Bis(2-ethylhexyl)phthalate	2.6	ug/L		BJ		0.7	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Chrysene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Dibenz(a,h)anthracene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Dibenzofuran	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Diethyl phthalate	0.47	ug/L		U		0.47	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Dimethyl phthalate	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Di-n-octylphthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Hexachlorobenzene	0.82	ug/L		U		0.82	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Hexachlorobutadiene	4.1	ug/L		U		4.1	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.81	ug/L		U		0.81	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Naphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	N-Nitroso-di-n-propylamine	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	N-Nitrosodiphenylamine	0.55	ug/L		U		0.55	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Phenanthrene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-05-07	SVOA	Pyrene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	WDPZ02-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Methylene chloride	0.32	ug/L		BJ		0.32	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-01-07	WETCHEM	Alkalinity	290	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-01-07	WETCHEM	Alkalinity as HCO3	290	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	WDPZ02-02-07	WETCHEM	Ammonium Nitrogen	0.6	mg/L				0.1	WATER	WG	REG	BP	4/10/2012
WD-PZ02G	QW10	ANION	Chloride	21000	ug/L				250	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW10	ANION	Fluoride	60	ug/L		U		60	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW10	ANION	Nitrate	48	ug/L		B		42	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW10	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW10	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW10	ANION	Sulfate	900000	ug/L				4600	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW17	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	HERB	2,4,5-T	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	QW14	HERB	2,4-D	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	HERB	2,4-DB	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	HERB	Dalapon	1.39	ug/L		U		1.39	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	HERB	Dicamba	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	HERB	Dichloroprop	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	HERB	Dinoseb	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	HERB	MCPA	12.2	ug/L		U		12.2	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	HERB	MCPP	11.1	ug/L		U		11.1	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	HERB	Silvex	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	2,4'-DDD	0.00562	ug/L		U		0.00562	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	2,4'-DDD	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	2,4'-DDE	0.00674	ug/L		U		0.00674	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	2,4'-DDE	0.00667	ug/L		JU		0.00667	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	2,4'-DDT	0.00562	ug/L		U		0.00562	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	2,4'-DDT	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	4,4'-DDD	0.0112	ug/L		U		0.0112	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	4,4'-DDD	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	4,4'-DDE	0.0112	ug/L		U		0.0112	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	4,4'-DDE	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	4,4'-DDT	0.0112	ug/L		U		0.0112	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	4,4'-DDT	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Aldrin	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Aldrin	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	alpha-BHC	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	alpha-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	alpha-Chlordane	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	alpha-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	beta-BHC	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	beta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Chlordane	0.086	ug/L		U		0.086	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Chlordane	0.085	ug/L		JU		0.085	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	delta-BHC	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	delta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Dieldrin	0.0112	ug/L		U		0.0112	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Dieldrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endosulfan I	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endosulfan I	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endosulfan II	0.0112	ug/L		U		0.0112	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endosulfan II	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endosulfan sulfate	0.0112	ug/L		U		0.0112	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endosulfan sulfate	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endrin	0.0112	ug/L		U		0.0112	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endrin aldehyde	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endrin aldehyde	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endrin ketone	0.0112	ug/L		U		0.0112	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Endrin ketone	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	gamma-Chlordane	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	gamma-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Heptachlor	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Heptachlor	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Heptachlor epoxide	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Heptachlor epoxide	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Kepone	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Lindane	0.00747	ug/L		U		0.00747	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Lindane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Methoxychlor	0.0562	ug/L		U		0.0562	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Methoxychlor	0.0556	ug/L		JU		0.0556	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	PCB-1016	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	PCB-1221	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	QW14	PPCB	PCB-1232	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	PCB-1242	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	PCB-1248	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	PCB-1254	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	PCB-1260	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	PCB-1268	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Polychlorinated biphenyl	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Toxaphene	0.169	ug/L		U		0.169	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	PPCB	Toxaphene	0.167	ug/L		JU		0.167	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Americium-241	0	pCi/L	0.0496			0.0969	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Neptunium-237	-0.00388	pCi/L	0.017	U		0.0372	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Plutonium-238	0.0081	pCi/L	0.0159	U		0.0122	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Plutonium-239/240	-0.00405	pCi/L	0.0137	U		0.031	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Technetium-99	-0.0723	pCi/L	0.332	U		0.581	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Thorium-228	0.321	pCi/L	0.0778			0.0568	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Thorium-230	0.165	pCi/L	0.0583			0.0584	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Thorium-232	0.0868	pCi/L	0.0396			0.0308	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Uranium-233/234	0.533	pCi/L	0.089			0.0606	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Uranium-235/236	0.0251	pCi/L	0.0232			0.0126	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW16	RADS	Uranium-238	0.457	pCi/L	0.0793			0.0374	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	1,2,4-Trichlorobenzene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	1,2-Dichlorobenzene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	1,3-Dichlorobenzene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	1,4-Dichlorobenzene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2,4,5-Trichlorophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2,4,6-Trichlorophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2,4-Dichlorophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2,4-Dimethylphenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2,4-Dinitrophenol	5.62	ug/L		U		5.62	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2,4-Dinitrotoluene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2,6-Dinitrotoluene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2-Chloronaphthalene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2-Chlorophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2-Methyl-4,6-dinitrophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2-Methylnaphthalene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2-Methylphenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2-Nitrobenzenamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	2-Nitrophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	3,3'-Dichlorobenzidine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	3-Nitrobenzenamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	4-Aminobiphenyl	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	4-Bromophenyl phenyl ether	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	4-Chloro-3-methylphenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	4-Chlorobenzenamine	3.71	ug/L		U		3.71	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	4-Chlorophenyl phenyl ether	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	4-Nitrobenzenamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	4-Nitrophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Acenaphthene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Acenaphthylene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Acetophenone	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Anthracene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Benz(a)anthracene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Benzenemethanol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Benzo(a)pyrene	0.494	ug/L		U		0.494	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Benzo(b)fluoranthene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Benzo(ghi)perylene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Benzo(k)fluoranthene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Benzoic acid	6.74	ug/L		U		6.74	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Bis(2-chloroethoxy)methane	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Bis(2-chloroethyl) ether	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	QW14	SVOA	bis(2-Chloroisopropyl)ether	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Bis(2-ethylhexyl)phthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Butyl benzyl phthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Chrysene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Dibenz(a,h)anthracene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Dibenzofuran	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Diethyl phthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Dimethyl phthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Di-n-butyl phthalate	3.66	ug/L		BJ		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Di-n-octylphthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Diphenylamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Fluoranthene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Fluorene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Hexachlorobenzene	0.00702	ug/L		U		0.00702	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Hexachlorobenzene	0.00694	ug/L		JU		0.00694	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Hexachlorobutadiene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Hexachlorocyclopentadiene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Hexachloroethane	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Indeno(1,2,3-cd)pyrene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Isophorone	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	m+p Methylphenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Naphthalene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Nitrobenzene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	N-Nitrosodimethylamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	N-Nitroso-di-n-propylamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	N-Nitrosomorpholine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	O,O,O-Triethylphosphorothioate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Pentachlorophenol	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Phenanthrene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Phenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Pyrene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	SVOA	Pyridine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW14	VOA	1,4-Dioxane	3.37	ug/L		U		3.37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	QW15	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW15	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW10	WETCHEM	Alkalinity	270	mg/L				1.1	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW10	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW10	WETCHEM	Alkalinity as HCO3	270	mg/L				1.1	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW11	WETCHEM	Ammonium Nitrogen	0.65	mg/L				0.1	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW10	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW18	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/18/2012
WD-PZ02G	QW12R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Aluminum	0.043	mg/L		B		0.018	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Antimony	0.00043	mg/L		B		0.0004	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Antimony	0.00044	mg/L		B		0.0004	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Arsenic	0.0032	mg/L		B		0.00033	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Arsenic	0.0033	mg/L		B		0.00033	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Barium	0.044	mg/L				0.00029	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Barium	0.042	mg/L				0.00029	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Calcium	220	mg/L				0.035	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Calcium	220	mg/L				0.035	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Cobalt	0.0013	mg/L				0.000054	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Cobalt	0.0015	mg/L				0.000054	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Iron	23	mg/L				0.022	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Iron	23	mg/L				0.022	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Lithium	0.021	mg/L				0.0026	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Lithium	0.015	mg/L				0.0026	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Magnesium	120	mg/L				0.011	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Magnesium	120	mg/L				0.011	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Manganese	0.87	mg/L				0.00031	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Manganese	0.9	mg/L				0.00031	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	QW12R	METAL	Nickel	0.0008	mg/L		B		0.0003	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Nickel	0.0012	mg/L		B		0.0003	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Potassium	4.7	mg/L				0.24	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Potassium	4.8	mg/L				0.24	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Silver	0.0021	mg/L		B		0.000033	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Sodium	49	mg/L				0.092	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Sodium	50	mg/L				0.092	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Strontium	1.7	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Strontium	1.7	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Thallium	0.00069	mg/L		B		0.00005	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Thallium	0.00064	mg/L		B		0.00005	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Uranium	0.00049	mg/L		B		0.00005	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Uranium	0.00051	mg/L		B		0.00005	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Vanadium	0.00073	mg/L		B		0.0005	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW12R	METAL	Zinc	0.002	mg/L		B		0.002	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW13R	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW250	WETCHEM	Chromium, hexavalent	0.0087	mg/L		BJ		0.004	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW251	WETCHEM	Chromium, hexavalent	0.0054	mg/L		BJ		0.004	WATER	WG	REG	BP	9/27/2012
WD-PZ02G	QW264	ANION	Chloride	24000	ug/L				250	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW264	ANION	Fluoride	66	ug/L		B		60	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW264	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW264	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW264	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW264	ANION	Sulfate	800000	ug/L				4600	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW275	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	HERB	2,4,5-T	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	HERB	2,4-D	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	HERB	2,4-DB	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	HERB	Dalapon	1.52	ug/L		U		1.52	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	HERB	Dicamba	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	HERB	Dichloroprop	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	HERB	Dinoseb	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	HERB	MCPA	13.4	ug/L		U		13.4	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	HERB	MCPP	12.2	ug/L		U		12.2	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	HERB	Silvex	0.101	ug/L		U		0.101	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	QW269	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Arsenic	0.0034	mg/L		B		0.00033	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Arsenic	0.0037	mg/L		B		0.00033	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Barium	0.04	mg/L				0.00029	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Barium	0.042	mg/L				0.00029	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Calcium	210	mg/L				0.035	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Calcium	210	mg/L				0.035	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Cobalt	0.00085	mg/L		B		0.000054	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Cobalt	0.0011	mg/L				0.000054	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Iron	22	mg/L				0.022	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Iron	23	mg/L				0.022	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Lead	0.0002	mg/L		B		0.00018	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Lithium	0.019	mg/L				0.0026	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Lithium	0.029	mg/L		B		0.013	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Magnesium	130	mg/L				0.011	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Manganese	0.8	mg/L				0.00031	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Manganese	0.88	mg/L				0.00031	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Nickel	0.00089	mg/L		B		0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Nickel	0.0022	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Potassium	4.7	mg/L				0.24	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Potassium	5.1	mg/L				0.24	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Silver	0.00011	mg/L		B		0.000033	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Sodium	50	mg/L				0.092	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Sodium	52	mg/L				0.092	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Strontium	1.8	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Strontium	1.8	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Thallium	0.00061	mg/L		B		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Titanium	0.0012	mg/L		B		0.0006	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Uranium	0.00045	mg/L		B		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Uranium	0.00038	mg/L		B		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW268	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW269	METAL	Zinc	0.0021	mg/L		B		0.002	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	2,4'-DDD	0.00526	ug/L		U		0.00526	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	2,4'-DDE	0.00632	ug/L		U		0.00632	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	2,4'-DDT	0.00526	ug/L		U		0.00526	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	QW272	PPCB	4,4'-DDD	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	4,4'-DDE	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	4,4'-DDT	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Aldrin	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	alpha-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	alpha-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	beta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Chlordane	0.0805	ug/L		U		0.0805	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	delta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Dieldrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Endosulfan I	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Endosulfan II	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Endosulfan sulfate	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Endrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Endrin aldehyde	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Endrin ketone	0.0105	ug/L		U		0.0105	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	gamma-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Heptachlor	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Heptachlor epoxide	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Lindane	0.007	ug/L		U		0.007	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Methoxychlor	0.0526	ug/L		U		0.0526	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	PCB-1016	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	PCB-1221	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	PCB-1232	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	PCB-1242	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	PCB-1248	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	PCB-1254	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	PCB-1260	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	PCB-1268	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Polychlorinated biphenyl	0.0383	ug/L		U		0.0383	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	PPCB	Toxaphene	0.158	ug/L		U		0.158	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Americium-241	0.0095	pCi/L	0.0161	U		0.0263	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Neptunium-237	-0.0106	pCi/L	0.0155	U		0.0391	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Plutonium-238	7.08E-10	pCi/L	0.0102	U		0.0203	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Plutonium-239/240	0.00212	pCi/L	0.0125	U		0.0235	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Technetium-99	-0.365	pCi/L	0.336	U		0.601	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Thorium-228	0.0146	pCi/L	0.0321	U		0.0547	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Thorium-230	0.0308	pCi/L	0.0394	U		0.0618	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Thorium-232	-0.00534	pCi/L	0.0165	U		0.0377	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Uranium-233/234	0.16	pCi/L	0.0398			0.034	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Uranium-235/236	0.00512	pCi/L	0.0142	U		0.0245	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW274	RADS	Uranium-238	0.0973	pCi/L	0.0306			0.0255	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	QW272	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Hexachlorobenzene	0.00658	ug/L		U		0.00658	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Pentachlorophenol	0.061	ug/L		U		0.061	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ02G	QW273	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW272	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW273	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW264	WETCHEM	Alkalinity	270	mg/L				1.1	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW264	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW264	WETCHEM	Alkalinity as HCO3	270	mg/L				1.1	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW265	WETCHEM	Ammonium Nitrogen	0.56	mg/L				0.1	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW277	WETCHEM	Chromium, hexavalent	0.0041	mg/L		BJ		0.004	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW278	WETCHEM	Chromium, hexavalent	0.0067	mg/L		BJ		0.004	WATER	WG	REG	BP	12/3/2012
WD-PZ02G	QW276	WETCHEM	Cyanide	0.0029	mg/L		B		0.002	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	WDPZ03-01-01	ANION	Chloride	6.5	mg/L			=	0.25	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-01-01	ANION	Fluoride	0.06	mg/L		U	U	0.06	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-01-01	ANION	Nitrate	0.042	mg/L		U	U	0.042	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-04-01	ANION	Nitrate/Nitrite as Nitrogen	0.019	mg/L		U	U	0.019	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-01-01	ANION	Orthophosphate	0.19	mg/L		U	U	0.19	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-01-01	ANION	Sulfate	520	mg/L			=	4.6	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-05-01	METAL	Calcium	97000	ug/L			=	35	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-05-01	METAL	Magnesium	58000	ug/L			=	11	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-05-01	METAL	Potassium	2300	ug/L		B	J	240	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-05-01	METAL	Sodium	47000	ug/L			=	92	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-02-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	U	1.1	WATER	WG	REG	BP	7/26/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-02-01	WETCHEM	Alkalinity as HCO3	130	mg/L			=	1.1	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-03-01	WETCHEM	Ammonia	0.12	mg/L			=	0.1	WATER	WG	REG	BP	7/26/2011
WD-PZ03G	WDPZ03-01-02	ANION	Chloride	6	mg/L			XV	0.25	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-01-02	ANION	Fluoride	0.06	mg/L		U	XV	0.06	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-01-02	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-01-02	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-01-02	ANION	Sulfate	440	mg/L			XV	2.3	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Arsenic	0.011	mg/L			XV	0.00033	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Arsenic	0.011	mg/L			XV	0.00033	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Barium	0.023	mg/L			XV	0.00058	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Barium	0.024	mg/L			XV	0.00058	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Calcium	88	mg/L			XV	0.035	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Calcium	88	mg/L			XV	0.035	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Iron	33	mg/L			XV	0.022	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Iron	34	mg/L			XV	0.022	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Magnesium	55	mg/L			XV	0.011	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Magnesium	56	mg/L			XV	0.011	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Manganese	0.86	mg/L			XV	0.00025	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Manganese	0.89	mg/L			XV	0.00025	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Mercury	0.027	ug/L		U	XV	0.027	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Molybdenum	0.0026	mg/L			XV	0.00014	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Molybdenum	0.0024	mg/L			XV	0.00014	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Potassium	2.1	mg/L		B	XV	0.24	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Potassium	2.1	mg/L		B	XV	0.24	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Sodium	43	mg/L			XV	0.092	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Sodium	42	mg/L			XV	0.092	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Uranium	0.00002	mg/L		U	XV	0.00002	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Uranium	0.00002	mg/L		B	XV	0.00002	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Vanadium	0.0011	mg/L		B	XV	0.0011	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-03-02	METAL	Zinc	0.0045	mg/L		B	XV	0.0045	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-04-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	PPCB	PCB-1016	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	PPCB	PCB-1221	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	PPCB	PCB-1232	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-05-02	PPCB	PCB-1242	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	PPCB	PCB-1248	0.098	ug/L		U	XV	0.098	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	PPCB	PCB-1254	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	PPCB	PCB-1260	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	PPCB	Polychlorinated biphenyl	0.091	ug/L		U	XV	0.091	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-09-02	RADS	Alpha activity	1.94	pCi/L	1.53	U	XV	10.6	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-09-02	RADS	Americium-241	0.0149	pCi/L	0.0111	U	XV	0.0477	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-09-02	RADS	Beta activity	-0.295	pCi/L	1.65	U	XV	9.85	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-09-02	RADS	Neptunium-237	0.00819	pCi/L	0.00819	U	XV	0.0392	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-09-02	RADS	Plutonium-238	-0.00431	pCi/L	-0.00609	U	XV	0.0413	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-09-02	RADS	Plutonium-239/240	0.0302	pCi/L	0.0129	U	XV	0.0413	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-09-02	RADS	Technetium-99	0.0114	pCi/L	1.66	U	XV	5.58	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-09-02	RADS	Uranium-233/234	0.0619	pCi/L	0.0178	J	XV	0.0364	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-09-02	RADS	Uranium-235	0	pCi/L	0.00832	U	XV	0.045	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-09-02	RADS	Uranium-238	0.0142	pCi/L	0.00949	U	XV	0.0363	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	1,2,4-Trichlorobenzene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	1,2-Dichlorobenzene	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	1,3-Dichlorobenzene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	1,4-Dichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2,4,5-Trichlorophenol	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2,4,6-Trichlorophenol	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2,4-Dichlorophenol	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2,4-Dimethylphenol	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2,4-Dinitrophenol	11	ug/L		U	XV	11	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2,4-Dinitrotoluene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2,6-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2-Chloronaphthalene	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2-Chlorophenol	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.2	ug/L		U	XV	4.2	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2-Methylnaphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2-Methylphenol	1	ug/L		U	XV	1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2-Nitrobenzenamine	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	2-Nitrophenol	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	3,3'-Dichlorobenzidine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	3-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	4-Bromophenyl phenyl ether	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	4-Chloro-3-methylphenol	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	4-Chlorophenyl phenyl ether	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	4-Methylphenol	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	4-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	4-Nitrophenol	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Acenaphthene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Acenaphthylene	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Anthracene	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Benz(a)anthracene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Benzo(a)pyrene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Benzo(b)fluoranthene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Benzo(ghi)perylene	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Benzo(k)fluoranthene	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Benzoic acid	11	ug/L		U	XV	11	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Bis(2-chloroethoxy)methane	1	ug/L		U	XV	1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Butyl benzyl phthalate	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Chrysene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Dibenz(a,h)anthracene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Dibenzofuran	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Diethyl phthalate	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Dimethyl phthalate	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Di-n-butyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-05-02	SVOA	Di-n-octylphthalate	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Fluoranthene	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Fluorene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Hexachlorobenzene	0.7	ug/L		U	XV	0.7	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Hexachlorobutadiene	3.5	ug/L		U	XV	3.5	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Hexachlorocyclopentadiene	1.6	ug/L		U	XV	1.6	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Hexachloroethane	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Isophorone	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Naphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Nitrobenzene	0.86	ug/L		U	XV	0.86	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	N-Nitroso-di-n-propylamine	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	N-Nitrosodiphenylamine	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Pentachlorophenol	21	ug/L		U	XV	21	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Phenanthrene	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Phenol	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-05-02	SVOA	Pyrene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Methylene chloride	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-01-02	WETCHEM	Alkalinity	130	mg/L			XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-01-02	WETCHEM	Alkalinity as CO3	17	mg/L			XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-01-02	WETCHEM	Alkalinity as HCO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-02-02	WETCHEM	Ammonium Nitrogen	0.13	mg/L			XV	0.1	WATER	WG	REG	BP	11/29/2011
WD-PZ03G	WDPZ03-19-02	ANION	Chloride	6	mg/L			XV	0.25	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-19-02	ANION	Fluoride	0.06	mg/L		U	XV	0.06	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-19-02	ANION	Nitrate	0.042	mg/L		JU	XV	0.042	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-19-02	ANION	Orthophosphate	0.19	mg/L		JU	XV	0.19	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-19-02	ANION	Sulfate	440	mg/L			XV	2.3	WATER	WG	FR	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-21-02	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Arsenic	0.011	mg/L			XV	0.00033	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Arsenic	0.01	mg/L			XV	0.00033	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Barium	0.023	mg/L			XV	0.00058	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Barium	0.024	mg/L			XV	0.00058	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Cadmium	0.00005	mg/L		B	XV	0.00004	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Calcium	88	mg/L			XV	0.035	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Calcium	88	mg/L			XV	0.035	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Copper	0.0019	mg/L		B	XV	0.0014	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Iron	33	mg/L			XV	0.022	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Iron	34	mg/L			XV	0.022	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Lead	0.0002	mg/L		B	XV	0.00018	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Magnesium	55	mg/L			XV	0.011	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Magnesium	56	mg/L			XV	0.011	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Manganese	0.86	mg/L			XV	0.00025	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Manganese	0.89	mg/L			XV	0.00025	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Mercury	0.027	ug/L		U	XV	0.027	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Molybdenum	0.0023	mg/L			XV	0.00014	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Molybdenum	0.0023	mg/L			XV	0.00014	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Potassium	1.9	mg/L		B	XV	0.24	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Potassium	2.1	mg/L		B	XV	0.24	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Sodium	43	mg/L			XV	0.092	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Sodium	42	mg/L			XV	0.092	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Uranium	0.000023	mg/L		B	XV	0.00002	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Uranium	0.00002	mg/L		U	XV	0.00002	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-21-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-22-02	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	PPCB	PCB-1016	0.13	ug/L		U	XV	0.13	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	PPCB	PCB-1221	0.23	ug/L		U	XV	0.23	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	PPCB	PCB-1232	0.18	ug/L		U	XV	0.18	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	PPCB	PCB-1242	0.11	ug/L		U	XV	0.11	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	PPCB	PCB-1248	0.098	ug/L		U	XV	0.098	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	PPCB	PCB-1254	0.12	ug/L		U	XV	0.12	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	PPCB	PCB-1260	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	PPCB	Polychlorinated biphenyl	0.091	ug/L		U	XV	0.091	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-27-02	RADS	Alpha activity	0.369	pCi/L	1.34	U	XV	10.5	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-27-02	RADS	Americium-241	0.0363	pCi/L	0.0157	U	XV	0.0559	WATER	WG	FR	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-27-02	RADS	Beta activity	-0.056	pCi/L	1.64	U	XV	9.85	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-27-02	RADS	Neptunium-237	0.0214	pCi/L	0.0105	U	XV	0.0327	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-27-02	RADS	Plutonium-238	0	pCi/L	0.006	U	XV	0.0324	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-27-02	RADS	Plutonium-239/240	0.0212	pCi/L	0.0112	U	XV	0.0406	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-27-02	RADS	Technetium-99	2.45	pCi/L	1.69	U	XV	5.57	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-27-02	RADS	Uranium-233/234	0.0208	pCi/L	0.0102	U	XV	0.0319	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-27-02	RADS	Uranium-235	0	pCi/L	0.00728	U	XV	0.0393	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-27-02	RADS	Uranium-238	0.0166	pCi/L	0.0102	U	XV	0.0398	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	1,2,4-Trichlorobenzene	0.3	ug/L		U	XV	0.3	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	1,2-Dichlorobenzene	0.25	ug/L		U	XV	0.25	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	1,3-Dichlorobenzene	0.32	ug/L		U	XV	0.32	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	1,4-Dichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2,4,5-Trichlorophenol	0.49	ug/L		U	XV	0.49	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2,4,6-Trichlorophenol	0.31	ug/L		U	XV	0.31	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2,4-Dichlorophenol	0.69	ug/L		U	XV	0.69	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2,4-Dimethylphenol	0.63	ug/L		U	XV	0.63	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2,4-Dinitrophenol	11	ug/L		U	XV	11	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2,4-Dinitrotoluene	1.8	ug/L		U	XV	1.8	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2,6-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2-Chloronaphthalene	0.28	ug/L		U	XV	0.28	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2-Chlorophenol	2.2	ug/L		U	XV	2.2	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2-Methyl-4,6-dinitrophenol	4.3	ug/L		U	XV	4.3	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2-Methylnaphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2-Nitrobenzenamine	1.9	ug/L		U	XV	1.9	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	2-Nitrophenol	0.42	ug/L		U	XV	0.42	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	3,3'-Dichlorobenzidine	2.2	ug/L		U	XV	2.2	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	3-Nitrobenzenamine	2.2	ug/L		U	XV	2.2	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	4-Bromophenyl phenyl ether	0.47	ug/L		U	XV	0.47	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	4-Chloro-3-methylphenol	2.6	ug/L		U	XV	2.6	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	4-Chlorophenyl phenyl ether	1.8	ug/L		U	XV	1.8	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	4-Methylphenol	0.27	ug/L		U	XV	0.27	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	4-Nitrobenzenamine	2.2	ug/L		U	XV	2.2	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	4-Nitrophenol	1.3	ug/L		U	XV	1.3	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Acenaphthene	0.3	ug/L		U	XV	0.3	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Acenaphthylene	0.53	ug/L		U	XV	0.53	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Anthracene	0.45	ug/L		U	XV	0.45	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Benz(a)anthracene	0.38	ug/L		U	XV	0.38	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Benzo(a)pyrene	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Benzo(b)fluoranthene	0.57	ug/L		U	XV	0.57	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Benzo(ghi)perylene	0.54	ug/L		U	XV	0.54	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Benzo(k)fluoranthene	0.5	ug/L		U	XV	0.5	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Benzoic acid	11	ug/L		U	XV	11	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	bis(2-Chloroisopropyl)ether	0.3	ug/L		U	XV	0.3	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Bis(2-ethylhexyl)phthalate	0.61	ug/L		U	XV	0.61	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Butyl benzyl phthalate	1.1	ug/L		U	XV	1.1	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Chrysene	0.58	ug/L		U	XV	0.58	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Dibenz(a,h)anthracene	0.55	ug/L		U	XV	0.55	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Dibenzofuran	0.31	ug/L		U	XV	0.31	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Diethyl phthalate	0.41	ug/L		U	XV	0.41	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Dimethyl phthalate	0.23	ug/L		U	XV	0.23	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Di-n-butyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Di-n-octylphthalate	0.38	ug/L		U	XV	0.38	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Fluoranthene	0.22	ug/L		U	XV	0.22	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Fluorene	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Hexachlorobenzene	0.71	ug/L		U	XV	0.71	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Hexachlorobutadiene	3.6	ug/L		U	XV	3.6	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Hexachlorocyclopentadiene	1.7	ug/L		U	XV	1.7	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Hexachloroethane	2.3	ug/L		U	XV	2.3	WATER	WG	FR	BP	11/29/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-23-02	SVOA	Indeno(1,2,3-cd)pyrene	0.7	ug/L		U	XV	0.7	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Isophorone	0.23	ug/L		U	XV	0.23	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Naphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Nitrobenzene	0.88	ug/L		U	XV	0.88	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	N-Nitroso-di-n-propylamine	0.38	ug/L		U	XV	0.38	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	N-Nitrosodiphenylamine	0.48	ug/L		U	XV	0.48	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Pentachlorophenol	22	ug/L		U	XV	22	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Phenanthrene	0.28	ug/L		U	XV	0.28	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Phenol	2.2	ug/L		U	XV	2.2	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-23-02	SVOA	Pyrene	0.4	ug/L		U	XV	0.4	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-26-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Methylene chloride	0.32	ug/L		U	XV	0.32	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-25-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-24-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-25-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-19-02	WETCHEM	Alkalinity	130	mg/L			XV	1.1	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-19-02	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-19-02	WETCHEM	Alkalinity as HCO3	130	mg/L			XV	1.1	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-20-02	WETCHEM	Ammonium Nitrogen	0.12	mg/L			XV	0.1	WATER	WG	FR	BP	11/29/2011
WD-PZ03G	WDPZ03-01-03	ANION	Chloride	5.9	mg/L			XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-01-03	ANION	Fluoride	0.06	mg/L		U	XV	0.06	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-01-03	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-01-03	ANION	Sulfate	430	mg/L			XV	2.3	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Aluminum	0.43	mg/L			XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Arsenic	0.012	mg/L			XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Arsenic	0.012	mg/L			XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Barium	0.024	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-04-03	METAL	Barium	0.026	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Cadmium	0.000044	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Calcium	94	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Calcium	91	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Chromium	0.00096	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Copper	0.0062	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Iron	36	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Iron	38	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Lead	0.00073	mg/L		B	XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Magnesium	59	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Magnesium	58	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Manganese	0.9	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Manganese	0.92	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Molybdenum	0.0025	mg/L			XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Molybdenum	0.0028	mg/L			XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Nickel	0.0023	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Potassium	2	mg/L		B	XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Potassium	2.4	mg/L		B	XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Sodium	43	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Sodium	41	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Uranium	0.000031	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Uranium	0.000096	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Vanadium	0.0027	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-03-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-04-03	METAL	Zinc	0.0072	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	PPCB	PCB-1221	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	PPCB	PCB-1248	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	PPCB	PCB-1260	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	PPCB	Polychlorinated biphenyl	0.097	ug/L		U	XV	0.097	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-09-03	RADS	Alpha activity	-0.022	pCi/L	1.22	U	XV	9.45	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-09-03	RADS	Americium-241	0.0219	pCi/L	0.0116	U	XV	0.0419	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-09-03	RADS	Beta activity	3.92	pCi/L	0.763	U		3.37	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-09-03	RADS	Neptunium-237	0.00452	pCi/L	0.0101	U	XV	0.0556	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-09-03	RADS	Plutonium-238	-0.0153	pCi/L	-0.0102	U		0.0736	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-09-03	RADS	Plutonium-239/240	0.0409	pCi/L	0.0153	U		0.0391	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-09-03	RADS	Technetium-99	3.08	pCi/L	1.69	U	XV	5.55	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-09-03	RADS	Uranium-233/234	0.0327	pCi/L	0.0132	U		0.0357	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-09-03	RADS	Uranium-235	0.0173	pCi/L	0.0115	U		0.0441	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-09-03	RADS	Uranium-238	0.0232	pCi/L	0.0114	U		0.0356	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2,4-Dichlorophenol	0.77	ug/L		U	XV	0.77	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2,4-Dimethylphenol	0.7	ug/L		U	XV	0.7	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2,4-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2-Chloronaphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2-Chlorophenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U	XV	4.8	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2-Methylnaphthalene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	2-Nitrophenol	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	3-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U	XV	2.9	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	4-Methylphenol	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	4-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	4-Nitrophenol	1.5	ug/L		U	XV	1.5	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Acenaphthene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Acenaphthylene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Anthracene	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Benz(a)anthracene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Benzo(a)pyrene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U	XV	0.64	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Benzo(ghi)perylene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Chrysene	0.65	ug/L		U	XV	0.65	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Dibenz(a,h)anthracene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Dibenzofuran	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Diethyl phthalate	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Dimethyl phthalate	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Di-n-octylphthalate	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Fluoranthene	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Fluorene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Hexachlorobenzene	0.8	ug/L		U	XV	0.8	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Hexachlorobutadiene	4	ug/L		U	XV	4	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Hexachloroethane	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.79	ug/L		U	XV	0.79	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Isophorone	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Naphthalene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Nitrobenzene	0.98	ug/L		U	XV	0.98	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Pentachlorophenol	24	ug/L		U	XV	24	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-05-03	SVOA	Phenanthrene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Phenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-05-03	SVOA	Pyrene	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Methylene chloride	0.4	ug/L		BJ	XV	0.32	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-01-03	WETCHEM	Alkalinity	110	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-01-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-01-03	WETCHEM	Alkalinity as HCO3	110	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-02-03	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ03G	WDPZ03-19-03	ANION	Chloride	5.9	mg/L			XV	0.25	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-19-03	ANION	Fluoride	0.06	mg/L		U	XV	0.06	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-19-03	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-19-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-19-03	ANION	Sulfate	430	mg/L			XV	2.3	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Aluminum	0.43	mg/L			XV	0.018	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Arsenic	0.012	mg/L			XV	0.00033	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Arsenic	0.012	mg/L			XV	0.00033	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Barium	0.024	mg/L			XV	0.00058	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Barium	0.026	mg/L			XV	0.00058	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Calcium	95	mg/L			XV	0.035	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Calcium	92	mg/L			XV	0.035	WATER	WG	FR	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-21-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Chromium	0.0011	mg/L		B	XV	0.00066	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Cobalt	0.0012	mg/L		U	XV	0.0012	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Copper	0.0062	mg/L		B	XV	0.0014	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Iron	36	mg/L			XV	0.022	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Iron	38	mg/L			XV	0.022	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Lead	0.00072	mg/L		B	XV	0.00018	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Magnesium	59	mg/L			XV	0.011	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Magnesium	58	mg/L			XV	0.011	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Manganese	0.91	mg/L			XV	0.00025	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Manganese	0.93	mg/L			XV	0.00025	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Molybdenum	0.0025	mg/L			XV	0.00014	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Molybdenum	0.0028	mg/L			XV	0.00014	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Nickel	0.0013	mg/L		U	XV	0.0013	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Nickel	0.0022	mg/L		B	XV	0.0013	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Potassium	2.1	mg/L		B	XV	0.24	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Potassium	2.4	mg/L		B	XV	0.24	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Sodium	43	mg/L			XV	0.092	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Sodium	41	mg/L			XV	0.092	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Uranium	0.000021	mg/L		B	XV	0.00002	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Uranium	0.000077	mg/L		B	XV	0.00002	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Vanadium	0.0027	mg/L		B	XV	0.0011	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-21-03	METAL	Zinc	0.0045	mg/L		U	XV	0.0045	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-22-03	METAL	Zinc	0.0069	mg/L		B	XV	0.0045	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	PPCB	PCB-1221	0.26	ug/L		U	XV	0.26	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	PPCB	PCB-1232	0.2	ug/L		U	XV	0.2	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	PPCB	PCB-1242	0.13	ug/L		U	XV	0.13	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	PPCB	PCB-1260	0.2	ug/L		U	XV	0.2	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	PPCB	Polychlorinated biphenyl	0.1	ug/L		U	XV	0.1	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-27-03	RADS	Alpha activity	-2.56	pCi/L	0.879	U	XV	9.35	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-27-03	RADS	Americium-241	0.019	pCi/L	0.0106	U	XV	0.0364	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-27-03	RADS	Beta activity	4.27	pCi/L	0.762			3.37	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-27-03	RADS	Neptunium-237	-0.00888	pCi/L	0.00769	U	XV	0.0546	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-27-03	RADS	Plutonium-238	0.0055	pCi/L	0.00953	U		0.0527	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-27-03	RADS	Plutonium-239/240	0.044	pCi/L	0.0165	U		0.0421	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-27-03	RADS	Technetium-99	2.77	pCi/L	1.68	U	XV	5.52	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-27-03	RADS	Uranium-233/234	0.0562	pCi/L	0.0169	J		0.0358	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-27-03	RADS	Uranium-235	0.00578	pCi/L	0.00817	U		0.0442	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-27-03	RADS	Uranium-238	0.0606	pCi/L	0.0174	J		0.0357	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U	XV	0.28	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U	XV	0.39	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2,4,5-Trichlorophenol	0.55	ug/L		U	XV	0.55	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U	XV	0.36	WATER	WG	FR	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-23-03	SVOA	2,4-Dichlorophenol	0.79	ug/L		U	XV	0.79	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2,4-Dimethylphenol	0.71	ug/L		U	XV	0.71	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2,4-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U	XV	2.3	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2-Chloronaphthalene	0.32	ug/L		U	XV	0.32	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2-Chlorophenol	2.5	ug/L		U	XV	2.5	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2-Methyl-4,6-dinitrophenol	4.9	ug/L		U	XV	4.9	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2-Methylnaphthalene	0.36	ug/L		U	XV	0.36	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	2-Nitrophenol	0.48	ug/L		U	XV	0.48	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U	XV	2.5	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	3-Nitrobenzenamine	2.5	ug/L		U	XV	2.5	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	4-Bromophenyl phenyl ether	0.53	ug/L		U	XV	0.53	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	4-Chloro-3-methylphenol	3	ug/L		U	XV	3	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U	XV	2	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	4-Methylphenol	0.31	ug/L		U	XV	0.31	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	4-Nitrobenzenamine	2.5	ug/L		U	XV	2.5	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	4-Nitrophenol	1.5	ug/L		U	XV	1.5	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Acenaphthene	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Acenaphthylene	0.6	ug/L		U	XV	0.6	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Anthracene	0.52	ug/L		U	XV	0.52	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Benz(a)anthracene	0.43	ug/L		U	XV	0.43	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Benzo(a)pyrene	0.38	ug/L		U	XV	0.38	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Benzo(b)fluoranthene	0.65	ug/L		U	XV	0.65	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Benzo(ghi)perylene	0.61	ug/L		U	XV	0.61	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U	XV	0.56	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U	XV	1.2	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Bis(2-ethylhexyl)phthalate	0.69	ug/L		U	XV	0.69	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Chrysene	0.66	ug/L		U	XV	0.66	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Dibenz(a,h)anthracene	0.63	ug/L		U	XV	0.63	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Dibenzofuran	0.36	ug/L		U	XV	0.36	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Diethyl phthalate	0.47	ug/L		U	XV	0.47	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Dimethyl phthalate	0.26	ug/L		U	XV	0.26	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Di-n-octylphthalate	0.43	ug/L		U	XV	0.43	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Fluoranthene	0.25	ug/L		U	XV	0.25	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Fluorene	0.38	ug/L		U	XV	0.38	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Hexachlorobenzene	0.81	ug/L		U	XV	0.81	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Hexachlorobutadiene	4	ug/L		U	XV	4	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U	XV	1.9	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Hexachloroethane	2.6	ug/L		U	XV	2.6	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Indeno(1,2,3-cd)pyrene	0.8	ug/L		U	XV	0.8	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Isophorone	0.26	ug/L		U	XV	0.26	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Naphthalene	0.36	ug/L		U	XV	0.36	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Nitrobenzene	0.99	ug/L		U	XV	0.99	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	N-Nitroso-di-n-propylamine	0.43	ug/L		U	XV	0.43	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	N-Nitrosodiphenylamine	0.54	ug/L		U	XV	0.54	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Pentachlorophenol	25	ug/L		U	XV	25	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Phenanthrene	0.32	ug/L		U	XV	0.32	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Phenol	2.5	ug/L		U	XV	2.5	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-23-03	SVOA	Pyrene	0.45	ug/L		U	XV	0.45	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	FR	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-24-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-26-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Methylene chloride	0.39	ug/L		BJ	XV	0.32	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-25-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-24-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-25-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-19-03	WETCHEM	Alkalinity	110	mg/L			XV	1.1	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-19-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-19-03	WETCHEM	Alkalinity as HCO3	110	mg/L			XV	1.1	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-20-03	WETCHEM	Ammonium Nitrogen	0.14	mg/L				0.1	WATER	WG	FR	BP	12/13/2011
WD-PZ03G	WDPZ03-01-04	ANION	Chloride	6	mg/L				0.25	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-01-04	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-01-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-01-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-01-04	ANION	Sulfate	450	mg/L				4.6	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Aluminum	0.53	mg/L				0.018	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Arsenic	0.013	mg/L				0.00033	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Barium	0.023	mg/L				0.00058	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Barium	0.027	mg/L				0.00058	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Calcium	95	mg/L				0.035	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Calcium	98	mg/L				0.035	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Chromium	0.0011	mg/L		B		0.00066	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Copper	0.0038	mg/L		B		0.0014	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Copper	0.0044	mg/L		B		0.0014	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Iron	35	mg/L				0.022	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-04-04	METAL	Iron	38	mg/L				0.022	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Lead	0.00082	mg/L		B		0.00018	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Magnesium	62	mg/L				0.011	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Magnesium	61	mg/L				0.011	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Manganese	0.91	mg/L				0.00025	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Manganese	0.94	mg/L				0.00025	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Molybdenum	0.0025	mg/L				0.00014	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Molybdenum	0.003	mg/L				0.00014	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Nickel	0.0017	mg/L		B		0.0013	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Potassium	1.9	mg/L		B		0.24	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Potassium	2.1	mg/L		B		0.24	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Selenium	0.0007	mg/L		B		0.0007	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Sodium	41	mg/L				0.092	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Sodium	42	mg/L				0.092	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Uranium	0.00002	mg/L		U		0.00002	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Uranium	0.000083	mg/L		B		0.00002	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Vanadium	0.0027	mg/L		B		0.0011	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-03-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-04-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-09-04	RADS	Alpha activity	2.2	pCi/L	2.41	U		9.18	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-09-04	RADS	Americium-241	0.00869	pCi/L	0.00869	U		0.0416	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-09-04	RADS	Beta activity	-4.64	pCi/L	3.35	U		13.7	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-09-04	RADS	Neptunium-237	0.00446	pCi/L	0.00772	U		0.0427	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-09-04	RADS	Plutonium-238	0.00709	pCi/L	0.0123	U		0.0679	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-09-04	RADS	Plutonium-239/240	0.0496	pCi/L	0.0201	U		0.0542	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-09-04	RADS	Technetium-99	0.615	pCi/L	1.67	U		5.59	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-09-04	RADS	Uranium-233/234	0.024	pCi/L	0.0127	U		0.046	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-09-04	RADS	Uranium-235	0.0118	pCi/L	0.0103	U		0.0453	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-09-04	RADS	Uranium-238	0.0287	pCi/L	0.0135	U		0.0458	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U		0.53	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2,4-Dichlorophenol	0.76	ug/L		U		0.76	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2,4-Dimethylphenol	0.69	ug/L		U		0.69	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-05-04	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U		4.7	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	2-Nitrophenol	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Acenaphthylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Benz(a)anthracene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Benzo(ghi)perylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Bis(2-ethylhexyl)phthalate	0.66	ug/L		U		0.66	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Chrysene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Di-n-octylphthalate	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Hexachlorobenzene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U		1.8	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.77	ug/L		U		0.77	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Nitrobenzene	0.96	ug/L		U		0.96	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U		0.52	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-05-04	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-01-04	WETCHEM	Alkalinity	140	mg/L				1.1	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-01-04	WETCHEM	Alkalinity as HCO3	140	mg/L				1.1	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-02-04	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BP	1/11/2012
WD-PZ03G	WDPZ03-19-04	ANION	Chloride	6	mg/L				0.25	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-19-04	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-19-04	ANION	Nitrate	0.056	mg/L		B		0.042	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-19-04	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-19-04	ANION	Sulfate	440	mg/L				4.6	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Aluminum	0.57	mg/L				0.018	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Arsenic	0.012	mg/L				0.00033	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Arsenic	0.013	mg/L				0.00033	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Barium	0.023	mg/L				0.00058	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Barium	0.027	mg/L				0.00058	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Cadmium	0.000042	mg/L		B		0.00004	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Calcium	96	mg/L				0.035	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Calcium	97	mg/L				0.035	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Chromium	0.0012	mg/L		B		0.00066	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Copper	0.0039	mg/L		B		0.0014	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Copper	0.0046	mg/L		B		0.0014	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Iron	36	mg/L				0.022	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Iron	38	mg/L				0.022	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Lead	0.00078	mg/L		B		0.00018	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Magnesium	62	mg/L				0.011	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Magnesium	61	mg/L				0.011	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Manganese	0.92	mg/L				0.00025	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Manganese	0.94	mg/L				0.00025	WATER	WG	FR	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-21-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Molybdenum	0.0023	mg/L				0.00014	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Molybdenum	0.0029	mg/L				0.00014	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Nickel	0.0017	mg/L		B		0.0013	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Potassium	1.9	mg/L		B		0.24	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Potassium	2.1	mg/L		B		0.24	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Sodium	41	mg/L				0.092	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Sodium	42	mg/L				0.092	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Thallium	0.000038	mg/L		B		0.000033	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Uranium	0.00002	mg/L		U		0.00002	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Uranium	0.000084	mg/L		B		0.00002	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Vanadium	0.0025	mg/L		B		0.0011	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-21-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-22-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	PPCB	PCB-1254	0.15	ug/L		U		0.15	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-27-04	RADS	Alpha activity	5.35	pCi/L	3.04	U		9.19	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-27-04	RADS	Americium-241	0.0273	pCi/L	0.0158	U		0.0655	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-27-04	RADS	Beta activity	-3.5	pCi/L	3.48	U		13.7	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-27-04	RADS	Neptunium-237	0	pCi/L	0.00629	U		0.034	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-27-04	RADS	Plutonium-238	0	pCi/L	0.0101	U		0.0545	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-27-04	RADS	Plutonium-239/240	0.0285	pCi/L	0.0175	U		0.0682	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-27-04	RADS	Technetium-99	-0.822	pCi/L	1.66	U		5.6	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-27-04	RADS	Uranium-233/234	0.0286	pCi/L	0.0151	U		0.0586	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-27-04	RADS	Uranium-235	0.00588	pCi/L	0.0102	U		0.0563	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-27-04	RADS	Uranium-238	0.0285	pCi/L	0.0125	U		0.0363	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	1,2,4-Trichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	1,3-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	1,4-Dichlorobenzene	0.41	ug/L		U		0.41	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2,4,5-Trichlorophenol	0.57	ug/L		U		0.57	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U		0.37	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2,4-Dichlorophenol	0.82	ug/L		U		0.82	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2,4-Dimethylphenol	0.74	ug/L		U		0.74	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2-Chloronaphthalene	0.33	ug/L		U		0.33	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2-Chlorophenol	2.6	ug/L		U		2.6	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2-Methyl-4,6-dinitrophenol	5.1	ug/L		U		5.1	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2-Methylnaphthalene	0.37	ug/L		U		0.37	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2-Methylphenol	1.3	ug/L		U		1.3	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	2-Nitrophenol	0.5	ug/L		U		0.5	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U		2.6	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	3-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	FR	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-23-04	SVOA	4-Bromophenyl phenyl ether	0.55	ug/L		U		0.55	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	4-Chloro-3-methylphenol	3.1	ug/L		U		3.1	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	4-Methylphenol	0.32	ug/L		U		0.32	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	4-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Acenaphthene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Acenaphthylene	0.63	ug/L		U		0.63	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Anthracene	0.54	ug/L		U		0.54	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Benz(a)anthracene	0.45	ug/L		U		0.45	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Benzo(a)pyrene	0.4	ug/L		U		0.4	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Benzo(b)fluoranthene	0.68	ug/L		U		0.68	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Benzo(ghi)perylene	0.64	ug/L		U		0.64	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Benzo(k)fluoranthene	0.59	ug/L		U		0.59	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	bis(2-Chloroisopropyl)ether	0.36	ug/L		U		0.36	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Bis(2-ethylhexyl)phthalate	0.71	ug/L		U		0.71	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Chrysene	0.69	ug/L		U		0.69	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Dibenz(a,h)anthracene	0.65	ug/L		U		0.65	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Dibenzofuran	0.37	ug/L		U		0.37	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Diethyl phthalate	0.48	ug/L		U		0.48	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Dimethyl phthalate	0.27	ug/L		U		0.27	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Di-n-octylphthalate	0.45	ug/L		U		0.45	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Fluoranthene	0.26	ug/L		U		0.26	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Fluorene	0.4	ug/L		U		0.4	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Hexachlorobenzene	0.84	ug/L		U		0.84	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Hexachlorobutadiene	4.2	ug/L		U		4.2	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Hexachlorocyclopentadiene	2	ug/L		U		2	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Hexachloroethane	2.7	ug/L		U		2.7	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Indeno(1,2,3-cd)pyrene	0.83	ug/L		U		0.83	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Isophorone	0.27	ug/L		U		0.27	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Naphthalene	0.37	ug/L		U		0.37	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	N-Nitroso-di-n-propylamine	0.45	ug/L		U		0.45	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	N-Nitrosodiphenylamine	0.56	ug/L		U		0.56	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Pentachlorophenol	26	ug/L		U		26	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Phenanthrene	0.33	ug/L		U		0.33	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Phenol	2.6	ug/L		U		2.6	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-23-04	SVOA	Pyrene	0.47	ug/L		U		0.47	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-26-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FR	BP	1/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-24-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-25-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-24-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-25-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-19-04	WETCHEM	Alkalinity	140	mg/L				1.1	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-19-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-19-04	WETCHEM	Alkalinity as HCO3	140	mg/L				1.1	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-20-04	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	FR	BP	1/11/2012
WD-PZ03G	WDPZ03-01-05	ANION	Chloride	6.3	mg/L				0.25	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-01-05	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-01-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-01-05	ANION	Sulfate	460	mg/L				4.6	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Aluminum	0.26	mg/L				0.018	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Arsenic	0.012	mg/L				0.00033	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Barium	0.023	mg/L				0.00058	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Barium	0.025	mg/L				0.00058	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Cadmium	0.00012	mg/L		B		0.00004	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Calcium	92	mg/L				0.035	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Calcium	93	mg/L				0.035	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Chromium	0.00083	mg/L		B		0.00066	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Copper	0.0023	mg/L		B		0.0014	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Copper	0.0015	mg/L		B		0.0014	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Iron	35	mg/L				0.022	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Iron	37	mg/L				0.022	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Lead	0.00052	mg/L		B		0.00018	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Magnesium	57	mg/L				0.011	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Magnesium	60	mg/L				0.011	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Manganese	0.91	mg/L				0.00025	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Manganese	0.97	mg/L				0.00025	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Molybdenum	0.0026	mg/L				0.00014	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Molybdenum	0.0028	mg/L				0.00014	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Potassium	2.2	mg/L		B		0.24	WATER	WG	REG	BP	2/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-04-05	METAL	Potassium	2.2	mg/L		B		0.24	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Sodium	42	mg/L				0.092	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Sodium	41	mg/L				0.092	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Uranium	0.00002	mg/L		U		0.00002	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Uranium	0.000039	mg/L		B		0.00002	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Vanadium	0.0013	mg/L		B		0.0011	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-03-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-04-05	METAL	Zinc	0.0049	mg/L		B		0.0045	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-09-05	RADS	Alpha activity	-0.707	pCi/L	1.76	U		8.2	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-09-05	RADS	Americium-241	0.0227	pCi/L	0.0187	U		0.0869	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-09-05	RADS	Beta activity	4.05	pCi/L	2.71	U		6.96	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-09-05	RADS	Neptunium-237	-0.009	pCi/L	0.00779	U		0.0553	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-09-05	RADS	Plutonium-238	0.0109	pCi/L	0.0155	U		0.0787	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-09-05	RADS	Plutonium-239/240	0.0437	pCi/L	0.0164	U		0.0418	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-09-05	RADS	Technetium-99	1.62	pCi/L	1.68	U		5.59	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-09-05	RADS	Uranium-233/234	0.0411	pCi/L	0.0144	U		0.035	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-09-05	RADS	Uranium-235	0.0169	pCi/L	0.0113	U		0.0431	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-09-05	RADS	Uranium-238	0.0136	pCi/L	0.0091	U		0.0348	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-05-05	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Bis(2-ethylhexyl)phthalate	0.67	ug/L		U		0.67	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-05-05	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Methylene chloride	0.56	ug/L		BJ		0.32	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-01-05	WETCHEM	Alkalinity	140	mg/L				1.1	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-01-05	WETCHEM	Alkalinity as HCO3	140	mg/L				1.1	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-02-05	WETCHEM	Ammonium Nitrogen	0.6	mg/L				0.1	WATER	WG	REG	BP	2/13/2012
WD-PZ03G	WDPZ03-19-05	ANION	Chloride	6.3	mg/L				0.25	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-19-05	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-19-05	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-19-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-19-05	ANION	Sulfate	460	mg/L				4.6	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Aluminum	0.27	mg/L				0.018	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Arsenic	0.013	mg/L				0.00033	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Barium	0.023	mg/L				0.00058	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Barium	0.026	mg/L				0.00058	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Calcium	92	mg/L				0.035	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Calcium	94	mg/L				0.035	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Chromium	0.001	mg/L		B		0.00066	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Copper	0.0015	mg/L		B		0.0014	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Iron	35	mg/L				0.022	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Iron	37	mg/L				0.022	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Lead	0.00047	mg/L		B		0.00018	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Magnesium	57	mg/L				0.011	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Magnesium	60	mg/L				0.011	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Manganese	0.91	mg/L				0.00025	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Manganese	0.98	mg/L				0.00025	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Molybdenum	0.0026	mg/L				0.00014	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Molybdenum	0.0032	mg/L				0.00014	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Potassium	2.1	mg/L		B		0.24	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Potassium	2.2	mg/L		B		0.24	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Sodium	42	mg/L				0.092	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Sodium	42	mg/L				0.092	WATER	WG	FR	BP	2/13/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-21-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Uranium	0.00002	mg/L		U		0.00002	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Uranium	0.000062	mg/L		B		0.00002	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Vanadium	0.0017	mg/L		B		0.0011	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-21-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-22-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	PPCB	Polychlorinated biphenyl	0.098	ug/L		U		0.098	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-27-05	RADS	Alpha activity	2.95	pCi/L	2.71	U		8.16	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-27-05	RADS	Americium-241	0.0629	pCi/L	0.022	U		0.0796	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-27-05	RADS	Beta activity	4.02	pCi/L	2.77	U		6.96	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-27-05	RADS	Neptunium-237	0.0134	pCi/L	0.01	U		0.0429	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-27-05	RADS	Plutonium-238	-0.00491	pCi/L	-0.00851	U		0.0604	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-27-05	RADS	Plutonium-239/240	0.0245	pCi/L	0.012	U		0.0375	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-27-05	RADS	Technetium-99	0.95	pCi/L	1.67	U		5.57	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-27-05	RADS	Uranium-233/234	0.023	pCi/L	0.0122	U		0.044	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-27-05	RADS	Uranium-235	0.0227	pCi/L	0.0139	U		0.0543	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-27-05	RADS	Uranium-238	0.0274	pCi/L	0.0121	U		0.035	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U		0.32	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U		0.52	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2,4,6-Trichlorophenol	0.33	ug/L		U		0.33	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2,4-Dichlorophenol	0.74	ug/L		U		0.74	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2,4-Dimethylphenol	0.67	ug/L		U		0.67	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U		4.6	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2-Methylnaphthalene	0.33	ug/L		U		0.33	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	2-Nitrophenol	0.45	ug/L		U		0.45	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U		0.5	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	4-Methylphenol	0.29	ug/L		U		0.29	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Acenaphthene	0.32	ug/L		U		0.32	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Acenaphthylene	0.57	ug/L		U		0.57	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Anthracene	0.48	ug/L		U		0.48	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Benz(a)anthracene	0.4	ug/L		U		0.4	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Benzo(a)pyrene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Benzo(b)fluoranthene	0.61	ug/L		U		0.61	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Benzo(ghi)perylene	0.58	ug/L		U		0.58	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Benzo(k)fluoranthene	0.53	ug/L		U		0.53	WATER	WG	FR	BP	2/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-23-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U		0.32	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Bis(2-ethylhexyl)phthalate	1	ug/L		J		0.65	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Chrysene	0.62	ug/L		U		0.62	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U		0.59	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Dibenzofuran	0.33	ug/L		U		0.33	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Diethyl phthalate	0.44	ug/L		U		0.44	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Di-n-octylphthalate	0.4	ug/L		U		0.4	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Fluorene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Hexachlorobenzene	0.76	ug/L		U		0.76	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Hexachlorobutadiene	3.8	ug/L		U		3.8	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Indeno(1,2,3-cd)pyrene	0.75	ug/L		U		0.75	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Naphthalene	0.33	ug/L		U		0.33	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Nitrobenzene	0.93	ug/L		U		0.93	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U		0.4	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U		0.51	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-23-05	SVOA	Pyrene	0.43	ug/L		U		0.43	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-26-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Methylene chloride	0.56	ug/L		BJ		0.32	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-25-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-24-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	2/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-24-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-25-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-19-05	WETCHEM	Alkalinity	130	mg/L				1.1	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-19-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-19-05	WETCHEM	Alkalinity as HCO3	130	mg/L				1.1	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-20-05	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	FR	BP	2/13/2012
WD-PZ03G	WDPZ03-01-06	ANION	Chloride	6.2	mg/L				0.25	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-01-06	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-01-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-01-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-01-06	ANION	Sulfate	430	mg/L				2.3	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Aluminum	0.27	mg/L				0.018	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Arsenic	0.012	mg/L				0.00033	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Barium	0.024	mg/L				0.00058	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Barium	0.027	mg/L				0.00058	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Calcium	94	mg/L				0.035	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Calcium	94	mg/L				0.035	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Chromium	0.0011	mg/L		B		0.00066	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Iron	35	mg/L				0.022	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Iron	37	mg/L				0.022	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Lead	0.00048	mg/L		B		0.00018	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Magnesium	59	mg/L				0.011	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Magnesium	58	mg/L				0.011	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Manganese	0.93	mg/L				0.00025	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Manganese	0.95	mg/L				0.00025	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Molybdenum	0.0024	mg/L				0.00014	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Molybdenum	0.0026	mg/L				0.00014	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Nickel	0.0015	mg/L		B		0.0013	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Nickel	0.0021	mg/L		B		0.0013	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Potassium	2	mg/L		B		0.24	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Potassium	2.1	mg/L		B		0.24	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Sodium	45	mg/L				0.092	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Sodium	45	mg/L				0.092	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Uranium	0.000026	mg/L		B		0.00002	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Uranium	0.000058	mg/L		B		0.00002	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-04-06	METAL	Vanadium	0.002	mg/L		B		0.0011	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-04-06	METAL	Zinc	0.0067	mg/L		B		0.0045	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	PPCB	PCB-1221	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	PPCB	Polychlorinated biphenyl	0.095	ug/L		U		0.095	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-09-06	RADS	Alpha activity	1.2	pCi/L	2.17	U	U	7.81	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-09-06	RADS	Americium-241	0.00955	pCi/L	0.00955	U	U	0.0457	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-09-06	RADS	Beta activity	5.36	pCi/L	3.24	U	UJ	7.94	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-09-06	RADS	Neptunium-237	0	pCi/L	0.00597	U	U	0.0323	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-09-06	RADS	Plutonium-238	0	pCi/L	0.0118	U	U	0.0725	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-09-06	RADS	Plutonium-239/240	0.0353	pCi/L	0.0156	U	U	0.0451	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-09-06	RADS	Technetium-99	-2.19	pCi/L	1.64	U	U	5.58	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-09-06	RADS	Uranium-233/234	0.0431	pCi/L	0.0151	U	UJ	0.0366	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-09-06	RADS	Uranium-235	0	pCi/L	0.00836	U	U	0.0452	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-09-06	RADS	Uranium-238	0.00954	pCi/L	0.00826	U	U	0.0365	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	1,3-Dichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2,4,5-Trichlorophenol	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2,4,6-Trichlorophenol	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2,4-Dichlorophenol	0.72	ug/L		U		0.72	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2,4-Dimethylphenol	0.66	ug/L		U		0.66	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2,4-Dinitrophenol	11	ug/L		U		11	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2,6-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2-Chloronaphthalene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.5	ug/L		U		4.5	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2-Methylnaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	2-Nitrophenol	0.44	ug/L		U		0.44	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	4-Bromophenyl phenyl ether	0.49	ug/L		U		0.49	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U		2.7	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	4-Methylphenol	0.28	ug/L		U		0.28	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Acenaphthene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Acenaphthylene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Anthracene	0.48	ug/L		U		0.48	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Benz(a)anthracene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Benzo(a)pyrene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Benzo(b)fluoranthene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Benzo(ghi)perylene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Benzo(k)fluoranthene	0.52	ug/L		U		0.52	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Benzoic acid	11	ug/L		U		11	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Bis(2-ethylhexyl)phthalate	2.6	ug/L		BJ		0.63	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Butyl benzyl phthalate	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Chrysene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Dibenz(a,h)anthracene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-05-06	SVOA	Dibenzofuran	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Diethyl phthalate	0.43	ug/L		U		0.43	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Di-n-octylphthalate	0.4	ug/L		U		0.4	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Fluorene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Hexachlorobenzene	0.75	ug/L		U		0.75	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Hexachlorobutadiene	3.7	ug/L		U		3.7	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Hexachlorocyclopentadiene	11	ug/L		U		11	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.74	ug/L		U		0.74	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Naphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Nitrobenzene	0.92	ug/L		U		0.92	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U		0.4	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	N-Nitrosodiphenylamine	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Phenanthrene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-05-06	SVOA	Pyrene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-01-06	WETCHEM	Alkalinity	120	mg/L				1.1	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-01-06	WETCHEM	Alkalinity as HCO3	120	mg/L				1.1	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-02-06	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BP	3/13/2012
WD-PZ03G	WDPZ03-19-06	ANION	Chloride	7.2	mg/L				0.25	WATER	WG	FR	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-19-06	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-19-06	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-19-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-19-06	ANION	Sulfate	440	mg/L				2.3	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Aluminum	0.29	mg/L				0.018	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Arsenic	0.012	mg/L				0.00033	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Arsenic	0.014	mg/L				0.00033	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Barium	0.024	mg/L				0.00058	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Barium	0.026	mg/L				0.00058	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Cadmium	0.00019	mg/L		B		0.00004	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Calcium	94	mg/L				0.035	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Calcium	95	mg/L				0.035	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Chromium	0.00071	mg/L		B		0.00066	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Chromium	0.00093	mg/L		B		0.00066	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Iron	35	mg/L				0.022	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Iron	37	mg/L				0.022	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Lead	0.00044	mg/L		B		0.00018	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Magnesium	58	mg/L				0.011	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Magnesium	59	mg/L				0.011	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Manganese	0.9	mg/L				0.00025	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Manganese	0.95	mg/L				0.00025	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Molybdenum	0.0027	mg/L				0.00014	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Molybdenum	0.0026	mg/L				0.00014	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Nickel	0.0018	mg/L		B		0.0013	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Potassium	2	mg/L		B		0.24	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Potassium	2.1	mg/L		B		0.24	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Sodium	44	mg/L				0.092	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Sodium	45	mg/L				0.092	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Uranium	0.00002	mg/L		U		0.00002	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Uranium	0.000052	mg/L		B		0.00002	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Vanadium	0.0015	mg/L		B		0.0011	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-21-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-22-06	METAL	Zinc	0.0067	mg/L		B		0.0045	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	PPCB	PCB-1221	0.24	ug/L		U		0.24	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	FR	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-23-06	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	PPCB	Polychlorinated biphenyl	0.096	ug/L		U		0.096	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-27-06	RADS	Alpha activity	-2.52	pCi/L	0	U	U	7.78	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-27-06	RADS	Americium-241	0.0477	pCi/L	0.0168	U	U	0.0534	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-27-06	RADS	Beta activity	5.41	pCi/L	3.17	U	UJ	7.94	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-27-06	RADS	Neptunium-237	-0.00411	pCi/L	0.00712	U	U	0.0506	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-27-06	RADS	Plutonium-238	-0.00592	pCi/L	-0.00837	U	U	0.0567	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-27-06	RADS	Plutonium-239/240	0.0296	pCi/L	0.0157	U	U	0.0566	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-27-06	RADS	Technetium-99	0.32	pCi/L	1.67	U	U	5.59	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-27-06	RADS	Uranium-233/234	0.0335	pCi/L	0.0135	U	U	0.0366	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-27-06	RADS	Uranium-235	0	pCi/L	0.00836	U	U	0.0452	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-27-06	RADS	Uranium-238	0.0286	pCi/L	0.0126	U	U	0.0365	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	1,2,4-Trichlorobenzene	0.31	ug/L		U		0.31	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U		0.26	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	1,3-Dichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2,4,5-Trichlorophenol	0.5	ug/L		U		0.5	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2,4,6-Trichlorophenol	0.32	ug/L		U		0.32	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2,4-Dichlorophenol	0.71	ug/L		U		0.71	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2,4-Dimethylphenol	0.65	ug/L		U		0.65	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2,4-Dinitrophenol	11	ug/L		U		11	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2,6-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2-Chloronaphthalene	0.29	ug/L		U		0.29	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2-Chlorophenol	2.2	ug/L		U		2.2	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2-Methyl-4,6-dinitrophenol	4.5	ug/L		U		4.5	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2-Methylnaphthalene	0.32	ug/L		U		0.32	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2-Nitrobenzenamine	1.9	ug/L		U		1.9	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	2-Nitrophenol	0.44	ug/L		U		0.44	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	3,3'-Dichlorobenzidine	2.2	ug/L		U		2.2	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	3-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	4-Bromophenyl phenyl ether	0.48	ug/L		U		0.48	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U		2.7	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	4-Methylphenol	0.28	ug/L		U		0.28	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	4-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Acenaphthene	0.31	ug/L		U		0.31	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Acenaphthylene	0.55	ug/L		U		0.55	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Anthracene	0.47	ug/L		U		0.47	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Benz(a)anthracene	0.39	ug/L		U		0.39	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Benzo(a)pyrene	0.35	ug/L		U		0.35	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Benzo(b)fluoranthene	0.59	ug/L		U		0.59	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Benzo(ghi)perylene	0.56	ug/L		U		0.56	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Benzo(k)fluoranthene	0.51	ug/L		U		0.51	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Benzoic acid	11	ug/L		U		11	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	bis(2-Chloroisopropyl)ether	0.31	ug/L		U		0.31	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Bis(2-ethylhexyl)phthalate	2.5	ug/L		BJ		0.62	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Butyl benzyl phthalate	1.1	ug/L		U		1.1	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Chrysene	0.6	ug/L		U		0.6	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Dibenz(a,h)anthracene	0.57	ug/L		U		0.57	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Dibenzofuran	0.32	ug/L		U		0.32	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Diethyl phthalate	0.42	ug/L		U		0.42	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Dimethyl phthalate	0.23	ug/L		U		0.23	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Di-n-octylphthalate	0.39	ug/L		U		0.39	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Fluoranthene	0.22	ug/L		U		0.22	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Fluorene	0.35	ug/L		U		0.35	WATER	WG	FR	BP	3/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-23-06	SVOA	Hexachlorobenzene	0.74	ug/L		U		0.74	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Hexachlorobutadiene	3.7	ug/L		U		3.7	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Hexachlorocyclopentadiene	11	ug/L		U		11	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Hexachloroethane	2.3	ug/L		U		2.3	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Indeno(1,2,3-cd)pyrene	0.73	ug/L		U		0.73	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Isophorone	0.23	ug/L		U		0.23	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Naphthalene	0.32	ug/L		U		0.32	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Nitrobenzene	0.9	ug/L		U		0.9	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	N-Nitroso-di-n-propylamine	0.39	ug/L		U		0.39	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	N-Nitrosodiphenylamine	0.49	ug/L		U		0.49	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Pentachlorophenol	22	ug/L		U		22	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Phenanthrene	0.29	ug/L		U		0.29	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Phenol	2.2	ug/L		U		2.2	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-23-06	SVOA	Pyrene	0.41	ug/L		U		0.41	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-26-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-25-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-24-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-25-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-19-06	WETCHEM	Alkalinity	120	mg/L				1.1	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-19-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-19-06	WETCHEM	Alkalinity as HCO3	120	mg/L				1.1	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-20-06	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	FR	BP	3/13/2012
WD-PZ03G	WDPZ03-01-07	ANION	Chloride	6.8	mg/L				0.25	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-01-07	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-01-07	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-01-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-01-07	ANION	Sulfate	450	mg/L				4.6	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Aluminum	0.083	mg/L		B		0.018	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-04-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Barium	0.024	mg/L				0.00058	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Barium	0.023	mg/L				0.00058	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Calcium	92	mg/L				0.035	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Calcium	85	mg/L				0.035	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Iron	33	mg/L				0.022	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Iron	31	mg/L				0.022	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Lead	0.00022	mg/L		B		0.00018	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Magnesium	61	mg/L				0.011	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Magnesium	57	mg/L				0.011	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Manganese	0.86	mg/L				0.00025	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Manganese	0.8	mg/L				0.00025	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Molybdenum	0.0022	mg/L				0.00014	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Molybdenum	0.0025	mg/L				0.00014	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Potassium	2	mg/L		B		0.24	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Potassium	2	mg/L		B		0.24	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Sodium	39	mg/L				0.092	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Sodium	37	mg/L				0.092	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Uranium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Uranium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-04-07	METAL	Zinc	0.0046	mg/L		B		0.0045	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	PPCB	PCB-1016	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	PPCB	PCB-1221	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	PPCB	PCB-1232	0.18	ug/L		U		0.18	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	PPCB	PCB-1242	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	PPCB	PCB-1248	0.099	ug/L		U		0.099	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	PPCB	PCB-1254	0.12	ug/L		U		0.12	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	PPCB	PCB-1260	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	PPCB	Polychlorinated biphenyl	0.091	ug/L		U		0.091	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-09-07	RADS	Alpha activity	-0.221	pCi/L	0.938	U	U	5.16	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-09-07	RADS	Americium-241	0.0221	pCi/L	0.0132	U	U	0.0543	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-09-07	RADS	Beta activity	0.0329	pCi/L	1.82	U	UJ	5.36	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-09-07	RADS	Neptunium-237	0.0206	pCi/L	0.0126	U	U	0.0492	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-09-07	RADS	Plutonium-238	-0.0103	pCi/L	-0.00893	U	U	0.0634	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-09-07	RADS	Plutonium-239/240	0.0619	pCi/L	0.0186	J	J	0.0394	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-09-07	RADS	Technetium-99	1.77	pCi/L	1.65	U	U	5.47	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-09-07	RADS	Uranium-233/234	0.0285	pCi/L	0.0171	U	U	0.07	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-09-07	RADS	Uranium-235	0	pCi/L	0.00994	U	U	0.0537	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-09-07	RADS	Uranium-238	0.017	pCi/L	0.0113	U	U	0.0434	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Bis(2-ethylhexyl)phthalate	0.98	ug/L		J		0.67	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-05-07	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-05-07	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Methylene chloride	0.85	ug/L		BJ		0.32	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-01-07	WETCHEM	Alkalinity	140	mg/L				1.1	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-01-07	WETCHEM	Alkalinity as HCO3	140	mg/L				1.1	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-02-07	WETCHEM	Ammonium Nitrogen	0.22	mg/L				0.1	WATER	WG	REG	BP	4/9/2012
WD-PZ03G	WDPZ03-19-07	ANION	Chloride	6.8	mg/L				0.25	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-19-07	ANION	Fluoride	0.06	mg/L		U		0.06	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-19-07	ANION	Nitrate	0.043	mg/L		B		0.042	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-19-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-19-07	ANION	Sulfate	440	mg/L				4.6	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Aluminum	0.11	mg/L				0.018	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Barium	0.023	mg/L				0.00058	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Barium	0.025	mg/L				0.00058	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	FR	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-21-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Calcium	91	mg/L				0.035	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Calcium	91	mg/L				0.035	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Chromium	0.0012	mg/L		B		0.00066	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Iron	33	mg/L				0.022	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Iron	34	mg/L				0.022	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Lead	0.00023	mg/L		B		0.00018	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Magnesium	61	mg/L				0.011	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Magnesium	61	mg/L				0.011	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Manganese	0.85	mg/L				0.00025	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Manganese	0.86	mg/L				0.00025	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Molybdenum	0.0023	mg/L				0.00014	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Molybdenum	0.0024	mg/L				0.00014	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Potassium	2	mg/L		B		0.24	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Potassium	2.1	mg/L		B		0.24	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Sodium	40	mg/L				0.092	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Sodium	40	mg/L				0.092	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Uranium	0.00005	mg/L		U		0.00005	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Uranium	0.00005	mg/L		U		0.00005	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-21-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-22-07	METAL	Zinc	0.0053	mg/L		B		0.0045	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	PPCB	PCB-1016	0.13	ug/L		U		0.13	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	PPCB	PCB-1221	0.23	ug/L		U		0.23	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	PPCB	PCB-1232	0.18	ug/L		U		0.18	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	PPCB	PCB-1242	0.11	ug/L		U		0.11	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	PPCB	PCB-1254	0.12	ug/L		U		0.12	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	PPCB	PCB-1260	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	PPCB	Polychlorinated biphenyl	0.092	ug/L		U		0.092	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-27-07	RADS	Alpha activity	-0.223	pCi/L	0.949	U	U	5.22	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-27-07	RADS	Americium-241	0.022	pCi/L	0.0108	U	U	0.0336	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-27-07	RADS	Beta activity	0.0332	pCi/L	1.83	U	UJ	5.36	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-27-07	RADS	Neptunium-237	0.0298	pCi/L	0.0157	U	U	0.0611	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-27-07	RADS	Plutonium-238	0	pCi/L	0.0099	U	U	0.0609	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-27-07	RADS	Plutonium-239/240	0.0247	pCi/L	0.0121	U	U	0.0378	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-27-07	RADS	Technetium-99	0.299	pCi/L	1.63	U	U	5.47	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-27-07	RADS	Uranium-233/234	0.0386	pCi/L	0.0156	U	U	0.0422	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-27-07	RADS	Uranium-235	0.0068	pCi/L	0.00961	U	U	0.052	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-27-07	RADS	Uranium-238	-0.00549	pCi/L	0.00776	U	U	0.0525	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	1,2,4-Trichlorobenzene	0.3	ug/L		U		0.3	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	1,2-Dichlorobenzene	0.25	ug/L		U		0.25	WATER	WG	FR	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-23-07	SVOA	1,3-Dichlorobenzene	0.32	ug/L		U		0.32	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	1,4-Dichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2,4,5-Trichlorophenol	0.48	ug/L		U		0.48	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2,4,6-Trichlorophenol	0.31	ug/L		U		0.31	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2,4-Dichlorophenol	0.69	ug/L		U		0.69	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2,4-Dimethylphenol	0.62	ug/L		U		0.62	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2,4-Dinitrophenol	11	ug/L		U		11	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2,4-Dinitrotoluene	1.8	ug/L		U		1.8	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2,6-Dinitrotoluene	2	ug/L		U		2	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2-Chloronaphthalene	0.28	ug/L		U		0.28	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2-Chlorophenol	2.2	ug/L		U		2.2	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2-Methyl-4,6-dinitrophenol	4.3	ug/L		U		4.3	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2-Methylnaphthalene	0.31	ug/L		U		0.31	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2-Nitrobenzenamine	1.9	ug/L		U		1.9	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	2-Nitrophenol	0.42	ug/L		U		0.42	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	3,3'-Dichlorobenzidine	2.2	ug/L		U		2.2	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	3-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	4-Bromophenyl phenyl ether	0.46	ug/L		U		0.46	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	4-Chloro-3-methylphenol	2.6	ug/L		U		2.6	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	4-Chlorophenyl phenyl ether	1.8	ug/L		U		1.8	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	4-Methylphenol	0.27	ug/L		U		0.27	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	4-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	4-Nitrophenol	1.3	ug/L		U		1.3	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Acenaphthylene	0.53	ug/L		U		0.53	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Anthracene	0.45	ug/L		U		0.45	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Benz(a)anthracene	0.38	ug/L		U		0.38	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Benzo(a)pyrene	0.33	ug/L		U		0.33	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Benzo(b)fluoranthene	0.57	ug/L		U		0.57	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Benzo(ghi)perylene	0.54	ug/L		U		0.54	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Benzo(k)fluoranthene	0.5	ug/L		U		0.5	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Benzoic acid	11	ug/L		U		11	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Bis(2-chloroethoxy)methane	1	ug/L		U		1	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	bis(2-Chloroisopropyl)ether	0.3	ug/L		U		0.3	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Bis(2-ethylhexyl)phthalate	0.6	ug/L		U		0.6	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Butyl benzyl phthalate	1.1	ug/L		U		1.1	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Chrysene	0.58	ug/L		U		0.58	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Dibenz(a,h)anthracene	0.55	ug/L		U		0.55	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Dibenzofuran	0.31	ug/L		U		0.31	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Diethyl phthalate	0.41	ug/L		U		0.41	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Dimethyl phthalate	0.23	ug/L		U		0.23	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Di-n-butyl phthalate	1.2	ug/L		U		1.2	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Di-n-octylphthalate	0.38	ug/L		U		0.38	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Fluoranthene	0.22	ug/L		U		0.22	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Fluorene	0.33	ug/L		U		0.33	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Hexachlorobenzene	0.71	ug/L		U		0.71	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Hexachlorobutadiene	3.6	ug/L		U		3.6	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Hexachlorocyclopentadiene	11	ug/L		U		11	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Hexachloroethane	2.3	ug/L		U		2.3	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Indeno(1,2,3-cd)pyrene	0.7	ug/L		U		0.7	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Isophorone	0.23	ug/L		U		0.23	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Naphthalene	0.31	ug/L		U		0.31	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Nitrobenzene	0.87	ug/L		U		0.87	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	N-Nitroso-di-n-propylamine	0.38	ug/L		U		0.38	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	N-Nitrosodiphenylamine	0.47	ug/L		U		0.47	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Pentachlorophenol	22	ug/L		U		22	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Phenanthrene	0.28	ug/L		U		0.28	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Phenol	2.2	ug/L		U		2.2	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-23-07	SVOA	Pyrene	0.4	ug/L		U		0.4	WATER	WG	FR	BP	4/9/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	WDPZ03-24-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-26-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Methylene chloride	0.89	ug/L		BJ		0.32	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-25-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-24-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-25-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-19-07	WETCHEM	Alkalinity	140	mg/L				1.1	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-19-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-19-07	WETCHEM	Alkalinity as HCO3	140	mg/L				1.1	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	WDPZ03-20-07	WETCHEM	Ammonium Nitrogen	0.13	mg/L				0.1	WATER	WG	FR	BP	4/9/2012
WD-PZ03G	QW19	ANION	Chloride	5200	ug/L				250	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW19	ANION	Fluoride	60	ug/L		U		60	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW19	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW19	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW19	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW19	ANION	Sulfate	450000	ug/L				4600	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW26	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0634	ng/L		J		2.5	WATER	WG	REG	BP	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW26	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	2,4,5-T	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	2,4,5-T	0.0933	ug/L		JU		0.0933	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	2,4-D	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	2,4-D	0.0933	ug/L		JU		0.0933	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	2,4-DB	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	2,4-DB	0.0933	ug/L		JU		0.0933	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	Dalapon	1.33	ug/L		U		1.33	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	Dalapon	1.4	ug/L		JU		1.4	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	Dicamba	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	Dicamba	0.0933	ug/L		JU		0.0933	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	Dichloroprop	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	Dichloroprop	0.0933	ug/L		JU		0.0933	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	Dinoseb	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	Dinoseb	0.0933	ug/L		JU		0.0933	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	MCPA	11.7	ug/L		U		11.7	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	MCPA	12.4	ug/L		JU		12.4	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	MCPP	10.6	ug/L		U		10.6	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	MCPP	11.2	ug/L		JU		11.2	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	Silvex	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	HERB	Silvex	0.0933	ug/L		JU		0.0933	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Kepone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	PCB-1016	0.0333	ug/L		U		0.0333	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	PCB-1221	0.0333	ug/L		U		0.0333	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	PCB-1232	0.0333	ug/L		U		0.0333	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	PCB-1242	0.0333	ug/L		U		0.0333	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	PCB-1248	0.0333	ug/L		U		0.0333	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	PCB-1254	0.0333	ug/L		U		0.0333	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	PCB-1260	0.0333	ug/L		U		0.0333	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	PCB-1268	0.0333	ug/L		U		0.0333	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Polychlorinated biphenyl	0.0333	ug/L		U		0.0333	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW25	RADS	Americium-241	0.0288	pCi/L	0.0564	U		0.0431	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW25	RADS	Neptunium-237	0	pCi/L	0.0147	U		0.0293	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW25	RADS	Plutonium-238	-0.00513	pCi/L	0.0123	U		0.0284	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW25	RADS	Plutonium-239/240	0.00256	pCi/L	0.0133	U		0.0246	WATER	WG	REG	BP	9/20/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW25	RADS	Technetium-99	-0.309	pCi/L	0.311	U		0.598	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW25	RADS	Thorium-228	0.0334	pCi/L	0.0199			0.0185	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW25	RADS	Thorium-230	0.000848	pCi/L	0.016	U		0.031	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW25	RADS	Thorium-232	0.0109	pCi/L	0.0146	U		0.0219	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW25	RADS	Uranium-233/234	0.0324	pCi/L	0.049	U		0.0815	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW25	RADS	Uranium-235/236	0.00839	pCi/L	0.0322	U		0.0598	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW25	RADS	Uranium-238	0.0274	pCi/L	0.0349	U		0.0484	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	1,2,4-Trichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	1,2-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	1,3-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	1,4-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2,4,5-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2,4,6-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2,4-Dichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2,4-Dimethylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2,4-Dinitrophenol	5.68	ug/L		U		5.68	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2,4-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2,6-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2-Chloronaphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2-Chlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2-Methyl-4,6-dinitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2-Methylnaphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2-Methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	2-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	3,3'-Dichlorobenzidine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	3-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	4-Aminobiphenyl	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	4-Bromophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	4-Chloro-3-methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	4-Chlorobenzenamine	3.75	ug/L		U		3.75	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	4-Chlorophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	4-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	4-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Acenaphthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Acenaphthylene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Acetophenone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Benz(a)anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Benzenemethanol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Benzo(a)pyrene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Benzo(b)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Benzo(ghi)perylene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Benzo(k)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Benzoic acid	6.82	ug/L		U		6.82	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Bis(2-chloroethoxy)methane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Bis(2-chloroethyl) ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	bis(2-Chloroisopropyl)ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Bis(2-ethylhexyl)phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Butyl benzyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Chrysene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Dibenz(a,h)anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Dibenzofuran	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Diethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Dimethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Di-n-butyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Di-n-octylphthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Diphenylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Fluorene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW23	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Hexachlorobutadiene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Hexachlorocyclopentadiene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Hexachloroethane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Indeno(1,2,3-cd)pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Isophorone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	m+p Methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Naphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Nitrobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	N-Nitrosodimethylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	N-Nitroso-di-n-propylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	N-Nitrosomorpholine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	O,O,O-Triethylphosphorothioate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Pentachlorophenol	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Pentachlorophenol	0.0562	ug/L		JU		0.0562	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Phenanthrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Phenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	SVOA	Pyridine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW23	VOA	1,4-Dioxane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW24	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW24	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW19	WETCHEM	Alkalinity	120	mg/L				1.1	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW19	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW19	WETCHEM	Alkalinity as HCO3	120	mg/L				1.1	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW20	WETCHEM	Ammonium Nitrogen	0.16	mg/L				0.1	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW19	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW27	WETCHEM	Cyanide	0.0072	mg/L		B		0.002	WATER	WG	REG	BP	9/20/2012
WD-PZ03G	QW82	ANION	Chloride	5800	ug/L				250	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW82	ANION	Fluoride	140	ug/L		B		60	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW82	ANION	Nitrate	42	ug/L		U		42	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW82	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW82	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW82	ANION	Sulfate	460000	ug/L				4600	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW89	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	2,4,5-T	0.0922	ug/L		U		0.0922	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	2,4,5-T	0.105	ug/L		JU		0.105	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	2,4-D	0.0922	ug/L		U		0.0922	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	2,4-D	0.105	ug/L		JU		0.105	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	2,4-DB	0.0922	ug/L		U		0.0922	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	2,4-DB	0.105	ug/L		JU		0.105	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	Dalapon	1.39	ug/L		U		1.39	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	Dalapon	1.58	ug/L		JU		1.58	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	Dicamba	0.0922	ug/L		U		0.0922	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	Dicamba	0.105	ug/L		JU		0.105	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	Dichloroprop	0.0922	ug/L		U		0.0922	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	Dichloroprop	0.105	ug/L		JU		0.105	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	Dinoseb	0.0922	ug/L		U		0.0922	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	Dinoseb	0.105	ug/L		JU		0.105	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	MCPA	12.2	ug/L		U		12.2	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	MCPA	13.9	ug/L		JU		13.9	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	MCPP	11.1	ug/L		U		11.1	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	MCPP	12.7	ug/L		JU		12.7	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	Silvex	0.0922	ug/L		U		0.0922	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	HERB	Silvex	0.105	ug/L		JU		0.105	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW86	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Kepone	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Americium-241	0.0255	pCi/L	0.0499	U		0.0382	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Neptunium-237	0.00701	pCi/L	0.0217	U		0.0388	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Plutonium-238	-0.0122	pCi/L	0.0415	U		0.0936	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Plutonium-239/240	0.0244	pCi/L	0.0479	U		0.0367	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Technetium-99	0.183	pCi/L	0.363	U		0.628	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Thorium-228	0.046	pCi/L	0.0661	U		0.104	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Thorium-230	0.24	pCi/L	0.124			0.161	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Thorium-232	0.0253	pCi/L	0.0472	U		0.0718	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Uranium-233/234	0.0296	pCi/L	0.0359	U		0.0547	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Uranium-235/236	0.0135	pCi/L	0.0238	U		0.0202	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW88	RADS	Uranium-238	0.0216	pCi/L	0.0359	U		0.0605	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	1,2,4-Trichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	1,2-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	1,3-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	1,4-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2,4,5-Trichlorophenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2,4,6-Trichlorophenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2,4-Dichlorophenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2,4-Dimethylphenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2,4-Dinitrophenol	5.95	ug/L		U		5.95	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2,4-Dinitrotoluene	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2,6-Dinitrotoluene	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2-Chloronaphthalene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2-Chlorophenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2-Methyl-4,6-dinitrophenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2-Methylnaphthalene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2-Methylphenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	2-Nitrophenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW86	SVOA	3,3'-Dichlorobenzidine	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	3-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	4-Aminobiphenyl	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	4-Bromophenyl phenyl ether	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	4-Chloro-3-methylphenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	4-Chlorobenzenamine	3.93	ug/L		U		3.93	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	4-Chlorophenyl phenyl ether	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	4-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	4-Nitrophenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Acenaphthene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Acenaphthylene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Acetophenone	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Anthracene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Benz(a)anthracene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Benzenemethanol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Benzo(a)pyrene	0.524	ug/L		U		0.524	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Benzo(b)fluoranthene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Benzo(ghi)perylene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Benzo(k)fluoranthene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Benzoic acid	7.14	ug/L		U		7.14	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Bis(2-chloroethoxy)methane	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Bis(2-chloroethyl) ether	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	bis(2-Chloroisopropyl)ether	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Bis(2-ethylhexyl)phthalate	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Butyl benzyl phthalate	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Chrysene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Dibenz(a,h)anthracene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Dibenzofuran	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Diethyl phthalate	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Dimethyl phthalate	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Di-n-butyl phthalate	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Di-n-octylphthalate	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Diphenylamine	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Fluoranthene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Fluorene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Hexachlorobutadiene	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Hexachlorocyclopentadiene	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Hexachloroethane	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Indeno(1,2,3-cd)pyrene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Isophorone	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	m+p Methylphenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Naphthalene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Nitrobenzene	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	N-Nitrosodimethylamine	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	N-Nitroso-di-n-propylamine	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	N-Nitrosomorpholine	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	O,O,O-Triethylphosphorothioate	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Pentachlorophenol	0.0556	ug/L		U		0.0556	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Pentachlorophenol	0.0633	ug/L		JU		0.0633	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Phenanthrene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Phenol	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Pyrene	0.357	ug/L		U		0.357	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	SVOA	Pyridine	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FD	BP	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW87	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW86	VOA	1,4-Dioxane	3.57	ug/L		U		3.57	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW87	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW82	WETCHEM	Alkalinity	130	mg/L				1.1	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW82	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW82	WETCHEM	Alkalinity as HCO3	130	mg/L				1.1	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW83	WETCHEM	Ammonium Nitrogen	0.25	mg/L				0.1	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW82	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW90	WETCHEM	Cyanide	0.0052	mg/L		B		0.002	WATER	WG	FD	BP	9/20/2012
WD-PZ03G	QW21R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Barium	0.024	mg/L				0.00029	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Barium	0.022	mg/L				0.00029	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW21R	METAL	Calcium	91	mg/L				0.035	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Calcium	92	mg/L				0.035	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Cobalt	0.000068	mg/L		B		0.000054	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Cobalt	0.000067	mg/L		B		0.000054	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Iron	37	mg/L				0.022	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Iron	37	mg/L				0.022	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Lithium	0.036	mg/L				0.0026	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Lithium	0.03	mg/L				0.0026	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Magnesium	57	mg/L				0.011	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Magnesium	58	mg/L				0.011	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Manganese	0.87	mg/L				0.00031	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Manganese	0.93	mg/L				0.00031	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Nickel	0.0003	mg/L		U		0.0003	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Nickel	0.0003	mg/L		U		0.0003	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Potassium	2	mg/L		B		0.24	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Potassium	2.1	mg/L		B		0.24	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Silver	0.00063	mg/L		B		0.000033	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Sodium	38	mg/L				0.092	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Sodium	39	mg/L				0.092	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Strontium	0.36	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Strontium	0.37	mg/L				0.0003	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Thallium	0.000074	mg/L		B		0.00005	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Thallium	0.00015	mg/L		B		0.00005	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Uranium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Uranium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW21R	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW22R	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW256	WETCHEM	Chromium, hexavalent	0.0046	mg/L		BJ		0.004	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW257	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Arsenic	0.012	mg/L				0.00033	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Arsenic	0.01	mg/L				0.00033	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Barium	0.025	mg/L				0.00029	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Barium	0.023	mg/L				0.00029	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BP	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW84R	METAL	Calcium	90	mg/L				0.035	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Calcium	92	mg/L				0.035	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Cobalt	0.00011	mg/L		B		0.000054	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Cobalt	0.000061	mg/L		B		0.000054	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Iron	36	mg/L				0.022	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Iron	37	mg/L				0.022	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Lithium	0.035	mg/L				0.0026	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Lithium	0.035	mg/L				0.0026	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Magnesium	56	mg/L				0.011	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Magnesium	58	mg/L				0.011	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Manganese	0.88	mg/L				0.00031	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Manganese	0.89	mg/L				0.00031	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Nickel	0.0003	mg/L		U		0.0003	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Nickel	0.0003	mg/L		U		0.0003	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Potassium	1.9	mg/L		B		0.24	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Potassium	2	mg/L		B		0.24	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Silver	0.00027	mg/L		B		0.000033	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Sodium	38	mg/L				0.092	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Sodium	39	mg/L				0.092	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Strontium	0.35	mg/L				0.0003	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Strontium	0.37	mg/L				0.0003	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Thallium	0.000076	mg/L		B		0.00005	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Uranium	0.00005	mg/L		U		0.00005	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Uranium	0.00005	mg/L		U		0.00005	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW84R	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW85R	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW258	WETCHEM	Chromium, hexavalent	0.0079	mg/L		BJ		0.004	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW259	WETCHEM	Chromium, hexavalent	0.012	mg/L		BJ		0.004	WATER	WG	FD	BP	9/27/2012
WD-PZ03G	QW279	ANION	Chloride	6000	ug/L				250	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW279	ANION	Fluoride	60	ug/L		U		60	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW279	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW279	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW279	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW279	ANION	Sulfate	430000	ug/L				2300	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW286	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW286	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	2,4,5-T	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	2,4,5-T	0.0902	ug/L		JU		0.0902	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	2,4-D	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	2,4-D	0.0902	ug/L		JU		0.0902	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	2,4-DB	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	2,4-DB	0.0902	ug/L		JU		0.0902	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	Dalapon	1.39	ug/L		U		1.39	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	Dalapon	1.36	ug/L		JU		1.36	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	Dicamba	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	Dicamba	0.0902	ug/L		JU		0.0902	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	Dichloroprop	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	Dichloroprop	0.0902	ug/L		JU		0.0902	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	Dinoseb	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	Dinoseb	0.0902	ug/L		JU		0.0902	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	MCPA	12.2	ug/L		U		12.2	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	MCPA	12	ug/L		JU		12	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	MCPP	11.1	ug/L		U		11.1	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	MCPP	10.9	ug/L		JU		10.9	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	Silvex	0.0922	ug/L		U		0.0922	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	HERB	Silvex	0.0902	ug/L		JU		0.0902	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Aluminum	0.019	mg/L		B		0.018	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Barium	0.022	mg/L				0.00029	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Barium	0.022	mg/L				0.00029	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Calcium	88	mg/L				0.035	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Calcium	86	mg/L				0.035	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Chromium, trivalent	0.2	mg/L		U		0.2	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Chromium, trivalent	0.2	mg/L		U		0.2	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Cobalt	0.000067	mg/L		B		0.000054	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Cobalt	0.000078	mg/L		B		0.000054	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Iron	34	mg/L				0.022	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Iron	34	mg/L				0.022	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Lithium	0.038	mg/L				0.0026	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Lithium	0.032	mg/L		B		0.013	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Magnesium	59	mg/L				0.011	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW282	METAL	Magnesium	55	mg/L				0.011	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Manganese	0.86	mg/L				0.00031	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Manganese	0.85	mg/L				0.00031	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Nickel	0.0003	mg/L		U		0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Nickel	0.00049	mg/L		B		0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Potassium	2	mg/L		B		0.24	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Potassium	2.2	mg/L		B		0.24	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Silver	0.000079	mg/L		B		0.000033	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Sodium	39	mg/L				0.092	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Sodium	43	mg/L				0.092	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Strontium	0.37	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Strontium	0.37	mg/L				0.0003	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Thallium	0.00013	mg/L		B		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Titanium	0.00062	mg/L		B		0.0006	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Uranium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Uranium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW281	METAL	Zinc	0.0022	mg/L		B		0.002	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW282	METAL	Zinc	0.002	mg/L		U		0.002	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW283	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Americium-241	0.00835	pCi/L	0.02	U		0.0319	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Neptunium-237	0.0098	pCi/L	0.0152	U		0.0235	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Plutonium-238	8.56E-10	pCi/L	0.0201	U		0.0393	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Plutonium-239/240	0.00513	pCi/L	0.0174	U		0.0154	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Technetium-99	-0.285	pCi/L	0.387	U		0.685	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Thorium-228	0.0155	pCi/L	0.0204	U		0.0322	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Thorium-230	-0.00791	pCi/L	0.0202	U		0.0427	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Thorium-232	-0.00305	pCi/L	0.0112	U		0.025	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Uranium-233/234	-0.00546	pCi/L	0.0176	U		0.0364	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Uranium-235/236	0	pCi/L	0.00725	U		0.00785	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW285	RADS	Uranium-238	0.00212	pCi/L	0.011	U		0.0203	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Benzo(a)pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	bis(2-Chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW283	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Di-n-butyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Isophorone	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	m+p Methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Pentachlorophenol	0.0556	ug/L		U		0.0556	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Pentachlorophenol	0.0543	ug/L		JU		0.0543	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Phenol	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW283	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ03G	QW284	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW284	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW279	WETCHEM	Alkalinity	120	mg/L				1.1	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW279	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW279	WETCHEM	Alkalinity as HCO3	120	mg/L				1.1	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW280	WETCHEM	Ammonium Nitrogen	0.16	mg/L				0.1	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW300	WETCHEM	Chromium, hexavalent	0.04	mg/L		JU		0.04	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW301	WETCHEM	Chromium, hexavalent	0.04	mg/L		JU		0.04	WATER	WG	REG	BP	12/3/2012
WD-PZ03G	QW287	WETCHEM	Cyanide	0.0027	mg/L		B		0.002	WATER	WG	REG	BP	12/3/2012
WD-PZ04C	WDPZ04-01-02	ANION	Chloride	29	mg/L			XV	0.25	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-01-02	ANION	Fluoride	1.5	mg/L			XV	0.06	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-01-02	ANION	Nitrate	0.051	mg/L		B	XV	0.042	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-01-02	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-01-02	ANION	Sulfate	86	mg/L			XV	1.2	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Aluminum	0.33	mg/L			XV	0.018	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Aluminum	73	mg/L			XV	0.09	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Antimony	0.027	mg/L			XV	0.0031	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Antimony	0.021	mg/L			XV	0.0031	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Arsenic	0.098	mg/L			XV	0.00033	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Arsenic	0.19	mg/L			XV	0.00033	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Barium	0.0085	mg/L		B	XV	0.00058	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Barium	0.99	mg/L			XV	0.0029	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Beryllium	0.0052	mg/L			XV	0.0024	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Cadmium	0.00011	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Cadmium	0.015	mg/L			XV	0.00004	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Calcium	9.6	mg/L			XV	0.035	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Calcium	140	mg/L			XV	0.17	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Chromium	0.0014	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Chromium	0.13	mg/L			XV	0.00066	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Cobalt	0.0078	mg/L		B	XV	0.0012	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Cobalt	0.11	mg/L			XV	0.0012	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Copper	0.073	mg/L			XV	0.0014	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Copper	0.63	mg/L			XV	0.0014	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Iron	0.19	mg/L			XV	0.022	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Iron	290	mg/L			XV	0.11	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Lead	0.00047	mg/L		B	XV	0.00018	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Lead	0.069	mg/L			XV	0.00018	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Magnesium	0.21	mg/L			XV	0.011	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Magnesium	57	mg/L			XV	0.054	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Manganese	0.014	mg/L			XV	0.00025	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Manganese	5.1	mg/L			XV	0.00025	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Mercury	0.000029	mg/L		B		0.000027	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Mercury	0.00033	mg/L			XV	0.000027	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Molybdenum	0.46	mg/L			XV	0.00014	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Molybdenum	0.41	mg/L			XV	0.00014	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Nickel	0.0051	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/19/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	WDPZ04-04-02	METAL	Nickel	0.51	mg/L			XV	0.0013	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Potassium	13	mg/L			XV	0.24	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Potassium	31	mg/L			XV	1.2	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Selenium	0.034	mg/L			XV	0.0007	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Selenium	0.03	mg/L			XV	0.0007	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Silver	0.0012	mg/L		B	XV	0.00093	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Sodium	180	mg/L			XV	0.092	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Sodium	210	mg/L			XV	0.46	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Thallium	0.00018	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Thallium	0.0087	mg/L			XV	0.000033	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Uranium	0.004	mg/L			XV	0.00002	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Uranium	0.025	mg/L			XV	0.0001	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Vanadium	0.064	mg/L			XV	0.0011	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Vanadium	0.36	mg/L			XV	0.0011	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-03-02	METAL	Zinc	0.0049	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-04-02	METAL	Zinc	2.2	mg/L			XV	0.023	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	PPCB	PCB-1016	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	PPCB	PCB-1221	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	PPCB	PCB-1232	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	PPCB	PCB-1242	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	PPCB	PCB-1248	0.095	ug/L		U	XV	0.095	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	PPCB	PCB-1254	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	PPCB	PCB-1260	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	PPCB	Polychlorinated biphenyl	0.088	ug/L		U	XV	0.088	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-09-03	RADS	Alpha activity	53.1	pCi/L	5.97			16.5	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-09-03	RADS	Americium-241	0.0192	pCi/L	0.0271	U		0.138	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-09-03	RADS	Beta activity	17.7	pCi/L	3.52	U		14	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-09-03	RADS	Neptunium-237	-0.00901	pCi/L	0.0127	U		0.0863	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-09-03	RADS	Plutonium-238	0.0545	pCi/L	0.024	U		0.0694	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-09-03	RADS	Plutonium-239/240	0.0454	pCi/L	0.0222	U		0.0694	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-09-03	RADS	Technetium-99	1.34	pCi/L	1.67	U	XV	5.56	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-09-03	RADS	Uranium-233/234	4.04	pCi/L	0.143			0.0389	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-09-03	RADS	Uranium-235	0.0628	pCi/L	0.0208	U		0.048	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-09-03	RADS	Uranium-238	1.85	pCi/L	0.0971			0.0485	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	1,2,4-Trichlorobenzene	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	1,2-Dichlorobenzene	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	1,3-Dichlorobenzene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	1,4-Dichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2,4,5-Trichlorophenol	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2,4,6-Trichlorophenol	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2,4-Dichlorophenol	0.67	ug/L		U	XV	0.67	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2,4-Dimethylphenol	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2,4-Dinitrophenol	10	ug/L		U	XV	10	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2,4-Dinitrotoluene	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2,6-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2-Chloronaphthalene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2-Chlorophenol	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.2	ug/L		U	XV	4.2	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2-Methylnaphthalene	0.62	ug/L		J	XV	0.3	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2-Methylphenol	1	ug/L		U	XV	1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2-Nitrobenzenamine	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	2-Nitrophenol	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	3,3'-Dichlorobenzidine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	3-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	4-Bromophenyl phenyl ether	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	4-Chloro-3-methylphenol	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	4-Chlorophenyl phenyl ether	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	4-Methylphenol	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	4-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/19/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	WDPZ04-05-03	SVOA	4-Nitrophenol	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Acenaphthene	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Acenaphthylene	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Anthracene	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Benz(a)anthracene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Benzo(a)pyrene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Benzo(b)fluoranthene	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Benzo(ghi)perylene	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Benzo(k)fluoranthene	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Benzoic acid	10	ug/L		U	XV	10	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Bis(2-chloroethoxy)methane	1	ug/L		U	XV	1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Bis(2-ethylhexyl)phthalate	1.8	ug/L		J	XV	0.58	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Butyl benzyl phthalate	1	ug/L		U	XV	1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Chrysene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Dibenz(a,h)anthracene	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Dibenzofuran	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Diethyl phthalate	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Dimethyl phthalate	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Di-n-butyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Di-n-octylphthalate	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Fluoranthene	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Fluorene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Hexachlorobenzene	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Hexachlorobutadiene	3.4	ug/L		U	XV	3.4	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Hexachlorocyclopentadiene	1.6	ug/L		U	XV	1.6	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Hexachloroethane	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Isophorone	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Naphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Nitrobenzene	0.84	ug/L		U	XV	0.84	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	N-Nitroso-di-n-propylamine	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	N-Nitrosodiphenylamine	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Pentachlorophenol	21	ug/L		U	XV	21	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Phenanthrene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Phenol	15	ug/L			XV	2.1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-05-03	SVOA	Pyrene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	1,2-Dimethylbenzene	1	ug/L			XV	0.19	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	2-Butanone	9.2	ug/L			XV	2	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Acetone	20	ug/L		B	XV	1.9	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Benzene	9.9	ug/L			XV	0.16	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/19/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	WDPZ04-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Ethylbenzene	0.4	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	M + P Xylene	1.6	ug/L		J	XV	0.34	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Methylene chloride	0.93	ug/L		J	XV	0.32	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Toluene	6.4	ug/L			XV	0.17	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-01-02	WETCHEM	Alkalinity	350	mg/L			XV	1.1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-01-02	WETCHEM	Alkalinity as CO3	210	mg/L			XV	1.1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-01-02	WETCHEM	Alkalinity as HCO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-02-02	WETCHEM	Ammonium Nitrogen	0.36	mg/L				0.1	WATER	WG	REG	BP	12/19/2011
WD-PZ04C	WDPZ04-01-05	ANION	Chloride	41	mg/L				0.25	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-01-05	ANION	Fluoride	1.5	mg/L				0.06	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-01-05	ANION	Nitrate	0.052	mg/L		B		0.042	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-01-05	ANION	Sulfate	140	mg/L				1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Aluminum	0.44	mg/L				0.018	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Aluminum	15	mg/L				0.018	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Antimony	0.03	mg/L				0.0031	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Antimony	0.022	mg/L				0.0031	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Arsenic	0.051	mg/L				0.00033	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Arsenic	0.059	mg/L				0.00033	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Barium	0.025	mg/L				0.00058	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Barium	0.22	mg/L				0.00058	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Beryllium	0.0012	mg/L				0.00047	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Cadmium	0.00031	mg/L		B		0.0001	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Cadmium	0.0027	mg/L				0.0001	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Calcium	9.9	mg/L				0.035	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Calcium	30	mg/L				0.035	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Chromium	0.00066	mg/L		B		0.00066	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Chromium	0.026	mg/L				0.00066	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Cobalt	0.0014	mg/L		B		0.0012	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Cobalt	0.015	mg/L				0.0012	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Copper	0.044	mg/L				0.0014	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Copper	0.23	mg/L				0.0014	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Iron	0.87	mg/L				0.022	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Iron	33	mg/L				0.022	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Lead	0.0023	mg/L				0.00018	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Lead	0.023	mg/L				0.00018	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Magnesium	0.9	mg/L				0.011	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Magnesium	7.4	mg/L				0.011	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Manganese	0.022	mg/L				0.00025	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Manganese	0.53	mg/L				0.00025	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Mercury	0.000064	mg/L		B		0.000027	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Molybdenum	0.56	mg/L				0.00014	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Molybdenum	0.44	mg/L				0.00014	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Nickel	0.0083	mg/L		B		0.0013	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Nickel	0.077	mg/L				0.0013	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Potassium	11	mg/L				0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Selenium	0.0059	mg/L				0.0007	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Selenium	0.0056	mg/L				0.0007	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Silver	0.00099	mg/L		B		0.00093	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	WDPZ04-03-05	METAL	Sodium	230	mg/L				0.092	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Sodium	210	mg/L				0.092	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Thallium	0.00018	mg/L		B		0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Thallium	0.0027	mg/L				0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Uranium	0.025	mg/L				0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Uranium	0.021	mg/L				0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Vanadium	0.026	mg/L				0.0011	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Vanadium	0.11	mg/L				0.0011	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-03-05	METAL	Zinc	0.0059	mg/L		B		0.0045	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-04-05	METAL	Zinc	0.23	mg/L				0.0045	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	PPCB	PCB-1221	0.28	ug/L		U		0.28	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	PPCB	PCB-1232	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	PPCB	PCB-1242	0.14	ug/L		U		0.14	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	PPCB	PCB-1254	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	PPCB	PCB-1260	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-09-05	RADS	Alpha activity	29.2	pCi/L	6.62		=	7.93	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-09-05	RADS	Americium-241	0.0923	pCi/L	0.0223	J	U	0.0392	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-09-05	RADS	Beta activity	7.21	pCi/L	3.73	U	UJ	8.05	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-09-05	RADS	Neptunium-237	0.00683	pCi/L	0.00965	U	U	0.0522	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-09-05	RADS	Plutonium-238	-0.00626	pCi/L	-0.0108	U	U	0.077	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-09-05	RADS	Plutonium-239/240	0.0313	pCi/L	0.0166	U	U	0.0599	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-09-05	RADS	Technetium-99	-0.0466	pCi/L	1.65	U	U	5.54	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-09-05	RADS	Uranium-233/234	13.3	pCi/L	0.266		=	0.0407	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-09-05	RADS	Uranium-235	0.269	pCi/L	0.0426	J	J	0.0502	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-09-05	RADS	Uranium-238	8.2	pCi/L	0.209		=	0.0508	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2,4-Dichlorophenol	0.76	ug/L		U		0.76	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2,4-Dimethylphenol	0.69	ug/L		U		0.69	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2-Methylnaphthalene	0.78	ug/L		J		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	2-Nitrophenol	0.46	ug/L		U		0.46	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	4-Methylphenol	0.42	ug/L		J		0.3	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Acenaphthylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	WDPZ04-05-05	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Bis(2-ethylhexyl)phthalate	0.67	ug/L		U		0.67	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Chrysene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.77	ug/L		U		0.77	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Naphthalene	0.49	ug/L		J		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-05-05	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	1,2-Dimethylbenzene	1.3	ug/L				0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Benzene	14	ug/L				0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Carbon disulfide	2.2	ug/L				0.45	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Ethylbenzene	0.45	ug/L		J		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	M + P Xylene	1.9	ug/L		J		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Methylene chloride	0.67	ug/L		BJ		0.32	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	WDPZ04-06-05	VOA	Toluene	9	ug/L				0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-01-05	WETCHEM	Alkalinity	290	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-01-05	WETCHEM	Alkalinity as CO3	190	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-01-05	WETCHEM	Alkalinity as HCO3	100	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	WDPZ04-02-05	WETCHEM	Ammonium Nitrogen	1.1	mg/L				0.1	WATER	WG	REG	BP	4/10/2012
WD-PZ04C	QW28	ANION	Chloride	37000	ug/L				250	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW28	ANION	Fluoride	2100	ug/L				60	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW28	ANION	Nitrate	57	ug/L		B		42	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW28	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW28	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW28	ANION	Sulfate	70000	ug/L				1200	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.296	ng/L		J		2.5	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW35	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	HERB	2,4,5-T	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	HERB	2,4-D	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	HERB	2,4-DB	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	HERB	Dalapon	1.52	ug/L		U		1.52	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	HERB	Dicamba	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	HERB	Dichloroprop	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	HERB	Dinoseb	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	HERB	MCPA	13.4	ug/L		U		13.4	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	HERB	MCPP	12.2	ug/L		U		12.2	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	HERB	Silvex	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	QW32	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Americium-241	0	pCi/L	0.0142	U		0.0283	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Neptunium-237	0.0146	pCi/L	0.0172	U		0.0223	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Plutonium-238	0.00481	pCi/L	0.0116	U		0.0184	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Plutonium-239/240	0	pCi/L	0.00666	U		0.00721	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Technetium-99	-0.291	pCi/L	0.425	U		0.798	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Thorium-228	0.157	pCi/L	0.0519			0.0415	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Thorium-230	0.191	pCi/L	0.0582			0.0555	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Thorium-232	0.109	pCi/L	0.0396			0.0144	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Uranium-233/234	13.1	pCi/L	0.528			0.0668	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Uranium-235/236	0.359	pCi/L	0.0989			0.0401	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW34	RADS	Uranium-238	7.99	pCi/L	0.412			0.0166	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Benzo(a)pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	bis(2-Chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	QW32	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Di-n-butyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Isophorone	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	m+p Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Pentachlorophenol	0.061	ug/L		U		0.061	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Phenol	11.2	ug/L				3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	1,2-Dimethylbenzene	0.52	ug/L		J		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW32	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	2-Butanone	6.3	ug/L				2	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Acetone	7.1	ug/L		J		1.9	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Benzene	9	ug/L				0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	QW33	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Ethylbenzene	0.23	ug/L		J		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	M + P Xylene	0.44	ug/L		J		0.34	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Toluene	1.4	ug/L				0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Total Xylene	0.97	ug/L		J		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW33	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW28	WETCHEM	Alkalinity	380	mg/L				1.1	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW28	WETCHEM	Alkalinity as CO3	360	mg/L				1.1	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW28	WETCHEM	Alkalinity as HCO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW29	WETCHEM	Ammonium Nitrogen	8.1	mg/L				0.1	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW28	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW36	WETCHEM	Cyanide	0.012	mg/L				0.002	WATER	WG	REG	BAI	9/20/2012
WD-PZ04C	QW30R	METAL	Aluminum	0.21	mg/L				0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Aluminum	27	mg/L				0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Antimony	0.029	mg/L				0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Antimony	0.012	mg/L				0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Arsenic	0.11	mg/L				0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Arsenic	0.15	mg/L				0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Barium	0.012	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Barium	0.22	mg/L				0.0029	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Beryllium	0.0015	mg/L		B		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Cadmium	0.0087	mg/L				0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Calcium	6.6	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Calcium	34	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Chromium	0.005	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Chromium	0.045	mg/L				0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Cobalt	0.0017	mg/L		B		0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Cobalt	0.036	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Copper	0.1	mg/L				0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Copper	0.24	mg/L				0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Iron	0.3	mg/L				0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Iron	86	mg/L				0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Lead	0.041	mg/L				0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Lithium	0.033	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Lithium	0.14	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Magnesium	0.86	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Magnesium	19	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Manganese	0.0088	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Manganese	1.3	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Mercury	0.000033	mg/L		B		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Mercury	0.00013	mg/L		B		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Nickel	0.01	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Nickel	0.17	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Potassium	6.3	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	QW31R	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Selenium	0.024	mg/L		B		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Selenium	0.019	mg/L		B		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Silver	0.00026	mg/L		B		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Silver	0.00084	mg/L		B		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Sodium	190	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Sodium	230	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Strontium	0.21	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Strontium	0.54	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Thallium	0.00047	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Thallium	0.0061	mg/L				0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Tin	0.0076	mg/L		B		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Titanium	0.0024	mg/L		B		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Titanium	0.18	mg/L				0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Uranium	0.013	mg/L				0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Uranium	0.029	mg/L				0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Vanadium	0.15	mg/L				0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Vanadium	0.18	mg/L				0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW30R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW31R	METAL	Zinc	0.55	mg/L				0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW262	WETCHEM	Chromium, hexavalent	0.012	mg/L		B		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW263	WETCHEM	Chromium, hexavalent	0.0043	mg/L		B		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ04C	QW288	ANION	Chloride	36000	ug/L				250	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW288	ANION	Fluoride	1000	ug/L				60	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW288	ANION	Nitrate	42	ug/L		U		42	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW288	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW288	ANION	Orthophosphate	320	ug/L		B		190	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW288	ANION	Sulfate	89000	ug/L				1200	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.277	ng/L		J		2.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW295	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	2,4,5-T	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	2,4,5-T	0.0943	ug/L		JU		0.0943	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	2,4-D	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	2,4-D	0.0943	ug/L		JU		0.0943	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	2,4-DB	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	2,4-DB	0.0943	ug/L		JU		0.0943	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	Dalapon	1.56	ug/L		U		1.56	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	Dalapon	1.42	ug/L		JU		1.42	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	Dicamba	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	Dicamba	0.0943	ug/L		JU		0.0943	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	Dichloroprop	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	Dichloroprop	0.0943	ug/L		JU		0.0943	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	Dinoseb	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	Dinoseb	0.0943	ug/L		JU		0.0943	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	QW292	HERB	MCPA	13.8	ug/L		U		13.8	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	MCPA	12.5	ug/L		JU		12.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	MCPP	12.5	ug/L		U		12.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	MCPP	11.4	ug/L		JU		11.4	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	Silvex	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	HERB	Silvex	0.0943	ug/L		JU		0.0943	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Aluminum	11	mg/L				0.018	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Antimony	0.014	mg/L				0.0004	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Arsenic	0.099	mg/L				0.00033	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Barium	0.11	mg/L				0.00029	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Beryllium	0.00072	mg/L		B		0.00008	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Cadmium	0.0037	mg/L				0.0001	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Calcium	15	mg/L				0.035	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Chromium	0.019	mg/L				0.0005	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Chromium, trivalent	0.2	mg/L		U		0.2	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Cobalt	0.015	mg/L				0.000054	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Copper	0.23	mg/L				0.00056	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Iron	28	mg/L				0.022	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Lead	0.018	mg/L				0.00018	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Lithium	0.046	mg/L				0.0026	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Magnesium	6.5	mg/L				0.011	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Manganese	0.49	mg/L				0.00031	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Mercury	0.00011	mg/L		B		0.000027	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Nickel	0.069	mg/L				0.0003	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Potassium	7.4	mg/L				0.24	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Selenium	0.01	mg/L				0.0007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Silver	0.00064	mg/L		B		0.000033	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Sodium	220	mg/L				0.092	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Strontium	0.27	mg/L				0.0003	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Thallium	0.0028	mg/L				0.00005	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Titanium	0.1	mg/L				0.0006	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Uranium	0.0088	mg/L				0.00005	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Vanadium	0.12	mg/L				0.0005	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW291	METAL	Zinc	0.19	mg/L				0.002	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	2,4'-DDD	0.00526	ug/L		U		0.00526	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	2,4'-DDE	0.00632	ug/L		U		0.00632	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	2,4'-DDT	0.00526	ug/L		U		0.00526	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	4,4'-DDD	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	4,4'-DDE	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	4,4'-DDT	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Aldrin	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	alpha-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	alpha-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	beta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Chlordane	0.0805	ug/L		U		0.0805	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	delta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Dieldrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Endosulfan I	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Endosulfan II	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Endosulfan sulfate	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Endrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Endrin aldehyde	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Endrin ketone	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	gamma-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Heptachlor	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Heptachlor epoxide	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Lindane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Methoxychlor	0.0526	ug/L		U		0.0526	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	QW292	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	PPCB	Toxaphene	0.158	ug/L		U		0.158	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	QW292	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Hexachlorobenzene	0.00658	ug/L		U		0.00658	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Pentachlorophenol	0.0625	ug/L		U		0.0625	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Pentachlorophenol	0.0568	ug/L		JU		0.0568	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	1,2-Dimethylbenzene	0.51	ug/L		J		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW292	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Acetone	21	ug/L				1.9	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Benzene	5	ug/L				0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Ethylbenzene	0.19	ug/L		J		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	M + P Xylene	0.45	ug/L		J		0.34	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ04C	QW293	VOA	Methylene chloride	0.44	ug/L		BJ		0.32	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Toluene	1.3	ug/L				0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Total Xylene	0.96	ug/L		J		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW293	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW288	WETCHEM	Alkalinity	380	mg/L				1.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW288	WETCHEM	Alkalinity as CO3	320	mg/L				1.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW288	WETCHEM	Alkalinity as HCO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW289	WETCHEM	Ammonium Nitrogen	0.57	mg/L				0.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW298	WETCHEM	Chromium, hexavalent	0.9	mg/L		J		0.04	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW296	WETCHEM	Cyanide	0.0023	mg/L		B		0.002	WATER	WG	REG	BAI	12/4/2012
WD-PZ04C	QW294	RADS	Americium-241	0.00487	pCi/L	0.00954	U		0.0073	WATER	WG	REG	BAI	12/5/2012
WD-PZ04C	QW294	RADS	Neptunium-237	0.0177	pCi/L	0.0216	U		0.0325	WATER	WG	REG	BAI	12/5/2012
WD-PZ04C	QW294	RADS	Plutonium-238	-0.00447	pCi/L	0.0124	U		0.0275	WATER	WG	REG	BAI	12/5/2012
WD-PZ04C	QW294	RADS	Plutonium-239/240	0.00224	pCi/L	0.0145	U		0.0275	WATER	WG	REG	BAI	12/5/2012
WD-PZ04C	QW294	RADS	Technetium-99	-0.412	pCi/L	0.34	U		0.61	WATER	WG	REG	BAI	12/5/2012
WD-PZ04C	QW294	RADS	Thorium-228	0.0255	pCi/L	0.0201	U		0.0285	WATER	WG	REG	BAI	12/5/2012
WD-PZ04C	QW294	RADS	Thorium-230	0.0829	pCi/L	0.0295			0.0305	WATER	WG	REG	BAI	12/5/2012
WD-PZ04C	QW294	RADS	Thorium-232	0.0288	pCi/L	0.0191			0.0243	WATER	WG	REG	BAI	12/5/2012
WD-PZ04C	QW294	RADS	Uranium-233/234	4.23	pCi/L	0.212			0.0415	WATER	WG	REG	BAI	12/5/2012
WD-PZ04C	QW294	RADS	Uranium-235/236	0.119	pCi/L	0.0416			0.026	WATER	WG	REG	BAI	12/5/2012
WD-PZ04C	QW294	RADS	Uranium-238	2.04	pCi/L	0.147			0.021	WATER	WG	REG	BAI	12/5/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.431	ng/L		J		2.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW44	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	HERB	2,4,5-T	0.0847	ug/L		U		0.0847	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	HERB	2,4-D	0.0847	ug/L		U		0.0847	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	HERB	2,4-DB	0.0847	ug/L		U		0.0847	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	HERB	Dalapon	1.28	ug/L		U		1.28	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	HERB	Dicamba	0.0847	ug/L		U		0.0847	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	HERB	Dichloroprop	0.0847	ug/L		U		0.0847	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	HERB	Dinoseb	0.0847	ug/L		U		0.0847	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	HERB	MCPA	11.2	ug/L		U		11.2	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	HERB	MCPP	10.2	ug/L		U		10.2	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	HERB	Silvex	0.0847	ug/L		U		0.0847	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	2,4'-DDD	0.00581	ug/L		U		0.00581	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	2,4'-DDD	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	2,4'-DDE	0.00698	ug/L		U		0.00698	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	2,4'-DDE	0.00667	ug/L		JU		0.00667	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	2,4'-DDT	0.00581	ug/L		U		0.00581	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	2,4'-DDT	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ05C	QW41	PPCB	4,4'-DDD	0.0116	ug/L		U		0.0116	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	4,4'-DDD	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	4,4'-DDE	0.0116	ug/L		U		0.0116	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	4,4'-DDE	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	4,4'-DDT	0.0116	ug/L		U		0.0116	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	4,4'-DDT	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Aldrin	0.00773	ug/L		U		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Aldrin	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	alpha-BHC	0.00773	ug/L		U		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	alpha-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	alpha-Chlordane	0.00773	ug/L		U		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	alpha-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	beta-BHC	0.00773	ug/L		U		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	beta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Chlordane	0.089	ug/L		U		0.089	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Chlordane	0.085	ug/L		JU		0.085	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	delta-BHC	0.00773	ug/L		U		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	delta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Dieldrin	0.0116	ug/L		U		0.0116	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Dieldrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endosulfan I	0.00773	ug/L		U		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endosulfan I	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endosulfan II	0.0116	ug/L		U		0.0116	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endosulfan II	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endosulfan sulfate	0.0116	ug/L		U		0.0116	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endosulfan sulfate	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endrin	0.0116	ug/L		U		0.0116	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endrin aldehyde	0.00773	ug/L		U		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endrin aldehyde	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endrin ketone	0.0116	ug/L		U		0.0116	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Endrin ketone	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	gamma-Chlordane	0.00913	ug/L		J		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	gamma-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Heptachlor	0.00773	ug/L		U		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Heptachlor	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Heptachlor epoxide	0.00773	ug/L		U		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Heptachlor epoxide	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Kepone	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Lindane	0.00773	ug/L		U		0.00773	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Lindane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Methoxychlor	0.0581	ug/L		U		0.0581	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Methoxychlor	0.0556	ug/L		JU		0.0556	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	PCB-1016	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	PCB-1221	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	PCB-1232	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	PCB-1242	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	PCB-1248	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	PCB-1254	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	PCB-1260	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	PCB-1268	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Polychlorinated biphenyl	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Toxaphene	0.174	ug/L		U		0.174	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	PPCB	Toxaphene	0.167	ug/L		JU		0.167	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	1,2,4-Trichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	1,2-Dichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	1,3-Dichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	1,4-Dichlorobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2,4,5-Trichlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2,4,6-Trichlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ05C	QW41	SVOA	2,4-Dichlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2,4-Dimethylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2,4-Dinitrophenol	5.32	ug/L		U		5.32	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2,4-Dinitrotoluene	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2,6-Dinitrotoluene	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2-Chloronaphthalene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2-Chlorophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2-Methyl-4,6-dinitrophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2-Methylnaphthalene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2-Methylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2-Nitrobenzenamine	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	2-Nitrophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	3,3'-Dichlorobenzidine	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	3-Nitrobenzenamine	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	4-Aminobiphenyl	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	4-Bromophenyl phenyl ether	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	4-Chloro-3-methylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	4-Chlorobenzenamine	3.51	ug/L		U		3.51	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	4-Chlorophenyl phenyl ether	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	4-Nitrobenzenamine	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	4-Nitrophenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Acenaphthene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Acenaphthylene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Acetophenone	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Anthracene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Benz(a)anthracene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Benzenemethanol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Benzo(a)pyrene	0.468	ug/L		U		0.468	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Benzo(b)fluoranthene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Benzo(ghi)perylene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Benzo(k)fluoranthene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Benzoic acid	6.38	ug/L		U		6.38	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Bis(2-chloroethoxy)methane	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Bis(2-chloroethyl) ether	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	bis(2-Chloroisopropyl)ether	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Bis(2-ethylhexyl)phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Butyl benzyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Chrysene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Dibenz(a,h)anthracene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Dibenzofuran	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Diethyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Dimethyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Di-n-butyl phthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Di-n-octylphthalate	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Diphenylamine	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Fluoranthene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Fluorene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Hexachlorobenzene	0.00727	ug/L		U		0.00727	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Hexachlorobenzene	0.00694	ug/L		JU		0.00694	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Hexachlorobutadiene	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Hexachlorocyclopentadiene	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Hexachloroethane	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Indeno(1,2,3-cd)pyrene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Isophorone	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	m+p Methylphenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Naphthalene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Nitrobenzene	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	N-Nitrosodimethylamine	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	N-Nitroso-di-n-propylamine	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	N-Nitrosomorpholine	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ05C	QW41	SVOA	O,O,O-Triethylphosphorothioate	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Pentachlorophenol	0.051	ug/L		U		0.051	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Phenanthrene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Phenol	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Pyrene	0.319	ug/L		U		0.319	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	SVOA	Pyridine	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	1,2-Dimethylbenzene	0.22	ug/L		J		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW41	VOA	1,4-Dioxane	3.19	ug/L		U		3.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Benzene	2.1	ug/L				0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Total Xylene	0.22	ug/L		J		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW42	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ05C	QW37	ANION	Chloride	48000	ug/L				250	WATER	WG	REG	BAI	9/20/2012
WD-PZ05C	QW37	ANION	Fluoride	260	ug/L		B		60	WATER	WG	REG	BAI	9/20/2012
WD-PZ05C	QW37	ANION	Nitrate	62	ug/L		B		42	WATER	WG	REG	BAI	9/20/2012
WD-PZ05C	QW37	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BAI	9/20/2012
WD-PZ05C	QW37	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BAI	9/20/2012
WD-PZ05C	QW37	ANION	Sulfate	810000	ug/L				4600	WATER	WG	REG	BAI	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ05C	QW37	WETCHEM	Alkalinity	230	mg/L				1.1	WATER	WG	REG	BAI	9/20/2012
WD-PZ05C	QW37	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/20/2012
WD-PZ05C	QW37	WETCHEM	Alkalinity as HCO3	230	mg/L				1.1	WATER	WG	REG	BAI	9/20/2012
WD-PZ05C	QW37	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/20/2012
WD-PZ05C	QW306	HERB	2,4,5-T	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	HERB	2,4-D	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	HERB	2,4-DB	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	HERB	Dalapon	1.39	ug/L		U		1.39	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	HERB	Dicamba	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	HERB	Dichloroprop	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	HERB	Dinoseb	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	HERB	MCPA	12.2	ug/L		U		12.2	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	HERB	MCPP	11.1	ug/L		U		11.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	HERB	Silvex	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	2,4'-DDD	0.00526	ug/L		U		0.00526	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	2,4'-DDE	0.00632	ug/L		U		0.00632	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	2,4'-DDT	0.00526	ug/L		U		0.00526	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	4,4'-DDD	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	4,4'-DDE	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	4,4'-DDT	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Aldrin	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	alpha-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	alpha-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	beta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Chlordane	0.0805	ug/L		U		0.0805	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	delta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Dieldrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Endosulfan I	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Endosulfan II	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Endosulfan sulfate	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Endrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Endrin aldehyde	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Endrin ketone	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	gamma-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Heptachlor	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Heptachlor epoxide	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Lindane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Methoxychlor	0.0526	ug/L		U		0.0526	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	PCB-1016	0.0374	ug/L		U		0.0374	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	PCB-1221	0.0374	ug/L		U		0.0374	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	PCB-1232	0.0374	ug/L		U		0.0374	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	PCB-1242	0.0374	ug/L		U		0.0374	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	PCB-1248	0.0374	ug/L		U		0.0374	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	PCB-1254	0.0374	ug/L		U		0.0374	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	PCB-1260	0.0374	ug/L		U		0.0374	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	PCB-1268	0.0374	ug/L		U		0.0374	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Polychlorinated biphenyl	0.0374	ug/L		U		0.0374	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	PPCB	Toxaphene	0.158	ug/L		U		0.158	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ05C	QW306	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Hexachlorobenzene	0.00658	ug/L		U		0.00658	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Pentachlorophenol	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ05C	QW307	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW306	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Benzene	1.3	ug/L				0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Total Xylene	0.2	ug/L		J		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/4/2012
WD-PZ05C	QW307	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW51	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ06C	QW51	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Benzene	2.8	ug/L				0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW51	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ06C	QW317	PPCB	Kepone	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	1,2,4-Trichlorobenzene	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	1,2-Dichlorobenzene	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	1,3-Dichlorobenzene	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	1,4-Dichlorobenzene	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2,4,5-Trichlorophenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2,4,6-Trichlorophenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2,4-Dichlorophenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2,4-Dimethylphenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2,4-Dinitrophenol	9.43	ug/L		U		9.43	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2,4-Dinitrotoluene	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2,6-Dinitrotoluene	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2-Chloronaphthalene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2-Chlorophenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2-Methyl-4,6-dinitrophenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2-Methylnaphthalene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2-Methylphenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2-Nitrobenzenamine	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	2-Nitrophenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	3,3'-Dichlorobenzidine	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	3-Nitrobenzenamine	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	4-Aminobiphenyl	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	4-Bromophenyl phenyl ether	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	4-Chloro-3-methylphenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	4-Chlorobenzenamine	6.23	ug/L		U		6.23	WATER	WG	REG	BAI	12/4/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ06C	QW317	SVOA	4-Chlorophenyl phenyl ether	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	4-Nitrobenzenamine	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	4-Nitrophenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Acenaphthene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Acenaphthylene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Acetophenone	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Anthracene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Benz(a)anthracene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Benzenemethanol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Benzo(a)pyrene	0.83	ug/L		U		0.83	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Benzo(b)fluoranthene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Benzo(ghi)perylene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Benzo(k)fluoranthene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Benzoic acid	11.3	ug/L		U		11.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Bis(2-chloroethoxy)methane	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Bis(2-chloroethyl) ether	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	bis(2-Chloroisopropyl)ether	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Bis(2-ethylhexyl)phthalate	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Butyl benzyl phthalate	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Chrysene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Dibenz(a,h)anthracene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Dibenzofuran	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Diethyl phthalate	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Dimethyl phthalate	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Di-n-butyl phthalate	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Di-n-octylphthalate	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Diphenylamine	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Fluoranthene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Fluorene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Hexachlorobutadiene	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Hexachlorocyclopentadiene	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Hexachloroethane	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Indeno(1,2,3-cd)pyrene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Isophorone	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	m+p Methylphenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Naphthalene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Nitrobenzene	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	N-Nitrosodimethylamine	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	N-Nitroso-di-n-propylamine	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	N-Nitrosomorpholine	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	O,O,O-Triethylphosphorothioate	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Phenanthrene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Phenol	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Pyrene	0.566	ug/L		U		0.566	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	SVOA	Pyridine	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW317	VOA	1,4-Dioxane	5.66	ug/L		U		5.66	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ06C	QW318	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Acetone	2.1	ug/L		J		1.9	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Benzene	2.1	ug/L				0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Methylene chloride	0.37	ug/L		BJ		0.32	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/4/2012
WD-PZ06C	QW318	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW60	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	1,2-Dimethylbenzene	0.2	ug/L		J		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Benzene	2.5	ug/L				0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ07C	QW60	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Total Xylene	0.2	ug/L		J		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW60	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/20/2012
WD-PZ07C	QW326	PPCB	Kepone	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	1,2,4-Trichlorobenzene	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	1,2-Dichlorobenzene	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	1,3-Dichlorobenzene	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	1,4-Dichlorobenzene	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2,4,5-Trichlorophenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2,4,6-Trichlorophenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2,4-Dichlorophenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2,4-Dimethylphenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2,4-Dinitrophenol	10.9	ug/L		U		10.9	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2,4-Dinitrotoluene	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2,6-Dinitrotoluene	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2-Chloronaphthalene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2-Chlorophenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2-Methyl-4,6-dinitrophenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2-Methylnaphthalene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2-Methylphenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2-Nitrobenzenamine	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	2-Nitrophenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	3,3'-Dichlorobenzidine	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	3-Nitrobenzenamine	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	4-Aminobiphenyl	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	4-Bromophenyl phenyl ether	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	4-Chloro-3-methylphenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	4-Chlorobenzenamine	7.17	ug/L		U		7.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	4-Chlorophenyl phenyl ether	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	4-Nitrobenzenamine	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	4-Nitrophenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Acenaphthene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Acenaphthylene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Acetophenone	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Anthracene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Benz(a)anthracene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Benzenemethanol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Benzo(a)pyrene	0.957	ug/L		U		0.957	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Benzo(b)fluoranthene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Benzo(ghi)perylene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Benzo(k)fluoranthene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Bis(2-chloroethoxy)methane	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ07C	QW326	SVOA	Bis(2-chloroethyl) ether	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	bis(2-Chloroisopropyl)ether	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Bis(2-ethylhexyl)phthalate	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Butyl benzyl phthalate	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Chrysene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Dibenz(a,h)anthracene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Dibenzofuran	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Diethyl phthalate	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Dimethyl phthalate	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Di-n-butyl phthalate	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Di-n-octylphthalate	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Diphenylamine	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Fluoranthene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Fluorene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Hexachlorobutadiene	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Hexachlorocyclopentadiene	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Hexachloroethane	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Indeno(1,2,3-cd)pyrene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Isophorone	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	m+p Methylphenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Naphthalene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Nitrobenzene	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	N-Nitrosodimethylamine	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	N-Nitroso-di-n-propylamine	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	N-Nitrosomorpholine	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	O,O,O-Triethylphosphorothioate	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Phenanthrene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Phenol	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Pyrene	0.652	ug/L		U		0.652	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	SVOA	Pyridine	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW326	VOA	1,4-Dioxane	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ07C	QW327	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/4/2012
WD-PZ07C	QW327	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	WDPZ08-01-05	ANION	Chloride	48	mg/L				0.51	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-01-05	ANION	Fluoride	0.26	mg/L		B		0.12	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-01-05	ANION	Nitrate	0.3	mg/L		B		0.084	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-01-05	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-01-05	ANION	Sulfate	1300	mg/L				12	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Aluminum	42	mg/L				0.018	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Antimony	0.0034	mg/L		B		0.0031	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Arsenic	0.0034	mg/L		B		0.00033	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Arsenic	0.079	mg/L				0.00033	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Barium	0.015	mg/L				0.00058	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Barium	0.18	mg/L				0.00058	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Beryllium	0.0032	mg/L				0.00047	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Calcium	110	mg/L				0.035	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Calcium	90	mg/L				0.035	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Chromium	0.067	mg/L				0.00066	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Cobalt	0.028	mg/L				0.0012	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Cobalt	0.075	mg/L				0.0012	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Copper	0.0028	mg/L		B		0.0014	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Copper	0.075	mg/L				0.0014	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Iron	93	mg/L				0.022	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Lead	0.067	mg/L				0.00018	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Magnesium	400	mg/L				0.011	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Magnesium	400	mg/L				0.011	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Manganese	0.23	mg/L				0.00025	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Manganese	1.1	mg/L				0.00025	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Mercury	0.000054	mg/L		B		0.000027	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Molybdenum	0.025	mg/L				0.00014	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Molybdenum	0.018	mg/L				0.00014	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Nickel	0.078	mg/L				0.0013	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Nickel	0.17	mg/L				0.0013	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Potassium	24	mg/L				0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Selenium	0.008	mg/L				0.0007	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	WDPZ08-04-05	METAL	Selenium	0.0055	mg/L				0.0007	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Sodium	110	mg/L				0.092	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Sodium	100	mg/L				0.092	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Thallium	0.000046	mg/L		B		0.000033	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Thallium	0.00037	mg/L		B		0.000033	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Uranium	0.01	mg/L				0.00002	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Uranium	0.012	mg/L				0.00002	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Vanadium	0.0037	mg/L		B		0.0011	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Vanadium	0.1	mg/L				0.0011	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-03-05	METAL	Zinc	0.0074	mg/L		B		0.0045	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-04-05	METAL	Zinc	0.27	mg/L				0.0045	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	PPCB	PCB-1016	0.18	ug/L		U		0.18	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	PPCB	PCB-1221	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	PPCB	PCB-1232	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	PPCB	PCB-1242	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	PPCB	PCB-1248	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	PPCB	PCB-1254	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	PPCB	PCB-1260	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	PPCB	Polychlorinated biphenyl	0.12	ug/L		U		0.12	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-09-05	RADS	Alpha activity	40.7	pCi/L	12.9			21.7	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-09-05	RADS	Americium-241	0.0827	pCi/L	0.0291	U		0.0925	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-09-05	RADS	Beta activity	57.5	pCi/L	11.5			19.2	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-09-05	RADS	Neptunium-237	0.0154	pCi/L	0.0134	U		0.059	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-09-05	RADS	Plutonium-238	-0.0082	pCi/L	-0.0116	U		0.0786	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-09-05	RADS	Plutonium-239/240	0.0164	pCi/L	0.0142	U		0.0627	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-09-05	RADS	Technetium-99	-2.04	pCi/L	1.64	U		5.58	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-09-05	RADS	Uranium-233/234	11.6	pCi/L	0.295			0.0573	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-09-05	RADS	Uranium-235	0.148	pCi/L	0.0381	J		0.0707	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-09-05	RADS	Uranium-238	4.32	pCi/L	0.18			0.057	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	WDPZ08-05-05	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Bis(2-ethylhexyl)phthalate	2.9	ug/L		BJ		0.67	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-05-05	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Acetone	73	ug/L				1.9	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Bromodichloromethane	1.1	ug/L				0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Chloroform	2.1	ug/L				0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Dibromochloromethane	0.78	ug/L		J		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	WDPZ08-06-05	VOA	Methylene chloride	0.64	ug/L		BJ		0.32	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-01-05	WETCHEM	Alkalinity	620	mg/L				1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-01-05	WETCHEM	Alkalinity as HCO3	620	mg/L				1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-02-05	WETCHEM	Ammonium Nitrogen	0.28	mg/L				0.1	WATER	WG	REG	BP	2/14/2012
WD-PZ08C	WDPZ08-01-06	ANION	Chloride	48	mg/L				0.51	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-01-06	ANION	Fluoride	0.17	mg/L		B		0.12	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-01-06	ANION	Nitrate	1.2	mg/L				0.084	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-01-06	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-01-06	ANION	Sulfate	1600	mg/L				12	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Aluminum	31	mg/L				0.018	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Arsenic	0.0026	mg/L		B		0.00033	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Arsenic	0.048	mg/L				0.00033	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Barium	0.015	mg/L				0.00058	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Barium	0.14	mg/L				0.00058	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Beryllium	0.0021	mg/L				0.00047	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Cadmium	0.00022	mg/L		B		0.0001	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Calcium	120	mg/L				0.035	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Calcium	120	mg/L				0.035	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Chromium	0.046	mg/L				0.00066	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Cobalt	0.033	mg/L				0.0012	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Cobalt	0.066	mg/L				0.0012	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Copper	0.0027	mg/L		B		0.0014	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Copper	0.048	mg/L				0.0014	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Iron	0.032	mg/L		B		0.022	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Iron	65	mg/L				0.022	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Lead	0.046	mg/L				0.00018	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Magnesium	510	mg/L				0.011	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Magnesium	520	mg/L				0.011	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Manganese	0.14	mg/L				0.00025	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Manganese	0.68	mg/L				0.00025	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Molybdenum	0.014	mg/L				0.00014	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Molybdenum	0.0093	mg/L				0.00014	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Nickel	0.086	mg/L				0.0013	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Nickel	0.16	mg/L				0.0013	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Potassium	25	mg/L				0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Selenium	0.007	mg/L				0.0007	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Selenium	0.0035	mg/L		B		0.0007	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Sodium	140	mg/L				0.092	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Sodium	130	mg/L				0.092	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Thallium	0.00027	mg/L		B		0.00005	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	WDPZ08-03-06	METAL	Uranium	0.0082	mg/L				0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Uranium	0.0097	mg/L				0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Vanadium	0.0023	mg/L		B		0.0011	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Vanadium	0.079	mg/L				0.0011	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-03-06	METAL	Zinc	0.0083	mg/L		B		0.0045	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-04-06	METAL	Zinc	0.16	mg/L				0.0045	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-09-06	RADS	Alpha activity	38.3	pCi/L	11.7		=	18.3	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-09-06	RADS	Americium-241	0.0347	pCi/L	0.0165	U	U	0.061	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-09-06	RADS	Beta activity	-2.08	pCi/L	5.87	U	UJ	16.3	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-09-06	RADS	Neptunium-237	0.00477	pCi/L	0.00675	U	U	0.0365	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-09-06	RADS	Plutonium-238	-0.00708	pCi/L	-0.0123	U	U	0.0871	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-09-06	RADS	Plutonium-239/240	0.00708	pCi/L	0.0158	U	U	0.0871	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-09-06	RADS	Technetium-99	3.8	pCi/L	1.68	U	U	5.48	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-09-06	RADS	Uranium-233/234	8.33	pCi/L	0.242		=	0.0537	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-09-06	RADS	Uranium-235	0.156	pCi/L	0.0388	J	J	0.083	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-09-06	RADS	Uranium-238	2.99	pCi/L	0.145		=	0.0535	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	WDPZ08-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Bis(2-ethylhexyl)phthalate	2.6	ug/L		BJ		0.67	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-05-06	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Bromodichloromethane	0.65	ug/L		J		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Chloroform	1.1	ug/L				0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Dibromochloromethane	0.53	ug/L		J		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Methylene chloride	0.45	ug/L		BJ		0.32	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	WDPZ08-01-06	WETCHEM	Alkalinity	810	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-01-06	WETCHEM	Alkalinity as HCO3	810	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	WDPZ08-02-06	WETCHEM	Ammonium Nitrogen	0.12	mg/L				0.1	WATER	WG	REG	BP	4/10/2012
WD-PZ08C	QW101	ANION	Chloride	57000	ug/L				510	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW101	ANION	Fluoride	270	ug/L		B		120	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW101	ANION	Nitrate	2600	ug/L				84	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW101	ANION	Nitrite as Nitrogen	930	ug/L		B		98	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW101	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW101	ANION	Sulfate	2800000	ug/L				23000	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW108	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	HERB	2,4,5-T	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	HERB	2,4-D	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	HERB	2,4-DB	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	HERB	Dalapon	1.39	ug/L		U		1.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	HERB	Dicamba	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	HERB	Dichloroprop	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	HERB	Dinoseb	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	HERB	MCPA	12.2	ug/L		U		12.2	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	HERB	MCPP	11.1	ug/L		U		11.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	HERB	Silvex	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	2,4'-DDD	0.00588	ug/L		U		0.00588	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	2,4'-DDD	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	2,4'-DDE	0.00706	ug/L		U		0.00706	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	2,4'-DDE	0.00667	ug/L		JU		0.00667	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	2,4'-DDT	0.00588	ug/L		U		0.00588	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	2,4'-DDT	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	4,4'-DDD	0.0118	ug/L		U		0.0118	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	4,4'-DDD	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	4,4'-DDE	0.0118	ug/L		U		0.0118	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	4,4'-DDE	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	4,4'-DDT	0.0118	ug/L		U		0.0118	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	4,4'-DDT	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Aldrin	0.00782	ug/L		U		0.00782	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Aldrin	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	alpha-BHC	0.00782	ug/L		U		0.00782	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	alpha-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	alpha-Chlordane	0.00782	ug/L		U		0.00782	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	alpha-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	beta-BHC	0.00782	ug/L		U		0.00782	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	beta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Chlordane	0.09	ug/L		U		0.09	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Chlordane	0.085	ug/L		JU		0.085	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	delta-BHC	0.00782	ug/L		U		0.00782	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	QW105	PPCB	delta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Dieldrin	0.0118	ug/L		U		0.0118	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Dieldrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endosulfan I	0.00782	ug/L		U		0.00782	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endosulfan I	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endosulfan II	0.0118	ug/L		U		0.0118	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endosulfan II	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endosulfan sulfate	0.0118	ug/L		U		0.0118	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endosulfan sulfate	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endrin	0.0118	ug/L		U		0.0118	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endrin aldehyde	0.00782	ug/L		U		0.00782	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endrin aldehyde	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endrin ketone	0.0118	ug/L		U		0.0118	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Endrin ketone	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	gamma-Chlordane	0.00941	ug/L		J		0.00782	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	gamma-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Heptachlor	0.00782	ug/L		U		0.00782	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Heptachlor	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Heptachlor epoxide	0.00782	ug/L		U		0.00782	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Heptachlor epoxide	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Kepone	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Lindane	0.00782	ug/L		U		0.00782	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Lindane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Methoxychlor	0.0588	ug/L		U		0.0588	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Methoxychlor	0.0556	ug/L		JU		0.0556	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	PCB-1016	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	PCB-1221	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	PCB-1232	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	PCB-1242	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	PCB-1248	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	PCB-1254	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	PCB-1260	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	PCB-1268	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Polychlorinated biphenyl	0.034	ug/L		U		0.034	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Toxaphene	0.176	ug/L		U		0.176	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	PPCB	Toxaphene	0.167	ug/L		JU		0.167	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Americium-241	0.0517	pCi/L	0.143	U		0.247	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Neptunium-237	0.0128	pCi/L	0.025	U		0.0433	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Plutonium-238	0.0369	pCi/L	0.0305	U		0.0409	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Plutonium-239/240	-0.00284	pCi/L	0.0261	U		0.0481	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Technetium-99	-0.345	pCi/L	0.332	U		0.598	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Thorium-228	8.46	pCi/L	0.68			0.262	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Thorium-230	4.52	pCi/L	0.49			0.178	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Thorium-232	6.38	pCi/L	0.577			0.15	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Uranium-233/234	14.6	pCi/L	0.438			0.043	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Uranium-235/236	0.364	pCi/L	0.0795			0.0405	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW107	RADS	Uranium-238	5.56	pCi/L	0.271			0.0262	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	1,2,4-Trichlorobenzene	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	1,2-Dichlorobenzene	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	1,3-Dichlorobenzene	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	1,4-Dichlorobenzene	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2,4,5-Trichlorophenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2,4,6-Trichlorophenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2,4-Dichlorophenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2,4-Dimethylphenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2,4-Dinitrophenol	5.65	ug/L		U		5.65	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2,4-Dinitrotoluene	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2,6-Dinitrotoluene	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2-Chloronaphthalene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	QW105	SVOA	2-Chlorophenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2-Methyl-4,6-dinitrophenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2-Methylnaphthalene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2-Methylphenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2-Nitrobenzenamine	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	2-Nitrophenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	3,3'-Dichlorobenzidine	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	3-Nitrobenzenamine	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	4-Aminobiphenyl	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	4-Bromophenyl phenyl ether	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	4-Chloro-3-methylphenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	4-Chlorobenzenamine	3.73	ug/L		U		3.73	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	4-Chlorophenyl phenyl ether	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	4-Nitrobenzenamine	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	4-Nitrophenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Acenaphthene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Acenaphthylene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Acetophenone	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Anthracene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Benz(a)anthracene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Benzenemethanol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Benzo(a)pyrene	0.497	ug/L		U		0.497	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Benzo(b)fluoranthene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Benzo(ghi)perylene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Benzo(k)fluoranthene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Benzoic acid	6.78	ug/L		U		6.78	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Bis(2-chloroethoxy)methane	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Bis(2-chloroethyl) ether	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	bis(2-Chloroisopropyl)ether	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Bis(2-ethylhexyl)phthalate	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Butyl benzyl phthalate	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Chrysene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Dibenz(a,h)anthracene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Dibenzofuran	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Diethyl phthalate	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Dimethyl phthalate	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Di-n-butyl phthalate	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Di-n-octylphthalate	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Diphenylamine	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Fluoranthene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Fluorene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Hexachlorobenzene	0.00735	ug/L		U		0.00735	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Hexachlorobenzene	0.00694	ug/L		JU		0.00694	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Hexachlorobutadiene	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Hexachlorocyclopentadiene	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Hexachloroethane	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Indeno(1,2,3-cd)pyrene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Isophorone	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	m+p Methylphenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Naphthalene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Nitrobenzene	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	N-Nitrosodimethylamine	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	N-Nitroso-di-n-propylamine	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	N-Nitrosomorpholine	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	O,O,O-Triethylphosphorothioate	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Pentachlorophenol	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Phenanthrene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Phenol	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Pyrene	0.339	ug/L		U		0.339	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	SVOA	Pyridine	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	QW106	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW105	VOA	1,4-Dioxane	3.39	ug/L		U		3.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW106	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW101	WETCHEM	Alkalinity	770	mg/L				1.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW101	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW101	WETCHEM	Alkalinity as HCO3	770	mg/L				1.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW102	WETCHEM	Ammonium Nitrogen	1.1	mg/L				0.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW101	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW109	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	9/19/2012
WD-PZ08C	QW104R	METAL	Aluminum	190	mg/L				0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Arsenic	0.32	mg/L				0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Barium	0.72	mg/L				0.0029	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Beryllium	0.013	mg/L				0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Cadmium	0.0015	mg/L		B		0.0005	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	QW104R	METAL	Calcium	270	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Chromium	0.33	mg/L				0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Chromium, trivalent	0.33	mg/L				0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Cobalt	0.35	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Copper	0.54	mg/L				0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Iron	450	mg/L				0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Lead	0.28	mg/L				0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Lithium	1.2	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Magnesium	620	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Manganese	5.2	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Mercury	0.00025	mg/L				0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Nickel	0.71	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Potassium	48	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Selenium	0.018	mg/L		B		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Silver	0.00053	mg/L		B		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Sodium	270	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Strontium	7.6	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Thallium	0.0013	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Tin	0.0066	mg/L		B		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Titanium	0.45	mg/L				0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Uranium	0.024	mg/L				0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Vanadium	0.38	mg/L				0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW104R	METAL	Zinc	1.2	mg/L				0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW266	WETCHEM	Chromium, hexavalent	0.0069	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW267	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ08C	QW380	ANION	Chloride	57000	ug/L				510	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW380	ANION	Fluoride	420	ug/L		B		120	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW380	ANION	Nitrate	4200	ug/L				84	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW380	ANION	Nitrite as Nitrogen	560	ug/L		B		98	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW380	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW380	ANION	Sulfate	2600000	ug/L				23000	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0768	ng/L		J		2.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW387	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	2,4,5-T	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	2,4,5-T	0.0865	ug/L		JU		0.0865	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	2,4-D	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	2,4-D	0.0865	ug/L		JU		0.0865	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	2,4-DB	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	2,4-DB	0.0865	ug/L		JU		0.0865	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	Dalapon	1.45	ug/L		U		1.45	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	Dalapon	1.3	ug/L		JU		1.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	Dicamba	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	Dicamba	0.0865	ug/L		JU		0.0865	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	Dichloroprop	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	Dichloroprop	0.0865	ug/L		JU		0.0865	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	QW384	HERB	Dinoseb	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	Dinoseb	0.0865	ug/L		JU		0.0865	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	MCPA	12.8	ug/L		U		12.8	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	MCPA	11.5	ug/L		JU		11.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	MCPP	11.6	ug/L		U		11.6	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	MCPP	10.4	ug/L		JU		10.4	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	Silvex	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	HERB	Silvex	0.0865	ug/L		JU		0.0865	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Aluminum	46	mg/L				0.018	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Antimony	0.0033	mg/L				0.0004	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Arsenic	0.045	mg/L				0.0017	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Barium	0.08	mg/L				0.00029	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Beryllium	0.0018	mg/L				0.00008	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Cadmium	0.00047	mg/L		B		0.0001	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Calcium	240	mg/L				0.035	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Chromium	0.039	mg/L				0.0025	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Chromium, trivalent	0.2	mg/L		U		0.2	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Cobalt	0.096	mg/L				0.00027	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Copper	0.077	mg/L				0.0028	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Iron	100	mg/L				0.022	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Lead	0.043	mg/L				0.00018	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Lithium	0.43	mg/L				0.0026	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Magnesium	610	mg/L				0.011	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Manganese	1	mg/L				0.0016	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Mercury	0.000057	mg/L		B		0.000027	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Nickel	0.18	mg/L				0.0015	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Potassium	32	mg/L				0.24	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Selenium	0.0078	mg/L		B		0.0035	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Silver	0.000084	mg/L		B		0.000033	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Sodium	250	mg/L				0.092	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Strontium	7.4	mg/L				0.0003	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Thallium	0.0002	mg/L		B		0.00005	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Titanium	0.51	mg/L				0.0006	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Uranium	0.015	mg/L				0.00005	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Vanadium	0.06	mg/L				0.0025	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW383	METAL	Zinc	0.17	mg/L				0.01	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	2,4'-DDD	0.00526	ug/L		U		0.00526	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	2,4'-DDE	0.00632	ug/L		U		0.00632	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	2,4'-DDT	0.00526	ug/L		U		0.00526	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	4,4'-DDD	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	4,4'-DDE	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	4,4'-DDT	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Aldrin	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	alpha-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	alpha-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	beta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Chlordane	0.0805	ug/L		U		0.0805	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	delta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Dieldrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Endosulfan I	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Endosulfan II	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Endosulfan sulfate	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Endrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Endrin aldehyde	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Endrin ketone	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	gamma-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Heptachlor	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Heptachlor epoxide	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	QW384	PPCB	Lindane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Methoxychlor	0.0526	ug/L		U		0.0526	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	PPCB	Toxaphene	0.158	ug/L		U		0.158	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	QW384	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Hexachlorobenzene	0.00658	ug/L		U		0.00658	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Pentachlorophenol	0.0581	ug/L		U		0.0581	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Pentachlorophenol	0.0521	ug/L		JU		0.0521	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW384	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	QW385	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW385	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW380	WETCHEM	Alkalinity	790	mg/L				1.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW380	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW380	WETCHEM	Alkalinity as HCO3	790	mg/L				1.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW381	WETCHEM	Ammonium Nitrogen	0.49	mg/L				0.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW390	WETCHEM	Chromium, hexavalent	0.26	mg/L		J		0.04	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW388	WETCHEM	Cyanide	0.0025	mg/L		B		0.002	WATER	WG	REG	BAI	12/4/2012
WD-PZ08C	QW386	RADS	Americium-241	-0.00637	pCi/L	0.0181	U		0.0376	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	QW386	RADS	Neptunium-237	0.0156	pCi/L	0.0143	U		0.0187	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	QW386	RADS	Plutonium-238	0	pCi/L	0.00823	U		0.00891	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	QW386	RADS	Plutonium-239/240	0	pCi/L	0.00823	U		0.00891	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	QW386	RADS	Technetium-99	-0.388	pCi/L	0.441	U		0.782	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	QW386	RADS	Thorium-228	0.0229	pCi/L	0.016			0.0186	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	QW386	RADS	Thorium-230	0.0325	pCi/L	0.0197			0.0243	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	QW386	RADS	Thorium-232	0.00898	pCi/L	0.00982			0.00883	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	QW386	RADS	Uranium-233/234	16.4	pCi/L	0.407			0.0441	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	QW386	RADS	Uranium-235/236	0.265	pCi/L	0.0588			0.0247	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	QW386	RADS	Uranium-238	5.27	pCi/L	0.23			0.00785	WATER	WG	REG	BAI	12/5/2012
WD-PZ08C	DC516	HERB	2,4,5-T	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	HERB	2,4-D	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	HERB	2,4-DB	0.106	ug/L		U		0.106	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	HERB	Dalapon	1.33	ug/L		U		1.33	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	HERB	Dicamba	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	HERB	Dichloroprop	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	HERB	Dinoseb	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	HERB	MCPA	11.7	ug/L		U		11.7	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	HERB	MCPP	10.6	ug/L		U		10.6	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	HERB	Silvex	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	2,4'-DDD	0.0051	ug/L		U		0.0051	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	2,4'-DDE	0.00612	ug/L		U		0.00612	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	2,4'-DDT	0.0051	ug/L		U		0.0051	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	4,4'-DDD	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	4,4'-DDE	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	4,4'-DDT	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Aldrin	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	alpha-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	alpha-Chlordane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	beta-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Chlordane	0.0781	ug/L		U		0.0781	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	delta-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Dieldrin	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Endosulfan I	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Endosulfan II	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Endosulfan sulfate	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Endrin	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Endrin aldehyde	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Endrin ketone	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	gamma-Chlordane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Heptachlor	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ08C	DC516	PPCB	Heptachlor epoxide	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Lindane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Methoxychlor	0.051	ug/L		U		0.051	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	PPCB	Toxaphene	0.153	ug/L		U		0.153	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	SVOA	Hexachlorobenzene	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC516	SVOA	Pentachlorophenol	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Acetone	4.6	ug/L		J		1.9	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Bromodichloromethane	0.98	ug/L		J		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Chloroform	2.3	ug/L				0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Dibromochloromethane	0.57	ug/L		J		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/24/2013
WD-PZ08C	DC519	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ09C	WDPZ09-01-02	ANION	Chloride	21	mg/L			XV	0.25	WATER	WG	REG	BP	11/22/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-01-02	ANION	Fluoride	0.56	mg/L			XV	0.06	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-01-02	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-01-02	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-01-02	ANION	Sulfate	990	mg/L			XV	12	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Aluminum	18	ug/L		U	XV	18	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Aluminum	1.7	mg/L			XV	0.018	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Antimony	3.1	ug/L		U	XV	3.1	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Arsenic	1.4	ug/L		B	XV	0.33	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Arsenic	0.0065	mg/L			XV	0.00033	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Barium	120	ug/L			XV	0.58	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Barium	0.14	mg/L			XV	0.00058	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Beryllium	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Cadmium	0.04	ug/L		U	XV	0.04	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Calcium	140000	ug/L			XV	35	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Calcium	140	mg/L			XV	0.035	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Chromium	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Chromium	0.0029	mg/L		B	XV	0.00066	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Cobalt	4.7	ug/L		B	XV	1.2	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Cobalt	0.0049	mg/L		B	XV	0.0012	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Copper	1.8	ug/L		B	XV	1.4	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Copper	0.0035	mg/L		B	XV	0.0014	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Iron	280	ug/L			XV	22	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Iron	3.8	mg/L			XV	0.022	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Lead	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Lead	0.0032	mg/L			XV	0.00018	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Magnesium	130000	ug/L			XV	11	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Magnesium	120	mg/L			XV	0.011	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Manganese	89	ug/L			XV	0.25	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Manganese	0.12	mg/L			XV	0.00025	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Mercury	0.073	ug/L		B	XV	0.027	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Mercury	0.000077	mg/L		B	XV	0.000027	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Molybdenum	6.6	ug/L			XV	0.14	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Molybdenum	0.0063	mg/L			XV	0.00014	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Nickel	15	ug/L		B	XV	1.3	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Nickel	0.018	mg/L		B	XV	0.0013	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Potassium	20000	ug/L			XV	240	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Potassium	20	mg/L			XV	0.24	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Selenium	1.2	ug/L		B	XV	0.7	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Selenium	0.0012	mg/L		B	XV	0.0007	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Silver	0.93	ug/L		U	XV	0.93	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Sodium	320000	ug/L			XV	92	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Sodium	320	mg/L			XV	0.092	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Thallium	0.033	ug/L		U	XV	0.033	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Uranium	0.93	ug/L		B	XV	0.02	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Uranium	0.00096	mg/L		B	XV	0.00002	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Vanadium	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Vanadium	0.0047	mg/L		B	XV	0.0011	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-03-02	METAL	Zinc	5.3	ug/L		B	XV	4.5	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-04-02	METAL	Zinc	0.01	mg/L		B	XV	0.0045	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	PPCB	PCB-1221	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	PPCB	PCB-1248	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/22/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-05-02	PPCB	PCB-1260	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	PPCB	Polychlorinated biphenyl	0.095	ug/L		U	XV	0.095	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-09-02	RADS	Alpha activity	5.13	pCi/L	2.56	U	XV	15.8	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-09-02	RADS	Americium-241	0.0353	pCi/L	0.0182	U	XV	0.0726	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-09-02	RADS	Beta activity	-0.705	pCi/L	1.7	U	XV	10.2	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-09-02	RADS	Neptunium-237	-0.00415	pCi/L	0.00718	U	XV	0.051	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-09-02	RADS	Plutonium-238	0	pCi/L	0.00638	U	XV	0.0345	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-09-02	RADS	Plutonium-239/240	0.0631	pCi/L	0.018	J	XV	0.0431	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-09-02	RADS	Technetium-99	-0.0114	pCi/L	1.66	U	XV	5.57	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-09-02	RADS	Uranium-233/234	1.54	pCi/L	0.083		XV	0.0427	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-09-02	RADS	Uranium-235	0.0441	pCi/L	0.0165	U	XV	0.0421	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-09-02	RADS	Uranium-238	0.6	pCi/L	0.0518		XV	0.034	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2,4,6-Trichlorophenol	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2,4-Dichlorophenol	0.74	ug/L		U	XV	0.74	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2,4-Dimethylphenol	0.67	ug/L		U	XV	0.67	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U	XV	4.6	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2-Methylnaphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	2-Nitrophenol	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	4-Bromophenyl phenyl ether	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Acenaphthene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Acenaphthylene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Anthracene	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Benz(a)anthracene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Benzo(a)pyrene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Benzo(b)fluoranthene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Benzo(ghi)perylene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Benzo(k)fluoranthene	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.64	ug/L		U	XV	0.64	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Chrysene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Dibenzofuran	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Diethyl phthalate	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Dimethyl phthalate	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Di-n-butyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Di-n-octylphthalate	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Fluorene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	11/22/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-05-02	SVOA	Hexachlorobenzene	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Hexachlorobutadiene	3.8	ug/L		U	XV	3.8	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Hexachloroethane	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Isophorone	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Naphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Nitrobenzene	0.93	ug/L		U	XV	0.93	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-05-02	SVOA	Pyrene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	1,2-Dimethylbenzene	0.69	ug/L		J	XV	0.19	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Acetone	6.5	ug/L		J	XV	1.9	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Benzene	1.1	ug/L			XV	0.16	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Ethylbenzene	0.4	ug/L		J	XV	0.16	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	M + P Xylene	1.5	ug/L		J	XV	0.34	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Methylene chloride	0.34	ug/L		BJ	XV	0.32	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Toluene	1.5	ug/L			XV	0.17	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-01-02	WETCHEM	Alkalinity	570	mg/L			XV	1.1	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-01-02	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-01-02	WETCHEM	Alkalinity as HCO3	570	mg/L			XV	1.1	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-02-02	WETCHEM	Ammonium Nitrogen	3.7	mg/L			XV	0.1	WATER	WG	REG	BP	11/22/2011
WD-PZ09C	WDPZ09-01-03	ANION	Chloride	22	mg/L			XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-01-03	ANION	Fluoride	0.15	mg/L		B	XV	0.06	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-01-03	ANION	Nitrate	0.042	mg/L		U	XV	0.042	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-01-03	ANION	Sulfate	930	mg/L			XV	4.6	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Aluminum	1.6	mg/L			XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-04-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Arsenic	0.0014	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Arsenic	0.0054	mg/L			XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Barium	0.073	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Barium	0.09	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Calcium	150	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Calcium	140	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Chromium	0.0027	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Cobalt	0.012	mg/L			XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Cobalt	0.021	mg/L			XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Copper	0.0078	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Iron	2	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Iron	5.7	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Lead	0.003	mg/L			XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Magnesium	150	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Magnesium	140	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Manganese	0.15	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Manganese	0.2	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Molybdenum	0.0019	mg/L		B	XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Molybdenum	0.0021	mg/L			XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Nickel	0.024	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Nickel	0.043	mg/L			XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Potassium	17	mg/L			XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Potassium	18	mg/L			XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Sodium	250	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Sodium	220	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Thallium	0.000033	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Uranium	0.00061	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Uranium	0.0011	mg/L			XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Vanadium	0.0011	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Vanadium	0.0057	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-03-03	METAL	Zinc	0.0045	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-04-03	METAL	Zinc	0.019	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	PPCB	PCB-1221	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	PPCB	PCB-1232	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	PPCB	PCB-1242	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	PPCB	Polychlorinated biphenyl	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-09-03	RADS	Alpha activity	1.66	pCi/L	2.09	U	XV	14.4	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-09-03	RADS	Americium-241	0.0282	pCi/L	0.0133	U	XV	0.0449	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-09-03	RADS	Beta activity	12.9	pCi/L	1.16			3.58	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-09-03	RADS	Neptunium-237	-0.0048	pCi/L	0.00678	U	XV	0.0459	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-09-03	RADS	Plutonium-238	-0.0102	pCi/L	-0.00883	U		0.0627	WATER	WG	REG	BP	12/13/2011

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-09-03	RADS	Plutonium-239/240	0.0255	pCi/L	0.0125	U		0.039	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-09-03	RADS	Technetium-99	1.22	pCi/L	1.66	U	XV	5.52	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-09-03	RADS	Uranium-233/234	1.42	pCi/L	0.0863			0.04	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-09-03	RADS	Uranium-235	0.0323	pCi/L	0.0158	U		0.0494	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-09-03	RADS	Uranium-238	0.292	pCi/L	0.0393	J		0.0399	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2,4-Dichlorophenol	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2,4-Dimethylphenol	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U	XV	4.7	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2-Methylnaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	2-Nitrophenol	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Acenaphthene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Acenaphthylene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Anthracene	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Benz(a)anthracene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Benzo(a)pyrene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Benzo(ghi)perylene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Chrysene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Dibenzofuran	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Diethyl phthalate	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Dimethyl phthalate	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Di-n-octylphthalate	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Fluorene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Hexachlorobenzene	0.77	ug/L		U	XV	0.77	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Hexachlorobutadiene	3.9	ug/L		U	XV	3.9	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Hexachloroethane	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Isophorone	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Naphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-05-03	SVOA	Nitrobenzene	0.95	ug/L		U	XV	0.95	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-05-03	SVOA	Pyrene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	1,2-Dimethylbenzene	0.63	ug/L		J	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Benzene	1.9	ug/L			XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Ethylbenzene	0.3	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	M + P Xylene	0.96	ug/L		J	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Methylene chloride	0.4	ug/L		BJ	XV	0.32	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Toluene	1.8	ug/L			XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-01-03	WETCHEM	Alkalinity	500	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-01-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-01-03	WETCHEM	Alkalinity as HCO3	500	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-02-03	WETCHEM	Ammonium Nitrogen	2.7	mg/L				0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ09C	WDPZ09-01-04	ANION	Chloride	24	mg/L				0.25	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-01-04	ANION	Fluoride	0.22	mg/L		B		0.06	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-01-04	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-01-04	ANION	Orthophosphate	0.19	mg/L		JU		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-01-04	ANION	Sulfate	920	mg/L				4.6	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Aluminum	1.5	mg/L				0.018	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Arsenic	0.0012	mg/L		B		0.00033	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Arsenic	0.0042	mg/L		B		0.00033	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Barium	0.1	mg/L				0.00058	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Barium	0.11	mg/L				0.00058	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/16/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-03-04	METAL	Cadmium	0.000042	mg/L		B		0.00004	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Cadmium	0.000061	mg/L		B		0.00004	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Chromium	0.0028	mg/L		B		0.00066	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Cobalt	0.012	mg/L				0.0012	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Cobalt	0.014	mg/L				0.0012	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Copper	0.0058	mg/L		B		0.0014	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Copper	0.0079	mg/L		B		0.0014	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Iron	0.36	mg/L				0.022	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Iron	3.8	mg/L				0.022	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Lead	0.0047	mg/L				0.00018	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Magnesium	120	mg/L				0.011	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Magnesium	120	mg/L				0.011	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Manganese	0.14	mg/L				0.00025	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Manganese	0.17	mg/L				0.00025	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Molybdenum	0.0024	mg/L				0.00014	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Molybdenum	0.0026	mg/L				0.00014	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Nickel	0.029	mg/L		B		0.0013	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Nickel	0.034	mg/L		B		0.0013	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Potassium	17	mg/L				0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Potassium	18	mg/L				0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Selenium	0.0026	mg/L		B		0.0007	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Selenium	0.0029	mg/L		B		0.0007	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Sodium	250	mg/L				0.092	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Sodium	250	mg/L				0.092	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Thallium	0.000048	mg/L		B		0.000033	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Uranium	0.0011	mg/L				0.00002	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Uranium	0.0013	mg/L				0.00002	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Vanadium	0.0014	mg/L		B		0.0011	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Vanadium	0.0053	mg/L		B		0.0011	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-03-04	METAL	Zinc	0.0049	mg/L		B		0.0045	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-04-04	METAL	Zinc	0.011	mg/L		B		0.0045	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	PPCB	PCB-1254	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	PPCB	PCB-1260	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-09-04	RADS	Alpha activity	10.1	pCi/L	4.27	U		11.1	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-09-04	RADS	Americium-241	0.0214	pCi/L	0.0142	U		0.0615	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-09-04	RADS	Beta activity	9.92	pCi/L	4.52	U		13.9	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-09-04	RADS	Neptunium-237	0	pCi/L	0.00657	U		0.0355	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-09-04	RADS	Plutonium-238	0	pCi/L	0.01	U		0.0678	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-09-04	RADS	Plutonium-239/240	0.0283	pCi/L	0.0158	U		0.0541	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-09-04	RADS	Technetium-99	1.7	pCi/L	1.7	U		5.63	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-09-04	RADS	Uranium-233/234	1.45	pCi/L	0.0843			0.0374	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-09-04	RADS	Uranium-235	0.0121	pCi/L	0.0104	U		0.0462	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-09-04	RADS	Uranium-238	0.506	pCi/L	0.0511			0.0701	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	1,2,4-Trichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	1,2-Dichlorobenzene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-05-04	SVOA	1,3-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	1,4-Dichlorobenzene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2,4,5-Trichlorophenol	0.59	ug/L		U		0.59	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2,4,6-Trichlorophenol	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2,4-Dichlorophenol	0.84	ug/L		U		0.84	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2,4-Dimethylphenol	0.76	ug/L		U		0.76	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2,4-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2,6-Dinitrotoluene	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2-Chloronaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2-Chlorophenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2-Methyl-4,6-dinitrophenol	5.3	ug/L		U		5.3	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2-Methylnaphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2-Methylphenol	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	2-Nitrophenol	0.51	ug/L		U		0.51	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	3-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	4-Bromophenyl phenyl ether	0.57	ug/L		U		0.57	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	4-Chloro-3-methylphenol	3.2	ug/L		U		3.2	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	4-Chlorophenyl phenyl ether	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	4-Methylphenol	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	4-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Acenaphthene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Acenaphthylene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Anthracene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Benz(a)anthracene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Benzo(a)pyrene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Benzo(b)fluoranthene	0.7	ug/L		U		0.7	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Benzo(ghi)perylene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Benzo(k)fluoranthene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Bis(2-chloroethoxy)methane	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Bis(2-ethylhexyl)phthalate	3.2	ug/L		BJ		0.74	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Chrysene	0.71	ug/L		U		0.71	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Dibenz(a,h)anthracene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Dibenzofuran	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Diethyl phthalate	0.5	ug/L		U		0.5	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Dimethyl phthalate	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Di-n-octylphthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Fluoranthene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Fluorene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Hexachlorobenzene	0.87	ug/L		U		0.87	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Hexachlorobutadiene	4.3	ug/L		U		4.3	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Hexachlorocyclopentadiene	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Hexachloroethane	2.8	ug/L		U		2.8	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.86	ug/L		U		0.86	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Isophorone	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Naphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Nitrobenzene	1.1	ug/L		U		1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	N-Nitroso-di-n-propylamine	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	N-Nitrosodiphenylamine	0.58	ug/L		U		0.58	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Pentachlorophenol	26	ug/L		U		26	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Phenanthrene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Phenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-05-04	SVOA	Pyrene	0.49	ug/L		U		0.49	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Acetone	110	ug/L				1.9	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Benzene	0.68	ug/L		J		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Bromodichloromethane	0.19	ug/L		J		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Chloroform	0.35	ug/L		J		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Dibromochloromethane	0.23	ug/L		J		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Methylene chloride	0.51	ug/L		BJ		0.32	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Toluene	0.49	ug/L		J		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-01-04	WETCHEM	Alkalinity	470	mg/L				1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-01-04	WETCHEM	Alkalinity as HCO3	470	mg/L				1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-02-04	WETCHEM	Ammonium Nitrogen	3.4	mg/L				0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ09C	WDPZ09-01-05	ANION	Chloride	30	mg/L				0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-01-05	ANION	Fluoride	0.19	mg/L		B		0.06	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-01-05	ANION	Nitrate	1.7	mg/L				0.042	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-01-05	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-01-05	ANION	Sulfate	980	mg/L				12	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Aluminum	0.35	mg/L				0.018	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Arsenic	0.001	mg/L		B		0.00033	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Arsenic	0.0036	mg/L		B		0.00033	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Barium	0.11	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Barium	0.096	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Cadmium	0.00012	mg/L		B		0.00004	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Calcium	150	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Chromium	0.0012	mg/L		B		0.00066	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Cobalt	0.0085	mg/L		B		0.0012	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-04-05	METAL	Cobalt	0.0062	mg/L		B		0.0012	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Copper	0.003	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Copper	0.0019	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Iron	0.11	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Iron	1.9	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Lead	0.0017	mg/L				0.00018	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Magnesium	130	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Manganese	0.13	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Manganese	0.12	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Molybdenum	0.0025	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Molybdenum	0.0027	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Nickel	0.023	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Nickel	0.017	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Potassium	18	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Potassium	18	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Selenium	0.0028	mg/L		B		0.0007	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Selenium	0.0018	mg/L		B		0.0007	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Sodium	280	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Sodium	310	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Uranium	0.0013	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Uranium	0.0009	mg/L		B		0.00002	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Vanadium	0.0017	mg/L		B		0.0011	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-03-05	METAL	Zinc	0.0055	mg/L		B		0.0045	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-04-05	METAL	Zinc	0.0055	mg/L		B		0.0045	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-09-05	RADS	Alpha activity	-0.275	pCi/L	4.62	U		20.1	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-09-05	RADS	Americium-241	0.045	pCi/L	0.0149	U		0.0344	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-09-05	RADS	Beta activity	24.2	pCi/L	8.69	U		19.1	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-09-05	RADS	Neptunium-237	0.00938	pCi/L	0.00812	U		0.0359	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-09-05	RADS	Plutonium-238	0	pCi/L	0.00742	U		0.0401	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-09-05	RADS	Plutonium-239/240	0.00524	pCi/L	0.00741	U		0.0401	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-09-05	RADS	Technetium-99	-0.983	pCi/L	1.64	U		5.55	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-09-05	RADS	Uranium-233/234	1.81	pCi/L	0.0934			0.0369	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-09-05	RADS	Uranium-235	0.0178	pCi/L	0.0119	U		0.0455	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-09-05	RADS	Uranium-238	0.513	pCi/L	0.0498			0.0367	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2,4-Dichlorophenol	0.76	ug/L		U		0.76	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2,4-Dimethylphenol	0.69	ug/L		U		0.69	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-05-05	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	2-Nitrophenol	0.46	ug/L		U		0.46	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Acenaphthylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		BJ		0.67	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Chrysene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.77	ug/L		U		0.77	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U		0.52	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-05-05	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-06-05	VOA	1,2-Dimethylbenzene	0.74	ug/L		J		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Benzene	5.9	ug/L				0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Ethylbenzene	0.35	ug/L		J		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	M + P Xylene	1.4	ug/L		J		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Methylene chloride	0.45	ug/L		BJ		0.32	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Toluene	4.5	ug/L				0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-01-05	WETCHEM	Alkalinity	440	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-01-05	WETCHEM	Alkalinity as HCO3	440	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-02-05	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ09C	WDPZ09-01-06	ANION	Chloride	27	mg/L				0.25	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-01-06	ANION	Fluoride	0.21	mg/L		B		0.06	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-01-06	ANION	Nitrate	1.3	mg/L				0.042	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-01-06	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-01-06	ANION	Sulfate	1100	mg/L				12	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Aluminum	0.28	mg/L				0.018	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Arsenic	0.00041	mg/L		B		0.00033	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Arsenic	0.0016	mg/L		B		0.00033	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Barium	0.078	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Barium	0.084	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Calcium	130	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Cobalt	0.0024	mg/L		B		0.0012	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Cobalt	0.0026	mg/L		B		0.0012	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Copper	0.0025	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Copper	0.0029	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Iron	0.14	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Iron	1.5	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Lead	0.0011	mg/L				0.00018	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-03-06	METAL	Magnesium	100	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Magnesium	99	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Manganese	0.099	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Manganese	0.11	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Mercury	0.00003	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Mercury	0.00003	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Molybdenum	0.0017	mg/L		B		0.00014	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Molybdenum	0.0017	mg/L		B		0.00014	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Nickel	0.0063	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Nickel	0.0071	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Selenium	0.0011	mg/L		B		0.0007	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Selenium	0.00089	mg/L		B		0.0007	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Sodium	370	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Sodium	380	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Uranium	0.00025	mg/L		B		0.00002	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Uranium	0.00024	mg/L		B		0.00002	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-04-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-09-06	RADS	Alpha activity	4	pCi/L	4.76	U	U	16	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-09-06	RADS	Americium-241	0.0274	pCi/L	0.0144	U	U	0.0562	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-09-06	RADS	Beta activity	7.1	pCi/L	6.33	U	U	16.3	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-09-06	RADS	Neptunium-237	0.00918	pCi/L	0.00795	U	U	0.0351	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-09-06	RADS	Plutonium-238	-0.00548	pCi/L	-0.00948	U	U	0.0673	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-09-06	RADS	Plutonium-239/240	0.0328	pCi/L	0.0173	U	U	0.0673	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-09-06	RADS	Technetium-99	-2.12	pCi/L	1.67	U	U	5.67	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-09-06	RADS	Uranium-233/234	0.23	pCi/L	0.035	J	J	0.04	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-09-06	RADS	Uranium-235	0	pCi/L	0.00912	U	U	0.0493	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-09-06	RADS	Uranium-238	0.109	pCi/L	0.0244	J	J	0.0398	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U		0.52	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2,4-Dichlorophenol	0.75	ug/L		U		0.75	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2,4-Dimethylphenol	0.68	ug/L		U		0.68	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U		4.7	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-05-06	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	2-Nitrophenol	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	4-Methylphenol	0.29	ug/L		U		0.29	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Acenaphthylene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Anthracene	0.49	ug/L		U		0.49	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Benz(a)anthracene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Benzo(a)pyrene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Benzo(ghi)perylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		BJ		0.65	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Chrysene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Diethyl phthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Di-n-octylphthalate	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Fluorene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Hexachlorobenzene	0.77	ug/L		U		0.77	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Hexachlorobutadiene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.76	ug/L		U		0.76	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Nitrobenzene	0.94	ug/L		U		0.94	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-05-06	SVOA	Pyrene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	1,2-Dimethylbenzene	0.39	ug/L		J		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Acetone	2.8	ug/L		J		1.9	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Benzene	4.1	ug/L				0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-01-06	WETCHEM	Alkalinity	550	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-01-06	WETCHEM	Alkalinity as HCO3	550	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-02-06	WETCHEM	Ammonium Nitrogen	3.8	mg/L				0.1	WATER	WG	REG	BP	3/19/2012
WD-PZ09C	WDPZ09-01-07	ANION	Chloride	27	mg/L				0.25	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-01-07	ANION	Fluoride	0.3	mg/L		B		0.06	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-01-07	ANION	Nitrate	1.5	mg/L				0.042	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-01-07	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-01-07	ANION	Sulfate	980	mg/L				12	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Aluminum	0.11	mg/L				0.018	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Arsenic	0.00033	mg/L		U		0.00033	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Arsenic	0.00045	mg/L		B		0.00033	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Barium	0.081	mg/L				0.00058	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Barium	0.083	mg/L				0.00058	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Cadmium	0.00017	mg/L		B		0.0001	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Cobalt	0.0025	mg/L		B		0.0012	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Cobalt	0.0025	mg/L		B		0.0012	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Copper	0.0023	mg/L		B		0.0014	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Copper	0.0042	mg/L		B		0.0014	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Iron	0.077	mg/L		B		0.022	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Iron	0.64	mg/L				0.022	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Lead	0.0005	mg/L		B		0.00018	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Magnesium	100	mg/L				0.011	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Manganese	0.17	mg/L				0.00025	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Manganese	0.17	mg/L				0.00025	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Molybdenum	0.0013	mg/L		B		0.00014	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-04-07	METAL	Molybdenum	0.0014	mg/L		B		0.00014	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Nickel	0.0071	mg/L		B		0.0013	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Nickel	0.0071	mg/L		B		0.0013	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Sodium	410	mg/L				0.092	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Sodium	410	mg/L				0.092	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Uranium	0.00017	mg/L		B		0.00005	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Uranium	0.00018	mg/L		B		0.00005	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Vanadium	0.0016	mg/L		B		0.0011	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-04-07	METAL	Zinc	0.0047	mg/L		B		0.0045	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-05-07	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-09-07	RADS	Alpha activity	7.99	pCi/L	4.93	U	U	12.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-09-07	RADS	Americium-241	0.0465	pCi/L	0.0164	U	U	0.052	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-09-07	RADS	Beta activity	12	pCi/L	3.91	U	J	8.29	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-09-07	RADS	Neptunium-237	0	pCi/L	0.00891	U	U	0.0482	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-09-07	RADS	Plutonium-238	0.00468	pCi/L	0.00662	U	U	0.0358	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-09-07	RADS	Plutonium-239/240	0.0374	pCi/L	0.014	U	U	0.0358	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-09-07	RADS	Technetium-99	-0.321	pCi/L	1.62	U	U	5.46	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-09-07	RADS	Uranium-233/234	0.222	pCi/L	0.0335	J	J	0.0378	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-09-07	RADS	Uranium-235	0.0122	pCi/L	0.0105	U	U	0.0466	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-09-07	RADS	Uranium-238	0.0639	pCi/L	0.019	U	UJ	0.0471	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	1,2,4-Trichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	1,2-Dichlorobenzene	0.3	ug/L		U		0.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	1,3-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	1,4-Dichlorobenzene	0.41	ug/L		U		0.41	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2,4,5-Trichlorophenol	0.58	ug/L		U		0.58	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U		0.37	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2,4-Dichlorophenol	0.82	ug/L		U		0.82	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2,4-Dimethylphenol	0.74	ug/L		U		0.74	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2-Chloronaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2-Chlorophenol	2.6	ug/L		U		2.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2-Methyl-4,6-dinitrophenol	5.1	ug/L		U		5.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2-Methylnaphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2-Methylphenol	1.3	ug/L		U		1.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	2-Nitrophenol	0.5	ug/L		U		0.5	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U		2.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	3-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	4-Bromophenyl phenyl ether	0.55	ug/L		U		0.55	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	4-Chloro-3-methylphenol	3.1	ug/L		U		3.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	GRA	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-05-07	SVOA	4-Methylphenol	0.32	ug/L		U		0.32	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	4-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Acenaphthene	0.36	ug/L		U		0.36	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Acenaphthylene	0.63	ug/L		U		0.63	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Anthracene	0.54	ug/L		U		0.54	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Benz(a)anthracene	0.45	ug/L		U		0.45	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Benzo(a)pyrene	0.4	ug/L		U		0.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Benzo(b)fluoranthene	0.68	ug/L		U		0.68	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Benzo(ghi)perylene	0.64	ug/L		U		0.64	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Benzo(k)fluoranthene	0.59	ug/L		U		0.59	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.36	ug/L		U		0.36	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Bis(2-ethylhexyl)phthalate	2.8	ug/L		BJ		0.72	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Chrysene	0.69	ug/L		U		0.69	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Dibenz(a,h)anthracene	0.65	ug/L		U		0.65	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Dibenzofuran	0.37	ug/L		U		0.37	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Diethyl phthalate	0.49	ug/L		U		0.49	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Dimethyl phthalate	0.27	ug/L		U		0.27	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Di-n-octylphthalate	0.45	ug/L		U		0.45	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Fluoranthene	0.26	ug/L		U		0.26	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Fluorene	0.4	ug/L		U		0.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Hexachlorobenzene	0.85	ug/L		U		0.85	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Hexachlorobutadiene	4.2	ug/L		U		4.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Hexachlorocyclopentadiene	13	ug/L		U		13	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Hexachloroethane	2.7	ug/L		U		2.7	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.83	ug/L		U		0.83	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Isophorone	0.27	ug/L		U		0.27	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Naphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	N-Nitroso-di-n-propylamine	0.45	ug/L		U		0.45	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	N-Nitrosodiphenylamine	0.56	ug/L		U		0.56	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Pentachlorophenol	26	ug/L		U		26	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Phenanthrene	0.33	ug/L		U		0.33	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Phenol	2.6	ug/L		U		2.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-05-07	SVOA	Pyrene	0.48	ug/L		U		0.48	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Benzene	3.7	ug/L				0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	WDPZ09-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	WDPZ09-01-07	WETCHEM	Alkalinity	550	mg/L				1.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-01-07	WETCHEM	Alkalinity as HCO3	550	mg/L				1.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ09C	WDPZ09-02-07	WETCHEM	Ammonium Nitrogen	3.7	mg/L				0.1	WATER	WG	REG	BP	4/11/2012
WD-PZ09C	QW110	ANION	Chloride	21000	ug/L				250	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW110	ANION	Fluoride	280	ug/L		B		60	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW110	ANION	Nitrate	66	ug/L		B		42	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW110	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW110	ANION	Orthophosphate	340	ug/L		B		190	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW110	ANION	Sulfate	1000000	ug/L				12000	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW117	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Aluminum	0.43	mg/L				0.018	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Antimony	0.0015	mg/L		B		0.0004	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Antimony	0.0031	mg/L				0.0004	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Arsenic	0.00039	mg/L		B		0.00033	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Arsenic	0.0014	mg/L		B		0.00033	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Barium	0.041	mg/L				0.00029	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Barium	0.043	mg/L				0.00029	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Calcium	150	mg/L				0.035	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Chromium	0.00073	mg/L		B		0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Cobalt	0.0095	mg/L				0.000054	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Cobalt	0.011	mg/L				0.000054	WATER	WG	REG	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	QW112	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Copper	0.0014	mg/L		B		0.00056	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Iron	0.21	mg/L				0.022	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Iron	1.6	mg/L				0.022	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Lead	0.0011	mg/L				0.00018	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Lithium	0.11	mg/L				0.0026	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Lithium	0.11	mg/L				0.0026	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Magnesium	160	mg/L				0.011	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Magnesium	160	mg/L				0.011	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Manganese	0.16	mg/L				0.00031	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Manganese	0.17	mg/L				0.00031	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Nickel	0.017	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Nickel	0.02	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Sodium	250	mg/L				0.092	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Sodium	250	mg/L				0.092	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Strontium	4.4	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Strontium	4.5	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Thallium	0.0009	mg/L		B		0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Thallium	0.00083	mg/L		B		0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Titanium	0.0089	mg/L		B		0.0006	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Uranium	0.00088	mg/L		B		0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Uranium	0.00094	mg/L		B		0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Vanadium	0.0011	mg/L		B		0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW112	METAL	Zinc	6.9	mg/L				0.02	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW113	METAL	Zinc	7.3	mg/L				0.02	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Americium-241	0.00386	pCi/L	0.0131	U		0.0116	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Neptunium-237	0.00987	pCi/L	0.0265	U		0.0472	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Plutonium-238	0.00171	pCi/L	0.0138	U		0.0262	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Plutonium-239/240	0.00684	pCi/L	0.0125	U		0.021	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Technetium-99	0.483	pCi/L	0.489	U		0.817	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Thorium-228	0.148	pCi/L	0.0598			0.0587	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Thorium-230	0.105	pCi/L	0.0497			0.048	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Thorium-232	0.117	pCi/L	0.0478			0.019	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Uranium-233/234	0.919	pCi/L	0.221			0.12	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Uranium-235/236	0.016	pCi/L	0.045	U		0.048	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW116	RADS	Uranium-238	0.321	pCi/L	0.13			0.0621	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	QW115	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Acetone	6.9	ug/L		J		1.9	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW115	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW110	WETCHEM	Alkalinity	520	mg/L				1.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW110	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW110	WETCHEM	Alkalinity as HCO3	520	mg/L				1.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW111	WETCHEM	Ammonium Nitrogen	3.1	mg/L				0.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW110	WETCHEM	Chromium, hexavalent	0.0051	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW230	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW118	WETCHEM	Cyanide	0.0073	mg/L		B		0.002	WATER	WG	REG	BAI	9/25/2012
WD-PZ09C	QW114R	HERB	2,4,5-T	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	HERB	2,4-D	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	HERB	2,4-DB	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	HERB	Dalapon	1.25	ug/L		U		1.25	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	HERB	Dicamba	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	HERB	Dichloroprop	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	HERB	Dinoseb	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	HERB	MCPA	11	ug/L		U		11	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	HERB	MCPP	10	ug/L		U		10	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	HERB	Silvex	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	2,4'-DDD	0.00532	ug/L		U		0.00532	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	2,4'-DDE	0.00638	ug/L		U		0.00638	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	2,4'-DDT	0.00532	ug/L		U		0.00532	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	4,4'-DDD	0.0106	ug/L		U		0.0106	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	4,4'-DDE	0.0106	ug/L		U		0.0106	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	4,4'-DDT	0.0106	ug/L		U		0.0106	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Aldrin	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	QW114R	PPCB	alpha-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	alpha-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	beta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Chlordane	0.0814	ug/L		U		0.0814	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	delta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Dieldrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Endosulfan I	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Endosulfan II	0.0106	ug/L		U		0.0106	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Endosulfan sulfate	0.0106	ug/L		U		0.0106	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Endrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Endrin aldehyde	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Endrin ketone	0.0106	ug/L		U		0.0106	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	gamma-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Heptachlor	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Heptachlor epoxide	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Lindane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Methoxychlor	0.0532	ug/L		U		0.0532	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	PPCB	Toxaphene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	QW114R	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Benzo(a)pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	bis(2-Chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Di-n-butyl phthalate	6.31	ug/L		BJ		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Diphenylamine	6.33	ug/L		J		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Hexachlorobenzene	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Isophorone	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	m+p Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Pentachlorophenol	0.05	ug/L		U		0.05	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Phenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW114R	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BAI	9/27/2012
WD-PZ09C	QW391	ANION	Chloride	21000	ug/L				250	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW391	ANION	Fluoride	240	ug/L		B		60	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW391	ANION	Nitrate	2600	ug/L				42	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW391	ANION	Nitrite as Nitrogen	75	ug/L		B		49	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW391	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW391	ANION	Sulfate	980000	ug/L				4600	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	QW398	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW398	DI/FURA	Octachlorodibenzofuran	0.0346	ng/L		J		2.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	HERB	2,4,5-T	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	HERB	2,4-D	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	HERB	2,4-DB	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	HERB	Dalapon	1.45	ug/L		U		1.45	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	HERB	Dicamba	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	HERB	Dichloroprop	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	HERB	Dinoseb	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	HERB	MCPA	12.8	ug/L		U		12.8	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	HERB	MCPP	11.6	ug/L		U		11.6	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	HERB	Silvex	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Aluminum	0.26	mg/L				0.018	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Antimony	0.00056	mg/L		B		0.0004	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Antimony	0.00079	mg/L		B		0.0004	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Arsenic	0.00034	mg/L		B		0.00033	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Arsenic	0.00089	mg/L		B		0.00033	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Barium	0.052	mg/L				0.00029	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Barium	0.053	mg/L				0.00029	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Calcium	130	mg/L				0.035	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Calcium	130	mg/L				0.035	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Chromium	0.00059	mg/L		B		0.0005	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Cobalt	0.0085	mg/L				0.000054	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Cobalt	0.0088	mg/L				0.000054	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Copper	0.00081	mg/L		B		0.00056	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Copper	0.00085	mg/L		B		0.00056	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Iron	0.66	mg/L				0.022	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Iron	1.4	mg/L				0.022	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Lead	0.001	mg/L				0.00018	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Lithium	0.12	mg/L				0.0026	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Lithium	0.11	mg/L				0.0026	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Magnesium	140	mg/L				0.011	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Magnesium	140	mg/L				0.011	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Manganese	0.22	mg/L				0.00031	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Manganese	0.22	mg/L				0.00031	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Mercury	0.000039	mg/L		B		0.000027	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Nickel	0.016	mg/L				0.0003	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Nickel	0.017	mg/L				0.0003	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Sodium	250	mg/L				0.092	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Sodium	260	mg/L				0.092	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Strontium	4.7	mg/L				0.0003	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Strontium	4.8	mg/L				0.0003	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	QW394	METAL	Thallium	0.000069	mg/L		B		0.00005	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Titanium	0.0039	mg/L		B		0.0006	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Uranium	0.00035	mg/L		B		0.00005	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Uranium	0.00034	mg/L		B		0.00005	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Vanadium	0.00082	mg/L		B		0.0005	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW393	METAL	Zinc	3.9	mg/L				0.02	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW394	METAL	Zinc	4	mg/L				0.002	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Kepone	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Americium-241	-0.0133	pCi/L	0.0261	U		0.0595	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Neptunium-237	-0.0108	pCi/L	0.0174	U		0.0382	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Plutonium-238	0.00456	pCi/L	0.011	U		0.0175	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Plutonium-239/240	-0.00456	pCi/L	0.00894	U		0.0219	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Technetium-99	0.187	pCi/L	0.52	U		0.895	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Thorium-228	0.0198	pCi/L	0.0277	U		0.0447	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Thorium-230	0.0163	pCi/L	0.0263	U		0.0437	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Thorium-232	0.0125	pCi/L	0.0156	U		0.0139	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Uranium-233/234	0.36	pCi/L	0.104			0.112	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Uranium-235/236	0.0198	pCi/L	0.043	U		0.0731	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW397	RADS	Uranium-238	0.0963	pCi/L	0.0646			0.0907	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	1,2,4-Trichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	1,2-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	1,3-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	QW395	SVOA	1,4-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2,4,5-Trichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2,4,6-Trichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2,4-Dichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2,4-Dimethylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2,4-Dinitrophenol	5.88	ug/L		U		5.88	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2,4-Dinitrotoluene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2,6-Dinitrotoluene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2-Chloronaphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2-Chlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2-Methyl-4,6-dinitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2-Methylnaphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2-Methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	2-Nitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	3,3'-Dichlorobenzidine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	3-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	4-Aminobiphenyl	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	4-Bromophenyl phenyl ether	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	4-Chloro-3-methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	4-Chlorobenzenamine	3.88	ug/L		U		3.88	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	4-Chlorophenyl phenyl ether	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	4-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	4-Nitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Acenaphthene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Acenaphthylene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Acetophenone	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Benz(a)anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Benzenemethanol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Benzo(a)pyrene	0.518	ug/L		U		0.518	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Benzo(b)fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Benzo(ghi)perylene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Benzo(k)fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Benzoic acid	7.06	ug/L		U		7.06	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Bis(2-chloroethoxy)methane	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Bis(2-chloroethyl) ether	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	bis(2-Chloroisopropyl)ether	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Bis(2-ethylhexyl)phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Butyl benzyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Chrysene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Dibenz(a,h)anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Dibenzofuran	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Diethyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Dimethyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Di-n-butyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Di-n-octylphthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Diphenylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Fluorene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Hexachlorobutadiene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Hexachlorocyclopentadiene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Hexachloroethane	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Indeno(1,2,3-cd)pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Isophorone	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	m+p Methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Naphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Nitrobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	N-Nitrosodimethylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	QW395	SVOA	N-Nitroso-di-n-propylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	N-Nitrosomorpholine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	O,O,O-Triethylphosphorothioate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Pentachlorophenol	0.0581	ug/L		U		0.0581	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Phenanthrene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Phenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	SVOA	Pyridine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	1,2-Dimethylbenzene	0.21	ug/L		J		0.19	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW395	VOA	1,4-Dioxane	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Acetone	9.6	ug/L		J		1.9	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Benzene	0.62	ug/L		J		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Total Xylene	0.21	ug/L		J		0.19	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW396	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW391	WETCHEM	Alkalinity	490	mg/L				1.1	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW391	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW391	WETCHEM	Alkalinity as HCO3	490	mg/L				1.1	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW392	WETCHEM	Ammonium Nitrogen	2.8	mg/L				0.1	WATER	WG	REG	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	QW400	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW401	WETCHEM	Chromium, hexavalent	0.007	mg/L		BJ		0.004	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	QW399	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	11/13/2012
WD-PZ09C	DC522	ANION	Chloride	20	mg/L				0.25	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC522	ANION	Fluoride	0.12	mg/L		B		0.06	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC522	ANION	Nitrate	0.042	mg/L		U		0.042	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC522	ANION	Nitrite as Nitrogen	0.049	mg/L		U		0.049	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC522	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC522	ANION	Sulfate	940	mg/L				12	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0194	ng/L		U		0.0194	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00389	ng/L		U		0.00389	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00389	ng/L		U		0.00389	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0389	ng/L		U		0.0389	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC529	DI/FURA	Octachlorodibenzofuran	0.0389	ng/L		U		0.0389	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	HERB	2,4,5-T	0.0856	ug/L		U		0.0856	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	HERB	2,4-D	0.0856	ug/L		U		0.0856	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	HERB	2,4-DB	0.103	ug/L		U		0.103	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	HERB	Dalapon	1.29	ug/L		U		1.29	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	HERB	Dicamba	0.0856	ug/L		U		0.0856	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	HERB	Dichloroprop	0.0856	ug/L		U		0.0856	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	HERB	Dinoseb	0.0856	ug/L		U		0.0856	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	HERB	MCPA	11.3	ug/L		U		11.3	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	HERB	MCPP	10.3	ug/L		U		10.3	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	HERB	Silvex	0.0856	ug/L		U		0.0856	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Aluminum	0.024	mg/L		B		0.018	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Antimony	0.00046	mg/L		B		0.0004	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Antimony	0.00056	mg/L		B		0.0004	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Arsenic	0.0015	mg/L		B		0.00033	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Arsenic	0.0016	mg/L		B		0.00033	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Barium	0.026	mg/L				0.00029	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Barium	0.03	mg/L				0.00029	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Calcium	150	mg/L				0.035	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Calcium	150	mg/L				0.035	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Chromium	0.00051	mg/L		B		0.0005	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Cobalt	0.0013	mg/L				0.000054	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Cobalt	0.0016	mg/L				0.000054	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Iron	7.3	mg/L				0.022	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Iron	8.4	mg/L				0.022	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	DC524	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Lithium	0.11	mg/L				0.0026	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Lithium	0.11	mg/L				0.0026	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Magnesium	160	mg/L				0.011	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Magnesium	170	mg/L				0.011	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Manganese	0.2	mg/L				0.00031	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Manganese	0.25	mg/L				0.00031	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Nickel	0.0016	mg/L		B		0.0003	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Nickel	0.002	mg/L				0.0003	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Sodium	240	mg/L				0.092	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Sodium	240	mg/L				0.092	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Strontium	4.2	mg/L				0.0003	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Strontium	4.2	mg/L				0.0003	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Thallium	0.000095	mg/L		B		0.00005	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Thallium	0.000069	mg/L		B		0.00005	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Uranium	0.00014	mg/L		B		0.00005	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Uranium	0.00017	mg/L		B		0.00005	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC524	METAL	Zinc	0.026	mg/L				0.002	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC525	METAL	Zinc	0.021	mg/L				0.002	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	2,4'-DDD	0.00521	ug/L		U		0.00521	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	2,4'-DDE	0.00625	ug/L		U		0.00625	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	2,4'-DDT	0.00521	ug/L		U		0.00521	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	4,4'-DDD	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	4,4'-DDE	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	4,4'-DDT	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Aldrin	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	alpha-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	alpha-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	beta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Chlordane	0.0797	ug/L		U		0.0797	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	delta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Dieldrin	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Endosulfan I	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Endosulfan II	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Endosulfan sulfate	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Endrin	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Endrin aldehyde	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Endrin ketone	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	gamma-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Heptachlor	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Heptachlor epoxide	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Kepone	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Lindane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Methoxychlor	0.0521	ug/L		U		0.0521	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	PCB-1016	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	DC528	PPCB	PCB-1221	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	PCB-1232	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	PCB-1242	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	PCB-1248	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	PCB-1254	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	PCB-1260	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	PCB-1268	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Polychlorinated biphenyl	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	PPCB	Toxaphene	0.156	ug/L		U		0.156	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Americium-241	0	pCi/L	0.0151	U		0.0163	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Neptunium-237	0.0113	pCi/L	0.0271	U		0.0432	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Plutonium-238	-0.00634	pCi/L	0.0124	U		0.0304	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Plutonium-239/240	0.00634	pCi/L	0.0152	U		0.0242	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Technetium-99	0.535	pCi/L	0.4	U		0.652	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Thorium-228	0.0303	pCi/L	0.0274	U		0.0376	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Thorium-230	0.00929	pCi/L	0.0244	U		0.0432	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Thorium-232	0.00267	pCi/L	0.0172	U		0.0323	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Uranium-233/234	0.105	pCi/L	0.0556			0.0398	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Uranium-235/236	0.00415	pCi/L	0.026	U		0.0492	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC532	RADS	Uranium-238	0.0407	pCi/L	0.0358			0.0203	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	1,2,4-Trichlorobenzene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	1,2-Dichlorobenzene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	1,3-Dichlorobenzene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	1,4-Dichlorobenzene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2,4,5-Trichlorophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2,4,6-Trichlorophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2,4-Dichlorophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2,4-Dimethylphenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2,4-Dinitrophenol	6.33	ug/L		U		6.33	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2,4-Dinitrotoluene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2,6-Dinitrotoluene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2-Chloronaphthalene	0.519	ug/L		U		0.519	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2-Chlorophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2-Methyl-4,6-dinitrophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2-Methylnaphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2-Methylphenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2-Nitrobenzenamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	2-Nitrophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	3,3'-Dichlorobenzidine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	3-Nitrobenzenamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	4-Aminobiphenyl	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	4-Bromophenyl phenyl ether	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	4-Chloro-3-methylphenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	4-Chlorobenzenamine	4.18	ug/L		U		4.18	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	4-Chlorophenyl phenyl ether	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	4-Nitrobenzenamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	4-Nitrophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Acenaphthene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Acenaphthylene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Acetophenone	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Anthracene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Benz(a)anthracene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Benzenemethanol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Benzo(b)fluoranthene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Benzo(ghi)perylene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Benzo(k)fluoranthene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Benzoic acid	7.59	ug/L		U		7.59	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Bis(2-chloroethoxy)methane	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Bis(2-chloroethyl) ether	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	DC528	SVOA	Bis(2-chloroisopropyl)ether	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Bis(2-ethylhexyl)phthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Butyl benzyl phthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Chrysene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Dibenz(a,h)anthracene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Dibenzofuran	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Diethyl phthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Dimethyl phthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Di-n-butyl phthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Di-n-octylphthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Diphenylamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Fluoranthene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Hexachlorobenzene	0.00651	ug/L		U		0.00651	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Hexachlorobutadiene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Hexachlorocyclopentadiene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Hexachloroethane	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Indeno(1,2,3-cd)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Isophorone	4.43	ug/L		U		4.43	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	m,p-cresol	4.68	ug/L		U		4.68	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Naphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Nitrobenzene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	N-Nitrosodimethylamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	N-Nitroso-di-n-propylamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	N-Nitrosomorpholine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	O,O,O-Triethylphosphorothioate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Pentachlorophenol	0.0515	ug/L		U		0.0515	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Phenanthrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Phenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	SVOA	Pyridine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC528	VOA	1,4-Dioxane	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ09C	DC531	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC531	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC522	WETCHEM	Alkalinity	490	mg/L				1.1	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC522	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC522	WETCHEM	Alkalinity as HCO3	490	mg/L				1.1	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC523	WETCHEM	Ammonia	2.5	mg/L				0.022	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC523	WETCHEM	Ammonium Nitrogen	2.5	mg/L				0.1	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC526	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC527	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC530	WETCHEM	Cyanide	0.0038	mg/L		B		0.002	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC818	WETCHEM	Dissolved Solids	1800	mg/L				9.4	WATER	WG	REG	BP	6/26/2013
WD-PZ09C	DC522	WETCHEM	Dissolved Solids	1800	mg/L				9.4	WATER	WG	REG	BP	6/26/2013
WD-PZ11C	WDPZ11-01-02	ANION	Chloride	25	mg/L			XV	0.51	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-01-02	ANION	Fluoride	0.27	mg/L		B	XV	0.12	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-01-02	ANION	Nitrate	0.084	mg/L		U	XV	0.084	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-01-02	ANION	Orthophosphate	0.37	mg/L		U	XV	0.37	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-01-02	ANION	Sulfate	1800	mg/L			XV	12	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Aluminum	18	ug/L		U	XV	18	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Aluminum	6.6	mg/L			XV	0.018	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Antimony	3.1	ug/L		U	XV	3.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Arsenic	5.3	ug/L			XV	0.33	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Arsenic	0.021	mg/L			XV	0.00033	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Barium	65	ug/L			XV	0.58	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Barium	0.12	mg/L			XV	0.00058	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Beryllium	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Cadmium	0.04	ug/L		U	XV	0.04	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Cadmium	0.00011	mg/L		B	XV	0.00004	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Calcium	230000	ug/L			XV	35	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Calcium	240	mg/L			XV	0.035	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Chromium	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Chromium	0.0089	mg/L		B	XV	0.00066	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Cobalt	16	ug/L			XV	1.2	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Cobalt	0.022	mg/L			XV	0.0012	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Copper	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Copper	0.008	mg/L		B	XV	0.0014	WATER	WG	REG	BP	11/21/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-03-02	METAL	Iron	1100	ug/L			XV	22	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Iron	12	mg/L			XV	0.022	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Lead	0.43	ug/L		B	XV	0.18	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Lead	0.0066	mg/L			XV	0.00018	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Magnesium	180000	ug/L			XV	11	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Magnesium	180	mg/L			XV	0.011	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Manganese	130	ug/L			XV	0.25	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Manganese	0.23	mg/L			XV	0.00025	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Mercury	0.076	ug/L		B	XV	0.027	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Mercury	0.000083	mg/L		B	XV	0.000027	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Molybdenum	12	ug/L			XV	0.14	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Molybdenum	0.013	mg/L			XV	0.00014	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Nickel	48	ug/L			XV	1.3	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Nickel	0.063	mg/L			XV	0.0013	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Potassium	28000	ug/L			XV	240	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Potassium	30	mg/L			XV	0.24	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Selenium	2.6	ug/L		B	XV	0.7	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Selenium	0.0026	mg/L		B	XV	0.0007	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Silver	0.93	ug/L		U	XV	0.93	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Sodium	600000	ug/L			XV	92	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Sodium	630	mg/L			XV	0.092	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Thallium	0.054	ug/L		B	XV	0.033	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Thallium	0.000059	mg/L		B	XV	0.000033	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Uranium	1.1	ug/L			XV	0.02	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Uranium	0.0013	mg/L			XV	0.00002	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Vanadium	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Vanadium	0.016	mg/L			XV	0.0011	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-03-02	METAL	Zinc	5.7	ug/L		B	XV	4.5	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-04-02	METAL	Zinc	0.03	mg/L			XV	0.0045	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	PPCB	PCB-1221	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	PPCB	PCB-1248	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	PPCB	PCB-1260	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	PPCB	Polychlorinated biphenyl	0.096	ug/L		U	XV	0.096	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-09-02	RADS	Alpha activity	13.4	pCi/L	6.71	U	XV	41.5	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-09-02	RADS	Americium-241	0.0956	pCi/L	0.0303	U	XV	0.0904	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-09-02	RADS	Beta activity	3.34	pCi/L	6.52	U	XV	37.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-09-02	RADS	Neptunium-237	0	pCi/L	0.00626	U	XV	0.0338	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-09-02	RADS	Plutonium-238	-0.00432	pCi/L	-0.00748	U	XV	0.0531	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-09-02	RADS	Plutonium-239/240	0.0259	pCi/L	0.0137	U	XV	0.0531	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-09-02	RADS	Technetium-99	-1.95	pCi/L	1.66	U	XV	5.65	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-09-02	RADS	Uranium-233/234	2.1	pCi/L	0.0977		XV	0.0347	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-09-02	RADS	Uranium-235	0.0503	pCi/L	0.0177	U	XV	0.0428	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-09-02	RADS	Uranium-238	1.01	pCi/L	0.0677		XV	0.0345	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	1,3-Dichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2,4,5-Trichlorophenol	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2,4,6-Trichlorophenol	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2,4-Dichlorophenol	0.73	ug/L		U	XV	0.73	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2,4-Dimethylphenol	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2,4-Dinitrophenol	11	ug/L		U	XV	11	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2-Chloronaphthalene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/21/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-05-02	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U	XV	4.6	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2-Methylnaphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	2-Nitrophenol	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	4-Bromophenyl phenyl ether	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Acenaphthene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Acenaphthylene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Anthracene	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Benz(a)anthracene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Benzo(a)pyrene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Benzo(b)fluoranthene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Benzo(ghi)perylene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Benzo(k)fluoranthene	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Benzoic acid	11	ug/L		U	XV	11	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.64	ug/L		U	XV	0.64	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Butyl benzyl phthalate	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Chrysene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Dibenz(a,h)anthracene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Dibenzofuran	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Diethyl phthalate	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Dimethyl phthalate	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Di-n-butyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Di-n-octylphthalate	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Fluorene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Hexachlorobenzene	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Hexachlorobutadiene	3.8	ug/L		U	XV	3.8	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Hexachlorocyclopentadiene	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Hexachloroethane	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.74	ug/L		U	XV	0.74	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Isophorone	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Naphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Nitrobenzene	0.92	ug/L		U	XV	0.92	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	N-Nitrosodiphenylamine	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Phenanthrene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-05-02	SVOA	Pyrene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	1,2-Dimethylbenzene	0.45	ug/L		J	XV	0.19	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	11/21/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-06-02	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Benzene	1.5	ug/L			XV	0.16	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Ethylbenzene	0.19	ug/L		J	XV	0.16	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	M + P Xylene	0.66	ug/L		J	XV	0.34	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Methylene chloride	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Toluene	1.3	ug/L			XV	0.17	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-01-02	WETCHEM	Alkalinity	790	mg/L			XV	1.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-01-02	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-01-02	WETCHEM	Alkalinity as HCO3	790	mg/L			XV	1.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-02-02	WETCHEM	Ammonium Nitrogen	5.9	mg/L			XV	0.1	WATER	WG	REG	BP	11/21/2011
WD-PZ11C	WDPZ11-01-03	ANION	Chloride	33	mg/L			XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-01-03	ANION	Fluoride	0.19	mg/L		B	XV	0.06	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-01-03	ANION	Nitrate	0.048	mg/L		B	XV	0.042	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-01-03	ANION	Orthophosphate	0.19	mg/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-01-03	ANION	Sulfate	730	mg/L			XV	4.6	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Aluminum	1.9	mg/L			XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Arsenic	0.0017	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Arsenic	0.0048	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Barium	0.11	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Barium	0.11	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Cadmium	0.000048	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Calcium	130	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Calcium	100	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Chromium	0.0029	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Cobalt	0.029	mg/L			XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Cobalt	0.026	mg/L			XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Copper	0.0077	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Iron	0.49	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Iron	4.6	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Lead	0.0029	mg/L			XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Magnesium	110	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Magnesium	87	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Manganese	0.2	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-04-03	METAL	Manganese	0.2	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Molybdenum	0.0072	mg/L			XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Molybdenum	0.0082	mg/L			XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Nickel	0.061	mg/L			XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Nickel	0.062	mg/L			XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Potassium	16	mg/L			XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Potassium	16	mg/L			XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Selenium	0.0018	mg/L		B	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Selenium	0.00094	mg/L		B	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Sodium	280	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Sodium	230	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Thallium	0.000044	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Uranium	0.0022	mg/L			XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Uranium	0.0025	mg/L			XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Vanadium	0.0014	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Vanadium	0.0073	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-03-03	METAL	Zinc	0.0045	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-04-03	METAL	Zinc	0.016	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	PPCB	PCB-1221	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	PPCB	PCB-1232	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	PPCB	PCB-1242	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	PPCB	PCB-1260	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	PPCB	Polychlorinated biphenyl	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-09-03	RADS	Alpha activity	3.54	pCi/L	2.21	U	XV	13.7	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-09-03	RADS	Americium-241	0.0325	pCi/L	0.0139	U		0.0445	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-09-03	RADS	Beta activity	7.55	pCi/L	0.968			3.58	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-09-03	RADS	Neptunium-237	0.0136	pCi/L	0.00904	U	XV	0.0346	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-09-03	RADS	Plutonium-238	0	pCi/L	0.00732	U		0.0396	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-09-03	RADS	Plutonium-239/240	0.0362	pCi/L	0.0146	U		0.0395	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-09-03	RADS	Technetium-99	1.04	pCi/L	1.66	U	XV	5.53	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-09-03	RADS	Uranium-233/234	3.09	pCi/L	0.123			0.0372	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-09-03	RADS	Uranium-235	0.054	pCi/L	0.019	U		0.0459	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-09-03	RADS	Uranium-238	0.92	pCi/L	0.067			0.0371	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	1,2,4-Trichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	1,2-Dichlorobenzene	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	1,3-Dichlorobenzene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	1,4-Dichlorobenzene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2,4,5-Trichlorophenol	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2,4,6-Trichlorophenol	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2,4-Dichlorophenol	0.83	ug/L		U	XV	0.83	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2,4-Dimethylphenol	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2,4-Dinitrophenol	13	ug/L		U	XV	13	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2-Chloronaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2-Chlorophenol	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2-Methyl-4,6-dinitrophenol	5.2	ug/L		U	XV	5.2	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2-Methylnaphthalene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2-Methylphenol	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2-Nitrobenzenamine	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	2-Nitrophenol	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-05-03	SVOA	3-Nitrobenzenamine	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	4-Bromophenyl phenyl ether	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	4-Chloro-3-methylphenol	3.1	ug/L		U	XV	3.1	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	4-Methylphenol	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	4-Nitrobenzenamine	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	4-Nitrophenol	1.6	ug/L		U	XV	1.6	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Acenaphthene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Acenaphthylene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Anthracene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Benz(a)anthracene	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Benzo(a)pyrene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Benzo(b)fluoranthene	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Benzo(ghi)perylene	0.65	ug/L		U	XV	0.65	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Benzo(k)fluoranthene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Benzoic acid	13	ug/L		U	XV	13	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Bis(2-chloroethoxy)methane	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.73	ug/L		U	XV	0.73	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Butyl benzyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Chrysene	0.7	ug/L		U	XV	0.7	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Dibenz(a,h)anthracene	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Dibenzofuran	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Diethyl phthalate	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Dimethyl phthalate	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Di-n-butyl phthalate	1.5	ug/L		U	XV	1.5	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Di-n-octylphthalate	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Fluoranthene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Fluorene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Hexachlorobenzene	0.85	ug/L		U	XV	0.85	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Hexachlorobutadiene	4.3	ug/L		U	XV	4.3	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Hexachlorocyclopentadiene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Hexachloroethane	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.84	ug/L		U	XV	0.84	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Isophorone	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Naphthalene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Nitrobenzene	1	ug/L		U	XV	1	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	N-Nitroso-di-n-propylamine	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	N-Nitrosodiphenylamine	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Pentachlorophenol	26	ug/L		U	XV	26	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Phenanthrene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Phenol	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-05-03	SVOA	Pyrene	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	1,2-Dimethylbenzene	0.21	ug/L		J	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Benzene	0.61	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Bromodichloromethane	2.1	ug/L			XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Bromoform	0.64	ug/L		J	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Chloroform	3.5	ug/L			XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Dibromochloromethane	2	ug/L			XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Methylene chloride	0.46	ug/L		BJ	XV	0.32	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Toluene	0.82	ug/L		J	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-01-03	WETCHEM	Alkalinity	280	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-01-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-01-03	WETCHEM	Alkalinity as HCO3	280	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-02-03	WETCHEM	Ammonium Nitrogen	3.2	mg/L				0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ11C	WDPZ11-01-04	ANION	Chloride	27	mg/L				0.51	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-01-04	ANION	Fluoride	0.22	mg/L		B		0.12	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-01-04	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-01-04	ANION	Orthophosphate	0.37	mg/L		JU		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-01-04	ANION	Sulfate	1200	mg/L				12	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Aluminum	1.7	mg/L				0.018	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Arsenic	0.0018	mg/L		B		0.00033	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Arsenic	0.0048	mg/L		B		0.00033	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Barium	0.072	mg/L				0.00058	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Barium	0.084	mg/L				0.00058	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Cadmium	0.00012	mg/L		B		0.00004	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Cadmium	0.000041	mg/L		B		0.00004	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Calcium	130	mg/L				0.035	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Chromium	0.0032	mg/L		B		0.00066	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Cobalt	0.021	mg/L				0.0012	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Cobalt	0.022	mg/L				0.0012	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Copper	0.0045	mg/L		B		0.0014	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Copper	0.0081	mg/L		B		0.0014	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Iron	0.55	mg/L				0.022	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Iron	4.7	mg/L				0.022	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Lead	0.0041	mg/L				0.00018	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Magnesium	100	mg/L				0.011	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Magnesium	99	mg/L				0.011	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Manganese	0.17	mg/L				0.00025	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Manganese	0.21	mg/L				0.00025	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Molybdenum	0.0049	mg/L				0.00014	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Molybdenum	0.0057	mg/L				0.00014	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Nickel	0.042	mg/L				0.0013	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Nickel	0.047	mg/L				0.0013	WATER	WG	REG	BP	1/16/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-03-04	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Selenium	0.0024	mg/L		B		0.0007	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Selenium	0.0026	mg/L		B		0.0007	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Sodium	370	mg/L				0.092	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Sodium	370	mg/L				0.092	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Thallium	0.000053	mg/L		B		0.000033	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Uranium	0.0023	mg/L				0.00002	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Uranium	0.0027	mg/L				0.00002	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Vanadium	0.0015	mg/L		B		0.0011	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Vanadium	0.0056	mg/L		B		0.0011	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-03-04	METAL	Zinc	0.0052	mg/L		B		0.0045	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-04-04	METAL	Zinc	0.015	mg/L		B		0.0045	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-09-04	RADS	Alpha activity	2.71	pCi/L	3.09	U		11.8	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-09-04	RADS	Americium-241	0.0148	pCi/L	0.0148	U		0.071	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-09-04	RADS	Beta activity	3.41	pCi/L	4.02	U		14	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-09-04	RADS	Neptunium-237	0.00895	pCi/L	0.00775	U		0.0343	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-09-04	RADS	Plutonium-238	0.0141	pCi/L	0.0122	U		0.0541	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-09-04	RADS	Plutonium-239/240	0.0283	pCi/L	0.0158	U		0.054	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-09-04	RADS	Technetium-99	1.26	pCi/L	1.69	U		5.61	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-09-04	RADS	Uranium-233/234	3.02	pCi/L	0.125			0.0494	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-09-04	RADS	Uranium-235	0.0318	pCi/L	0.0191	U		0.0782	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-09-04	RADS	Uranium-238	0.765	pCi/L	0.0631			0.0492	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-05-04	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Bis(2-ethylhexyl)phthalate	2.8	ug/L		BJ		0.67	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U		1.8	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-05-04	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Acetone	71	ug/L				1.9	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Benzene	1.5	ug/L				0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Bromodichloromethane	0.85	ug/L		J		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Chloroform	1.8	ug/L				0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Dibromochloromethane	0.66	ug/L		J		0.17	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Methylene chloride	0.76	ug/L		BJ		0.32	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Toluene	0.99	ug/L		J		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-01-04	WETCHEM	Alkalinity	490	mg/L				1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-01-04	WETCHEM	Alkalinity as HCO3	490	mg/L				1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-02-04	WETCHEM	Ammonium Nitrogen	3.8	mg/L				0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ11C	WDPZ11-01-05	ANION	Chloride	28	mg/L				0.51	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-01-05	ANION	Fluoride	0.19	mg/L		B		0.12	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-01-05	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-01-05	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-01-05	ANION	Sulfate	1400	mg/L				12	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Aluminum	0.85	mg/L				0.018	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Arsenic	0.0023	mg/L		B		0.00033	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Arsenic	0.0037	mg/L		B		0.00033	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Barium	0.072	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Barium	0.082	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Calcium	160	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Chromium	0.002	mg/L		B		0.00066	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Cobalt	0.019	mg/L				0.0012	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Cobalt	0.018	mg/L				0.0012	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Copper	0.0034	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Copper	0.0028	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Iron	0.89	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Iron	2.6	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Lead	0.00018	mg/L		B		0.00018	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Lead	0.0025	mg/L				0.00018	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Magnesium	120	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Magnesium	100	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Manganese	0.19	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Manganese	0.2	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Molybdenum	0.0033	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Molybdenum	0.0033	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Nickel	0.037	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Nickel	0.036	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Potassium	21	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Selenium	0.00077	mg/L		B		0.0007	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Sodium	450	mg/L				0.092	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-04-05	METAL	Sodium	420	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Thallium	0.000038	mg/L		B		0.000033	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Uranium	0.0019	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Uranium	0.0022	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Vanadium	0.0031	mg/L		B		0.0011	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-03-05	METAL	Zinc	0.0048	mg/L		B		0.0045	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-04-05	METAL	Zinc	0.0092	mg/L		B		0.0045	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-09-05	RADS	Alpha activity	7.04	pCi/L	7.04	U		22.3	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-09-05	RADS	Americium-241	0.0338	pCi/L	0.0145	U		0.0462	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-09-05	RADS	Beta activity	16.1	pCi/L	8.15	U		19.3	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-09-05	RADS	Neptunium-237	0	pCi/L	0.00715	U		0.0387	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-09-05	RADS	Plutonium-238	0	pCi/L	0.00788	U		0.0534	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-09-05	RADS	Plutonium-239/240	0	pCi/L	0.00788	U		0.0534	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-09-05	RADS	Technetium-99	1.34	pCi/L	1.68	U		5.6	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-09-05	RADS	Uranium-233/234	2.17	pCi/L	0.102			0.0453	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-09-05	RADS	Uranium-235	0.035	pCi/L	0.0165	U		0.0559	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-09-05	RADS	Uranium-238	0.636	pCi/L	0.055			0.0361	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Anthracene	0.51	ug/L		U		0.51	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-05-05	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		BJ		0.67	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Nitrobenzene	0.98	ug/L		U		0.98	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-05-05	SVOA	Pyrene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Acetone	3.3	ug/L		J		1.9	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Benzene	1.2	ug/L				0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Bromodichloromethane	0.67	ug/L		J		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Chloroform	1.5	ug/L				0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Chloromethane	0.31	ug/L		J		0.3	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Dibromochloromethane	0.71	ug/L		J		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Methylene chloride	0.62	ug/L		BJ		0.32	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Toluene	0.83	ug/L		J		0.17	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-01-05	WETCHEM	Alkalinity	550	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-01-05	WETCHEM	Alkalinity as HCO3	550	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-02-05	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ11C	WDPZ11-01-06	ANION	Chloride	29	mg/L				0.51	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-01-06	ANION	Fluoride	0.21	mg/L		B		0.12	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-01-06	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-01-06	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-01-06	ANION	Sulfate	1500	mg/L				12	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Aluminum	0.78	mg/L				0.018	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Arsenic	0.0035	mg/L		B		0.00033	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Arsenic	0.0043	mg/L		B		0.00033	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Barium	0.065	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Barium	0.08	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Cadmium	0.000049	mg/L		B		0.00004	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Cadmium	0.000041	mg/L		B		0.00004	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Calcium	170	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Calcium	160	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Chromium	0.0009	mg/L		B		0.00066	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Cobalt	0.016	mg/L				0.0012	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Cobalt	0.016	mg/L				0.0012	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Copper	0.0029	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Copper	0.0045	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Iron	1.1	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Iron	2.8	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Lead	0.00032	mg/L		B		0.00018	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Lead	0.002	mg/L				0.00018	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Magnesium	120	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Magnesium	110	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Manganese	0.18	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Manganese	0.19	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Mercury	0.000031	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Mercury	0.000028	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Molybdenum	0.0022	mg/L				0.00014	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Molybdenum	0.0026	mg/L				0.00014	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Nickel	0.031	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Nickel	0.032	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Potassium	21	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Potassium	21	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Selenium	0.0009	mg/L		B		0.0007	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Selenium	0.00099	mg/L		B		0.0007	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Sodium	490	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Sodium	480	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Uranium	0.0016	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Uranium	0.0019	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-03-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Vanadium	0.0024	mg/L		B		0.0011	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-04-06	METAL	Zinc	0.0079	mg/L		B		0.0045	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-09-06	RADS	Alpha activity	10.5	pCi/L	6.91	U	U	18.2	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-09-06	RADS	Americium-241	0.0668	pCi/L	0.0178	J	J	0.0341	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-09-06	RADS	Beta activity	18.4	pCi/L	7.39	U	UJ	16.5	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-09-06	RADS	Neptunium-237	0	pCi/L	0.00668	U	U	0.0361	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-09-06	RADS	Plutonium-238	0.00592	pCi/L	0.00837	U	U	0.0453	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-09-06	RADS	Plutonium-239/240	0.0651	pCi/L	0.0213	U	UJ	0.0566	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-09-06	RADS	Technetium-99	-3.26	pCi/L	1.65	U	U	5.66	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-09-06	RADS	Uranium-233/234	2.18	pCi/L	0.106		=	0.0395	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-09-06	RADS	Uranium-235	0.0318	pCi/L	0.0156	U	U	0.0487	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-09-06	RADS	Uranium-238	0.591	pCi/L	0.0553		=	0.0393	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2,4-Dichlorophenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2,4-Dimethylphenol	0.7	ug/L		U		0.7	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	4-Bromophenyl phenyl ether	0.52	ug/L		U		0.52	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Acenaphthylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Benzo(b)fluoranthene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Bis(2-ethylhexyl)phthalate	3.3	ug/L		BJ		0.67	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Chrysene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-05-06	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Diethyl phthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Hexachlorobutadiene	4	ug/L		U		4	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	N-Nitrosodiphenylamine	0.53	ug/L		U		0.53	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-05-06	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	1,2-Dimethylbenzene	0.31	ug/L		J		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Acetone	2.1	ug/L		J		1.9	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Benzene	1.9	ug/L				0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Bromodichloromethane	0.2	ug/L		J		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Chloroform	0.83	ug/L		J		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Dibromochloromethane	0.2	ug/L		J		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	M + P Xylene	0.43	ug/L		J		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Toluene	1.2	ug/L				0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-01-06	WETCHEM	Alkalinity	570	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-01-06	WETCHEM	Alkalinity as HCO3	570	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ11C	WDPZ11-02-06	WETCHEM	Ammonium Nitrogen	4.7	mg/L				0.1	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-01-07	ANION	Chloride	31	mg/L				0.51	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-01-07	ANION	Fluoride	0.16	mg/L		B		0.12	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-01-07	ANION	Nitrate	0.087	mg/L		B		0.084	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-01-07	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-01-07	ANION	Sulfate	1400	mg/L				12	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Aluminum	0.61	mg/L				0.018	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Arsenic	0.0028	mg/L		B		0.00033	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Arsenic	0.003	mg/L		B		0.00033	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Barium	0.071	mg/L				0.00058	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Barium	0.08	mg/L				0.00058	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Calcium	190	mg/L				0.035	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Calcium	190	mg/L				0.035	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Chromium	0.00092	mg/L		B		0.00066	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Cobalt	0.016	mg/L				0.0012	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Cobalt	0.017	mg/L				0.0012	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Copper	0.0022	mg/L		B		0.0014	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Copper	0.003	mg/L		B		0.0014	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Iron	1.1	mg/L				0.022	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Iron	2.8	mg/L				0.022	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Lead	0.0016	mg/L				0.00018	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Magnesium	130	mg/L				0.011	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Magnesium	130	mg/L				0.011	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Manganese	0.2	mg/L				0.00025	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Manganese	0.22	mg/L				0.00025	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Molybdenum	0.002	mg/L				0.00014	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Molybdenum	0.0016	mg/L		B		0.00014	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Nickel	0.033	mg/L		B		0.0013	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Nickel	0.034	mg/L		B		0.0013	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Potassium	23	mg/L				0.24	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Potassium	23	mg/L				0.24	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Sodium	560	mg/L				0.092	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Sodium	540	mg/L				0.092	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Uranium	0.0017	mg/L				0.00005	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Uranium	0.0016	mg/L				0.00005	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Vanadium	0.0011	mg/L		B		0.0011	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Vanadium	0.0032	mg/L		B		0.0011	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-03-07	METAL	Zinc	0.0046	mg/L		B		0.0045	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-04-07	METAL	Zinc	0.0072	mg/L		B		0.0045	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	GRA	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-05-07	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-09-07	RADS	Alpha activity	15.3	pCi/L	7.94	U	U	18.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-09-07	RADS	Americium-241	0.0346	pCi/L	0.015	U	U	0.0532	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-09-07	RADS	Beta activity	1.17	pCi/L	5.87	U	UJ	16.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-09-07	RADS	Neptunium-237	0.0239	pCi/L	0.0134	U	U	0.0457	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-09-07	RADS	Plutonium-238	0	pCi/L	0.00664	U	U	0.045	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-09-07	RADS	Plutonium-239/240	0.0469	pCi/L	0.0156	U	U	0.0359	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-09-07	RADS	Technetium-99	0.572	pCi/L	1.63	U	U	5.44	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-09-07	RADS	Uranium-233/234	1.71	pCi/L	0.0923		=	0.038	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-09-07	RADS	Uranium-235	0.0184	pCi/L	0.0123	U	U	0.0469	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-09-07	RADS	Uranium-238	0.584	pCi/L	0.054		=	0.0378	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	1,2,4-Trichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	1,2-Dichlorobenzene	0.3	ug/L		U		0.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	1,3-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	1,4-Dichlorobenzene	0.41	ug/L		U		0.41	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2,4,5-Trichlorophenol	0.58	ug/L		U		0.58	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2,4,6-Trichlorophenol	0.38	ug/L		U		0.38	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2,4-Dichlorophenol	0.83	ug/L		U		0.83	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2,4-Dimethylphenol	0.75	ug/L		U		0.75	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2,4-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2,6-Dinitrotoluene	2.5	ug/L		U		2.5	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2-Chloronaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2-Chlorophenol	2.6	ug/L		U		2.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2-Methyl-4,6-dinitrophenol	5.2	ug/L		U		5.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2-Methylnaphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2-Methylphenol	1.3	ug/L		U		1.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	2-Nitrophenol	0.51	ug/L		U		0.51	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U		2.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	3-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	4-Bromophenyl phenyl ether	0.56	ug/L		U		0.56	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	4-Chloro-3-methylphenol	3.1	ug/L		U		3.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	4-Chlorophenyl phenyl ether	2.2	ug/L		U		2.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	4-Methylphenol	0.32	ug/L		U		0.32	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	4-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Acenaphthene	0.36	ug/L		U		0.36	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Acenaphthylene	0.64	ug/L		U		0.64	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Anthracene	0.54	ug/L		U		0.54	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Benz(a)anthracene	0.45	ug/L		U		0.45	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Benzo(a)pyrene	0.4	ug/L		U		0.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Benzo(b)fluoranthene	0.69	ug/L		U		0.69	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Benzo(ghi)perylene	0.65	ug/L		U		0.65	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Benzo(k)fluoranthene	0.6	ug/L		U		0.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Bis(2-chloroethoxy)methane	1.3	ug/L		U		1.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.36	ug/L		U		0.36	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Bis(2-ethylhexyl)phthalate	2.7	ug/L		BJ		0.73	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Chrysene	0.7	ug/L		U		0.7	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Dibenz(a,h)anthracene	0.66	ug/L		U		0.66	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Dibenzofuran	0.38	ug/L		U		0.38	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Diethyl phthalate	0.49	ug/L		U		0.49	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Dimethyl phthalate	0.27	ug/L		U		0.27	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Di-n-octylphthalate	0.45	ug/L		U		0.45	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Fluoranthene	0.26	ug/L		U		0.26	WATER	WG	REG	GRA	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	WDPZ11-05-07	SVOA	Fluorene	0.4	ug/L		U		0.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Hexachlorobenzene	0.86	ug/L		U		0.86	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Hexachlorobutadiene	4.3	ug/L		U		4.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Hexachlorocyclopentadiene	13	ug/L		U		13	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Hexachloroethane	2.7	ug/L		U		2.7	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.84	ug/L		U		0.84	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Isophorone	0.27	ug/L		U		0.27	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Naphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Nitrobenzene	1.1	ug/L		U		1.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	N-Nitroso-di-n-propylamine	0.45	ug/L		U		0.45	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	N-Nitrosodiphenylamine	0.57	ug/L		U		0.57	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Pentachlorophenol	26	ug/L		U		26	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Phenanthrene	0.34	ug/L		U		0.34	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Phenol	2.6	ug/L		U		2.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-05-07	SVOA	Pyrene	0.48	ug/L		U		0.48	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Acetone	3.3	ug/L		BJ		1.9	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Benzene	0.91	ug/L		J		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Bromodichloromethane	0.34	ug/L		J		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Chloroform	1.1	ug/L				0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Dibromochloromethane	0.33	ug/L		J		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Toluene	0.64	ug/L		J		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-01-07	WETCHEM	Alkalinity	580	mg/L				1.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-01-07	WETCHEM	Alkalinity as HCO3	580	mg/L				1.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	WDPZ11-02-07	WETCHEM	Ammonium Nitrogen	1.1	mg/L				0.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ11C	QW128	ANION	Chloride	25000	ug/L				510	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW128	ANION	Fluoride	310	ug/L		B		120	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW128	ANION	Nitrate	95	ug/L		B		84	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW128	ANION	Nitrite as Nitrogen	98	ug/L		U		98	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW128	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW128	ANION	Sulfate	2100000	ug/L				12000	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	QW135	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW135	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Aluminum	4	mg/L				0.018	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Antimony	0.00041	mg/L		B		0.0004	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Arsenic	0.0025	mg/L		B		0.00033	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Arsenic	0.0072	mg/L				0.00033	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Barium	0.036	mg/L				0.00029	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Barium	0.041	mg/L				0.00029	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Beryllium	0.00029	mg/L		B		0.00008	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Beryllium	0.00019	mg/L		B		0.00008	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Calcium	220	mg/L				0.035	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Calcium	240	mg/L				0.035	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Chromium	0.0033	mg/L				0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Cobalt	0.0092	mg/L				0.000054	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Cobalt	0.012	mg/L				0.000054	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Copper	0.01	mg/L				0.00056	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Iron	2	mg/L				0.022	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Iron	9	mg/L				0.022	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Lead	0.0059	mg/L				0.00018	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Lithium	0.14	mg/L				0.0026	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Lithium	0.15	mg/L				0.0026	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Magnesium	200	mg/L				0.011	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Magnesium	220	mg/L				0.011	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Manganese	0.22	mg/L				0.00031	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Manganese	0.27	mg/L				0.00031	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Nickel	0.017	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Nickel	0.022	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Potassium	23	mg/L				0.24	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Potassium	24	mg/L				0.24	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Sodium	530	mg/L				0.092	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Sodium	560	mg/L				0.092	WATER	WG	REG	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	QW130	METAL	Strontium	7.6	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Strontium	8.3	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Thallium	0.00085	mg/L		B		0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Thallium	0.00017	mg/L		B		0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Titanium	0.086	mg/L				0.0006	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Uranium	0.0004	mg/L		B		0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Uranium	0.00041	mg/L		B		0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Vanadium	0.0055	mg/L				0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW130	METAL	Zinc	0.0042	mg/L		B		0.002	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW131	METAL	Zinc	0.012	mg/L				0.002	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Americium-241	0.00514	pCi/L	0.0123	U		0.0197	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Neptunium-237	0.00452	pCi/L	0.0198	U		0.0346	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Plutonium-238	-0.00309	pCi/L	0.0105	U		0.0236	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Plutonium-239/240	0	pCi/L	0.0121	U		0.0236	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Technetium-99	0.125	pCi/L	0.411	U		0.711	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Thorium-228	0.788	pCi/L	0.235			0.2	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Thorium-230	0.429	pCi/L	0.179			0.176	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Thorium-232	0.478	pCi/L	0.169			0.0611	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Uranium-233/234	0.699	pCi/L	0.179			0.0931	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Uranium-235/236	0.0106	pCi/L	0.0398	U		0.067	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW134	RADS	Uranium-238	0.421	pCi/L	0.139			0.0691	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Acetone	4.6	ug/L		J		1.9	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Benzene	0.44	ug/L		J		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	QW133	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW133	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW128	WETCHEM	Alkalinity	670	mg/L				1.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW128	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW128	WETCHEM	Alkalinity as HCO3	670	mg/L				1.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW129	WETCHEM	Ammonium Nitrogen	5.2	mg/L				0.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW128	WETCHEM	Chromium, hexavalent	0.039	mg/L		J		0.004	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW136	WETCHEM	Cyanide	0.0062	mg/L		B		0.002	WATER	WG	REG	BAI	9/25/2012
WD-PZ11C	QW132R	HERB	2,4,5-T	0.0902	ug/L		U		0.0902	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	HERB	2,4-D	0.0902	ug/L		U		0.0902	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	HERB	2,4-DB	0.0902	ug/L		U		0.0902	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	HERB	Dalapon	1.36	ug/L		U		1.36	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	HERB	Dicamba	0.0902	ug/L		U		0.0902	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	HERB	Dichloroprop	0.0902	ug/L		U		0.0902	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	HERB	Dinoseb	0.0902	ug/L		U		0.0902	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	HERB	MCPA	12	ug/L		U		12	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	HERB	MCPP	10.9	ug/L		U		10.9	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	HERB	Silvex	0.0902	ug/L		U		0.0902	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	2,4'-DDD	0.005	ug/L		U		0.005	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	2,4'-DDE	0.006	ug/L		U		0.006	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	2,4'-DDT	0.005	ug/L		U		0.005	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	4,4'-DDD	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	4,4'-DDE	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	4,4'-DDT	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Aldrin	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	alpha-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	alpha-Chlordane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	beta-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Chlordane	0.0765	ug/L		U		0.0765	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	delta-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Dieldrin	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Endosulfan I	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Endosulfan II	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Endosulfan sulfate	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Endrin	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Endrin aldehyde	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Endrin ketone	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	gamma-Chlordane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Heptachlor	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Heptachlor epoxide	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Kepone	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Lindane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Methoxychlor	0.05	ug/L		U		0.05	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	QW132R	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	PPCB	Toxaphene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	1,2,4-Trichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	1,2-Dichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	1,3-Dichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	1,4-Dichlorobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2,4,5-Trichlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2,4,6-Trichlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2,4-Dichlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2,4-Dimethylphenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2,4-Dinitrophenol	5.1	ug/L		U		5.1	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2,4-Dinitrotoluene	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2,6-Dinitrotoluene	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2-Chloronaphthalene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2-Chlorophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2-Methyl-4,6-dinitrophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2-Methylnaphthalene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2-Methylphenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2-Nitrobenzenamine	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	2-Nitrophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	3,3'-Dichlorobenzidine	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	3-Nitrobenzenamine	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	4-Aminobiphenyl	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	4-Bromophenyl phenyl ether	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	4-Chloro-3-methylphenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	4-Chlorobenzenamine	3.37	ug/L		U		3.37	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	4-Chlorophenyl phenyl ether	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	4-Nitrobenzenamine	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	4-Nitrophenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Acenaphthene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Acenaphthylene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Acetophenone	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Anthracene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Benz(a)anthracene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Benzenemethanol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Benzo(a)pyrene	0.449	ug/L		U		0.449	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Benzo(b)fluoranthene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Benzo(ghi)perylene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Benzo(k)fluoranthene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Benzoic acid	6.12	ug/L		U		6.12	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Bis(2-chloroethoxy)methane	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Bis(2-chloroethyl) ether	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	bis(2-Chloroisopropyl)ether	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Bis(2-ethylhexyl)phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Butyl benzyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Chrysene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Dibenz(a,h)anthracene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Dibenzofuran	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Diethyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Dimethyl phthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Di-n-butyl phthalate	4.27	ug/L		BJ		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Di-n-octylphthalate	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Diphenylamine	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Fluoranthene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Fluorene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Hexachlorobenzene	0.00625	ug/L		U		0.00625	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Hexachlorobutadiene	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Hexachlorocyclopentadiene	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Hexachloroethane	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	QW132R	SVOA	Indeno(1,2,3-cd)pyrene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Isophorone	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	m+p Methylphenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Naphthalene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Nitrobenzene	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	N-Nitrosodimethylamine	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	N-Nitroso-di-n-propylamine	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	N-Nitrosomorpholine	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	O,O,O-Triethylphosphorothioate	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Pentachlorophenol	0.0543	ug/L		U		0.0543	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Phenanthrene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Phenol	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Pyrene	0.306	ug/L		U		0.306	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	SVOA	Pyridine	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW132R	VOA	1,4-Dioxane	3.06	ug/L		U		3.06	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW231	WETCHEM	Chromium, hexavalent	0.0086	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/27/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0631	ng/L		J		2.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW420	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	2,4,5-T	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	2,4,5-T	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	2,4-D	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	2,4-D	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	2,4-DB	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	2,4-DB	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	Dalapon	1.39	ug/L		U		1.39	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	Dalapon	1.34	ug/L		JU		1.34	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	Dicamba	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	Dicamba	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	Dichloroprop	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	Dichloroprop	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	Dinoseb	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	Dinoseb	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	MCPA	12.2	ug/L		U		12.2	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	MCPA	11.8	ug/L		JU		11.8	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	MCPP	11.1	ug/L		U		11.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	MCPP	10.8	ug/L		JU		10.8	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	Silvex	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	HERB	Silvex	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	2,4'-DDD	0.00595	ug/L		U		0.00595	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	2,4'-DDE	0.00714	ug/L		U		0.00714	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	2,4'-DDT	0.00595	ug/L		U		0.00595	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	4,4'-DDD	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	4,4'-DDE	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	4,4'-DDT	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Aldrin	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	QW417	PPCB	alpha-BHC	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	alpha-Chlordane	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	beta-BHC	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Chlordane	0.0911	ug/L		U		0.0911	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	delta-BHC	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Dieldrin	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Endosulfan I	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Endosulfan II	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Endosulfan sulfate	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Endrin	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Endrin aldehyde	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Endrin ketone	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	gamma-Chlordane	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Heptachlor	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Heptachlor epoxide	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Kepone	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Lindane	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Methoxychlor	0.0595	ug/L		U		0.0595	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	PPCB	Toxaphene	0.179	ug/L		U		0.179	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Americium-241	0.00356	pCi/L	0.0121	U		0.0107	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Neptunium-237	0.0111	pCi/L	0.0154	U		0.0212	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Plutonium-238	-0.00742	pCi/L	0.0108	U		0.0274	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Plutonium-239/240	0.00247	pCi/L	0.0084	U		0.00742	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Technetium-99	-0.186	pCi/L	0.303	U		0.533	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Thorium-228	0.0128	pCi/L	0.0142	U		0.0218	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Thorium-230	0.0159	pCi/L	0.0161	U		0.0247	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Thorium-232	0.00112	pCi/L	0.00832	U		0.0158	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Uranium-233/234	0.495	pCi/L	0.0988			0.0448	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Uranium-235/236	0.003	pCi/L	0.0188	U		0.0355	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW419	RADS	Uranium-238	0.12	pCi/L	0.0494			0.0288	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	1,2,4-Trichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	1,2-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	1,3-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	1,4-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2,4,5-Trichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2,4,6-Trichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2,4-Dichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2,4-Dimethylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2,4-Dinitrophenol	5.88	ug/L		U		5.88	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2,4-Dinitrotoluene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2,6-Dinitrotoluene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2-Chloronaphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2-Chlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2-Methyl-4,6-dinitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2-Methylnaphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2-Methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	2-Nitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	3,3'-Dichlorobenzidine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	3-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	4-Aminobiphenyl	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	QW417	SVOA	4-Bromophenyl phenyl ether	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	4-Chloro-3-methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	4-Chlorobenzenamine	3.88	ug/L		U		3.88	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	4-Chlorophenyl phenyl ether	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	4-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	4-Nitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Acenaphthene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Acenaphthylene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Acetophenone	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Benz(a)anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Benzenemethanol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Benzo(a)pyrene	0.518	ug/L		U		0.518	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Benzo(b)fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Benzo(ghi)perylene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Benzo(k)fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Benzoic acid	7.06	ug/L		U		7.06	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Bis(2-chloroethoxy)methane	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Bis(2-chloroethyl) ether	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	bis(2-Chloroisopropyl)ether	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Bis(2-ethylhexyl)phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Butyl benzyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Chrysene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Dibenz(a,h)anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Dibenzofuran	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Diethyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Dimethyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Di-n-butyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Di-n-octylphthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Diphenylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Fluorene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Hexachlorobenzene	0.00744	ug/L		U		0.00744	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Hexachlorobutadiene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Hexachlorocyclopentadiene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Hexachloroethane	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Indeno(1,2,3-cd)pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Isophorone	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	m+p Methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Naphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Nitrobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	N-Nitrosodimethylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	N-Nitroso-di-n-propylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	N-Nitrosomorpholine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	O,O,O-Triethylphosphorothioate	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Pentachlorophenol	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Pentachlorophenol	0.0538	ug/L		JU		0.0538	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Phenanthrene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Phenol	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	SVOA	Pyridine	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	QW418	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW417	VOA	1,4-Dioxane	3.53	ug/L		U		3.53	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Acetone	3.2	ug/L		J		1.9	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Benzene	0.62	ug/L		J		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW418	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW414	WETCHEM	Ammonium Nitrogen	5.3	mg/L				0.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW421	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	12/6/2012
WD-PZ11C	QW413R	ANION	Chloride	25000	ug/L				510	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW413R	ANION	Fluoride	160	ug/L		B		120	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW413R	ANION	Nitrate	530	ug/L		B		84	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW413R	ANION	Nitrite as Nitrogen	98	ug/L		U		98	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW413R	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW413R	ANION	Sulfate	1800000	ug/L				23000	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Aluminum	0.12	mg/L				0.018	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Aluminum	0.33	mg/L				0.018	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Antimony	0.00063	mg/L		B		0.0004	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Arsenic	0.001	mg/L		B		0.00033	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Barium	0.032	mg/L				0.00029	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Barium	0.033	mg/L				0.0015	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Calcium	230	mg/L				0.035	WATER	WG	REG	BAI	12/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	QW416R	METAL	Calcium	210	mg/L				0.035	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Chromium	0.0006	mg/L		B		0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Chromium	0.0026	mg/L		B		0.0025	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Cobalt	0.008	mg/L				0.000054	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Cobalt	0.0089	mg/L				0.00027	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Copper	0.001	mg/L		B		0.00056	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Iron	0.8	mg/L				0.022	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Iron	1.3	mg/L				0.022	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Lead	0.00056	mg/L		B		0.00018	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Lithium	0.15	mg/L				0.0026	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Lithium	0.14	mg/L				0.0026	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Magnesium	210	mg/L				0.011	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Magnesium	180	mg/L				0.011	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Manganese	0.27	mg/L				0.00031	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Manganese	0.27	mg/L				0.0016	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Nickel	0.018	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Nickel	0.021	mg/L				0.0015	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Potassium	21	mg/L				0.24	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Selenium	0.00073	mg/L		B		0.0007	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Sodium	480	mg/L				0.092	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Sodium	530	mg/L				0.092	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Strontium	7	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Strontium	7	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Titanium	0.0046	mg/L		B		0.0006	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Uranium	0.00038	mg/L		B		0.00005	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Uranium	0.00048	mg/L		B		0.00025	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Vanadium	0.001	mg/L		B		0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW415R	METAL	Zinc	0.006	mg/L		B		0.002	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW416R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW413R	WETCHEM	Alkalinity	650	mg/L				1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW413R	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW413R	WETCHEM	Alkalinity as HCO3	650	mg/L				1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW422R	WETCHEM	Chromium, hexavalent	0.018	mg/L		BJ		0.004	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	QW423R	WETCHEM	Chromium, hexavalent	0.013	mg/L		BJ		0.004	WATER	WG	REG	BAI	12/10/2012
WD-PZ11C	DC544	ANION	Chloride	24	mg/L				0.51	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC544	ANION	Fluoride	0.14	mg/L		B		0.12	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC544	ANION	Nitrate	0.21	mg/L		B		0.084	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC544	ANION	Nitrite as Nitrogen	0.098	mg/L		U		0.098	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC544	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC544	ANION	Sulfate	1800	mg/L				12	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	DC551	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0202	ng/L		U		0.0202	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00404	ng/L		U		0.00404	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00404	ng/L		U		0.00404	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0404	ng/L		U		0.0404	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC551	DI/FURA	Octachlorodibenzofuran	0.0404	ng/L		U		0.0404	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	HERB	2,4,5-T	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	HERB	2,4-D	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	HERB	2,4-DB	0.106	ug/L		U		0.106	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	HERB	Dalapon	1.33	ug/L		U		1.33	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	HERB	Dicamba	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	HERB	Dichloroprop	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	HERB	Dinoseb	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	HERB	MCPA	11.7	ug/L		U		11.7	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	HERB	MCPP	10.6	ug/L		U		10.6	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	HERB	Silvex	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Aluminum	0.046	mg/L		B		0.018	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Arsenic	0.00033	mg/L		U		0.00033	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Arsenic	0.00033	mg/L		U		0.00033	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Barium	0.019	mg/L				0.00029	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Barium	0.023	mg/L				0.00029	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Calcium	230	mg/L				0.035	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Calcium	200	mg/L				0.035	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Cobalt	0.0017	mg/L				0.000054	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Cobalt	0.0039	mg/L				0.000054	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Copper	0.0014	mg/L		B		0.00056	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Copper	0.0023	mg/L				0.00056	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Iron	4.1	mg/L				0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Iron	2.6	mg/L				0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Lithium	0.15	mg/L				0.0026	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Lithium	0.12	mg/L				0.0026	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Magnesium	230	mg/L				0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Magnesium	190	mg/L				0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Manganese	0.25	mg/L				0.00031	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Manganese	0.32	mg/L				0.00031	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Nickel	0.0056	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Nickel	0.014	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Potassium	23	mg/L				0.24	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	DC547	METAL	Potassium	23	mg/L				0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Sodium	490	mg/L				0.092	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Sodium	460	mg/L				0.092	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Strontium	7.3	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Strontium	6.3	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Titanium	0.00094	mg/L		B		0.0006	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Uranium	0.00018	mg/L		B		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Uranium	0.00055	mg/L		B		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC546	METAL	Zinc	0.0039	mg/L		B		0.002	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC547	METAL	Zinc	0.0041	mg/L		B		0.002	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	2,4'-DDD	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	2,4'-DDE	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	2,4'-DDT	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	4,4'-DDD	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	4,4'-DDE	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	4,4'-DDT	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Aldrin	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	alpha-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	alpha-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	beta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Chlordane	0.0814	ug/L		U		0.0814	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	delta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Dieldrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Endosulfan I	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Endosulfan II	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Endosulfan sulfate	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Endrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Endrin aldehyde	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Endrin ketone	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	gamma-Chlordane	0.011	ug/L		JP		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Heptachlor	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Heptachlor epoxide	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Lindane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Methoxychlor	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	PCB-1016	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	PCB-1221	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	PCB-1232	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	PCB-1242	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	PCB-1248	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	PCB-1254	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	PCB-1260	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	PCB-1268	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Polychlorinated biphenyl	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	PPCB	Toxaphene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC554	RADS	Americium-241	0.00974	pCi/L	0.0191	U		0.0146	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC554	RADS	Neptunium-237	0	pCi/L	0.0211	U		0.0412	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC554	RADS	Plutonium-238	0.00843	pCi/L	0.0199	U		0.0346	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC554	RADS	Plutonium-239/240	0	pCi/L	0.011	U		0.0215	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	DC554	RADS	Technetium-99	0.377	pCi/L	0.381	U		0.637	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC554	RADS	Thorium-228	0.0749	pCi/L	0.0317			0.0232	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC554	RADS	Thorium-230	0.0296	pCi/L	0.0257	U		0.036	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC554	RADS	Thorium-232	0.0052	pCi/L	0.014	U		0.0231	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC554	RADS	Uranium-233/234	0.263	pCi/L	0.0948			0.049	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC554	RADS	Uranium-235/236	-0.00521	pCi/L	0.0249	U		0.0606	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC554	RADS	Uranium-238	0.117	pCi/L	0.067			0.0589	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2-Chloronaphthalene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Benzo(a)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Bis(2-chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Di-n-butyl phthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	DC550	SVOA	Hexachlorobenzene	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Isophorone	3.5	ug/L		U		3.5	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	m,p-cresol	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Pentachlorophenol	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Phenol	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC550	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Benzene	0.16	ug/L		J		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ11C	DC553	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC553	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC544	WETCHEM	Alkalinity	640	mg/L				1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC544	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC544	WETCHEM	Alkalinity as HCO3	640	mg/L				1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC545	WETCHEM	Ammonia	4.9	mg/L				0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC545	WETCHEM	Ammonium Nitrogen	4.9	mg/L				0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC548	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC549	WETCHEM	Chromium, hexavalent	0.004	mg/L		BJ		0.004	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC552	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/24/2013
WD-PZ11C	DC544	WETCHEM	Dissolved Solids	3100	mg/L				9.4	WATER	WG	REG	BP	6/24/2013
WD-PZ12C	WDPZ12-01-02	ANION	Chloride	31	mg/L			XV	0.51	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-01-02	ANION	Fluoride	0.2	mg/L		B	XV	0.12	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-01-02	ANION	Nitrate	0.084	mg/L		U	XV	0.084	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-01-02	ANION	Orthophosphate	0.37	mg/L		U	XV	0.37	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-01-02	ANION	Sulfate	2200	mg/L			XV	12	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Aluminum	18	ug/L		U	XV	18	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Aluminum	18	mg/L			XV	0.018	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Antimony	3.1	ug/L		U	XV	3.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Arsenic	5.1	ug/L			XV	0.33	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Arsenic	0.035	mg/L			XV	0.00033	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Barium	30	ug/L			XV	0.58	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Barium	0.091	mg/L			XV	0.00058	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Beryllium	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Beryllium	0.0013	mg/L			XV	0.00047	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Cadmium	0.11	ug/L		B	XV	0.04	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Cadmium	0.00022	mg/L		B	XV	0.00004	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Calcium	220000	ug/L			XV	35	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Calcium	200	mg/L			XV	0.035	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Chromium	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Chromium	0.027	mg/L			XV	0.00066	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Cobalt	61	ug/L			XV	1.2	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Cobalt	0.072	mg/L			XV	0.0012	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Copper	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Copper	0.018	mg/L			XV	0.0014	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Iron	22	ug/L		U	XV	22	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Iron	34	mg/L			XV	0.022	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Lead	0.66	ug/L		B	XV	0.18	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Lead	0.029	mg/L			XV	0.00018	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Magnesium	660000	ug/L			XV	11	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Magnesium	630	mg/L			XV	0.011	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Manganese	33	ug/L			XV	0.25	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Manganese	0.36	mg/L			XV	0.00025	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Mercury	0.073	ug/L		B	XV	0.027	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Mercury	0.00011	mg/L		B	XV	0.000027	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Molybdenum	3.1	ug/L			XV	0.14	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Molybdenum	0.0027	mg/L			XV	0.00014	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Nickel	88	ug/L			XV	1.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Nickel	0.11	mg/L			XV	0.0013	WATER	WG	REG	BAI	11/22/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-03-02	METAL	Potassium	19000	ug/L			XV	240	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Potassium	21	mg/L			XV	0.24	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Selenium	1.2	ug/L		B	XV	0.7	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Selenium	0.0016	mg/L		B	XV	0.0007	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Silver	0.93	ug/L		U	XV	0.93	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Sodium	180000	ug/L			XV	92	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Sodium	170	mg/L			XV	0.092	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Thallium	0.049	ug/L		B	XV	0.033	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Thallium	0.00016	mg/L		B	XV	0.000033	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Uranium	4.9	ug/L			XV	0.02	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Uranium	0.0056	mg/L			XV	0.00002	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Vanadium	1.9	ug/L		B	XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Vanadium	0.05	mg/L			XV	0.0011	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-03-02	METAL	Zinc	6.2	ug/L		B	XV	4.5	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-04-02	METAL	Zinc	0.073	mg/L			XV	0.0045	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	PPCB	PCB-1221	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	PPCB	PCB-1248	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	PPCB	PCB-1260	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	PPCB	Polychlorinated biphenyl	0.095	ug/L		U	XV	0.095	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-09-02	RADS	Alpha activity	19.9	pCi/L	7.75	U	XV	43.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-09-02	RADS	Americium-241	0.0368	pCi/L	0.026	U	XV	0.117	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-09-02	RADS	Beta activity	43.2	pCi/L	8.43	U	XV	37.2	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-09-02	RADS	Neptunium-237	0.00967	pCi/L	0.00837	U	XV	0.037	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-09-02	RADS	Plutonium-238	0.0703	pCi/L	0.0202	J	XV	0.0413	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-09-02	RADS	Plutonium-239/240	0.0594	pCi/L	0.0187	U	XV	0.0413	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-09-02	RADS	Technetium-99	1.74	pCi/L	1.69	U	XV	5.61	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-09-02	RADS	Uranium-233/234	6.57	pCi/L	0.182		XV	0.0385	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-09-02	RADS	Uranium-235	0.211	pCi/L	0.0368	J	XV	0.0475	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-09-02	RADS	Uranium-238	4.19	pCi/L	0.145		XV	0.0384	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	1,3-Dichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2,4,5-Trichlorophenol	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2,4,6-Trichlorophenol	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2,4-Dichlorophenol	0.72	ug/L		U	XV	0.72	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2,4-Dimethylphenol	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2,4-Dinitrophenol	11	ug/L		U	XV	11	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2,6-Dinitrotoluene	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2-Chloronaphthalene	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.5	ug/L		U	XV	4.5	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2-Methylnaphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	2-Nitrophenol	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	4-Bromophenyl phenyl ether	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	4-Methylphenol	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BAI	11/22/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-05-02	SVOA	Acenaphthene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Acenaphthylene	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Anthracene	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Benz(a)anthracene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Benzo(a)pyrene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Benzo(b)fluoranthene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Benzo(ghi)perylene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Benzo(k)fluoranthene	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Benzoic acid	11	ug/L		U	XV	11	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Butyl benzyl phthalate	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Chrysene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Dibenz(a,h)anthracene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Dibenzofuran	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Diethyl phthalate	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Dimethyl phthalate	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Di-n-butyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Di-n-octylphthalate	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Fluorene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Hexachlorobenzene	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Hexachlorobutadiene	3.7	ug/L		U	XV	3.7	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Hexachlorocyclopentadiene	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Hexachloroethane	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.74	ug/L		U	XV	0.74	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Isophorone	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Naphthalene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Nitrobenzene	0.92	ug/L		U	XV	0.92	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	N-Nitrosodiphenylamine	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Phenanthrene	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-05-02	SVOA	Pyrene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/22/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Methylene chloride	0.37	ug/L		BJ	XV	0.32	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-01-02	WETCHEM	Alkalinity	1300	mg/L			XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-01-02	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-01-02	WETCHEM	Alkalinity as HCO3	1300	mg/L			XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-02-02	WETCHEM	Ammonium Nitrogen	0.51	mg/L			XV	0.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ12C	WDPZ12-01-03	ANION	Chloride	30	mg/L			XV	0.51	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-01-03	ANION	Fluoride	0.29	mg/L		B	XV	0.12	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-01-03	ANION	Nitrate	0.084	mg/L		U	XV	0.084	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-01-03	ANION	Orthophosphate	0.37	mg/L		U	XV	0.37	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-01-03	ANION	Sulfate	2200	mg/L			XV	12	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Aluminum	0.34	mg/L			XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Arsenic	0.00052	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Arsenic	0.0023	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Barium	0.029	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Barium	0.035	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Cadmium	0.00004	mg/L		U	XV	0.00004	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Calcium	190	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Calcium	200	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Chromium	0.00088	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Cobalt	0.014	mg/L			XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Cobalt	0.014	mg/L			XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Copper	0.002	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Iron	0.62	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Iron	5.6	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Lead	0.0014	mg/L			XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Magnesium	550	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Magnesium	600	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Manganese	0.093	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Manganese	0.12	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Molybdenum	0.0028	mg/L			XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Molybdenum	0.0031	mg/L			XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Nickel	0.024	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Nickel	0.027	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Potassium	17	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Potassium	18	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Selenium	0.00093	mg/L		B	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Sodium	160	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-04-03	METAL	Sodium	170	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Thallium	0.000033	mg/L		U	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Thallium	0.000058	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Uranium	0.0048	mg/L			XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Uranium	0.0051	mg/L			XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Vanadium	0.0016	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Vanadium	0.0024	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-03-03	METAL	Zinc	0.0059	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-04-03	METAL	Zinc	0.0084	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	PPCB	PCB-1221	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	PPCB	PCB-1232	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	PPCB	Polychlorinated biphenyl	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-09-03	RADS	Alpha activity	1.13	pCi/L	3.37	U		26.6	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-09-03	RADS	Americium-241	0.024	pCi/L	0.0117	U		0.0367	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-09-03	RADS	Beta activity	-11.7	pCi/L	1.59	U		14.5	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-09-03	RADS	Neptunium-237	0	pCi/L	0.00794	U		0.0537	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-09-03	RADS	Plutonium-238	-0.00671	pCi/L	-0.015	U		0.0966	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-09-03	RADS	Plutonium-239/240	0.00671	pCi/L	0.00948	U		0.0513	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-09-03	RADS	Technetium-99	0.811	pCi/L	1.66	U	XV	5.54	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-09-03	RADS	Uranium-233/234	0.961	pCi/L	0.102			0.0826	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-09-03	RADS	Uranium-235	0.0267	pCi/L	0.0267	U		0.128	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-09-03	RADS	Uranium-238	0.344	pCi/L	0.0618	J		0.0823	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2,4,5-Trichlorophenol	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2,4-Dichlorophenol	0.78	ug/L		U	XV	0.78	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2,4-Dimethylphenol	0.71	ug/L		U	XV	0.71	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2,4-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2-Chloronaphthalene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2-Chlorophenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.9	ug/L		U	XV	4.9	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2-Methylnaphthalene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	2-Nitrophenol	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	3-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	4-Bromophenyl phenyl ether	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U	XV	2.9	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	4-Methylphenol	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	4-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	4-Nitrophenol	1.5	ug/L		U	XV	1.5	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Acenaphthene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Acenaphthylene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Anthracene	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Benz(a)anthracene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Benzo(a)pyrene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Benzo(b)fluoranthene	0.65	ug/L		U	XV	0.65	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Benzo(ghi)perylene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-05-03	SVOA	Benzo(k)fluoranthene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.77	ug/L		J	XV	0.69	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Chrysene	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Dibenz(a,h)anthracene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Dibenzofuran	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Diethyl phthalate	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Dimethyl phthalate	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Di-n-octylphthalate	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Fluoranthene	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Fluorene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Hexachlorobenzene	0.81	ug/L		U	XV	0.81	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Hexachlorobutadiene	4	ug/L		U	XV	4	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Hexachloroethane	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.8	ug/L		U	XV	0.8	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Isophorone	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Naphthalene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Nitrobenzene	0.99	ug/L		U	XV	0.99	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	N-Nitroso-di-n-propylamine	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	N-Nitrosodiphenylamine	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Pentachlorophenol	24	ug/L		U	XV	24	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Phenanthrene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Phenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-05-03	SVOA	Pyrene	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Acetone	4.6	ug/L		J	XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Bromodichloromethane	0.46	ug/L		J	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Chloroform	0.53	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Dibromochloromethane	0.44	ug/L		J	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Methylene chloride	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-01-03	WETCHEM	Alkalinity	1200	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-01-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-01-03	WETCHEM	Alkalinity as HCO3	1200	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-02-03	WETCHEM	Ammonium Nitrogen	0.29	mg/L				0.1	WATER	WG	REG	BP	12/14/2011
WD-PZ12C	WDPZ12-01-04	ANION	Chloride	29	mg/L				0.51	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-01-04	ANION	Fluoride	0.3	mg/L		B		0.12	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-01-04	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-01-04	ANION	Orthophosphate	0.37	mg/L		JU		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-01-04	ANION	Sulfate	1900	mg/L				12	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Aluminum	0.59	mg/L				0.018	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Arsenic	0.00047	mg/L		B		0.00033	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Arsenic	0.0043	mg/L		B		0.00033	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Barium	0.035	mg/L				0.00058	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Barium	0.04	mg/L				0.00058	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Cadmium	0.00011	mg/L		B		0.00004	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Calcium	220	mg/L				0.035	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Calcium	210	mg/L				0.035	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Chromium	0.0014	mg/L		B		0.00066	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Cobalt	0.013	mg/L				0.0012	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Cobalt	0.014	mg/L				0.0012	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Copper	0.0046	mg/L		B		0.0014	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Copper	0.0059	mg/L		B		0.0014	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Iron	3.8	mg/L				0.022	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Iron	8.3	mg/L				0.022	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Lead	0.0035	mg/L				0.00018	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Magnesium	590	mg/L				0.011	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Magnesium	560	mg/L				0.011	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Manganese	0.19	mg/L				0.00025	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Manganese	0.17	mg/L				0.00025	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Molybdenum	0.0027	mg/L				0.00014	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Molybdenum	0.0024	mg/L				0.00014	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Nickel	0.024	mg/L		B		0.0013	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Nickel	0.025	mg/L		B		0.0013	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Sodium	180	mg/L				0.092	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Sodium	170	mg/L				0.092	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Thallium	0.000041	mg/L		B		0.000033	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Uranium	0.0039	mg/L				0.00002	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Uranium	0.0038	mg/L				0.00002	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-03-04	METAL	Vanadium	0.0021	mg/L		B		0.0011	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Vanadium	0.0043	mg/L		B		0.0011	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-03-04	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-04-04	METAL	Zinc	0.0075	mg/L		B		0.0045	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-09-04	RADS	Alpha activity	3.65	pCi/L	4.32	U		16.5	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-09-04	RADS	Americium-241	0.0291	pCi/L	0.0129	U		0.0372	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-09-04	RADS	Beta activity	11.8	pCi/L	4.65	U		14.3	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-09-04	RADS	Neptunium-237	0.0125	pCi/L	0.00831	U		0.0318	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-09-04	RADS	Plutonium-238	0	pCi/L	0.0101	U		0.0545	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-09-04	RADS	Plutonium-239/240	0.0285	pCi/L	0.0159	U		0.0545	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-09-04	RADS	Technetium-99	3.01	pCi/L	1.7	U		5.6	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-09-04	RADS	Uranium-233/234	3.07	pCi/L	0.134			0.0444	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-09-04	RADS	Uranium-235	0.0286	pCi/L	0.016	U		0.0547	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-09-04	RADS	Uranium-238	1.32	pCi/L	0.0876			0.0553	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2,4,5-Trichlorophenol	0.55	ug/L		U		0.55	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2,4-Dichlorophenol	0.79	ug/L		U		0.79	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2,4-Dimethylphenol	0.72	ug/L		U		0.72	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2-Chloronaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2-Methyl-4,6-dinitrophenol	4.9	ug/L		U		4.9	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2-Methylnaphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	2-Nitrophenol	0.48	ug/L		U		0.48	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	4-Bromophenyl phenyl ether	0.53	ug/L		U		0.53	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	4-Methylphenol	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Acenaphthylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Anthracene	0.52	ug/L		U		0.52	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Benz(a)anthracene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Benzo(b)fluoranthene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Benzo(ghi)perylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Benzo(k)fluoranthene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Bis(2-ethylhexyl)phthalate	3.2	ug/L		BJ		0.69	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Chrysene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-05-04	SVOA	Dibenz(a,h)anthracene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Dibenzofuran	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Diethyl phthalate	0.47	ug/L		U		0.47	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Dimethyl phthalate	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Di-n-octylphthalate	0.43	ug/L		U		0.43	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Hexachlorobenzene	0.81	ug/L		U		0.81	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Hexachlorobutadiene	4.1	ug/L		U		4.1	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Naphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	N-Nitroso-di-n-propylamine	0.43	ug/L		U		0.43	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	N-Nitrosodiphenylamine	0.54	ug/L		U		0.54	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Phenanthrene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-05-04	SVOA	Pyrene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Acetone	92	ug/L				1.9	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Benzene	0.92	ug/L		J		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Bromodichloromethane	0.22	ug/L		J		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Chloroform	0.32	ug/L		J		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Dibromochloromethane	0.2	ug/L		J		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Methylene chloride	0.56	ug/L		BJ		0.32	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Toluene	1.1	ug/L				0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-01-04	WETCHEM	Alkalinity	1200	mg/L				1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-01-04	WETCHEM	Alkalinity as HCO3	1200	mg/L				1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ12C	WDPZ12-02-04	WETCHEM	Ammonium Nitrogen	0.96	mg/L				0.1	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-01-05	ANION	Chloride	31	mg/L				0.51	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-01-05	ANION	Fluoride	0.25	mg/L		B		0.12	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-01-05	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-01-05	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-01-05	ANION	Sulfate	2100	mg/L				12	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Aluminum	0.26	mg/L				0.018	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Arsenic	0.0015	mg/L		B		0.00033	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Arsenic	0.0029	mg/L		B		0.00033	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Barium	0.037	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Barium	0.039	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Calcium	220	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Calcium	220	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Chromium	0.0012	mg/L		B		0.00066	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Cobalt	0.011	mg/L				0.0012	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Cobalt	0.011	mg/L				0.0012	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Copper	0.0021	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Copper	0.0029	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Iron	3.9	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Iron	7.5	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Lead	0.0018	mg/L				0.00018	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Magnesium	580	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Magnesium	580	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Manganese	0.2	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Manganese	0.22	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Molybdenum	0.0017	mg/L		B		0.00014	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Molybdenum	0.0015	mg/L		B		0.00014	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Nickel	0.017	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Nickel	0.018	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Sodium	180	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Sodium	180	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Uranium	0.0033	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Uranium	0.0036	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Vanadium	0.0014	mg/L		B		0.0011	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Vanadium	0.0022	mg/L		B		0.0011	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-03-05	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-04-05	METAL	Zinc	0.0055	mg/L		B		0.0045	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	PPCB	PCB-1221	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-05-05	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	PPCB	Polychlorinated biphenyl	0.094	ug/L		U		0.094	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-09-05	RADS	Alpha activity	4.29	pCi/L	7.42	U		26.7	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-09-05	RADS	Americium-241	0.0415	pCi/L	0.0153	U		0.0442	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-09-05	RADS	Beta activity	3.47	pCi/L	6.93	U		19.6	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-09-05	RADS	Neptunium-237	0.00453	pCi/L	0.0064	U		0.0346	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-09-05	RADS	Plutonium-238	0.0113	pCi/L	0.00978	U		0.0432	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-09-05	RADS	Plutonium-239/240	0	pCi/L	0.00798	U		0.0432	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-09-05	RADS	Technetium-99	1.9	pCi/L	1.68	U		5.57	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-09-05	RADS	Uranium-233/234	3.04	pCi/L	0.13			0.0421	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-09-05	RADS	Uranium-235	0.0475	pCi/L	0.0225	U		0.0835	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-09-05	RADS	Uranium-238	1.23	pCi/L	0.0822			0.0419	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2,4-Dichlorophenol	0.76	ug/L		U		0.76	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2,4-Dimethylphenol	0.68	ug/L		U		0.68	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U		4.7	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	2-Nitrophenol	0.46	ug/L		U		0.46	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Acenaphthylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Benz(a)anthracene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Benzo(ghi)perylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Bis(2-ethylhexyl)phthalate	3.3	ug/L		BJ		0.66	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Chrysene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Di-n-octylphthalate	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-05-05	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Hexachlorobenzene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.77	ug/L		U		0.77	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Nitrobenzene	0.96	ug/L		U		0.96	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U		0.52	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-05-05	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Benzene	1.4	ug/L				0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Chloroform	0.19	ug/L		J		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Methylene chloride	0.47	ug/L		BJ		0.32	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Toluene	1.7	ug/L				0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-01-05	WETCHEM	Alkalinity	1200	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-01-05	WETCHEM	Alkalinity as HCO3	1200	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-02-05	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ12C	WDPZ12-01-06	ANION	Chloride	32	mg/L				0.51	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-01-06	ANION	Fluoride	0.25	mg/L		B		0.12	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-01-06	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-01-06	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-01-06	ANION	Sulfate	2200	mg/L				12	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Aluminum	0.25	mg/L				0.018	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Arsenic	0.0013	mg/L		B		0.00033	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Arsenic	0.0028	mg/L		B		0.00033	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Barium	0.037	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Barium	0.039	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Cadmium	0.000045	mg/L		B		0.00004	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Cadmium	0.000064	mg/L		B		0.00004	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Calcium	230	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Calcium	220	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Chromium	0.00075	mg/L		B		0.00066	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Cobalt	0.0097	mg/L		B		0.0012	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Cobalt	0.01	mg/L				0.0012	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Copper	0.0017	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Copper	0.0039	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Iron	5.3	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Iron	9.2	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Lead	0.0011	mg/L				0.00018	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Magnesium	580	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Magnesium	570	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Manganese	0.22	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Manganese	0.25	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Mercury	0.000031	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Mercury	0.00003	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Molybdenum	0.0011	mg/L		B		0.00014	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Molybdenum	0.0014	mg/L		B		0.00014	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Nickel	0.012	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Nickel	0.014	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Sodium	190	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Sodium	190	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Uranium	0.0036	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Uranium	0.0034	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Vanadium	0.0013	mg/L		B		0.0011	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Vanadium	0.0016	mg/L		B		0.0011	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-04-06	METAL	Zinc	0.0051	mg/L		B		0.0045	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	PPCB	PCB-1221	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	PPCB	Polychlorinated biphenyl	0.097	ug/L		U		0.097	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-09-06	RADS	Alpha activity	19.6	pCi/L	10.8	U	U	25.7	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-09-06	RADS	Americium-241	0.0625	pCi/L	0.0167	J	J	0.0319	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-09-06	RADS	Beta activity	8.95	pCi/L	6.79	U	U	16.8	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-09-06	RADS	Neptunium-237	0	pCi/L	0.00604	U	U	0.0326	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-09-06	RADS	Plutonium-238	0.0124	pCi/L	0.0107	U	U	0.0472	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-09-06	RADS	Plutonium-239/240	0.037	pCi/L	0.0163	U	U	0.0472	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-09-06	RADS	Technetium-99	-0.697	pCi/L	1.68	U	U	5.65	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-09-06	RADS	Uranium-233/234	2.74	pCi/L	0.13		=	0.0473	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-09-06	RADS	Uranium-235	0.0686	pCi/L	0.0241	U	UJ	0.0583	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-09-06	RADS	Uranium-238	1.15	pCi/L	0.0844		=	0.0471	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U		0.52	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2,4-Dichlorophenol	0.74	ug/L		U		0.74	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2,4-Dimethylphenol	0.67	ug/L		U		0.67	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U		4.6	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	2-Nitrophenol	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	4-Methylphenol	0.29	ug/L		U		0.29	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Acenaphthene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Acenaphthylene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Anthracene	0.49	ug/L		U		0.49	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Benz(a)anthracene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Benzo(a)pyrene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Benzo(b)fluoranthene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Benzo(ghi)perylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Benzo(k)fluoranthene	0.53	ug/L		U		0.53	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Bis(2-ethylhexyl)phthalate	4.2	ug/L		BJ		0.65	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Chrysene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Diethyl phthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Di-n-octylphthalate	3.1	ug/L		J		0.4	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Fluorene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Hexachlorobenzene	0.76	ug/L		U		0.76	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Hexachlorobutadiene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.75	ug/L		U		0.75	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-05-06	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Nitrobenzene	0.94	ug/L		U		0.94	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	N-Nitroso-di-n-propylamine	0.4	ug/L		U		0.4	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-05-06	SVOA	Pyrene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	1,2-Dimethylbenzene	0.25	ug/L		J		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Acetone	9.3	ug/L		J		1.9	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Benzene	1.6	ug/L				0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	M + P Xylene	0.38	ug/L		J		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Toluene	1.9	ug/L				0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-01-06	WETCHEM	Alkalinity	1200	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-01-06	WETCHEM	Alkalinity as HCO3	1200	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-02-06	WETCHEM	Ammonium Nitrogen	1	mg/L				0.1	WATER	WG	REG	BP	3/19/2012
WD-PZ12C	WDPZ12-01-07	ANION	Chloride	31	mg/L				0.51	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-01-07	ANION	Fluoride	0.25	mg/L		B		0.12	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-01-07	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-01-07	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-01-07	ANION	Sulfate	2100	mg/L				12	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Aluminum	0.33	mg/L				0.018	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Arsenic	0.0011	mg/L		B		0.00033	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Arsenic	0.0018	mg/L		B		0.00033	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Barium	0.04	mg/L				0.00058	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Barium	0.042	mg/L				0.00058	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	GRA	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Calcium	240	mg/L				0.035	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Calcium	240	mg/L				0.035	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Chromium	0.00073	mg/L		B		0.00066	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Cobalt	0.0095	mg/L		B		0.0012	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Cobalt	0.01	mg/L				0.0012	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Copper	0.0038	mg/L		B		0.0014	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Iron	5.6	mg/L				0.022	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Iron	8.6	mg/L				0.022	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Lead	0.0012	mg/L				0.00018	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Magnesium	620	mg/L				0.011	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Magnesium	610	mg/L				0.011	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Manganese	0.23	mg/L				0.00025	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Manganese	0.25	mg/L				0.00025	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Molybdenum	0.001	mg/L		B		0.00014	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Molybdenum	0.0011	mg/L		B		0.00014	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Nickel	0.012	mg/L		B		0.0013	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Nickel	0.014	mg/L		B		0.0013	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Potassium	21	mg/L				0.24	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Sodium	200	mg/L				0.092	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Sodium	200	mg/L				0.092	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Uranium	0.0033	mg/L				0.00005	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Uranium	0.0032	mg/L				0.00005	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Vanadium	0.0022	mg/L		B		0.0011	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Vanadium	0.0031	mg/L		B		0.0011	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-04-07	METAL	Zinc	0.0049	mg/L		B		0.0045	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	PPCB	PCB-1221	0.24	ug/L		U		0.24	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	PPCB	Polychlorinated biphenyl	0.095	ug/L		U		0.095	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-09-07	RADS	Alpha activity	25.2	pCi/L	13.2	U	U	30	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-09-07	RADS	Americium-241	0.0346	pCi/L	0.0162	U	U	0.0622	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-09-07	RADS	Beta activity	4.88	pCi/L	11.8	U	UJ	32.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-09-07	RADS	Neptunium-237	0.0153	pCi/L	0.0102	U	U	0.039	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-09-07	RADS	Plutonium-238	0.00488	pCi/L	0.0069	U	U	0.0373	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-09-07	RADS	Plutonium-239/240	0.0244	pCi/L	0.0119	U	U	0.0373	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-09-07	RADS	Technetium-99	-0.207	pCi/L	1.63	U	U	5.48	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-09-07	RADS	Uranium-233/234	2.59	pCi/L	0.121		=	0.0435	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-09-07	RADS	Uranium-235	0.0771	pCi/L	0.0243	U	UJ	0.0536	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-09-07	RADS	Uranium-238	1.16	pCi/L	0.0812		=	0.0433	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	GRA	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-05-07	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U		0.54	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2,4,6-Trichlorophenol	0.35	ug/L		U		0.35	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2,4-Dichlorophenol	0.76	ug/L		U		0.76	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2,4-Dimethylphenol	0.69	ug/L		U		0.69	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U		4.8	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2-Methylnaphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	2-Nitrophenol	0.47	ug/L		U		0.47	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U		2.9	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Acenaphthylene	0.58	ug/L		U		0.58	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Benz(a)anthracene	0.42	ug/L		U		0.42	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Benzo(ghi)perylene	0.6	ug/L		U		0.6	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U		0.55	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Bis(2-ethylhexyl)phthalate	2.5	ug/L		BJ		0.67	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Chrysene	0.64	ug/L		U		0.64	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U		0.61	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Dibenzofuran	0.35	ug/L		U		0.35	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Di-n-octylphthalate	0.42	ug/L		U		0.42	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Hexachlorobenzene	0.79	ug/L		U		0.79	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.78	ug/L		U		0.78	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Naphthalene	0.35	ug/L		U		0.35	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Nitrobenzene	0.97	ug/L		U		0.97	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U		0.42	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U		0.52	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-05-07	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	GRA	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	WDPZ12-05-07	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Benzene	1.9	ug/L				0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Toluene	2	ug/L				0.17	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-01-07	WETCHEM	Alkalinity	1200	mg/L				1.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-01-07	WETCHEM	Alkalinity as HCO3	1200	mg/L				1.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	WDPZ12-02-07	WETCHEM	Ammonium Nitrogen	4.8	mg/L				0.1	WATER	WG	REG	GRA	4/11/2012
WD-PZ12C	QW137	ANION	Chloride	21000	ug/L				250	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW137	ANION	Fluoride	190	ug/L		B		60	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW137	ANION	Nitrate	89	ug/L		B		42	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW137	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW137	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW137	ANION	Sulfate	1200000	ug/L				12000	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW144	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0826	ng/L		J		2.5	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW144	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	HERB	2,4,5-T	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	HERB	2,4-D	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	HERB	2,4-DB	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	HERB	Dalapon	1.34	ug/L		U		1.34	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	HERB	Dicamba	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	HERB	Dichloroprop	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	HERB	Dinoseb	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	HERB	MCPA	11.8	ug/L		U		11.8	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	HERB	MCPP	10.8	ug/L		U		10.8	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	HERB	Silvex	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Aluminum	0.23	mg/L				0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Barium	0.014	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Barium	0.016	mg/L				0.00029	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Calcium	140	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Calcium	150	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Chromium	0.004	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Chromium	0.006	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Cobalt	0.002	mg/L		B		0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Cobalt	0.0022	mg/L		B		0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Copper	0.0058	mg/L		B		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Copper	0.0064	mg/L		B		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Iron	0.035	mg/L		B		0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Iron	0.42	mg/L				0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Lead	0.00094	mg/L		B		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Lithium	0.13	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Lithium	0.15	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Magnesium	250	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Magnesium	260	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Manganese	0.42	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Manganese	0.43	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Nickel	0.006	mg/L		B		0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Nickel	0.0067	mg/L		B		0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Sodium	170	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Sodium	190	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Strontium	3.4	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Strontium	3.8	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW139	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Titanium	0.0025	mg/L		B		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Uranium	0.00083	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Uranium	0.0008	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW139	METAL	Zinc	0.62	mg/L				0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW140	METAL	Zinc	0.6	mg/L				0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Kepone	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	PCB-1016	0.0354	ug/L		U		0.0354	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	PCB-1221	0.0354	ug/L		U		0.0354	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	PCB-1232	0.0354	ug/L		U		0.0354	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	PCB-1242	0.0354	ug/L		U		0.0354	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	PCB-1248	0.0354	ug/L		U		0.0354	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	PCB-1254	0.0354	ug/L		U		0.0354	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	PCB-1260	0.0354	ug/L		U		0.0354	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	PCB-1268	0.0354	ug/L		U		0.0354	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Polychlorinated biphenyl	0.0354	ug/L		U		0.0354	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Americium-241	0.068	pCi/L	0.352	U		0.651	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Neptunium-237	-0.0207	pCi/L	0.0704	U		0.149	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Plutonium-238	0.00186	pCi/L	0.147	U		0.283	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Plutonium-239/240	-0.0186	pCi/L	0.142	U		0.283	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Technetium-99	0.333	pCi/L	0.416	U		0.702	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Thorium-228	0.0179	pCi/L	0.0633	U		0.115	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Thorium-230	-0.0522	pCi/L	0.0761	U		0.168	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Thorium-232	0.0437	pCi/L	0.0473			0.0412	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Uranium-233/234	0.912	pCi/L	0.258			0.184	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Uranium-235/236	0.0158	pCi/L	0.0593	U		0.0997	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW143	RADS	Uranium-238	0.236	pCi/L	0.128			0.0505	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	1,2,4-Trichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	1,2-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	1,3-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	1,4-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW141	SVOA	2,4,5-Trichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2,4,6-Trichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2,4-Dichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2,4-Dimethylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2,4-Dinitrophenol	5.38	ug/L		U		5.38	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2,4-Dinitrotoluene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2,6-Dinitrotoluene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2-Chloronaphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2-Chlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2-Methyl-4,6-dinitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2-Methylnaphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2-Methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	2-Nitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	3,3'-Dichlorobenzidine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	3-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	4-Aminobiphenyl	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	4-Bromophenyl phenyl ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	4-Chloro-3-methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	4-Chlorobenzenamine	3.55	ug/L		U		3.55	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	4-Chlorophenyl phenyl ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	4-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	4-Nitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Acenaphthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Acenaphthylene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Acetophenone	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Benz(a)anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Benzenemethanol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Benzo(a)pyrene	0.473	ug/L		U		0.473	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Benzo(b)fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Benzo(ghi)perylene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Benzo(k)fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Benzoic acid	6.45	ug/L		U		6.45	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Bis(2-chloroethoxy)methane	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Bis(2-chloroethyl) ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	bis(2-Chloroisopropyl)ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Bis(2-ethylhexyl)phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Butyl benzyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Chrysene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Dibenz(a,h)anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Dibenzofuran	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Diethyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Dimethyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Di-n-butyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Di-n-octylphthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Diphenylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Fluorene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Hexachlorobutadiene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Hexachlorocyclopentadiene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Hexachloroethane	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Indeno(1,2,3-cd)pyrene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Isophorone	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	m+p Methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Naphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Nitrobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	N-Nitrosodimethylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	N-Nitroso-di-n-propylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW141	SVOA	N-Nitrosomorpholine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	O,O,O-Triethylphosphorothioate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Pentachlorophenol	0.0538	ug/L		U		0.0538	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Phenanthrene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Phenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Pyrene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	SVOA	Pyridine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW141	VOA	1,4-Dioxane	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW142	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW137	WETCHEM	Alkalinity	620	mg/L				1.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW137	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW137	WETCHEM	Alkalinity as HCO3	620	mg/L				1.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW138	WETCHEM	Ammonium Nitrogen	0.85	mg/L				0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW236	WETCHEM	Chromium, hexavalent	0.0051	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW237	WETCHEM	Chromium, hexavalent	0.0069	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW145	WETCHEM	Cyanide	0.007	mg/L		B		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ12C	QW425	ANION	Chloride	26000	ug/L				510	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW425	ANION	Fluoride	230	ug/L		B		120	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW425	ANION	Nitrate	220	ug/L		B		84	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW425	ANION	Nitrite as Nitrogen	98	ug/L		U		98	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW425	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW425	ANION	Sulfate	1800000	ug/L				12000	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		0.0591	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW432	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	HERB	2,4,5-T	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	HERB	2,4-D	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	HERB	2,4-DB	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	HERB	Dalapon	1.45	ug/L		U		1.45	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	HERB	Dicamba	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	HERB	Dichloroprop	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	HERB	Dinoseb	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	HERB	MCPA	12.8	ug/L		U		12.8	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	HERB	MCPP	11.6	ug/L		U		11.6	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	HERB	Silvex	0.0965	ug/L		U		0.0965	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Aluminum	2	mg/L				0.018	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Antimony	0.00065	mg/L		B		0.0004	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Antimony	0.0014	mg/L		B		0.0004	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Arsenic	0.00048	mg/L		B		0.00033	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Arsenic	0.0064	mg/L				0.00033	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Barium	0.017	mg/L				0.00029	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Barium	0.027	mg/L				0.00029	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Beryllium	0.00036	mg/L		B		0.00008	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Calcium	130	mg/L				0.035	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Calcium	130	mg/L				0.035	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Chromium	0.0055	mg/L				0.0005	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Cobalt	0.0061	mg/L				0.000054	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Cobalt	0.01	mg/L				0.000054	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Copper	0.0029	mg/L				0.00056	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Copper	0.0069	mg/L				0.00056	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Iron	7.5	mg/L				0.022	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW428	METAL	Lead	0.0049	mg/L				0.00018	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Lithium	0.22	mg/L				0.0026	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Lithium	0.24	mg/L				0.0026	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Magnesium	490	mg/L				0.011	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Magnesium	510	mg/L				0.011	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Manganese	0.046	mg/L				0.00031	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Manganese	0.12	mg/L				0.00031	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Mercury	0.000039	mg/L		B		0.000027	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Nickel	0.012	mg/L				0.0003	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Nickel	0.016	mg/L				0.0003	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Potassium	15	mg/L				0.24	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Potassium	16	mg/L				0.24	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Silver	0.00043	mg/L		B		0.000033	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Sodium	160	mg/L				0.092	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Sodium	170	mg/L				0.092	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Strontium	3.1	mg/L				0.0003	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Strontium	3.1	mg/L				0.0003	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Thallium	0.000091	mg/L		B		0.00005	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Titanium	0.028	mg/L				0.0006	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Uranium	0.0025	mg/L				0.00005	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Uranium	0.0024	mg/L				0.00005	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Vanadium	0.0087	mg/L				0.0005	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW427	METAL	Zinc	0.09	mg/L				0.002	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW428	METAL	Zinc	0.1	mg/L				0.002	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Kepone	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW429	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Americium-241	-0.0265	pCi/L	0.0429	U		0.094	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Neptunium-237	0.00965	pCi/L	0.0177	U		0.0297	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Plutonium-238	-0.012	pCi/L	0.0186	U		0.0432	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Plutonium-239/240	0.00901	pCi/L	0.0156	U		0.023	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Technetium-99	-0.122	pCi/L	0.449	U		0.795	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Thorium-228	0.00489	pCi/L	0.0358	U		0.0653	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Thorium-230	0.0266	pCi/L	0.0248	U		0.0372	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Thorium-232	0.00693	pCi/L	0.0128	U		0.0195	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Uranium-233/234	1.8	pCi/L	0.236			0.154	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Uranium-235/236	0.0786	pCi/L	0.0617			0.0669	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW431	RADS	Uranium-238	0.806	pCi/L	0.152			0.0677	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	1,2,4-Trichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	1,2-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	1,3-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	1,4-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2,4,5-Trichlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2,4,6-Trichlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2,4-Dichlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2,4-Dimethylphenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2,4-Dinitrophenol	5.95	ug/L		U		5.95	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2,4-Dinitrotoluene	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2,6-Dinitrotoluene	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2-Chloronaphthalene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2-Chlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2-Methyl-4,6-dinitrophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2-Methylnaphthalene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2-Methylphenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	2-Nitrophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	3,3'-Dichlorobenzidine	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	3-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	4-Aminobiphenyl	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	4-Bromophenyl phenyl ether	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	4-Chloro-3-methylphenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	4-Chlorobenzenamine	3.93	ug/L		U		3.93	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	4-Chlorophenyl phenyl ether	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	4-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	4-Nitrophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Acenaphthene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Acenaphthylene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Acetophenone	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Anthracene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Benz(a)anthracene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Benzenemethanol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Benzo(a)pyrene	0.524	ug/L		U		0.524	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Benzo(b)fluoranthene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Benzo(ghi)perylene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Benzo(k)fluoranthene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Benzoic acid	7.14	ug/L		U		7.14	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Bis(2-chloroethoxy)methane	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Bis(2-chloroethyl) ether	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	bis(2-Chloroisopropyl)ether	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW429	SVOA	Bis(2-ethylhexyl)phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Butyl benzyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Chrysene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Dibenz(a,h)anthracene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Dibenzofuran	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Diethyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Dimethyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Di-n-butyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Di-n-octylphthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Diphenylamine	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Fluoranthene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Fluorene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Hexachlorobutadiene	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Hexachlorocyclopentadiene	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Hexachloroethane	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Indeno(1,2,3-cd)pyrene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Isophorone	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	m+p Methylphenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Naphthalene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Nitrobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	N-Nitrosodimethylamine	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	N-Nitroso-di-n-propylamine	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	N-Nitrosomorpholine	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	O,O,O-Triethylphosphorothioate	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Pentachlorophenol	0.0581	ug/L		U		0.0581	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Phenanthrene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Phenol	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Pyrene	0.357	ug/L		U		0.357	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	SVOA	Pyridine	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW429	VOA	1,4-Dioxane	3.57	ug/L		U		3.57	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Acetone	2.9	ug/L		J		1.9	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW430	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW430	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW425	WETCHEM	Alkalinity	1000	mg/L				1.1	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW425	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW425	WETCHEM	Alkalinity as HCO3	1000	mg/L				1.1	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW426	WETCHEM	Ammonium Nitrogen	0.11	mg/L				0.1	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW434	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW435	WETCHEM	Chromium, hexavalent	0.015	mg/L		BJ		0.004	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW433	WETCHEM	Cyanide	0.0028	mg/L		B		0.002	WATER	WG	REG	BAI	11/13/2012
WD-PZ12C	QW436	ANION	Chloride	26000	ug/L				510	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW436	ANION	Fluoride	220	ug/L		B		120	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW436	ANION	Nitrate	220	ug/L		B		84	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW436	ANION	Nitrite as Nitrogen	98	ug/L		U		98	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW436	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW436	ANION	Sulfate	1800000	ug/L				12000	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW443	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	HERB	2,4,5-T	0.0965	ug/L		U		0.0965	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	HERB	2,4-D	0.0965	ug/L		U		0.0965	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	HERB	2,4-DB	0.0965	ug/L		U		0.0965	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	HERB	Dalapon	1.45	ug/L		U		1.45	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	HERB	Dicamba	0.0965	ug/L		U		0.0965	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	HERB	Dichloroprop	0.0965	ug/L		U		0.0965	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	HERB	Dinoseb	0.0965	ug/L		U		0.0965	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	HERB	MCPA	12.8	ug/L		U		12.8	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	HERB	MCPP	11.6	ug/L		U		11.6	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	HERB	Silvex	0.0965	ug/L		U		0.0965	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Aluminum	1.9	mg/L				0.018	WATER	WG	FD	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW438	METAL	Antimony	0.00058	mg/L		B		0.0004	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Antimony	0.0012	mg/L		B		0.0004	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Arsenic	0.00048	mg/L		B		0.00033	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Arsenic	0.0053	mg/L				0.00033	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Barium	0.018	mg/L				0.00029	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Barium	0.024	mg/L				0.00029	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Beryllium	0.00022	mg/L		B		0.00008	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Calcium	130	mg/L				0.035	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Calcium	130	mg/L				0.035	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Chromium	0.0049	mg/L				0.0005	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Cobalt	0.0061	mg/L				0.000054	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Cobalt	0.0091	mg/L				0.000054	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Copper	0.0011	mg/L		B		0.00056	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Copper	0.0053	mg/L				0.00056	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Iron	6.9	mg/L				0.022	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Lead	0.0042	mg/L				0.00018	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Lithium	0.23	mg/L				0.0026	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Lithium	0.25	mg/L				0.0026	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Magnesium	510	mg/L				0.011	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Magnesium	520	mg/L				0.011	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Manganese	0.047	mg/L				0.00031	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Manganese	0.097	mg/L				0.00031	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Mercury	0.000039	mg/L		B		0.000027	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Nickel	0.012	mg/L				0.0003	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Nickel	0.014	mg/L				0.0003	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Potassium	16	mg/L				0.24	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Potassium	17	mg/L				0.24	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Silver	0.00034	mg/L		B		0.000033	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Sodium	170	mg/L				0.092	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Sodium	180	mg/L				0.092	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Strontium	3.2	mg/L				0.0003	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Strontium	3.2	mg/L				0.0003	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Thallium	0.000051	mg/L		B		0.00005	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Titanium	0.026	mg/L				0.0006	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Uranium	0.0025	mg/L				0.00005	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Uranium	0.0023	mg/L				0.00005	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Vanadium	0.008	mg/L				0.0005	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW438	METAL	Zinc	0.092	mg/L				0.002	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW439	METAL	Zinc	0.09	mg/L				0.002	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW440	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Kepone	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Americium-241	-0.018	pCi/L	0.0331	U		0.0729	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Neptunium-237	0.0175	pCi/L	0.0176	U		0.0239	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Plutonium-238	-7.14E-10	pCi/L	0.0103	U		0.0205	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Plutonium-239/240	0.00643	pCi/L	0.0139	U		0.0237	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Technetium-99	0.32	pCi/L	0.452	U		0.766	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Thorium-228	0.0154	pCi/L	0.018	U		0.0274	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Thorium-230	0.0134	pCi/L	0.0221	U		0.0374	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Thorium-232	0.00612	pCi/L	0.00965	U		0.01	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Uranium-233/234	2	pCi/L	0.225			0.125	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Uranium-235/236	0.0521	pCi/L	0.0526	U		0.0713	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW442	RADS	Uranium-238	0.681	pCi/L	0.131			0.0741	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW440	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Benzo(a)pyrene	0.44	ug/L		U		0.44	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	bis(2-Chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Di-n-butyl phthalate	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Isophorone	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	m+p Methylphenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Pentachlorophenol	0.0581	ug/L		U		0.0581	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Phenol	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FD	BAI	11/13/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	QW441	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW440	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW441	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW436	WETCHEM	Alkalinity	1000	mg/L				1.1	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW436	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW436	WETCHEM	Alkalinity as HCO3	1000	mg/L				1.1	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW437	WETCHEM	Ammonium Nitrogen	0.11	mg/L				0.1	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW445	WETCHEM	Chromium, hexavalent	0.007	mg/L		BJ		0.004	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW446	WETCHEM	Chromium, hexavalent	0.0087	mg/L		BJ		0.004	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	QW444	WETCHEM	Cyanide	0.002	mg/L		B		0.002	WATER	WG	FD	BAI	11/13/2012
WD-PZ12C	DC555	ANION	Chloride	22	mg/L				0.51	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC555	ANION	Fluoride	0.22	mg/L		B		0.12	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC555	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC555	ANION	Nitrite as Nitrogen	0.098	mg/L		U		0.098	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC555	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC555	ANION	Sulfate	1500	mg/L				12	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	DC562	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0177	ng/L		U		0.0177	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00355	ng/L		U		0.00355	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00355	ng/L		U		0.00355	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0355	ng/L		U		0.0355	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC562	DI/FURA	Octachlorodibenzofuran	0.0355	ng/L		U		0.0355	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	HERB	2,4,5-T	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	HERB	2,4-D	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	HERB	2,4-DB	0.106	ug/L		U		0.106	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	HERB	Dalapon	1.33	ug/L		U		1.33	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	HERB	Dicamba	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	HERB	Dichloroprop	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	HERB	Dinoseb	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	HERB	MCPA	11.7	ug/L		U		11.7	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	HERB	MCPP	10.6	ug/L		U		10.6	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	HERB	Silvex	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Aluminum	0.038	mg/L		B		0.018	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Arsenic	0.00067	mg/L		B		0.00033	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Arsenic	0.00096	mg/L		B		0.00033	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Barium	0.023	mg/L				0.00029	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Barium	0.027	mg/L				0.00029	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Calcium	160	mg/L				0.035	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Calcium	160	mg/L				0.035	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Chromium	0.0005	mg/L		B		0.0005	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Cobalt	0.0035	mg/L				0.000054	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Cobalt	0.0032	mg/L				0.000054	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Iron	0.85	mg/L				0.022	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Iron	1.5	mg/L				0.022	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Lithium	0.18	mg/L				0.0026	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Lithium	0.19	mg/L				0.0026	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Magnesium	400	mg/L				0.011	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Magnesium	420	mg/L				0.011	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Manganese	0.23	mg/L				0.00031	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Manganese	0.25	mg/L				0.00031	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Nickel	0.0056	mg/L				0.0003	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Nickel	0.0061	mg/L				0.0003	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Potassium	18	mg/L				0.24	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Potassium	18	mg/L				0.24	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	DC558	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Sodium	220	mg/L				0.092	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Sodium	220	mg/L				0.092	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Strontium	3.9	mg/L				0.0003	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Strontium	4	mg/L				0.0003	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Uranium	0.0015	mg/L				0.00005	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Uranium	0.0016	mg/L				0.00005	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC557	METAL	Zinc	0.011	mg/L				0.002	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC558	METAL	Zinc	0.011	mg/L				0.002	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	2,4'-DDD	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	2,4'-DDE	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	2,4'-DDT	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	4,4'-DDD	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	4,4'-DDE	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	4,4'-DDT	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Aldrin	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	alpha-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	alpha-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	beta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Chlordane	0.0814	ug/L		U		0.0814	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	delta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Dieldrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Endosulfan I	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Endosulfan II	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Endosulfan sulfate	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Endrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Endrin aldehyde	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Endrin ketone	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	gamma-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Heptachlor	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Heptachlor epoxide	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Kepone	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Lindane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Methoxychlor	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	PCB-1016	0.0476	ug/L		U		0.0476	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	PCB-1221	0.0476	ug/L		U		0.0476	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	PCB-1232	0.0476	ug/L		U		0.0476	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	PCB-1242	0.0476	ug/L		U		0.0476	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	PCB-1248	0.0476	ug/L		U		0.0476	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	PCB-1254	0.0476	ug/L		U		0.0476	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	PCB-1260	0.0476	ug/L		U		0.0476	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	PCB-1268	0.0476	ug/L		U		0.0476	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Polychlorinated biphenyl	0.0476	ug/L		U		0.0476	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	PPCB	Toxaphene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC565	RADS	Americium-241	0	pCi/L	0.0139	U		0.0151	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC565	RADS	Neptunium-237	-0.00374	pCi/L	0.0164	U		0.0358	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC565	RADS	Plutonium-238	-0.00354	pCi/L	0.0183	U		0.0391	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC565	RADS	Plutonium-239/240	-0.00354	pCi/L	0.012	U		0.0271	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC565	RADS	Technetium-99	0.248	pCi/L	0.367	U		0.624	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC565	RADS	Thorium-228	0.0195	pCi/L	0.0222	U		0.0315	WATER	WG	REG	BP	6/26/2013

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STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	DC565	RADS	Thorium-230	0.0116	pCi/L	0.0244	U		0.042	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC565	RADS	Thorium-232	0.00256	pCi/L	0.0109	U		0.0143	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC565	RADS	Uranium-233/234	1.24	pCi/L	0.193			0.0233	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC565	RADS	Uranium-235/236	0.024	pCi/L	0.04	U		0.0564	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC565	RADS	Uranium-238	0.482	pCi/L	0.123			0.0549	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	1,2,4-Trichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	1,2-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	1,3-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	1,4-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2,4,5-Trichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2,4,6-Trichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2,4-Dichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2,4-Dimethylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2,4-Dinitrophenol	5.88	ug/L		U		5.88	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2,4-Dinitrotoluene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2,6-Dinitrotoluene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2-Chloronaphthalene	0.482	ug/L		U		0.482	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2-Chlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2-Methyl-4,6-dinitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2-Methylnaphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2-Methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	2-Nitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	3,3'-Dichlorobenzidine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	3-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	4-Aminobiphenyl	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	4-Bromophenyl phenyl ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	4-Chloro-3-methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	4-Chlorobenzenamine	3.88	ug/L		U		3.88	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	4-Chlorophenyl phenyl ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	4-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	4-Nitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Acenaphthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Acenaphthylene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Acetophenone	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Benz(a)anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Benzenemethanol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Benzo(a)pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Benzo(b)fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Benzo(ghi)perylene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Benzo(k)fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Benzoic acid	7.06	ug/L		U		7.06	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Bis(2-chloroethoxy)methane	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Bis(2-chloroethyl) ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Bis(2-chloroisopropyl)ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Bis(2-ethylhexyl)phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Butyl benzyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Chrysene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Dibenz(a,h)anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Dibenzofuran	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Diethyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Dimethyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Di-n-butyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Di-n-octylphthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Diphenylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Fluorene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Hexachlorobenzene	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Hexachlorobutadiene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	DC561	SVOA	Hexachlorocyclopentadiene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Hexachloroethane	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Indeno(1,2,3-cd)pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Isophorone	4.12	ug/L		U		4.12	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	m,p-cresol	4.35	ug/L		U		4.35	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Naphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Nitrobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	N-Nitrosodimethylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	N-Nitroso-di-n-propylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	N-Nitrosomorpholine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	O,O,O-Triethylphosphorothioate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Pentachlorophenol	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Phenanthrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Phenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	SVOA	Pyridine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC561	VOA	1,4-Dioxane	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Chloroform	0.22	ug/L		J		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	DC564	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC564	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC555	WETCHEM	Alkalinity	790	mg/L				1.1	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC555	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC555	WETCHEM	Alkalinity as HCO3	790	mg/L				1.1	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC556	WETCHEM	Ammonia	0.68	mg/L		B		0.022	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC556	WETCHEM	Ammonium Nitrogen	0.68	mg/L				0.1	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC559	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC560	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC563	WETCHEM	Cyanide	0.0025	mg/L		B		0.002	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC819	WETCHEM	Dissolved Solids	2800	mg/L				9.4	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC555	WETCHEM	Dissolved Solids	2800	mg/L				9.4	WATER	WG	REG	BP	6/26/2013
WD-PZ12C	DC566	ANION	Chloride	23	mg/L				0.51	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC566	ANION	Fluoride	0.21	mg/L		B		0.12	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC566	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC566	ANION	Nitrite as Nitrogen	0.098	mg/L		U		0.098	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC566	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC566	ANION	Sulfate	1500	mg/L				12	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00397	ng/L		U		0.00397	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00397	ng/L		U		0.00397	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0397	ng/L		U		0.0397	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC573	DI/FURA	Octachlorodibenzofuran	0.0397	ng/L		U		0.0397	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	HERB	2,4,5-T	0.0865	ug/L		U		0.0865	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	HERB	2,4-D	0.0865	ug/L		U		0.0865	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	HERB	2,4-DB	0.104	ug/L		U		0.104	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	HERB	Dalapon	1.3	ug/L		U		1.3	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	HERB	Dicamba	0.0865	ug/L		U		0.0865	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	HERB	Dichloroprop	0.0865	ug/L		U		0.0865	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	HERB	Dinoseb	0.0865	ug/L		U		0.0865	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	HERB	MCPA	11.5	ug/L		U		11.5	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	HERB	MCPP	10.4	ug/L		U		10.4	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	HERB	Silvex	0.0865	ug/L		U		0.0865	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Aluminum	0.025	mg/L		B		0.018	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Arsenic	0.00071	mg/L		B		0.00033	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Arsenic	0.00092	mg/L		B		0.00033	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Barium	0.023	mg/L				0.00029	WATER	WG	FD	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	DC569	METAL	Barium	0.027	mg/L				0.00029	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Calcium	160	mg/L				0.035	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Calcium	150	mg/L				0.035	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Cobalt	0.003	mg/L				0.000054	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Cobalt	0.0033	mg/L				0.000054	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Copper	0.001	mg/L		B		0.00056	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Iron	0.84	mg/L				0.022	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Iron	1.4	mg/L				0.022	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Lithium	0.19	mg/L				0.0026	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Lithium	0.18	mg/L				0.0026	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Magnesium	400	mg/L				0.011	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Magnesium	390	mg/L				0.011	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Manganese	0.23	mg/L				0.00031	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Manganese	0.25	mg/L				0.00031	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Nickel	0.006	mg/L				0.0003	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Nickel	0.0062	mg/L				0.0003	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Potassium	18	mg/L				0.24	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Potassium	17	mg/L				0.24	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Sodium	220	mg/L				0.092	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Sodium	210	mg/L				0.092	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Strontium	4	mg/L				0.0003	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Strontium	3.7	mg/L				0.0003	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Uranium	0.0016	mg/L				0.00005	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Uranium	0.0016	mg/L				0.00005	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC568	METAL	Zinc	0.012	mg/L				0.002	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC569	METAL	Zinc	0.011	mg/L				0.002	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	2,4'-DDD	0.00521	ug/L		U		0.00521	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	2,4'-DDE	0.00625	ug/L		U		0.00625	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	2,4'-DDT	0.00521	ug/L		U		0.00521	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	4,4'-DDD	0.0104	ug/L		U		0.0104	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	4,4'-DDE	0.0104	ug/L		U		0.0104	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	4,4'-DDT	0.0104	ug/L		U		0.0104	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Aldrin	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	alpha-BHC	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	alpha-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013

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STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	DC572	PPCB	beta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Chlordane	0.0797	ug/L		U		0.0797	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	delta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Dieldrin	0.0104	ug/L		U		0.0104	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Endosulfan I	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Endosulfan II	0.0104	ug/L		U		0.0104	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Endosulfan sulfate	0.0104	ug/L		U		0.0104	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Endrin	0.0104	ug/L		U		0.0104	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Endrin aldehyde	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Endrin ketone	0.0104	ug/L		U		0.0104	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	gamma-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Heptachlor	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Heptachlor epoxide	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Kepone	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Lindane	0.00693	ug/L		U		0.00693	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Methoxychlor	0.0521	ug/L		U		0.0521	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	PCB-1016	0.0406	ug/L		U		0.0406	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	PCB-1221	0.0406	ug/L		U		0.0406	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	PCB-1232	0.0406	ug/L		U		0.0406	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	PCB-1242	0.0406	ug/L		U		0.0406	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	PCB-1248	0.0406	ug/L		U		0.0406	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	PCB-1254	0.0406	ug/L		U		0.0406	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	PCB-1260	0.0406	ug/L		U		0.0406	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	PCB-1268	0.0406	ug/L		U		0.0406	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Polychlorinated biphenyl	0.0406	ug/L		U		0.0406	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	PPCB	Toxaphene	0.156	ug/L		U		0.156	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Americium-241	0	pCi/L	0.0196	U		0.0212	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Neptunium-237	0.00446	pCi/L	0.0231	U		0.0427	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Plutonium-238	0.0033	pCi/L	0.0112	U		0.00991	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Plutonium-239/240	0	pCi/L	0.0183	U		0.0365	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Technetium-99	0.586	pCi/L	0.393	U		0.636	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Thorium-228	0.0228	pCi/L	0.0414	U		0.0713	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Thorium-230	-0.00607	pCi/L	0.0413	U		0.078	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Thorium-232	-0.00346	pCi/L	0.043	U		0.0802	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Uranium-233/234	1.18	pCi/L	0.189			0.072	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Uranium-235/236	0.0378	pCi/L	0.0425			0.0284	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC576	RADS	Uranium-238	0.62	pCi/L	0.136			0.0229	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	1,2,4-Trichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	1,2-Dichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	1,3-Dichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	1,4-Dichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2,4,5-Trichlorophenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2,4,6-Trichlorophenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2,4-Dichlorophenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2,4-Dimethylphenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2,4-Dinitrophenol	6.1	ug/L		U		6.1	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2,4-Dinitrotoluene	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2,6-Dinitrotoluene	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2-Chloronaphthalene	0.5	ug/L		U		0.5	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2-Chlorophenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2-Methyl-4,6-dinitrophenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2-Methylnaphthalene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2-Methylphenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2-Nitrobenzenamine	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	2-Nitrophenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	3,3'-Dichlorobenzidine	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	3-Nitrobenzenamine	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	4-Aminobiphenyl	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	4-Bromophenyl phenyl ether	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	4-Chloro-3-methylphenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	DC572	SVOA	4-Chlorobenzenamine	4.02	ug/L		U		4.02	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	4-Chlorophenyl phenyl ether	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	4-Nitrobenzenamine	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	4-Nitrophenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Acenaphthene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Acenaphthylene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Acetophenone	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Anthracene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Benz(a)anthracene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Benzenemethanol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Benzo(a)pyrene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Benzo(b)fluoranthene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Benzo(ghi)perylene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Benzo(k)fluoranthene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Benzoic acid	7.32	ug/L		U		7.32	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Bis(2-chloroethoxy)methane	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Bis(2-chloroethyl) ether	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Bis(2-chloroisopropyl)ether	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Bis(2-ethylhexyl)phthalate	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Butyl benzyl phthalate	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Chrysene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Dibenz(a,h)anthracene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Dibenzofuran	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Diethyl phthalate	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Dimethyl phthalate	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Di-n-butyl phthalate	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Di-n-octylphthalate	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Diphenylamine	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Fluoranthene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Fluorene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Hexachlorobenzene	0.00651	ug/L		U		0.00651	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Hexachlorobutadiene	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Hexachlorocyclopentadiene	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Hexachloroethane	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Indeno(1,2,3-cd)pyrene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Isophorone	4.27	ug/L		U		4.27	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	m,p-cresol	4.51	ug/L		U		4.51	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Naphthalene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Nitrobenzene	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	N-Nitrosodimethylamine	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	N-Nitroso-di-n-propylamine	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	N-Nitrosomorpholine	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	O,O,O-Triethylphosphorothioate	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Pentachlorophenol	0.0521	ug/L		U		0.0521	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Phenanthrene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Phenol	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Pyrene	0.366	ug/L		U		0.366	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	SVOA	Pyridine	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	FD	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ12C	DC575	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC572	VOA	1,4-Dioxane	3.66	ug/L		U		3.66	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Chloroform	0.22	ug/L		J		0.16	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC575	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC566	WETCHEM	Alkalinity	800	mg/L				1.1	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC566	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC566	WETCHEM	Alkalinity as HCO3	800	mg/L				1.1	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC567	WETCHEM	Ammonia	0.68	mg/L		B		0.022	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC567	WETCHEM	Ammonium Nitrogen	0.68	mg/L				0.1	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC570	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC571	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC574	WETCHEM	Cyanide	0.0047	mg/L		B		0.002	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC820	WETCHEM	Dissolved Solids	3000	mg/L				9.4	WATER	WG	FD	BP	6/26/2013
WD-PZ12C	DC566	WETCHEM	Dissolved Solids	2900	mg/L				9.4	WATER	WG	FD	BP	6/26/2013
WD-PZ13C	WDPZ13-01-02	ANION	Chloride	45	mg/L			XV	0.51	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-01-02	ANION	Fluoride	0.28	mg/L		B	XV	0.12	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-01-02	ANION	Nitrate	0.084	mg/L		U	XV	0.084	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-01-02	ANION	Orthophosphate	0.37	mg/L		U	XV	0.37	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-01-02	ANION	Sulfate	3200	mg/L			XV	23	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Aluminum	18	ug/L		U	XV	18	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Aluminum	4.1	mg/L			XV	0.018	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Antimony	5.8	ug/L		B	XV	3.1	WATER	WG	REG	BAI	11/21/2011

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-04-02	METAL	Antimony	0.0048	mg/L		B	XV	0.0031	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Arsenic	4.9	ug/L		B	XV	0.33	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Arsenic	0.011	mg/L			XV	0.00033	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Barium	31	ug/L			XV	0.58	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Barium	0.049	mg/L			XV	0.00058	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Beryllium	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Cadmium	0.17	ug/L		B	XV	0.04	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Cadmium	0.00023	mg/L		B	XV	0.00004	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Calcium	290000	ug/L			XV	35	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Calcium	300	mg/L			XV	0.035	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Chromium	0.9	ug/L		B	XV	0.66	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Chromium	0.0059	mg/L		B	XV	0.00066	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Cobalt	43	ug/L			XV	1.2	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Cobalt	0.047	mg/L			XV	0.0012	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Copper	1.5	ug/L		B	XV	1.4	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Copper	0.0063	mg/L		B	XV	0.0014	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Iron	59	ug/L		B	XV	22	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Iron	5.5	mg/L			XV	0.022	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Lead	0.38	ug/L		B	XV	0.18	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Lead	0.0047	mg/L			XV	0.00018	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Magnesium	610000	ug/L			XV	11	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Magnesium	610	mg/L			XV	0.011	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Manganese	480	ug/L			XV	0.25	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Manganese	0.54	mg/L			XV	0.00025	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Mercury	0.069	ug/L		B	XV	0.027	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Mercury	0.000082	mg/L		B	XV	0.000027	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Molybdenum	98	ug/L			XV	0.14	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Molybdenum	0.099	mg/L			XV	0.00014	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Nickel	140	ug/L			XV	1.3	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Nickel	0.15	mg/L			XV	0.0013	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Potassium	31000	ug/L			XV	240	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Potassium	32	mg/L			XV	0.24	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Selenium	14	ug/L			XV	0.7	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Selenium	0.014	mg/L			XV	0.0007	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Silver	0.93	ug/L		U	XV	0.93	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Sodium	410000	ug/L			XV	92	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Sodium	420	mg/L			XV	0.092	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Thallium	0.089	ug/L		B	XV	0.033	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Thallium	0.00011	mg/L		B	XV	0.000033	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Uranium	11	ug/L			XV	0.02	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Uranium	0.012	mg/L			XV	0.00002	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Vanadium	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Vanadium	0.011	mg/L			XV	0.0011	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-03-02	METAL	Zinc	4.8	ug/L		B	XV	4.5	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-04-02	METAL	Zinc	0.022	mg/L			XV	0.0045	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	PPCB	PCB-1016	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	PPCB	PCB-1221	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	PPCB	PCB-1232	0.18	ug/L		U	XV	0.18	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	PPCB	PCB-1242	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	PPCB	PCB-1248	0.098	ug/L		U	XV	0.098	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	PPCB	PCB-1254	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	PPCB	PCB-1260	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	PPCB	Polychlorinated biphenyl	0.091	ug/L		U	XV	0.091	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-09-02	RADS	Alpha activity	-5.77	pCi/L	5.02	U	XV	47.9	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-09-02	RADS	Americium-241	0.034	pCi/L	0.0175	U	XV	0.0698	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-09-02	RADS	Beta activity	25.6	pCi/L	7.51	U	XV	37.5	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-09-02	RADS	Neptunium-237	0.00451	pCi/L	0.00782	U	XV	0.0432	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-09-02	RADS	Plutonium-238	-0.00439	pCi/L	-0.0076	U	XV	0.054	WATER	WG	REG	BAI	11/21/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-09-02	RADS	Plutonium-239/240	0.0263	pCi/L	0.0116	U	XV	0.0336	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-09-02	RADS	Technetium-99	0.0579	pCi/L	1.69	U	XV	5.66	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-09-02	RADS	Uranium-233/234	11.9	pCi/L	0.231		XV	0.0341	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-09-02	RADS	Uranium-235	0.192	pCi/L	0.033	J	XV	0.042	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-09-02	RADS	Uranium-238	4.67	pCi/L	0.144		XV	0.0339	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	1,2,4-Trichlorobenzene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	1,2-Dichlorobenzene	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	1,3-Dichlorobenzene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	1,4-Dichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2,4,5-Trichlorophenol	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2,4,6-Trichlorophenol	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2,4-Dichlorophenol	0.72	ug/L		U	XV	0.72	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2,4-Dimethylphenol	0.65	ug/L		U	XV	0.65	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2,4-Dinitrophenol	11	ug/L		U	XV	11	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2,6-Dinitrotoluene	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2-Chloronaphthalene	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2-Chlorophenol	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2-Methyl-4,6-dinitrophenol	4.5	ug/L		U	XV	4.5	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2-Methylnaphthalene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2-Methylphenol	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2-Nitrobenzenamine	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	2-Nitrophenol	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	3,3'-Dichlorobenzidine	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	3-Nitrobenzenamine	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	4-Bromophenyl phenyl ether	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	4-Chloro-3-methylphenol	2.7	ug/L		U	XV	2.7	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	4-Methylphenol	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	4-Nitrobenzenamine	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Acenaphthene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Acenaphthylene	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Anthracene	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Benz(a)anthracene	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Benzo(a)pyrene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Benzo(b)fluoranthene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Benzo(ghi)perylene	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Benzo(k)fluoranthene	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Benzoic acid	11	ug/L		U	XV	11	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Butyl benzyl phthalate	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Chrysene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Dibenz(a,h)anthracene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Dibenzofuran	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Diethyl phthalate	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Dimethyl phthalate	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Di-n-butyl phthalate	1.3	ug/L		U	XV	1.3	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Di-n-octylphthalate	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Fluoranthene	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Fluorene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Hexachlorobenzene	0.74	ug/L		U	XV	0.74	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Hexachlorobutadiene	3.7	ug/L		U	XV	3.7	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Hexachlorocyclopentadiene	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Hexachloroethane	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.73	ug/L		U	XV	0.73	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Isophorone	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Naphthalene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/21/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-05-02	SVOA	Nitrobenzene	0.91	ug/L		U	XV	0.91	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	N-Nitroso-di-n-propylamine	0.39	ug/L		U	XV	0.39	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	N-Nitrosodiphenylamine	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Pentachlorophenol	22	ug/L		U	XV	22	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Phenanthrene	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Phenol	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-05-02	SVOA	Pyrene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	1,2-Dimethylbenzene	0.31	ug/L		J	XV	0.19	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Acetone	7.4	ug/L		J	XV	1.9	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Benzene	0.59	ug/L		J	XV	0.16	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Ethylbenzene	0.24	ug/L		J	XV	0.16	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	M + P Xylene	0.57	ug/L		J	XV	0.34	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Methylene chloride	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Toluene	0.79	ug/L		J	XV	0.17	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-01-02	WETCHEM	Alkalinity	890	mg/L			XV	1.1	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-01-02	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-01-02	WETCHEM	Alkalinity as HCO3	890	mg/L			XV	1.1	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-02-02	WETCHEM	Ammonium Nitrogen	2.9	mg/L			XV	0.1	WATER	WG	REG	BAI	11/21/2011
WD-PZ13C	WDPZ13-01-03	ANION	Chloride	41	mg/L			XV	0.51	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-01-03	ANION	Fluoride	0.25	mg/L		B	XV	0.12	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-01-03	ANION	Nitrate	0.088	mg/L		B	XV	0.084	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-01-03	ANION	Orthophosphate	0.37	mg/L		U	XV	0.37	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-01-03	ANION	Sulfate	3200	mg/L			XV	23	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Aluminum	1.6	mg/L			XV	0.018	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Antimony	0.0032	mg/L		B	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Antimony	0.0037	mg/L		B	XV	0.0031	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Arsenic	0.0012	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Arsenic	0.0049	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Barium	0.017	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Barium	0.032	mg/L			XV	0.00058	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-03-03	METAL	Cadmium	0.00011	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Cadmium	0.00017	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Calcium	260	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Calcium	240	mg/L			XV	0.035	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Chromium	0.00066	mg/L		U	XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Chromium	0.0029	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Cobalt	0.015	mg/L			XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Cobalt	0.015	mg/L			XV	0.0012	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Copper	0.0014	mg/L		U	XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Copper	0.0091	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Iron	0.03	mg/L		B	XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Iron	3.9	mg/L			XV	0.022	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Lead	0.00018	mg/L		U	XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Lead	0.0028	mg/L			XV	0.00018	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Magnesium	690	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Magnesium	660	mg/L			XV	0.011	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Manganese	0.74	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Manganese	0.73	mg/L			XV	0.00025	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Molybdenum	0.006	mg/L			XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Molybdenum	0.0063	mg/L			XV	0.00014	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Nickel	0.034	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Nickel	0.039	mg/L		B	XV	0.0013	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Potassium	23	mg/L			XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Potassium	24	mg/L			XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Sodium	330	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Sodium	310	mg/L			XV	0.092	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Thallium	0.000054	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Thallium	0.000083	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Uranium	0.0079	mg/L			XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Uranium	0.0085	mg/L			XV	0.00002	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Vanadium	0.002	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Vanadium	0.007	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-03-03	METAL	Zinc	0.0086	mg/L		B	XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-04-03	METAL	Zinc	0.029	mg/L			XV	0.0045	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	PPCB	PCB-1016	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	PPCB	PCB-1221	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	PPCB	PCB-1232	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	PPCB	PCB-1254	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	PPCB	Polychlorinated biphenyl	0.098	ug/L		U	XV	0.098	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-09-03	RADS	Alpha activity	-19.8	pCi/L	3.33	U	XV	50	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-09-03	RADS	Americium-241	-0.00451	pCi/L	0.0119	U		0.0729	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-09-03	RADS	Beta activity	20.9	pCi/L	2.22			7.57	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-09-03	RADS	Neptunium-237	0	pCi/L	0.00638	U	XV	0.0345	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-09-03	RADS	Plutonium-238	0	pCi/L	0.00735	U		0.0397	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-09-03	RADS	Plutonium-239/240	0.0364	pCi/L	0.0147	U		0.0397	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-09-03	RADS	Technetium-99	2.17	pCi/L	1.67	U	XV	5.52	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-09-03	RADS	Uranium-233/234	6	pCi/L	0.205			0.0535	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-09-03	RADS	Uranium-235	0.121	pCi/L	0.0345	J		0.0827	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-09-03	RADS	Uranium-238	2.88	pCi/L	0.142			0.0533	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-05-03	SVOA	1,3-Dichlorobenzene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2,4,5-Trichlorophenol	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2,4-Dichlorophenol	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2,4-Dimethylphenol	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2,4-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2-Chloronaphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2-Chlorophenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.8	ug/L		U	XV	4.8	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2-Methylnaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	2-Nitrophenol	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	3-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	4-Chloro-3-methylphenol	2.9	ug/L		U	XV	2.9	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	4-Methylphenol	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	4-Nitrobenzenamine	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	4-Nitrophenol	1.5	ug/L		U	XV	1.5	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Acenaphthene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Acenaphthylene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Anthracene	0.5	ug/L		U	XV	0.5	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Benz(a)anthracene	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Benzo(a)pyrene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Benzo(ghi)perylene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Benzo(k)fluoranthene	0.55	ug/L		U	XV	0.55	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.67	ug/L		U	XV	0.67	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Chrysene	0.64	ug/L		U	XV	0.64	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Dibenz(a,h)anthracene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Dibenzofuran	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Diethyl phthalate	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Dimethyl phthalate	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Di-n-octylphthalate	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Fluoranthene	0.24	ug/L		U	XV	0.24	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Fluorene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Hexachlorobenzene	0.79	ug/L		U	XV	0.79	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Hexachlorobutadiene	3.9	ug/L		U	XV	3.9	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Hexachloroethane	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.77	ug/L		U	XV	0.77	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Isophorone	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Naphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Nitrobenzene	0.96	ug/L		U	XV	0.96	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	N-Nitroso-di-n-propylamine	0.42	ug/L		U	XV	0.42	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Pentachlorophenol	24	ug/L		U	XV	24	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Phenanthrene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Phenol	2.4	ug/L		U	XV	2.4	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-05-03	SVOA	Pyrene	0.44	ug/L		U	XV	0.44	WATER	WG	REG	BP	12/13/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Chloroform	0.27	ug/L		J	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Dibromochloromethane	0.21	ug/L		J	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Methylene chloride	0.4	ug/L		BJ	XV	0.32	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-01-03	WETCHEM	Alkalinity	830	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-01-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-01-03	WETCHEM	Alkalinity as HCO3	830	mg/L			XV	1.1	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-02-03	WETCHEM	Ammonium Nitrogen	0.59	mg/L				0.1	WATER	WG	REG	BP	12/13/2011
WD-PZ13C	WDPZ13-01-04	ANION	Chloride	43	mg/L				0.51	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-01-04	ANION	Fluoride	0.21	mg/L		B		0.12	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-01-04	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-01-04	ANION	Orthophosphate	0.37	mg/L		JU		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-01-04	ANION	Sulfate	2800	mg/L				23	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Aluminum	1.8	mg/L				0.018	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Antimony	0.0037	mg/L		B		0.0031	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Arsenic	0.0027	mg/L		B		0.00033	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Arsenic	0.0045	mg/L		B		0.00033	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Barium	0.024	mg/L				0.00058	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Barium	0.033	mg/L				0.00058	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Cadmium	0.00018	mg/L		B		0.00004	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Calcium	260	mg/L				0.035	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Calcium	250	mg/L				0.035	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Chromium	0.003	mg/L		B		0.00066	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Cobalt	0.023	mg/L				0.0012	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-04-04	METAL	Cobalt	0.017	mg/L				0.0012	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Copper	0.0037	mg/L		B		0.0014	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Copper	0.0078	mg/L		B		0.0014	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Iron	0.041	mg/L		B		0.022	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Iron	3.1	mg/L				0.022	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Lead	0.00028	mg/L		B		0.00018	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Lead	0.003	mg/L				0.00018	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Magnesium	590	mg/L				0.011	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Magnesium	610	mg/L				0.011	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Manganese	0.49	mg/L				0.00025	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Manganese	0.45	mg/L				0.00025	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Molybdenum	0.011	mg/L				0.00014	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Molybdenum	0.0086	mg/L				0.00014	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Nickel	0.054	mg/L				0.0013	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Nickel	0.044	mg/L				0.0013	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Potassium	26	mg/L				0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Potassium	25	mg/L				0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Sodium	350	mg/L				0.092	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Sodium	330	mg/L				0.092	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Thallium	0.000079	mg/L		B		0.000033	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Uranium	0.0074	mg/L				0.00002	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Uranium	0.0078	mg/L				0.00002	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Vanadium	0.0023	mg/L		B		0.0011	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Vanadium	0.0081	mg/L		B		0.0011	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-03-04	METAL	Zinc	0.0056	mg/L		B		0.0045	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-04-04	METAL	Zinc	0.017	mg/L		B		0.0045	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-09-04	RADS	Alpha activity	16.1	pCi/L	9.15	U		27.6	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-09-04	RADS	Americium-241	0.0196	pCi/L	0.0139	U		0.0603	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-09-04	RADS	Beta activity	-10.6	pCi/L	8.68	U		34.9	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-09-04	RADS	Neptunium-237	0	pCi/L	0.00676	U		0.0365	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-09-04	RADS	Plutonium-238	0	pCi/L	0.01	U		0.0543	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-09-04	RADS	Plutonium-239/240	0.0355	pCi/L	0.0174	U		0.0542	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-09-04	RADS	Technetium-99	0.502	pCi/L	1.67	U		5.6	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-09-04	RADS	Uranium-233/234	5.96	pCi/L	0.197			0.0499	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-09-04	RADS	Uranium-235	0.153	pCi/L	0.036	J		0.0616	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-09-04	RADS	Uranium-238	2.94	pCi/L	0.138			0.0497	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	1,2,4-Trichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	1,2-Dichlorobenzene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	1,3-Dichlorobenzene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	1,4-Dichlorobenzene	0.42	ug/L		U		0.42	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2,4,5-Trichlorophenol	0.59	ug/L		U		0.59	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2,4,6-Trichlorophenol	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2,4-Dichlorophenol	0.84	ug/L		U		0.84	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2,4-Dimethylphenol	0.77	ug/L		U		0.77	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-05-04	SVOA	2,4-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2,6-Dinitrotoluene	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2-Chloronaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2-Chlorophenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2-Methyl-4,6-dinitrophenol	5.3	ug/L		U		5.3	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2-Methylnaphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2-Methylphenol	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	2-Nitrophenol	0.51	ug/L		U		0.51	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	3-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	4-Bromophenyl phenyl ether	0.57	ug/L		U		0.57	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	4-Chloro-3-methylphenol	3.2	ug/L		U		3.2	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	4-Chlorophenyl phenyl ether	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	4-Methylphenol	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	4-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Acenaphthene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Acenaphthylene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Anthracene	0.55	ug/L		U		0.55	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Benz(a)anthracene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Benzo(a)pyrene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Benzo(b)fluoranthene	0.7	ug/L		U		0.7	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Benzo(ghi)perylene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Benzo(k)fluoranthene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Bis(2-chloroethoxy)methane	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Bis(2-ethylhexyl)phthalate	3.2	ug/L		BJ		0.74	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Chrysene	0.71	ug/L		U		0.71	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Dibenz(a,h)anthracene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Dibenzofuran	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Diethyl phthalate	0.5	ug/L		U		0.5	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Dimethyl phthalate	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Di-n-octylphthalate	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Fluoranthene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Fluorene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Hexachlorobenzene	0.87	ug/L		U		0.87	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Hexachlorobutadiene	4.4	ug/L		U		4.4	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Hexachlorocyclopentadiene	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Hexachloroethane	2.8	ug/L		U		2.8	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.86	ug/L		U		0.86	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Isophorone	0.28	ug/L		U		0.28	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Naphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Nitrobenzene	1.1	ug/L		U		1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	N-Nitroso-di-n-propylamine	0.46	ug/L		U		0.46	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	N-Nitrosodiphenylamine	0.58	ug/L		U		0.58	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Pentachlorophenol	26	ug/L		U		26	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Phenanthrene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Phenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-05-04	SVOA	Pyrene	0.49	ug/L		U		0.49	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-06-04	VOA	1,2-Dimethylbenzene	0.21	ug/L		J		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Acetone	55	ug/L				1.9	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Benzene	1.7	ug/L				0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Chloroform	0.2	ug/L		J		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	M + P Xylene	0.44	ug/L		J		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Methylene chloride	0.44	ug/L		BJ		0.32	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Toluene	1.8	ug/L				0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-01-04	WETCHEM	Alkalinity	890	mg/L				1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-01-04	WETCHEM	Alkalinity as HCO3	890	mg/L				1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-02-04	WETCHEM	Ammonium Nitrogen	0.89	mg/L				0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ13C	WDPZ13-01-05	ANION	Chloride	45	mg/L				0.51	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-01-05	ANION	Fluoride	0.24	mg/L		B		0.12	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-01-05	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-01-05	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-01-05	ANION	Sulfate	2900	mg/L				23	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Aluminum	1.1	mg/L				0.018	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Arsenic	0.0013	mg/L		B		0.00033	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Arsenic	0.0024	mg/L		B		0.00033	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Barium	0.021	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Barium	0.03	mg/L				0.00058	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Cadmium	0.00019	mg/L		B		0.00004	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Cadmium	0.00021	mg/L		B		0.00004	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Calcium	260	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Calcium	250	mg/L				0.035	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Chromium	0.0023	mg/L		B		0.00066	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Cobalt	0.014	mg/L				0.0012	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Cobalt	0.013	mg/L				0.0012	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Copper	0.0035	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Copper	0.0034	mg/L		B		0.0014	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Iron	0.07	mg/L		B		0.022	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Iron	2	mg/L				0.022	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Lead	0.00018	mg/L		B		0.00018	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Lead	0.0018	mg/L				0.00018	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-03-05	METAL	Magnesium	600	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Magnesium	600	mg/L				0.011	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Manganese	0.39	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Manganese	0.4	mg/L				0.00025	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Molybdenum	0.0075	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Molybdenum	0.0068	mg/L				0.00014	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Nickel	0.035	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Nickel	0.034	mg/L		B		0.0013	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Potassium	25	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Potassium	25	mg/L				0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Sodium	350	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Sodium	350	mg/L				0.092	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Uranium	0.0064	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Uranium	0.0069	mg/L				0.00002	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Vanadium	0.0017	mg/L		B		0.0011	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Vanadium	0.0048	mg/L		B		0.0011	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-03-05	METAL	Zinc	0.0046	mg/L		B		0.0045	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-04-05	METAL	Zinc	0.013	mg/L		B		0.0045	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-09-05	RADS	Alpha activity	8.42	pCi/L	14	U		50.4	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-09-05	RADS	Americium-241	0.0567	pCi/L	0.0229	U		0.062	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-09-05	RADS	Beta activity	-20.4	pCi/L	13.5	U		47.8	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-09-05	RADS	Neptunium-237	-0.00507	pCi/L	0.00878	U		0.0624	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-09-05	RADS	Plutonium-238	0.00514	pCi/L	0.00727	U		0.0393	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-09-05	RADS	Plutonium-239/240	0.0154	pCi/L	0.0103	U		0.0393	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-09-05	RADS	Technetium-99	2.01	pCi/L	1.68	U		5.55	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-09-05	RADS	Uranium-233/234	4.88	pCi/L	0.164			0.0529	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-09-05	RADS	Uranium-235	0.109	pCi/L	0.0281	J		0.0521	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-09-05	RADS	Uranium-238	2.31	pCi/L	0.113			0.0421	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2,4-Dichlorophenol	0.76	ug/L		U		0.76	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2,4-Dimethylphenol	0.68	ug/L		U		0.68	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U		4.7	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-05-05	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	2-Nitrophenol	0.46	ug/L		U		0.46	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	4-Methylphenol	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Acenaphthylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Benz(a)anthracene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Benzo(ghi)perylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Bis(2-ethylhexyl)phthalate	3.2	ug/L		BJ		0.66	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Chrysene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Di-n-octylphthalate	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Hexachlorobenzene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.77	ug/L		U		0.77	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Nitrobenzene	0.96	ug/L		U		0.96	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U		0.52	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-05-05	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	1,2-Dimethylbenzene	0.2	ug/L		J		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Acetone	2.1	ug/L		J		1.9	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Benzene	1.4	ug/L				0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	M + P Xylene	0.38	ug/L		J		0.34	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Methylene chloride	0.43	ug/L		BJ		0.32	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Toluene	1.7	ug/L				0.17	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-01-05	WETCHEM	Alkalinity	840	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-01-05	WETCHEM	Alkalinity as HCO3	840	mg/L				1.1	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-02-05	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BP	2/15/2012
WD-PZ13C	WDPZ13-01-06	ANION	Chloride	49	mg/L				0.51	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-01-06	ANION	Fluoride	0.27	mg/L		B		0.12	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-01-06	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-01-06	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-01-06	ANION	Sulfate	3200	mg/L				23	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Aluminum	1.1	mg/L				0.018	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Arsenic	0.0014	mg/L		B		0.00033	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Arsenic	0.0038	mg/L		B		0.00033	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Barium	0.021	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Barium	0.031	mg/L				0.00058	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Cadmium	0.000056	mg/L		B		0.00004	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Cadmium	0.000063	mg/L		B		0.00004	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Calcium	260	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Calcium	270	mg/L				0.035	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Chromium	0.0016	mg/L		B		0.00066	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Cobalt	0.012	mg/L				0.0012	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Cobalt	0.014	mg/L				0.0012	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Copper	0.002	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Copper	0.0049	mg/L		B		0.0014	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Iron	0.083	mg/L		B		0.022	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Iron	2.9	mg/L				0.022	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Lead	0.0021	mg/L				0.00018	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Magnesium	590	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Magnesium	590	mg/L				0.011	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Manganese	0.34	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Manganese	0.38	mg/L				0.00025	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Mercury	0.000028	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Mercury	0.000035	mg/L		B		0.000027	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Molybdenum	0.0062	mg/L				0.00014	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-04-06	METAL	Molybdenum	0.0062	mg/L				0.00014	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Nickel	0.028	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Nickel	0.032	mg/L		B		0.0013	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Potassium	25	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Potassium	26	mg/L				0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Sodium	370	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Sodium	380	mg/L				0.092	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Thallium	0.000036	mg/L		B		0.000033	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Uranium	0.0065	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Uranium	0.006	mg/L				0.00002	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Vanadium	0.004	mg/L		B		0.0011	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-03-06	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-04-06	METAL	Zinc	0.012	mg/L		B		0.0045	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	PPCB	PCB-1016	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	PPCB	PCB-1221	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	PPCB	PCB-1232	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	PPCB	PCB-1248	0.12	ug/L		U		0.12	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	PPCB	PCB-1260	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	PPCB	Polychlorinated biphenyl	0.11	ug/L		U		0.11	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-09-06	RADS	Alpha activity	14.7	pCi/L	11.6	U	U	34.2	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-09-06	RADS	Americium-241	0.0361	pCi/L	0.0136	U	UJ	0.0346	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-09-06	RADS	Beta activity	0.088	pCi/L	11.5	U	U	32.8	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-09-06	RADS	Neptunium-237	0	pCi/L	0.0062	U	U	0.0335	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-09-06	RADS	Plutonium-238	0.00587	pCi/L	0.0102	U	U	0.0562	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-09-06	RADS	Plutonium-239/240	0.0411	pCi/L	0.0195	U	U	0.0722	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-09-06	RADS	Technetium-99	0.171	pCi/L	1.68	U	U	5.63	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-09-06	RADS	Uranium-233/234	4.86	pCi/L	0.167		=	0.0547	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-09-06	RADS	Uranium-235	0.0846	pCi/L	0.0254	J	J	0.0539	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-09-06	RADS	Uranium-238	2.03	pCi/L	0.108		=	0.0435	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U		0.52	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2,4-Dichlorophenol	0.74	ug/L		U		0.74	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2,4-Dimethylphenol	0.67	ug/L		U		0.67	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U		4.6	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	2-Nitrophenol	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-05-06	SVOA	4-Methylphenol	0.29	ug/L		U		0.29	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Acenaphthene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Acenaphthylene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Anthracene	0.49	ug/L		U		0.49	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Benz(a)anthracene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Benzo(a)pyrene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Benzo(ghi)perylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Benzo(k)fluoranthene	0.53	ug/L		U		0.53	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Bis(2-ethylhexyl)phthalate	3.3	ug/L		BJ		0.65	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Chrysene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Diethyl phthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Di-n-octylphthalate	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Fluorene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Hexachlorobenzene	0.77	ug/L		U		0.77	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Hexachlorobutadiene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.75	ug/L		U		0.75	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Nitrobenzene	0.94	ug/L		U		0.94	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U		0.51	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-05-06	SVOA	Pyrene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	1,2-Dimethylbenzene	0.23	ug/L		J		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Benzene	0.35	ug/L		J		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	M + P Xylene	0.42	ug/L		J		0.34	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Toluene	0.37	ug/L		J		0.17	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-01-06	WETCHEM	Alkalinity	850	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-01-06	WETCHEM	Alkalinity as HCO3	850	mg/L				1.1	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-02-06	WETCHEM	Ammonium Nitrogen	2.5	mg/L				0.1	WATER	WG	REG	BP	3/19/2012
WD-PZ13C	WDPZ13-01-07	ANION	Chloride	47	mg/L				0.51	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-01-07	ANION	Fluoride	0.18	mg/L		B		0.12	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-01-07	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-01-07	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-01-07	ANION	Sulfate	3300	mg/L				23	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Aluminum	0.43	mg/L				0.018	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Arsenic	0.00078	mg/L		B		0.00033	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Arsenic	0.00074	mg/L		B		0.00033	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Barium	0.023	mg/L				0.00058	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Barium	0.029	mg/L				0.00058	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Calcium	300	mg/L				0.035	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Calcium	290	mg/L				0.035	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Chromium	0.0011	mg/L		B		0.00066	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Cobalt	0.012	mg/L				0.0012	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Cobalt	0.012	mg/L				0.0012	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Copper	0.0017	mg/L		B		0.0014	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Copper	0.0034	mg/L		B		0.0014	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Iron	0.068	mg/L		B		0.022	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Iron	1.1	mg/L				0.022	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Lead	0.00096	mg/L		B		0.00018	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Magnesium	650	mg/L				0.011	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Magnesium	650	mg/L				0.011	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Manganese	0.34	mg/L				0.00025	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Manganese	0.35	mg/L				0.00025	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Molybdenum	0.0045	mg/L				0.00014	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Molybdenum	0.0043	mg/L				0.00014	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Nickel	0.027	mg/L		B		0.0013	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Nickel	0.028	mg/L		B		0.0013	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Potassium	28	mg/L				0.24	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Potassium	27	mg/L				0.24	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-03-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Sodium	410	mg/L				0.092	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Sodium	400	mg/L				0.092	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Thallium	0.000069	mg/L		B		0.00005	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Uranium	0.0064	mg/L				0.00005	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Uranium	0.0061	mg/L				0.00005	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Vanadium	0.0018	mg/L		B		0.0011	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Vanadium	0.0029	mg/L		B		0.0011	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-03-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-04-07	METAL	Zinc	0.0066	mg/L		B		0.0045	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-09-07	RADS	Alpha activity	27.5	pCi/L	14.5	U	U	33.1	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-09-07	RADS	Americium-241	0.0298	pCi/L	0.0141	U	U	0.0523	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-09-07	RADS	Beta activity	17.9	pCi/L	7.5	U	UJ	16.8	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-09-07	RADS	Neptunium-237	0	pCi/L	0.00701	U	U	0.0379	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-09-07	RADS	Plutonium-238	0	pCi/L	0.0068	U	U	0.0367	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-09-07	RADS	Plutonium-239/240	0.0672	pCi/L	0.0186	J	J	0.0367	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-09-07	RADS	Technetium-99	-1.43	pCi/L	1.61	U	U	5.48	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-09-07	RADS	Uranium-233/234	4.49	pCi/L	0.161		=	0.0552	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-09-07	RADS	Uranium-235	0.064	pCi/L	0.0225	U	UJ	0.0544	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-09-07	RADS	Uranium-238	2.3	pCi/L	0.115		=	0.0439	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	1,2,4-Trichlorobenzene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U		0.28	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	1,4-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2,4,5-Trichlorophenol	0.55	ug/L		U		0.55	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2,4-Dichlorophenol	0.79	ug/L		U		0.79	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2,4-Dimethylphenol	0.71	ug/L		U		0.71	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U		2.3	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2-Chloronaphthalene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2-Methyl-4,6-dinitrophenol	4.9	ug/L		U		4.9	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2-Methylnaphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2-Nitrobenzenamine	2.1	ug/L		U		2.1	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	2-Nitrophenol	0.48	ug/L		U		0.48	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	4-Bromophenyl phenyl ether	0.53	ug/L		U		0.53	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	4-Methylphenol	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Acenaphthene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Acenaphthylene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Anthracene	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Benz(a)anthracene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-05-07	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Benzo(b)fluoranthene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Benzo(ghi)perylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Benzo(k)fluoranthene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Bis(2-ethylhexyl)phthalate	2.5	ug/L		BJ		0.69	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Chrysene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Dibenz(a,h)anthracene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Dibenzofuran	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Diethyl phthalate	0.47	ug/L		U		0.47	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Dimethyl phthalate	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Di-n-octylphthalate	0.43	ug/L		U		0.43	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Hexachlorobenzene	0.81	ug/L		U		0.81	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Hexachlorobutadiene	4.1	ug/L		U		4.1	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Hexachloroethane	2.6	ug/L		U		2.6	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Isophorone	0.26	ug/L		U		0.26	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Naphthalene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	N-Nitroso-di-n-propylamine	0.43	ug/L		U		0.43	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	N-Nitrosodiphenylamine	0.54	ug/L		U		0.54	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Phenanthrene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-05-07	SVOA	Pyrene	0.46	ug/L		U		0.46	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	4/11/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	WDPZ13-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-01-07	WETCHEM	Alkalinity	840	mg/L				1.1	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-01-07	WETCHEM	Alkalinity as HCO3	840	mg/L				1.1	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	WDPZ13-02-07	WETCHEM	Ammonium Nitrogen	2.5	mg/L				0.1	WATER	WG	REG	BP	4/11/2012
WD-PZ13C	QW146	ANION	Chloride	47000	ug/L				510	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW146	ANION	Fluoride	260	ug/L		B		120	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW146	ANION	Nitrate	110	ug/L		B		84	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW146	ANION	Nitrite as Nitrogen	98	ug/L		U		98	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW146	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW146	ANION	Sulfate	4000000	ug/L				23000	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW153	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	HERB	2,4,5-T	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	HERB	2,4-D	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	HERB	2,4-DB	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	HERB	Dalapon	1.42	ug/L		U		1.42	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	HERB	Dicamba	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	HERB	Dichloroprop	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	HERB	Dinoseb	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	HERB	MCPA	12.5	ug/L		U		12.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	HERB	MCPP	11.4	ug/L		U		11.4	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	HERB	Silvex	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Aluminum	2	mg/L				0.018	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Antimony	0.00061	mg/L		B		0.0004	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Antimony	0.0011	mg/L		B		0.0004	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Arsenic	0.00054	mg/L		B		0.00033	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Arsenic	0.0036	mg/L		B		0.00033	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Barium	0.021	mg/L				0.00029	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Barium	0.029	mg/L				0.00029	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Beryllium	0.00013	mg/L		B		0.00008	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Calcium	280	mg/L				0.035	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Calcium	310	mg/L				0.035	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Chromium	0.002	mg/L				0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW149	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Cobalt	0.01	mg/L				0.000054	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Cobalt	0.012	mg/L				0.000054	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Copper	0.0036	mg/L				0.00056	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Iron	4.7	mg/L				0.022	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Lead	0.0028	mg/L				0.00018	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Lithium	0.21	mg/L				0.0026	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Lithium	0.22	mg/L				0.0026	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Magnesium	710	mg/L				0.011	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Magnesium	820	mg/L				0.011	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Manganese	0.4	mg/L				0.00031	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Manganese	0.43	mg/L				0.00031	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Nickel	0.02	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Nickel	0.026	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Potassium	24	mg/L				0.24	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Potassium	25	mg/L				0.24	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Sodium	360	mg/L				0.092	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Sodium	390	mg/L				0.092	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Strontium	5.9	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Strontium	6.7	mg/L				0.0003	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Thallium	0.00046	mg/L		B		0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Thallium	0.00055	mg/L		B		0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Titanium	0.051	mg/L				0.0006	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Uranium	0.007	mg/L				0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Uranium	0.0075	mg/L				0.00005	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Vanadium	0.0034	mg/L		B		0.0005	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW148	METAL	Zinc	0.0031	mg/L		B		0.002	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW149	METAL	Zinc	0.013	mg/L				0.002	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	2,4'-DDD	0.005	ug/L		U		0.005	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	2,4'-DDE	0.006	ug/L		U		0.006	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	2,4'-DDT	0.005	ug/L		U		0.005	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	4,4'-DDD	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	4,4'-DDE	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	4,4'-DDT	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Aldrin	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	alpha-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	alpha-Chlordane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	beta-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Chlordane	0.0765	ug/L		U		0.0765	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	delta-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Dieldrin	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Endosulfan I	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Endosulfan II	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Endosulfan sulfate	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Endrin	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Endrin aldehyde	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Endrin ketone	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW150	PPCB	gamma-Chlordane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Heptachlor	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Heptachlor epoxide	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Kepone	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Lindane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Methoxychlor	0.05	ug/L		U		0.05	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	PCB-1016	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	PCB-1221	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	PCB-1232	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	PCB-1242	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	PCB-1248	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	PCB-1254	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	PCB-1260	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	PCB-1268	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Polychlorinated biphenyl	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	PPCB	Toxaphene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Americium-241	-0.0161	pCi/L	0.0316	U		0.0772	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Neptunium-237	0	pCi/L	0.02	U		0.0391	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Plutonium-238	0	pCi/L	0.0103	U		0.02	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Plutonium-239/240	0.0105	pCi/L	0.0145	U		0.02	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Technetium-99	-0.193	pCi/L	0.398	U		0.716	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Thorium-228	0.293	pCi/L	0.0804			0.056	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Thorium-230	0.376	pCi/L	0.0896			0.0572	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Thorium-232	0.213	pCi/L	0.0654			0.02	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Uranium-233/234	4.29	pCi/L	0.537			0.126	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Uranium-235/236	0.0643	pCi/L	0.0846			0.0643	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW152	RADS	Uranium-238	2.57	pCi/L	0.416			0.114	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	1,2,4-Trichlorobenzene	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	1,2-Dichlorobenzene	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	1,3-Dichlorobenzene	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	1,4-Dichlorobenzene	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2,4,5-Trichlorophenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2,4,6-Trichlorophenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2,4-Dichlorophenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2,4-Dimethylphenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2,4-Dinitrophenol	25	ug/L		U		25	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2,4-Dinitrotoluene	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2,6-Dinitrotoluene	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2-Chloronaphthalene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2-Chlorophenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2-Methyl-4,6-dinitrophenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2-Methylnaphthalene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2-Methylphenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2-Nitrobenzenamine	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	2-Nitrophenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	3,3'-Dichlorobenzidine	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	3-Nitrobenzenamine	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	4-Aminobiphenyl	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	4-Bromophenyl phenyl ether	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	4-Chloro-3-methylphenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	4-Chlorobenzenamine	16.5	ug/L		U		16.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	4-Chlorophenyl phenyl ether	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	4-Nitrobenzenamine	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	4-Nitrophenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Acenaphthene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Acenaphthylene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Acetophenone	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Anthracene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Benz(a)anthracene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Benzenemethanol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW150	SVOA	Benzo(a)pyrene	2.2	ug/L		U		2.2	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Benzo(b)fluoranthene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Benzo(ghi)perylene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Benzo(k)fluoranthene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Benzoic acid	30	ug/L		U		30	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Bis(2-chloroethoxy)methane	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Bis(2-chloroethyl) ether	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	bis(2-Chloroisopropyl)ether	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Bis(2-ethylhexyl)phthalate	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Butyl benzyl phthalate	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Chrysene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Dibenz(a,h)anthracene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Dibenzofuran	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Diethyl phthalate	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Dimethyl phthalate	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Di-n-butyl phthalate	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Di-n-octylphthalate	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Diphenylamine	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Fluoranthene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Fluorene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Hexachlorobenzene	0.00625	ug/L		U		0.00625	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Hexachlorobutadiene	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Hexachlorocyclopentadiene	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Hexachloroethane	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Indeno(1,2,3-cd)pyrene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Isophorone	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	m+p Methylphenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Naphthalene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Nitrobenzene	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	N-Nitrosodimethylamine	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	N-Nitroso-di-n-propylamine	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	N-Nitrosomorpholine	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	O,O,O-Triethylphosphorothioate	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Pentachlorophenol	0.0568	ug/L		U		0.0568	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Phenanthrene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Phenol	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Pyrene	1.5	ug/L		U		1.5	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	SVOA	Pyridine	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW150	VOA	1,4-Dioxane	15	ug/L		U		15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW151	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW151	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW146	WETCHEM	Alkalinity	840	mg/L				1.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW146	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW146	WETCHEM	Alkalinity as HCO3	840	mg/L				1.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW147	WETCHEM	Ammonium Nitrogen	1.9	mg/L				0.1	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW146	WETCHEM	Chromium, hexavalent	0.033	mg/L		J		0.004	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW225	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW154	WETCHEM	Cyanide	0.0059	mg/L		B		0.002	WATER	WG	REG	BAI	9/25/2012
WD-PZ13C	QW155	ANION	Chloride	47000	ug/L				510	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW155	ANION	Fluoride	250	ug/L		B		120	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW155	ANION	Nitrate	120	ug/L		B		84	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW155	ANION	Nitrite as Nitrogen	98	ug/L		U		98	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW155	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW155	ANION	Sulfate	3900000	ug/L				23000	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW162	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	HERB	2,4,5-T	0.0976	ug/L		U		0.0976	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	HERB	2,4-D	0.0976	ug/L		U		0.0976	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	HERB	2,4-DB	0.0976	ug/L		U		0.0976	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	HERB	Dalapon	1.47	ug/L		U		1.47	WATER	WG	FD	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW159	HERB	Dicamba	0.0976	ug/L		U		0.0976	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	HERB	Dichloroprop	0.0976	ug/L		U		0.0976	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	HERB	Dinoseb	0.0976	ug/L		U		0.0976	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	HERB	MCPA	12.9	ug/L		U		12.9	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	HERB	MCPP	11.8	ug/L		U		11.8	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	HERB	Silvex	0.0976	ug/L		U		0.0976	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Aluminum	3.2	mg/L				0.018	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Antimony	0.00081	mg/L		B		0.0004	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Antimony	0.0015	mg/L		B		0.0004	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Arsenic	0.0005	mg/L		B		0.00033	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Arsenic	0.0048	mg/L		B		0.00033	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Barium	0.019	mg/L				0.00029	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Barium	0.03	mg/L				0.00029	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Beryllium	0.00015	mg/L		B		0.00008	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Calcium	280	mg/L				0.035	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Calcium	300	mg/L				0.035	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Chromium	0.0037	mg/L				0.0005	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Cobalt	0.0099	mg/L				0.000054	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Cobalt	0.013	mg/L				0.000054	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Copper	0.0056	mg/L				0.00056	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Iron	7.1	mg/L				0.022	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Lead	0.0041	mg/L				0.00018	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Lithium	0.21	mg/L				0.0026	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Lithium	0.22	mg/L				0.0026	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Magnesium	730	mg/L				0.011	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Magnesium	790	mg/L				0.011	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Manganese	0.38	mg/L				0.00031	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Manganese	0.46	mg/L				0.00031	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Nickel	0.021	mg/L				0.0003	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Nickel	0.028	mg/L				0.0003	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Potassium	25	mg/L				0.24	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Potassium	25	mg/L				0.24	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Sodium	370	mg/L				0.092	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Sodium	380	mg/L				0.092	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Strontium	6	mg/L				0.0003	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Strontium	6.3	mg/L				0.0003	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Thallium	0.000052	mg/L		B		0.00005	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Thallium	0.00012	mg/L		B		0.00005	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Titanium	0.061	mg/L				0.0006	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Uranium	0.0069	mg/L				0.00005	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Uranium	0.0076	mg/L				0.00005	WATER	WG	FD	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW157	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Vanadium	0.0055	mg/L				0.0005	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW157	METAL	Zinc	0.0026	mg/L		B		0.002	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW158	METAL	Zinc	0.019	mg/L				0.002	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Kepone	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	PCB-1016	0.0401	ug/L		U		0.0401	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	PCB-1221	0.0401	ug/L		U		0.0401	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	PCB-1232	0.0401	ug/L		U		0.0401	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	PCB-1242	0.0401	ug/L		U		0.0401	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	PCB-1248	0.0401	ug/L		U		0.0401	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	PCB-1254	0.0401	ug/L		U		0.0401	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	PCB-1260	0.0401	ug/L		U		0.0401	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	PCB-1268	0.0401	ug/L		U		0.0401	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Polychlorinated biphenyl	0.0401	ug/L		U		0.0401	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Americium-241	-0.00591	pCi/L	0.0259	U		0.0566	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Neptunium-237	0	pCi/L	0.0198	U		0.0395	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Plutonium-238	-0.00262	pCi/L	0.0115	U		0.0251	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Plutonium-239/240	0.00261	pCi/L	0.00887	U		0.00784	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Technetium-99	-0.0422	pCi/L	0.408	U		0.721	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Thorium-228	0.331	pCi/L	0.101			0.0677	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Thorium-230	0.419	pCi/L	0.111			0.066	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Thorium-232	0.27	pCi/L	0.0872			0.0269	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Uranium-233/234	5.12	pCi/L	0.513			0.108	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Uranium-235/236	0.136	pCi/L	0.103			0.1	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW161	RADS	Uranium-238	2.73	pCi/L	0.373			0.0397	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW159	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Benzo(a)pyrene	0.44	ug/L		U		0.44	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	bis(2-Chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Di-n-butyl phthalate	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Isophorone	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	m+p Methylphenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Pentachlorophenol	0.0588	ug/L		U		0.0588	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Phenol	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW159	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW159	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW160	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW155	WETCHEM	Alkalinity	840	mg/L				1.1	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW155	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW155	WETCHEM	Alkalinity as HCO3	840	mg/L				1.1	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW156	WETCHEM	Ammonium Nitrogen	1.7	mg/L				0.1	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW155	WETCHEM	Chromium, hexavalent	0.035	mg/L		J		0.004	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW226	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW163	WETCHEM	Cyanide	0.0041	mg/L		B		0.002	WATER	WG	FD	BAI	9/25/2012
WD-PZ13C	QW454	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW454	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0752	ng/L		J		2.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW454	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	HERB	2,4,5-T	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	HERB	2,4-D	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	HERB	2,4-DB	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	HERB	Dalapon	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	HERB	Dicamba	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	HERB	Dichloroprop	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	HERB	Dinoseb	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	HERB	MCPA	12.4	ug/L		U		12.4	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	HERB	MCPP	11.2	ug/L		U		11.2	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	HERB	Silvex	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	2,4'-DDD	0.00595	ug/L		U		0.00595	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	2,4'-DDE	0.00714	ug/L		U		0.00714	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	2,4'-DDT	0.00595	ug/L		U		0.00595	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	4,4'-DDD	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	4,4'-DDE	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	4,4'-DDT	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Aldrin	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	alpha-BHC	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	alpha-Chlordane	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	beta-BHC	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Chlordane	0.0911	ug/L		U		0.0911	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	delta-BHC	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Dieldrin	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Endosulfan I	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Endosulfan II	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Endosulfan sulfate	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Endrin	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Endrin aldehyde	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Endrin ketone	0.0119	ug/L		U		0.0119	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	gamma-Chlordane	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Heptachlor	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Heptachlor epoxide	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Kepone	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Lindane	0.00792	ug/L		U		0.00792	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Methoxychlor	0.0595	ug/L		U		0.0595	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	PPCB	Toxaphene	0.179	ug/L		U		0.179	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW453	RADS	Americium-241	0.00553	pCi/L	0.0108	U		0.00829	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW453	RADS	Neptunium-237	0.00924	pCi/L	0.024	U		0.0426	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW453	RADS	Plutonium-238	-0.0023	pCi/L	0.0101	U		0.0221	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW453	RADS	Plutonium-239/240	0.00461	pCi/L	0.0111	U		0.0176	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW453	RADS	Technetium-99	0.177	pCi/L	0.426	U		0.726	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW453	RADS	Thorium-228	0.0108	pCi/L	0.0183	U		0.0312	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW453	RADS	Thorium-230	0.00154	pCi/L	0.0168	U		0.0317	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW453	RADS	Thorium-232	-0.0023	pCi/L	0.00943	U		0.0204	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW453	RADS	Uranium-233/234	4.18	pCi/L	0.285			0.0615	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW453	RADS	Uranium-235/236	0.154	pCi/L	0.0619			0.0185	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW453	RADS	Uranium-238	2.13	pCi/L	0.203			0.0352	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	1,2,4-Trichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	1,2-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	1,3-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	1,4-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2,4,5-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2,4,6-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2,4-Dichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2,4-Dimethylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2,4-Dinitrophenol	5.68	ug/L		U		5.68	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2,4-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2,6-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2-Chloronaphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2-Chlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2-Methyl-4,6-dinitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2-Methylnaphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2-Methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	2-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	3,3'-Dichlorobenzidine	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	3-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	4-Aminobiphenyl	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	4-Bromophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	4-Chloro-3-methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	4-Chlorobenzenamine	3.75	ug/L		U		3.75	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	4-Chlorophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	4-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	4-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Acenaphthene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Acenaphthylene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Acetophenone	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Benz(a)anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Benzenemethanol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Benzo(a)pyrene	0.5	ug/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Benzo(b)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Benzo(ghi)perylene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Benzo(k)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Benzoic acid	6.82	ug/L		U		6.82	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Bis(2-chloroethoxy)methane	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Bis(2-chloroethyl) ether	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	bis(2-Chloroisopropyl)ether	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Bis(2-ethylhexyl)phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Butyl benzyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Chrysene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Dibenz(a,h)anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Dibenzofuran	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Diethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Dimethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Di-n-butyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Di-n-octylphthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Diphenylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW451	SVOA	Fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Fluorene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Hexachlorobenzene	0.00744	ug/L		U		0.00744	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Hexachlorobutadiene	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Hexachlorocyclopentadiene	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Hexachloroethane	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Indeno(1,2,3-cd)pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Isophorone	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	m+p Methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Naphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Nitrobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	N-Nitrosodimethylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	N-Nitroso-di-n-propylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	N-Nitrosomorpholine	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	O,O,O-Triethylphosphorothioate	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Pentachlorophenol	0.0562	ug/L		U		0.0562	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Phenanthrene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Phenol	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	SVOA	Pyridine	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW451	VOA	1,4-Dioxane	3.41	ug/L		U		3.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW452	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW452	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW448	WETCHEM	Ammonium Nitrogen	1.5	mg/L				0.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW455	WETCHEM	Cyanide	0.0025	mg/L		B		0.002	WATER	WG	REG	BAI	12/6/2012
WD-PZ13C	QW447R	ANION	Chloride	49000	ug/L				510	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW447R	ANION	Fluoride	270	ug/L		B		120	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW447R	ANION	Nitrate	330	ug/L		B		84	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW447R	ANION	Nitrite as Nitrogen	98	ug/L		U		98	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW447R	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW447R	ANION	Sulfate	3600000	ug/L				46000	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Aluminum	0.032	mg/L		B		0.018	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Aluminum	0.26	mg/L				0.018	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Arsenic	0.00091	mg/L		B		0.00033	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Barium	0.018	mg/L				0.00029	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Barium	0.021	mg/L				0.0015	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Calcium	300	mg/L				0.035	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Calcium	270	mg/L				0.035	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Chromium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Cobalt	0.008	mg/L				0.000054	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Cobalt	0.006	mg/L				0.00027	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Copper	0.00075	mg/L		B		0.00056	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Iron	0.07	mg/L		B		0.022	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Iron	0.79	mg/L				0.022	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Lead	0.0002	mg/L		B		0.00018	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Lithium	0.24	mg/L				0.0026	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Lithium	0.24	mg/L				0.0026	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Magnesium	740	mg/L				0.011	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Magnesium	690	mg/L				0.011	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Manganese	0.37	mg/L				0.00031	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Manganese	0.36	mg/L				0.0016	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Nickel	0.018	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Nickel	0.019	mg/L				0.0015	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Potassium	22	mg/L				0.24	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Potassium	24	mg/L				0.24	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Sodium	350	mg/L				0.092	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Sodium	380	mg/L				0.092	WATER	WG	REG	BAI	12/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	QW449R	METAL	Strontium	5.8	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Strontium	5.7	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Titanium	0.0046	mg/L		B		0.0006	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Uranium	0.0066	mg/L				0.00005	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Uranium	0.008	mg/L				0.00025	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW449R	METAL	Zinc	0.005	mg/L		B		0.002	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW450R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW447R	WETCHEM	Alkalinity	870	mg/L				1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW447R	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW447R	WETCHEM	Alkalinity as HCO3	870	mg/L				1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW456R	WETCHEM	Chromium, hexavalent	0.006	mg/L		BJ		0.004	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	QW457R	WETCHEM	Chromium, hexavalent	0.0051	mg/L		BJ		0.004	WATER	WG	REG	BAI	12/10/2012
WD-PZ13C	DC577	ANION	Chloride	43	mg/L				0.51	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC577	ANION	Fluoride	0.24	mg/L		B		0.12	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC577	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC577	ANION	Nitrite as Nitrogen	0.098	mg/L		U		0.098	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC577	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC577	ANION	Sulfate	3300	mg/L				23	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0188	ng/L		U		0.0188	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00377	ng/L		U		0.00377	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00377	ng/L		U		0.00377	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0377	ng/L		U		0.0377	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC584	DI/FURA	Octachlorodibenzofuran	0.0377	ng/L		U		0.0377	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	HERB	2,4,5-T	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	HERB	2,4-D	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	HERB	2,4-DB	0.102	ug/L		U		0.102	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	HERB	Dalapon	1.28	ug/L		U		1.28	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	HERB	Dicamba	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	HERB	Dichloroprop	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	HERB	Dinoseb	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	HERB	MCPA	11.2	ug/L		U		11.2	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	HERB	MCPP	10.2	ug/L		U		10.2	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	HERB	Silvex	0.0847	ug/L		U		0.0847	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Aluminum	0.059	mg/L		B		0.018	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Arsenic	0.0017	mg/L		B		0.0017	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Barium	0.015	mg/L				0.0015	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Barium	0.014	mg/L				0.00029	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	DC579	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Calcium	260	mg/L				0.035	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Calcium	260	mg/L				0.035	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Chromium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Chromium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Cobalt	0.0042	mg/L		B		0.00027	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Cobalt	0.0041	mg/L		B		0.00027	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Copper	0.0071	mg/L		B		0.0028	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Copper	0.0092	mg/L		B		0.0028	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Iron	0.1	mg/L				0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Iron	0.2	mg/L				0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Lead	0.00029	mg/L		B		0.00018	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Lithium	0.21	mg/L				0.0026	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Lithium	0.21	mg/L				0.0026	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Magnesium	720	mg/L				0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Magnesium	730	mg/L				0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Manganese	0.9	mg/L				0.0016	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Manganese	0.9	mg/L				0.0016	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Nickel	0.01	mg/L				0.0015	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Nickel	0.011	mg/L				0.0015	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Sodium	340	mg/L				0.092	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Sodium	330	mg/L				0.092	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Strontium	4.9	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Strontium	4.8	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Uranium	0.0081	mg/L				0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Uranium	0.0084	mg/L				0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC579	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC580	METAL	Zinc	0.01	mg/L		B		0.01	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	2,4'-DDD	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	2,4'-DDE	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	2,4'-DDT	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	4,4'-DDD	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	4,4'-DDE	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	4,4'-DDT	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Aldrin	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	alpha-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	alpha-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	beta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013

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STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	DC583	PPCB	Chlordane	0.0814	ug/L		U		0.0814	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	delta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Dieldrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Endosulfan I	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Endosulfan II	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Endosulfan sulfate	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Endrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Endrin aldehyde	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Endrin ketone	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	gamma-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Heptachlor	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Heptachlor epoxide	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Kepone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Lindane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Methoxychlor	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	PCB-1016	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	PCB-1221	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	PCB-1232	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	PCB-1242	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	PCB-1248	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	PCB-1254	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	PCB-1260	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	PCB-1268	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Polychlorinated biphenyl	0.0362	ug/L		U		0.0362	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	PPCB	Toxaphene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Americium-241	0.00524	pCi/L	0.023	U		0.0401	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Neptunium-237	0.0353	pCi/L	0.0515	JU		0.0353	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Plutonium-238	0	pCi/L	0.00983	U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Plutonium-239/240	0.00709	pCi/L	0.017	U		0.0271	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Technetium-99	0.525	pCi/L	0.408	U		0.668	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Thorium-228	0.0615	pCi/L	0.0296			0.0238	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Thorium-230	0.0853	pCi/L	0.0355			0.0329	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Thorium-232	0.0114	pCi/L	0.0187	U		0.0294	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Uranium-233/234	5.58	pCi/L	0.384			0.0598	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Uranium-235/236	0.114	pCi/L	0.0653			0.0497	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC587	RADS	Uranium-238	2.88	pCi/L	0.276			0.0483	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	1,2,4-Trichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	1,2-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	1,3-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	1,4-Dichlorobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2,4,5-Trichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2,4,6-Trichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2,4-Dichlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2,4-Dimethylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2,4-Dinitrophenol	6.49	ug/L		U		6.49	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2,4-Dinitrotoluene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2,6-Dinitrotoluene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2-Chloronaphthalene	0.532	ug/L		U		0.532	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2-Chlorophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2-Methyl-4,6-dinitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2-Methylnaphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2-Methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	2-Nitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	3,3'-Dichlorobenzidine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	3-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	4-Aminobiphenyl	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	4-Bromophenyl phenyl ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	4-Chloro-3-methylphenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	4-Chlorobenzenamine	4.29	ug/L		U		4.29	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	DC583	SVOA	4-Chlorophenyl phenyl ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	4-Nitrobenzenamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	4-Nitrophenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Acenaphthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Acenaphthylene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Acetophenone	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Benz(a)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Benzenemethanol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Benzo(a)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Benzo(b)fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Benzo(ghi)perylene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Benzo(k)fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Benzoic acid	7.79	ug/L		U		7.79	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Bis(2-chloroethoxy)methane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Bis(2-chloroethyl) ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Bis(2-chloroisopropyl)ether	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Bis(2-ethylhexyl)phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Butyl benzyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Chrysene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Dibenz(a,h)anthracene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Dibenzofuran	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Diethyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Dimethyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Di-n-butyl phthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Di-n-octylphthalate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Diphenylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Fluoranthene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Hexachlorobenzene	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Hexachlorocyclopentadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Hexachloroethane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Indeno(1,2,3-cd)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Isophorone	4.55	ug/L		U		4.55	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	m,p-cresol	4.81	ug/L		U		4.81	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Naphthalene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Nitrobenzene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	N-Nitrosodimethylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	N-Nitroso-di-n-propylamine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	N-Nitrosomorpholine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	O,O,O-Triethylphosphorothioate	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Pentachlorophenol	0.051	ug/L		U		0.051	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Phenanthrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Phenol	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	SVOA	Pyridine	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ13C	DC586	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC583	VOA	1,4-Dioxane	3.9	ug/L		U		3.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Chloroform	0.22	ug/L		J		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC586	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC577	WETCHEM	Alkalinity	790	mg/L				1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC577	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC577	WETCHEM	Alkalinity as HCO3	790	mg/L				1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC578	WETCHEM	Ammonia	0.26	mg/L		B		0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC578	WETCHEM	Ammonium Nitrogen	0.26	mg/L				0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC581	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC582	WETCHEM	Chromium, hexavalent	0.0092	mg/L		B		0.004	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC585	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/24/2013
WD-PZ13C	DC577	WETCHEM	Dissolved Solids	5300	mg/L				19	WATER	WG	REG	BP	6/24/2013
WD-PZ14C	WDPZ14-01-02	ANION	Chloride	78	mg/L			XV	1.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-01-02	ANION	Fluoride	0.3	mg/L		U	XV	0.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-01-02	ANION	Nitrate	0.21	mg/L		U	XV	0.21	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-01-02	ANION	Orthophosphate	0.94	mg/L		U	XV	0.94	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-01-02	ANION	Sulfate	4200	mg/L			XV	23	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Aluminum	18	ug/L		U	XV	18	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Aluminum	5.3	mg/L			XV	0.018	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Antimony	3.1	ug/L		U	XV	3.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Arsenic	3.2	ug/L		B	XV	0.33	WATER	WG	REG	BAI	11/22/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-04-02	METAL	Arsenic	0.0078	mg/L			XV	0.00033	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Barium	34	ug/L			XV	0.58	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Barium	0.054	mg/L			XV	0.00058	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Beryllium	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Cadmium	0.12	ug/L		B	XV	0.04	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Cadmium	0.00018	mg/L		B	XV	0.00004	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Calcium	390000	ug/L			XV	35	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Calcium	400	mg/L			XV	0.035	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Chromium	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Chromium	0.0064	mg/L		B	XV	0.00066	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Cobalt	120	ug/L			XV	1.2	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Cobalt	0.12	mg/L			XV	0.0012	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Copper	1.4	ug/L		B	XV	1.4	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Copper	0.0093	mg/L		B	XV	0.0014	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Iron	22	ug/L		U	XV	22	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Iron	5.3	mg/L			XV	0.022	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Lead	0.51	ug/L		B	XV	0.18	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Lead	0.0038	mg/L			XV	0.00018	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Magnesium	740000	ug/L			XV	11	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Magnesium	750	mg/L			XV	0.011	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Manganese	5200	ug/L			XV	0.25	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Manganese	5.4	mg/L			XV	0.00025	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Mercury	0.075	ug/L		B	XV	0.027	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Mercury	0.000079	mg/L		B	XV	0.000027	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Molybdenum	13	ug/L			XV	0.14	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Molybdenum	0.013	mg/L			XV	0.00014	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Nickel	280	ug/L			XV	1.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Nickel	0.29	mg/L			XV	0.0013	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Potassium	28000	ug/L			XV	240	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Potassium	29	mg/L			XV	0.24	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Selenium	4.5	ug/L		B	XV	0.7	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Selenium	0.0048	mg/L		B	XV	0.0007	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Silver	0.93	ug/L		U	XV	0.93	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Sodium	300000	ug/L			XV	92	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Sodium	300	mg/L			XV	0.092	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Thallium	0.073	ug/L		B	XV	0.033	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Thallium	0.000091	mg/L		B	XV	0.000033	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Uranium	2.7	ug/L			XV	0.02	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Uranium	0.003	mg/L			XV	0.00002	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Vanadium	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Vanadium	0.011	mg/L			XV	0.0011	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-03-02	METAL	Zinc	9.3	ug/L		B	XV	4.5	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-04-02	METAL	Zinc	0.025	mg/L			XV	0.0045	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	PPCB	PCB-1221	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	PPCB	PCB-1232	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	PPCB	Polychlorinated biphenyl	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-09-02	RADS	Alpha activity	17.1	pCi/L	8.73	U	XV	53.9	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-09-02	RADS	Americium-241	0.038	pCi/L	0.0224	U	XV	0.0961	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-09-02	RADS	Beta activity	19.6	pCi/L	7.49	U	XV	37.9	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-09-02	RADS	Neptunium-237	0	pCi/L	0.00667	U	XV	0.0361	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-09-02	RADS	Plutonium-238	0	pCi/L	0.00695	U	XV	0.047	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-09-02	RADS	Plutonium-239/240	0.0147	pCi/L	0.00982	U	XV	0.0376	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-09-02	RADS	Technetium-99	-0.836	pCi/L	1.66	U	XV	5.59	WATER	WG	REG	BAI	11/22/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-09-02	RADS	Uranium-233/234	4.92	pCi/L	0.153		XV	0.0363	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-09-02	RADS	Uranium-235	0.111	pCi/L	0.0268	J	XV	0.0561	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-09-02	RADS	Uranium-238	2.32	pCi/L	0.105		XV	0.0362	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	1,2-Dichlorobenzene	0.28	ug/L		U	XV	0.28	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	1,3-Dichlorobenzene	0.37	ug/L		U	XV	0.37	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	1,4-Dichlorobenzene	0.4	ug/L		U	XV	0.4	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2,4,5-Trichlorophenol	0.56	ug/L		U	XV	0.56	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2,4,6-Trichlorophenol	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2,4-Dichlorophenol	0.79	ug/L		U	XV	0.79	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2,4-Dimethylphenol	0.72	ug/L		U	XV	0.72	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2,6-Dinitrotoluene	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2-Chloronaphthalene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2-Chlorophenol	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2-Methyl-4,6-dinitrophenol	5	ug/L		U	XV	5	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2-Methylnaphthalene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2-Nitrobenzenamine	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	2-Nitrophenol	0.48	ug/L		U	XV	0.48	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	3-Nitrobenzenamine	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	4-Bromophenyl phenyl ether	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	4-Chloro-3-methylphenol	3	ug/L		U	XV	3	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U	XV	2.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	4-Methylphenol	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	4-Nitrobenzenamine	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	4-Nitrophenol	1.5	ug/L		U	XV	1.5	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Acenaphthene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Acenaphthylene	0.61	ug/L		U	XV	0.61	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Anthracene	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Benz(a)anthracene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Benzo(a)pyrene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Benzo(b)fluoranthene	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Benzo(ghi)perylene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Benzo(k)fluoranthene	0.57	ug/L		U	XV	0.57	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Bis(2-ethylhexyl)phthalate	0.69	ug/L		U	XV	0.69	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Chrysene	0.67	ug/L		U	XV	0.67	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Dibenz(a,h)anthracene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Dibenzofuran	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Diethyl phthalate	0.47	ug/L		U	XV	0.47	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Dimethyl phthalate	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Di-n-octylphthalate	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Fluoranthene	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Fluorene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Hexachlorobenzene	0.82	ug/L		U	XV	0.82	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Hexachlorobutadiene	4.1	ug/L		U	XV	4.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Hexachloroethane	2.6	ug/L		U	XV	2.6	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Indeno(1,2,3-cd)pyrene	0.81	ug/L		U	XV	0.81	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Isophorone	0.26	ug/L		U	XV	0.26	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Naphthalene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Nitrobenzene	1	ug/L		U	XV	1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	N-Nitroso-di-n-propylamine	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BAI	11/22/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-05-02	SVOA	N-Nitrosodiphenylamine	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Pentachlorophenol	25	ug/L		U	XV	25	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Phenanthrene	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Phenol	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-05-02	SVOA	Pyrene	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Acetone	1.9	ug/L		U	XV	1.9	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-08-02	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Bromodichloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Bromoform	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Chloroform	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Dibromochloromethane	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Methylene chloride	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-07-02	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-06-02	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-07-02	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-01-02	WETCHEM	Alkalinity	440	mg/L			XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-01-02	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-01-02	WETCHEM	Alkalinity as HCO3	440	mg/L			XV	1.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-02-02	WETCHEM	Ammonium Nitrogen	2.1	mg/L			XV	0.1	WATER	WG	REG	BAI	11/22/2011
WD-PZ14C	WDPZ14-01-03	ANION	Chloride	73	mg/L			XV	1.3	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-01-03	ANION	Fluoride	0.32	mg/L		B	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-01-03	ANION	Nitrate	0.21	mg/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-01-03	ANION	Orthophosphate	0.94	mg/L		U	XV	0.94	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-01-03	ANION	Sulfate	5700	mg/L			XV	46	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Aluminum	0.018	mg/L		U	XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Aluminum	1.2	mg/L			XV	0.018	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Antimony	0.0031	mg/L		U	XV	0.0031	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Arsenic	0.00087	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Arsenic	0.002	mg/L		B	XV	0.00033	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Barium	0.023	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Barium	0.029	mg/L			XV	0.00058	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Beryllium	0.00047	mg/L		U	XV	0.00047	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Cadmium	0.00024	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Cadmium	0.00029	mg/L		B	XV	0.00004	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-03-03	METAL	Calcium	390	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Calcium	400	mg/L			XV	0.035	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Chromium	0.001	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Chromium	0.0024	mg/L		B	XV	0.00066	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Cobalt	0.073	mg/L			XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Cobalt	0.076	mg/L			XV	0.0012	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Copper	0.0019	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Copper	0.0049	mg/L		B	XV	0.0014	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Iron	0.022	mg/L		U	XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Iron	2.1	mg/L			XV	0.022	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Lead	0.00064	mg/L		B	XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Lead	0.0037	mg/L			XV	0.00018	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Magnesium	830	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Magnesium	880	mg/L			XV	0.011	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Manganese	13	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Manganese	14	mg/L			XV	0.00025	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Mercury	0.000027	mg/L		U	XV	0.000027	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Molybdenum	0.0015	mg/L		B	XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Molybdenum	0.0017	mg/L		B	XV	0.00014	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Nickel	0.18	mg/L			XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Nickel	0.19	mg/L			XV	0.0013	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Potassium	28	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Potassium	29	mg/L			XV	0.24	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Selenium	0.0011	mg/L		B	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Selenium	0.0007	mg/L		U	XV	0.0007	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Silver	0.00093	mg/L		U	XV	0.00093	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Sodium	280	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Sodium	290	mg/L			XV	0.092	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Thallium	0.00012	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Thallium	0.00018	mg/L		B	XV	0.000033	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Uranium	0.00066	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Uranium	0.00071	mg/L		B	XV	0.00002	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Vanadium	0.0011	mg/L		U	XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Vanadium	0.0027	mg/L		B	XV	0.0011	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-03-03	METAL	Zinc	0.065	mg/L			XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-04-03	METAL	Zinc	0.076	mg/L			XV	0.0045	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	PPCB	PCB-1016	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	PPCB	PCB-1221	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	PPCB	PCB-1232	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	PPCB	PCB-1242	0.12	ug/L		U	XV	0.12	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	PPCB	PCB-1248	0.11	ug/L		U	XV	0.11	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	PPCB	PCB-1254	0.14	ug/L		U	XV	0.14	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	PPCB	PCB-1260	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	PPCB	Polychlorinated biphenyl	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-09-03	RADS	Alpha activity	1.86	pCi/L	6.85	U		54	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-09-03	RADS	Americium-241	0.0496	pCi/L	0.0234	U		0.0792	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-09-03	RADS	Beta activity	1.89	pCi/L	6.08	U		35.9	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-09-03	RADS	Neptunium-237	0	pCi/L	0.0163	U		0.0931	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-09-03	RADS	Plutonium-238	-0.0314	pCi/L	-0.0209	U		0.151	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-09-03	RADS	Plutonium-239/240	0.0314	pCi/L	0.0209	U		0.08	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-09-03	RADS	Technetium-99	5.52	pCi/L	1.71	U	XV	5.54	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-09-03	RADS	Uranium-233/234	8.65	pCi/L	0.332			0.0974	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-09-03	RADS	Uranium-235	0.361	pCi/L	0.0786	J		0.15	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-09-03	RADS	Uranium-238	7.74	pCi/L	0.314			0.121	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U	XV	0.35	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U	XV	0.38	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-05-03	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U	XV	0.53	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2,4-Dichlorophenol	0.75	ug/L		U	XV	0.75	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2,4-Dimethylphenol	0.68	ug/L		U	XV	0.68	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2,4-Dinitrophenol	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2,4-Dinitrotoluene	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U	XV	2.2	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2-Chloronaphthalene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2-Chlorophenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U	XV	4.7	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2-Methylnaphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2-Methylphenol	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2-Nitrobenzenamine	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	2-Nitrophenol	0.46	ug/L		U	XV	0.46	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	3-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U	XV	0.51	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U	XV	2.8	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	4-Methylphenol	0.29	ug/L		U	XV	0.29	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	4-Nitrobenzenamine	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	4-Nitrophenol	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Acenaphthene	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Acenaphthylene	0.58	ug/L		U	XV	0.58	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Anthracene	0.49	ug/L		U	XV	0.49	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Benz(a)anthracene	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Benzo(a)pyrene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Benzo(b)fluoranthene	0.62	ug/L		U	XV	0.62	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Benzo(ghi)perylene	0.59	ug/L		U	XV	0.59	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U	XV	0.54	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Benzoic acid	12	ug/L		U	XV	12	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U	XV	0.33	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Bis(2-ethylhexyl)phthalate	0.66	ug/L		U	XV	0.66	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Butyl benzyl phthalate	1.2	ug/L		U	XV	1.2	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Chrysene	0.63	ug/L		U	XV	0.63	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U	XV	0.6	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Dibenzofuran	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Diethyl phthalate	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Dimethyl phthalate	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Di-n-butyl phthalate	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Di-n-octylphthalate	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Fluoranthene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Fluorene	0.36	ug/L		U	XV	0.36	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Hexachlorobenzene	0.78	ug/L		U	XV	0.78	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Hexachlorobutadiene	3.9	ug/L		U	XV	3.9	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Hexachlorocyclopentadiene	1.8	ug/L		U	XV	1.8	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Hexachloroethane	2.5	ug/L		U	XV	2.5	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Indeno(1,2,3-cd)pyrene	0.76	ug/L		U	XV	0.76	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Isophorone	0.25	ug/L		U	XV	0.25	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Naphthalene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Nitrobenzene	0.95	ug/L		U	XV	0.95	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U	XV	0.52	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Pentachlorophenol	23	ug/L		U	XV	23	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Phenanthrene	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Phenol	2.3	ug/L		U	XV	2.3	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-05-03	SVOA	Pyrene	0.43	ug/L		U	XV	0.43	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	1,1,1-Trichloroethane	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-06-03	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	1,1,2-Trichloroethane	0.27	ug/L		U	XV	0.27	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	1,1-Dichloroethane	0.22	ug/L		U	XV	0.22	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	1,1-Dichloroethene	0.23	ug/L		U	XV	0.23	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	1,2-Dichloroethane	0.13	ug/L		U	XV	0.13	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	1,2-Dimethylbenzene	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	2-Butanone	2	ug/L		U	XV	2	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	2-Hexanone	1.7	ug/L		U	XV	1.7	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Acetone	12	ug/L			XV	1.9	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-08-03	VOA	Acrylonitrile	1.4	ug/L		U	XV	1.4	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Benzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Bromodichloromethane	0.93	ug/L		J	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Bromoform	0.29	ug/L		J	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Bromomethane	0.21	ug/L		U	XV	0.21	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Carbon disulfide	0.45	ug/L		U	XV	0.45	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Carbon tetrachloride	0.19	ug/L		U	XV	0.19	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Chlorobenzene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Chloroethane	0.41	ug/L		U	XV	0.41	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Chloroform	1.2	ug/L			XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Chloromethane	0.3	ug/L		U	XV	0.3	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Dibromochloromethane	0.8	ug/L		J	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Dichlorodifluoromethane	0.31	ug/L		U	XV	0.31	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Ethylbenzene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	M + P Xylene	0.34	ug/L		U	XV	0.34	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Methylene chloride	0.32	ug/L		U	XV	0.32	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-07-03	VOA	Styrene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Tetrachloroethene	0.2	ug/L		U	XV	0.2	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Toluene	0.17	ug/L		U	XV	0.17	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U	XV	0.15	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-06-03	VOA	Trichloroethene	0.16	ug/L		U	XV	0.16	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-07-03	VOA	Vinyl chloride	0.1	ug/L		U	XV	0.1	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-01-03	WETCHEM	Alkalinity	210	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-01-03	WETCHEM	Alkalinity as CO3	1.1	mg/L		U	XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-01-03	WETCHEM	Alkalinity as HCO3	210	mg/L			XV	1.1	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-02-03	WETCHEM	Ammonium Nitrogen	0.8	mg/L				0.1	WATER	WG	REG	BP	12/14/2011
WD-PZ14C	WDPZ14-01-04	ANION	Chloride	75	mg/L				1.3	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-01-04	ANION	Fluoride	0.3	mg/L		U		0.3	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-01-04	ANION	Nitrate	0.21	mg/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-01-04	ANION	Orthophosphate	0.94	mg/L		JU		0.94	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-01-04	ANION	Sulfate	4300	mg/L				23	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Aluminum	1.1	mg/L				0.018	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Arsenic	0.00033	mg/L		U		0.00033	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Arsenic	0.0014	mg/L		B		0.00033	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Barium	0.014	mg/L				0.00058	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Barium	0.02	mg/L				0.00058	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Cadmium	0.00014	mg/L		B		0.00004	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Cadmium	0.00014	mg/L		B		0.00004	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Calcium	390	mg/L				0.035	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Calcium	400	mg/L				0.035	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Chromium	0.0024	mg/L		B		0.00066	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Cobalt	0.052	mg/L				0.0012	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Cobalt	0.055	mg/L				0.0012	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Copper	0.0042	mg/L		B		0.0014	WATER	WG	REG	BP	1/16/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-04-04	METAL	Copper	0.0072	mg/L		B		0.0014	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Iron	0.19	mg/L				0.022	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Iron	2.2	mg/L				0.022	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Lead	0.0022	mg/L				0.00018	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Magnesium	790	mg/L				0.011	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Magnesium	790	mg/L				0.011	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Manganese	11	mg/L				0.00025	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Manganese	12	mg/L				0.00025	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Molybdenum	0.00074	mg/L		B		0.00014	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Molybdenum	0.0007	mg/L		B		0.00014	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Nickel	0.16	mg/L				0.0013	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Nickel	0.17	mg/L				0.0013	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Potassium	27	mg/L				0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Potassium	28	mg/L				0.24	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Silver	0.0021	mg/L		B		0.00093	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Silver	0.0022	mg/L		B		0.00093	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Sodium	270	mg/L				0.092	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Sodium	280	mg/L				0.092	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Thallium	0.000095	mg/L		B		0.000033	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Thallium	0.00011	mg/L		B		0.000033	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Uranium	0.00047	mg/L		B		0.00002	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Uranium	0.00052	mg/L		B		0.00002	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Vanadium	0.0022	mg/L		U		0.0022	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Vanadium	0.0022	mg/L		U		0.0022	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-03-04	METAL	Zinc	0.058	mg/L				0.0045	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-04-04	METAL	Zinc	0.063	mg/L				0.0045	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	PPCB	PCB-1221	0.26	ug/L		U		0.26	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	PPCB	PCB-1242	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-09-04	RADS	Alpha activity	-0.0737	pCi/L	6.12	U		31.7	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-09-04	RADS	Americium-241	0.0401	pCi/L	0.0141	U		0.0341	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-09-04	RADS	Beta activity	5.46	pCi/L	9.93	U		35.2	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-09-04	RADS	Neptunium-237	0.00463	pCi/L	0.00654	U		0.0354	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-09-04	RADS	Plutonium-238	-0.0065	pCi/L	-0.0092	U		0.0623	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-09-04	RADS	Plutonium-239/240	0.039	pCi/L	0.0172	U		0.0497	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-09-04	RADS	Technetium-99	2.91	pCi/L	1.71	U		5.62	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-09-04	RADS	Uranium-233/234	0.539	pCi/L	0.0528			0.0393	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-09-04	RADS	Uranium-235	0	pCi/L	0.00896	U		0.0606	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-09-04	RADS	Uranium-238	0.174	pCi/L	0.0302	J		0.0391	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	1,2,4-Trichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	1,2-Dichlorobenzene	0.29	ug/L		U		0.29	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	1,3-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	1,4-Dichlorobenzene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2,4,5-Trichlorophenol	0.57	ug/L		U		0.57	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2,4-Dichlorophenol	0.81	ug/L		U		0.81	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2,4-Dimethylphenol	0.74	ug/L		U		0.74	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	1/16/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-05-04	SVOA	2-Chloronaphthalene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2-Chlorophenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2-Methyl-4,6-dinitrophenol	5.1	ug/L		U		5.1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2-Methylnaphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	2-Nitrophenol	0.49	ug/L		U		0.49	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	3,3'-Dichlorobenzidine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	3-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	4-Bromophenyl phenyl ether	0.55	ug/L		U		0.55	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	4-Chloro-3-methylphenol	3.1	ug/L		U		3.1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	4-Methylphenol	0.32	ug/L		U		0.32	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	4-Nitrobenzenamine	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Acenaphthene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Acenaphthylene	0.62	ug/L		U		0.62	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Anthracene	0.53	ug/L		U		0.53	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Benz(a)anthracene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Benzo(a)pyrene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Benzo(b)fluoranthene	0.67	ug/L		U		0.67	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Benzo(ghi)perylene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Benzo(k)fluoranthene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Bis(2-chloroethoxy)methane	1.2	ug/L		U		1.2	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	bis(2-Chloroisopropyl)ether	0.35	ug/L		U		0.35	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		BJ		0.71	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Chrysene	0.68	ug/L		U		0.68	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Dibenz(a,h)anthracene	0.65	ug/L		U		0.65	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Dibenzofuran	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Diethyl phthalate	0.48	ug/L		U		0.48	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Dimethyl phthalate	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Di-n-octylphthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Fluoranthene	0.25	ug/L		U		0.25	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Fluorene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Hexachlorobenzene	0.84	ug/L		U		0.84	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Hexachlorobutadiene	4.2	ug/L		U		4.2	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Hexachlorocyclopentadiene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Hexachloroethane	2.7	ug/L		U		2.7	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Indeno(1,2,3-cd)pyrene	0.82	ug/L		U		0.82	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Isophorone	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Naphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	N-Nitroso-di-n-propylamine	0.44	ug/L		U		0.44	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	N-Nitrosodiphenylamine	0.56	ug/L		U		0.56	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Pentachlorophenol	25	ug/L		U		25	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Phenanthrene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Phenol	2.5	ug/L		U		2.5	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-05-04	SVOA	Pyrene	0.47	ug/L		U		0.47	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	1/16/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-06-04	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Acetone	61	ug/L				1.9	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-08-04	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Bromodichloromethane	0.26	ug/L		J		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Chloroform	0.34	ug/L		J		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Dibromochloromethane	0.19	ug/L		J		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Methylene chloride	0.4	ug/L		BJ		0.32	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-07-04	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-06-04	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-07-04	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-01-04	WETCHEM	Alkalinity	270	mg/L				1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-01-04	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-01-04	WETCHEM	Alkalinity as HCO3	270	mg/L				1.1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-02-04	WETCHEM	Ammonium Nitrogen	1.1	mg/L				0.1	WATER	WG	REG	BP	1/16/2012
WD-PZ14C	WDPZ14-01-05	ANION	Chloride	77	mg/L				1.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-01-05	ANION	Fluoride	0.3	mg/L		U		0.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-01-05	ANION	Nitrate	0.21	mg/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-01-05	ANION	Orthophosphate	0.94	mg/L		U		0.94	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-01-05	ANION	Sulfate	4400	mg/L				23	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Aluminum	0.65	mg/L				0.018	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Arsenic	0.00033	mg/L		U		0.00033	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Arsenic	0.0016	mg/L		B		0.00033	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Barium	0.012	mg/L				0.00058	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Barium	0.015	mg/L				0.00058	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Cadmium	0.00012	mg/L		B		0.00004	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Calcium	400	mg/L				0.035	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Calcium	400	mg/L				0.035	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Chromium	0.0013	mg/L		B		0.00066	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Cobalt	0.036	mg/L				0.0012	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Cobalt	0.034	mg/L				0.0012	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Copper	0.0024	mg/L		B		0.0014	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Copper	0.0035	mg/L		B		0.0014	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Iron	0.21	mg/L				0.022	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Iron	2.2	mg/L				0.022	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Lead	0.0018	mg/L				0.00018	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Magnesium	790	mg/L				0.011	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Magnesium	790	mg/L				0.011	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-03-05	METAL	Manganese	9.7	mg/L				0.00025	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Manganese	9.9	mg/L				0.00025	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Molybdenum	0.0012	mg/L		B		0.00014	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Molybdenum	0.001	mg/L		B		0.00014	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Nickel	0.12	mg/L				0.0013	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Nickel	0.11	mg/L				0.0013	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Potassium	27	mg/L				0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Potassium	26	mg/L				0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Silver	0.0011	mg/L		B		0.00093	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Silver	0.001	mg/L		B		0.00093	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Sodium	280	mg/L				0.092	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Sodium	280	mg/L				0.092	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Thallium	0.000071	mg/L		B		0.000033	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Thallium	0.000057	mg/L		B		0.000033	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Uranium	0.00059	mg/L		B		0.00002	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Uranium	0.00066	mg/L		B		0.00002	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Vanadium	0.0014	mg/L		B		0.0011	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-03-05	METAL	Zinc	0.039	mg/L				0.0045	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-04-05	METAL	Zinc	0.047	mg/L				0.0045	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	PPCB	PCB-1016	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	PPCB	PCB-1232	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	PPCB	PCB-1254	0.14	ug/L		U		0.14	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	PPCB	Polychlorinated biphenyl	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-09-05	RADS	Alpha activity	8.9	pCi/L	15.2	U		54.7	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-09-05	RADS	Americium-241	0.0283	pCi/L	0.0149	U		0.058	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-09-05	RADS	Beta activity	-2.21	pCi/L	16	U		48.2	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-09-05	RADS	Neptunium-237	0	pCi/L	0.00708	U		0.0479	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-09-05	RADS	Plutonium-238	0	pCi/L	0.00781	U		0.0529	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-09-05	RADS	Plutonium-239/240	-0.00552	pCi/L	-0.00956	U		0.0679	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-09-05	RADS	Technetium-99	2.05	pCi/L	1.69	U		5.6	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-09-05	RADS	Uranium-233/234	0.612	pCi/L	0.0573			0.0505	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-09-05	RADS	Uranium-235	0.013	pCi/L	0.0113	U		0.0498	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-09-05	RADS	Uranium-238	0.289	pCi/L	0.0393	J		0.0402	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	1,2,4-Trichlorobenzene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	1,4-Dichlorobenzene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2,4,5-Trichlorophenol	0.52	ug/L		U		0.52	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2,4-Dichlorophenol	0.74	ug/L		U		0.74	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2,4-Dimethylphenol	0.67	ug/L		U		0.67	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2,4-Dinitrotoluene	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2-Chlorophenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2-Methyl-4,6-dinitrophenol	4.6	ug/L		U		4.6	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2-Methylphenol	1.1	ug/L		U		1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	2-Nitrophenol	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-05-05	SVOA	3,3'-Dichlorobenzidine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	3-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	4-Bromophenyl phenyl ether	0.5	ug/L		U		0.5	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	4-Chlorophenyl phenyl ether	1.9	ug/L		U		1.9	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	4-Methylphenol	0.29	ug/L		U		0.29	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	4-Nitrobenzenamine	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	4-Nitrophenol	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Acenaphthene	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Acenaphthylene	0.57	ug/L		U		0.57	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Anthracene	0.49	ug/L		U		0.49	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Benz(a)anthracene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Benzo(a)pyrene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Benzo(b)fluoranthene	0.61	ug/L		U		0.61	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Benzo(ghi)perylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Benzo(k)fluoranthene	0.53	ug/L		U		0.53	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	bis(2-Chloroisopropyl)ether	0.32	ug/L		U		0.32	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Bis(2-ethylhexyl)phthalate	2.8	ug/L		BJ		0.65	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Chrysene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Dibenz(a,h)anthracene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Diethyl phthalate	0.44	ug/L		U		0.44	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Dimethyl phthalate	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Di-n-butyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Di-n-octylphthalate	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Fluoranthene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Fluorene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Hexachlorobenzene	0.76	ug/L		U		0.76	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Hexachlorobutadiene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Hexachloroethane	2.4	ug/L		U		2.4	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Indeno(1,2,3-cd)pyrene	0.75	ug/L		U		0.75	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Isophorone	0.24	ug/L		U		0.24	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Nitrobenzene	0.94	ug/L		U		0.94	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	N-Nitrosodiphenylamine	0.51	ug/L		U		0.51	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Pentachlorophenol	23	ug/L		U		23	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Phenol	2.3	ug/L		U		2.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-05-05	SVOA	Pyrene	0.43	ug/L		U		0.43	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Acetone	48	ug/L				1.9	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-08-05	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	2/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-06-05	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Chloroform	0.21	ug/L		J		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Methylene chloride	0.5	ug/L		BJ		0.32	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-07-05	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-06-05	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-07-05	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-01-05	WETCHEM	Alkalinity	300	mg/L				1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-01-05	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-01-05	WETCHEM	Alkalinity as HCO3	300	mg/L				1.1	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-02-05	WETCHEM	Ammonium Nitrogen	0.49	mg/L				0.1	WATER	WG	REG	BP	2/14/2012
WD-PZ14C	WDPZ14-01-06	ANION	Chloride	73	mg/L				0.51	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-01-06	ANION	Fluoride	0.12	mg/L		U		0.12	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-01-06	ANION	Nitrate	0.35	mg/L		B		0.084	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-01-06	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-01-06	ANION	Sulfate	3400	mg/L				23	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Aluminum	0.83	mg/L				0.018	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Arsenic	0.00033	mg/L		U		0.00033	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Arsenic	0.0024	mg/L		B		0.00033	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Barium	0.01	mg/L				0.00058	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Barium	0.015	mg/L				0.00058	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Cadmium	0.000049	mg/L		B		0.00004	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Cadmium	0.000069	mg/L		B		0.00004	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Calcium	380	mg/L				0.035	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Calcium	370	mg/L				0.035	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Chromium	0.00066	mg/L		B		0.00066	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Chromium	0.0015	mg/L		B		0.00066	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Cobalt	0.018	mg/L				0.0012	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Cobalt	0.018	mg/L				0.0012	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Copper	0.0021	mg/L		B		0.0014	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Iron	0.17	mg/L				0.022	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Iron	2.8	mg/L				0.022	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Lead	0.0017	mg/L				0.00018	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Magnesium	630	mg/L				0.011	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Magnesium	610	mg/L				0.011	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Manganese	4.4	mg/L				0.00025	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Manganese	4.4	mg/L				0.00025	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Mercury	0.000027	mg/L		NU		0.000027	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Molybdenum	0.0013	mg/L		B		0.00014	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Molybdenum	0.001	mg/L		B		0.00014	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Nickel	0.053	mg/L				0.0013	WATER	WG	REG	BP	3/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-04-06	METAL	Nickel	0.053	mg/L				0.0013	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Potassium	22	mg/L				0.24	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Potassium	21	mg/L				0.24	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Silver	0.0013	mg/L		B		0.00093	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Silver	0.0013	mg/L		B		0.00093	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Sodium	290	mg/L				0.092	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Sodium	280	mg/L				0.092	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Thallium	0.000054	mg/L		B		0.000033	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Thallium	0.000042	mg/L		B		0.000033	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Uranium	0.00059	mg/L		B		0.00002	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Uranium	0.00057	mg/L		B		0.00002	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-03-06	METAL	Zinc	0.018	mg/L		B		0.0045	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-04-06	METAL	Zinc	0.023	mg/L				0.0045	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	PPCB	PCB-1221	0.25	ug/L		U		0.25	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	PPCB	PCB-1248	0.11	ug/L		U		0.11	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	PPCB	PCB-1260	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	PPCB	Polychlorinated biphenyl	0.098	ug/L		U		0.098	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-09-06	RADS	Alpha activity	0.269	pCi/L	9.56	U	U	41.6	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-09-06	RADS	Americium-241	0.046	pCi/L	0.0161	U	UJ	0.0391	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-09-06	RADS	Beta activity	-21.4	pCi/L	11.3	U	UJ	39.9	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-09-06	RADS	Neptunium-237	0.00971	pCi/L	0.00971	U	U	0.0465	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-09-06	RADS	Plutonium-238	0	pCi/L	0.00849	U	U	0.0575	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-09-06	RADS	Plutonium-239/240	0.066	pCi/L	0.0208	U	UJ	0.0459	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-09-06	RADS	Technetium-99	-0.414	pCi/L	1.67	U	U	5.63	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-09-06	RADS	Uranium-233/234	0.62	pCi/L	0.0578		=	0.0409	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-09-06	RADS	Uranium-235	0.033	pCi/L	0.0162	U	U	0.0505	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-09-06	RADS	Uranium-238	0.213	pCi/L	0.0341	J	J	0.0407	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	1,2,4-Trichlorobenzene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	1,2-Dichlorobenzene	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	1,3-Dichlorobenzene	0.39	ug/L		U		0.39	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	1,4-Dichlorobenzene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2,4,5-Trichlorophenol	0.58	ug/L		U		0.58	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2,4,6-Trichlorophenol	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2,4-Dichlorophenol	0.83	ug/L		U		0.83	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2,4-Dimethylphenol	0.75	ug/L		U		0.75	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2,4-Dinitrophenol	13	ug/L		U		13	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2,4-Dinitrotoluene	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2,6-Dinitrotoluene	2.4	ug/L		U		2.4	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2-Chloronaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2-Chlorophenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2-Methyl-4,6-dinitrophenol	5.2	ug/L		U		5.2	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2-Methylnaphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2-Methylphenol	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2-Nitrobenzenamine	2.2	ug/L		U		2.2	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	2-Nitrophenol	0.5	ug/L		U		0.5	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	3,3'-Dichlorobenzidine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	3-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	4-Bromophenyl phenyl ether	0.55	ug/L		U		0.55	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	4-Chloro-3-methylphenol	3.1	ug/L		U		3.1	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	4-Chlorophenyl phenyl ether	2.1	ug/L		U		2.1	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	4-Methylphenol	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	4-Nitrobenzenamine	2.6	ug/L		U		2.6	WATER	WG	REG	BP	3/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-05-06	SVOA	4-Nitrophenol	1.6	ug/L		U		1.6	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Acenaphthene	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Acenaphthylene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Anthracene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Benz(a)anthracene	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Benzo(a)pyrene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Benzo(b)fluoranthene	0.68	ug/L		U		0.68	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Benzo(ghi)perylene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Benzo(k)fluoranthene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Benzoic acid	13	ug/L		U		13	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Bis(2-chloroethoxy)methane	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	bis(2-Chloroisopropyl)ether	0.36	ug/L		U		0.36	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Bis(2-ethylhexyl)phthalate	3.2	ug/L		BJ		0.72	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Butyl benzyl phthalate	1.3	ug/L		U		1.3	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Chrysene	0.7	ug/L		U		0.7	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Dibenz(a,h)anthracene	0.66	ug/L		U		0.66	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Dibenzofuran	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Diethyl phthalate	0.49	ug/L		U		0.49	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Dimethyl phthalate	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Di-n-butyl phthalate	1.5	ug/L		U		1.5	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Di-n-octylphthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Fluoranthene	0.26	ug/L		U		0.26	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Fluorene	0.4	ug/L		U		0.4	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Hexachlorobenzene	0.85	ug/L		U		0.85	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Hexachlorobutadiene	4.3	ug/L		U		4.3	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Hexachlorocyclopentadiene	13	ug/L		U		13	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Hexachloroethane	2.7	ug/L		U		2.7	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Indeno(1,2,3-cd)pyrene	0.84	ug/L		U		0.84	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Isophorone	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Naphthalene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Nitrobenzene	1	ug/L		U		1	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	N-Nitroso-di-n-propylamine	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	N-Nitrosodiphenylamine	0.57	ug/L		U		0.57	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Pentachlorophenol	26	ug/L		U		26	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Phenanthrene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Phenol	2.6	ug/L		U		2.6	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-05-06	SVOA	Pyrene	0.48	ug/L		U		0.48	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Acetone	3.2	ug/L		J		1.9	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-08-06	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Chloroform	0.3	ug/L		J		0.16	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/14/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-06-06	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-07-06	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-06-06	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-07-06	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-01-06	WETCHEM	Alkalinity	440	mg/L				1.1	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-01-06	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-01-06	WETCHEM	Alkalinity as HCO3	440	mg/L				1.1	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-02-06	WETCHEM	Ammonium Nitrogen	0.13	mg/L				0.1	WATER	WG	REG	BP	3/14/2012
WD-PZ14C	WDPZ14-01-07	ANION	Chloride	81	mg/L				1.3	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-01-07	ANION	Fluoride	0.3	mg/L		U		0.3	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-01-07	ANION	Nitrate	1.4	mg/L		B		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-01-07	ANION	Orthophosphate	0.94	mg/L		U		0.94	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-01-07	ANION	Sulfate	4300	mg/L				23	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Aluminum	1.5	mg/L				0.018	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Arsenic	0.00046	mg/L		B		0.00033	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Arsenic	0.0021	mg/L		B		0.00033	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Barium	0.015	mg/L				0.00058	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Barium	0.022	mg/L				0.00058	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Cadmium	0.00012	mg/L		B		0.0001	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Cadmium	0.00021	mg/L		B		0.0001	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Calcium	390	mg/L				0.035	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Calcium	400	mg/L				0.035	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Chromium	0.002	mg/L		B		0.00066	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Cobalt	0.037	mg/L				0.0012	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Cobalt	0.039	mg/L				0.0012	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Copper	0.0018	mg/L		B		0.0014	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Copper	0.0042	mg/L		B		0.0014	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Iron	0.091	mg/L		B		0.022	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Iron	3.3	mg/L				0.022	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Lead	0.0028	mg/L				0.00018	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Magnesium	800	mg/L				0.011	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Magnesium	800	mg/L				0.011	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Manganese	8.6	mg/L				0.00025	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Manganese	8.4	mg/L				0.00025	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Molybdenum	0.002	mg/L				0.00014	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Molybdenum	0.0014	mg/L		B		0.00014	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Nickel	0.11	mg/L				0.0013	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Nickel	0.12	mg/L				0.0013	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Potassium	26	mg/L				0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Potassium	26	mg/L				0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Selenium	0.0025	mg/L		B		0.0007	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Selenium	0.0008	mg/L		B		0.0007	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Silver	0.0015	mg/L		B		0.00093	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Silver	0.0014	mg/L		B		0.00093	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-03-07	METAL	Sodium	300	mg/L				0.092	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Sodium	300	mg/L				0.092	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Thallium	0.000055	mg/L		B		0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Thallium	0.000079	mg/L		B		0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Uranium	0.00073	mg/L		B		0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Uranium	0.00073	mg/L		B		0.00005	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Vanadium	0.0046	mg/L		B		0.0011	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-03-07	METAL	Zinc	0.042	mg/L				0.0045	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-04-07	METAL	Zinc	0.049	mg/L				0.0045	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	PPCB	PCB-1016	0.14	ug/L		U		0.14	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	PPCB	PCB-1221	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	PPCB	PCB-1232	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	PPCB	PCB-1242	0.12	ug/L		U		0.12	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	PPCB	PCB-1248	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	PPCB	PCB-1254	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	PPCB	PCB-1260	0.18	ug/L		U		0.18	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	PPCB	Polychlorinated biphenyl	0.095	ug/L		U		0.095	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-09-07	RADS	Alpha activity	25.5	pCi/L	15.3	U	U	38.7	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-09-07	RADS	Americium-241	0.0642	pCi/L	0.0171	J	U	0.0328	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-09-07	RADS	Beta activity	9.86	pCi/L	12.5	U	UJ	32.7	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-09-07	RADS	Neptunium-237	0.0046	pCi/L	0.0065	U	U	0.0352	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-09-07	RADS	Plutonium-238	0.00489	pCi/L	0.00692	U	U	0.0374	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-09-07	RADS	Plutonium-239/240	0.0391	pCi/L	0.0155	U	U	0.0469	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-09-07	RADS	Technetium-99	0.639	pCi/L	1.62	U	U	5.43	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-09-07	RADS	Uranium-233/234	0.63	pCi/L	0.0633		=	0.0482	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-09-07	RADS	Uranium-235	0.0155	pCi/L	0.0135	U	U	0.0594	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-09-07	RADS	Uranium-238	0.257	pCi/L	0.0406	J	J	0.048	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	1,2,4-Trichlorobenzene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	1,2-Dichlorobenzene	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	1,3-Dichlorobenzene	0.35	ug/L		U		0.35	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	1,4-Dichlorobenzene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2,4,5-Trichlorophenol	0.53	ug/L		U		0.53	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2,4,6-Trichlorophenol	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2,4-Dichlorophenol	0.75	ug/L		U		0.75	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2,4-Dimethylphenol	0.68	ug/L		U		0.68	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2,4-Dinitrophenol	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2,4-Dinitrotoluene	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2,6-Dinitrotoluene	2.2	ug/L		U		2.2	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2-Chloronaphthalene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2-Chlorophenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2-Methyl-4,6-dinitrophenol	4.7	ug/L		U		4.7	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2-Methylnaphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2-Methylphenol	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2-Nitrobenzenamine	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	2-Nitrophenol	0.46	ug/L		U		0.46	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	3,3'-Dichlorobenzidine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	3-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	4-Bromophenyl phenyl ether	0.51	ug/L		U		0.51	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	4-Chloro-3-methylphenol	2.8	ug/L		U		2.8	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	4-Chlorophenyl phenyl ether	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	4-Methylphenol	0.29	ug/L		U		0.29	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	4-Nitrobenzenamine	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	4-Nitrophenol	1.5	ug/L		U		1.5	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Acenaphthene	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Acenaphthylene	0.58	ug/L		U		0.58	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Anthracene	0.5	ug/L		U		0.5	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Benz(a)anthracene	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Benzo(a)pyrene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Benzo(b)fluoranthene	0.63	ug/L		U		0.63	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-05-07	SVOA	Benzo(ghi)perylene	0.59	ug/L		U		0.59	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Benzo(k)fluoranthene	0.54	ug/L		U		0.54	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Benzoic acid	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Bis(2-chloroethoxy)methane	1.1	ug/L		U		1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	bis(2-Chloroisopropyl)ether	0.33	ug/L		U		0.33	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Bis(2-ethylhexyl)phthalate	2.5	ug/L		BJ		0.66	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Butyl benzyl phthalate	1.2	ug/L		U		1.2	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Chrysene	0.64	ug/L		U		0.64	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Dibenz(a,h)anthracene	0.6	ug/L		U		0.6	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Dibenzofuran	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Diethyl phthalate	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Dimethyl phthalate	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Di-n-butyl phthalate	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Di-n-octylphthalate	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Fluoranthene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Fluorene	0.37	ug/L		U		0.37	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Hexachlorobenzene	0.78	ug/L		U		0.78	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Hexachlorobutadiene	3.9	ug/L		U		3.9	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Hexachlorocyclopentadiene	12	ug/L		U		12	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Hexachloroethane	2.5	ug/L		U		2.5	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Indeno(1,2,3-cd)pyrene	0.77	ug/L		U		0.77	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Isophorone	0.25	ug/L		U		0.25	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Naphthalene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Nitrobenzene	0.96	ug/L		U		0.96	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	N-Nitroso-di-n-propylamine	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	N-Nitrosodiphenylamine	0.52	ug/L		U		0.52	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Pentachlorophenol	24	ug/L		U		24	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Phenanthrene	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Phenol	2.4	ug/L		U		2.4	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-05-07	SVOA	Pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-08-07	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Methylene chloride	0.36	ug/L		BJ		0.32	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-07-07	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	4/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	WDPZ14-06-07	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-06-07	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-07-07	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-01-07	WETCHEM	Alkalinity	320	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-01-07	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-01-07	WETCHEM	Alkalinity as HCO3	320	mg/L				1.1	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	WDPZ14-02-07	WETCHEM	Ammonium Nitrogen	0.1	mg/L				0.1	WATER	WG	REG	BP	4/10/2012
WD-PZ14C	QW174	ANION	Chloride	80000	ug/L				1300	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW174	ANION	Fluoride	370	ug/L		B		300	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW174	ANION	Nitrate	1100	ug/L		B		210	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW174	ANION	Nitrite as Nitrogen	250	ug/L		U		250	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW174	ANION	Orthophosphate	940	ug/L		U		940	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW174	ANION	Sulfate	5500000	ug/L				46000	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0661	ng/L		J		2.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW181	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	HERB	2,4,5-T	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	HERB	2,4-D	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	HERB	2,4-DB	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	HERB	Dalapon	1.39	ug/L		U		1.39	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	HERB	Dicamba	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	HERB	Dichloroprop	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	HERB	Dinoseb	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	HERB	MCPA	12.2	ug/L		U		12.2	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	HERB	MCPP	11.1	ug/L		U		11.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	HERB	Silvex	0.0922	ug/L		U		0.0922	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	2,4'-DDD	0.00543	ug/L		U		0.00543	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	2,4'-DDD	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	2,4'-DDE	0.00652	ug/L		U		0.00652	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	2,4'-DDE	0.00667	ug/L		JU		0.00667	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	2,4'-DDT	0.00543	ug/L		U		0.00543	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	2,4'-DDT	0.00556	ug/L		JU		0.00556	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	4,4'-DDD	0.0109	ug/L		U		0.0109	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	4,4'-DDD	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	4,4'-DDE	0.0109	ug/L		U		0.0109	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	4,4'-DDE	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	4,4'-DDT	0.0109	ug/L		U		0.0109	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	4,4'-DDT	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Aldrin	0.00723	ug/L		U		0.00723	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Aldrin	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	alpha-BHC	0.00723	ug/L		U		0.00723	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	alpha-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	alpha-Chlordane	0.00723	ug/L		U		0.00723	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	alpha-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	beta-BHC	0.00723	ug/L		U		0.00723	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	QW178	PPCB	beta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Chlordane	0.0832	ug/L		U		0.0832	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Chlordane	0.085	ug/L		JU		0.085	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	delta-BHC	0.00799	ug/L		J		0.00723	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	delta-BHC	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Dieldrin	0.0109	ug/L		U		0.0109	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Dieldrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endosulfan I	0.00723	ug/L		U		0.00723	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endosulfan I	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endosulfan II	0.0109	ug/L		U		0.0109	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endosulfan II	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endosulfan sulfate	0.0109	ug/L		U		0.0109	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endosulfan sulfate	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endrin	0.0109	ug/L		U		0.0109	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endrin	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endrin aldehyde	0.00723	ug/L		U		0.00723	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endrin aldehyde	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endrin ketone	0.0109	ug/L		U		0.0109	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Endrin ketone	0.0111	ug/L		JU		0.0111	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	gamma-Chlordane	0.00723	ug/L		U		0.00723	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	gamma-Chlordane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Heptachlor	0.00723	ug/L		U		0.00723	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Heptachlor	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Heptachlor epoxide	0.00723	ug/L		U		0.00723	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Heptachlor epoxide	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Kepone	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Lindane	0.00723	ug/L		U		0.00723	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Lindane	0.00739	ug/L		JU		0.00739	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Methoxychlor	0.0543	ug/L		U		0.0543	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Methoxychlor	0.0556	ug/L		JU		0.0556	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	PCB-1016	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	PCB-1221	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	PCB-1232	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	PCB-1242	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	PCB-1248	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	PCB-1254	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	PCB-1260	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	PCB-1268	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Polychlorinated biphenyl	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Toxaphene	0.163	ug/L		U		0.163	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	PPCB	Toxaphene	0.167	ug/L		JU		0.167	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Americium-241	0	pCi/L	0.0273	U		0.0296	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Neptunium-237	0.0226	pCi/L	0.033			0.0226	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Plutonium-238	0.0188	pCi/L	0.0244	U		0.0359	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Plutonium-239/240	-1.87E-09	pCi/L	0.0208	U		0.0414	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Technetium-99	0	pCi/L	0.305	U		0.529	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Thorium-228	0.441	pCi/L	0.186			0.136	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Thorium-230	0.345	pCi/L	0.188			0.222	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Thorium-232	0.273	pCi/L	0.143			0.0707	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Uranium-233/234	0.306	pCi/L	0.0632			0.0417	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Uranium-235/236	0.0261	pCi/L	0.0219			0.0112	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW180	RADS	Uranium-238	0.223	pCi/L	0.0516			0.00906	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	1,2,4-Trichlorobenzene	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	1,2-Dichlorobenzene	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	1,3-Dichlorobenzene	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	1,4-Dichlorobenzene	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2,4,5-Trichlorophenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2,4,6-Trichlorophenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2,4-Dichlorophenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2,4-Dimethylphenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	QW178	SVOA	2,4-Dinitrophenol	5.43	ug/L		U		5.43	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2,4-Dinitrotoluene	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2,6-Dinitrotoluene	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2-Chloronaphthalene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2-Chlorophenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2-Methyl-4,6-dinitrophenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2-Methylnaphthalene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2-Methylphenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2-Nitrobenzenamine	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	2-Nitrophenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	3,3'-Dichlorobenzidine	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	3-Nitrobenzenamine	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	4-Aminobiphenyl	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	4-Bromophenyl phenyl ether	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	4-Chloro-3-methylphenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	4-Chlorobenzenamine	3.59	ug/L		U		3.59	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	4-Chlorophenyl phenyl ether	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	4-Nitrobenzenamine	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	4-Nitrophenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Acenaphthene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Acenaphthylene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Acetophenone	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Anthracene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Benz(a)anthracene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Benzenemethanol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Benzo(a)pyrene	0.478	ug/L		U		0.478	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Benzo(b)fluoranthene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Benzo(ghi)perylene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Benzo(k)fluoranthene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Benzoic acid	6.52	ug/L		U		6.52	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Bis(2-chloroethoxy)methane	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Bis(2-chloroethyl) ether	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	bis(2-Chloroisopropyl)ether	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Bis(2-ethylhexyl)phthalate	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Butyl benzyl phthalate	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Chrysene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Dibenz(a,h)anthracene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Dibenzofuran	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Diethyl phthalate	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Dimethyl phthalate	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Di-n-butyl phthalate	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Di-n-octylphthalate	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Diphenylamine	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Fluoranthene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Fluorene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Hexachlorobenzene	0.00679	ug/L		U		0.00679	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Hexachlorobenzene	0.00694	ug/L		JU		0.00694	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Hexachlorobutadiene	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Hexachlorocyclopentadiene	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Hexachloroethane	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Indeno(1,2,3-cd)pyrene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Isophorone	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	m+p Methylphenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Naphthalene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Nitrobenzene	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	N-Nitrosodimethylamine	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	N-Nitroso-di-n-propylamine	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	N-Nitrosomorpholine	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	O,O,O-Triethylphosphorothioate	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Pentachlorophenol	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	9/19/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	QW178	SVOA	Phenanthrene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Phenol	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Pyrene	0.326	ug/L		U		0.326	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	SVOA	Pyridine	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW178	VOA	1,4-Dioxane	3.26	ug/L		U		3.26	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW179	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW174	WETCHEM	Alkalinity	160	mg/L				1.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW174	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW174	WETCHEM	Alkalinity as HCO3	160	mg/L				1.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW175	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW174	WETCHEM	Chromium, hexavalent	0.0094	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW182	WETCHEM	Cyanide	0.0039	mg/L		B		0.002	WATER	WG	REG	BAI	9/19/2012
WD-PZ14C	QW176R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	QW176R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Barium	0.013	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Barium	0.014	mg/L				0.00029	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Calcium	410	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Calcium	420	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Chromium	0.0041	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Chromium	0.0057	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Cobalt	0.059	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Cobalt	0.057	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Iron	0.056	mg/L		B		0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Lithium	0.94	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Lithium	1	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Magnesium	890	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Magnesium	920	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Manganese	16	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Manganese	15	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Nickel	0.24	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Nickel	0.23	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Potassium	28	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Potassium	30	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Sodium	280	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Sodium	300	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Strontium	4.7	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Strontium	5.1	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Uranium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Uranium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW176R	METAL	Zinc	0.1	mg/L				0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW177R	METAL	Zinc	0.09	mg/L				0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW270	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW271	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ14C	QW469	ANION	Chloride	80000	ug/L				1300	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW469	ANION	Fluoride	530	ug/L		B		300	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	QW469	ANION	Nitrate	1200	ug/L		B		210	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW469	ANION	Nitrite as Nitrogen	250	ug/L		U		250	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW469	ANION	Orthophosphate	940	ug/L		U		940	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW469	ANION	Sulfate	4900000	ug/L				23000	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW476	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	2,4,5-T	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	2,4,5-T	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	2,4-D	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	2,4-D	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	2,4-DB	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	2,4-DB	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	Dalapon	1.56	ug/L		U		1.56	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	Dalapon	1.45	ug/L		JU		1.45	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	Dicamba	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	Dicamba	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	Dichloroprop	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	Dichloroprop	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	Dinoseb	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	Dinoseb	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	MCPA	13.8	ug/L		U		13.8	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	MCPA	12.8	ug/L		JU		12.8	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	MCPP	12.5	ug/L		U		12.5	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	MCPP	11.6	ug/L		JU		11.6	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	Silvex	0.104	ug/L		U		0.104	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	HERB	Silvex	0.0965	ug/L		JU		0.0965	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Aluminum	0.61	mg/L				0.018	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Aluminum	0.89	mg/L				0.018	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Arsenic	0.0011	mg/L		B		0.00033	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Arsenic	0.002	mg/L		B		0.0017	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Barium	0.015	mg/L				0.00029	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Barium	0.013	mg/L				0.0015	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Beryllium	0.00011	mg/L		B		0.00008	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Cadmium	0.00015	mg/L		B		0.0001	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Calcium	400	mg/L				0.035	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Calcium	380	mg/L				0.035	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Chromium	0.0013	mg/L		B		0.0005	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Chromium	0.0025	mg/L		B		0.0025	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Cobalt	0.045	mg/L				0.000054	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	QW472	METAL	Cobalt	0.046	mg/L				0.00027	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Copper	0.0027	mg/L				0.00056	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Copper	0.0047	mg/L		B		0.0028	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Iron	1.2	mg/L				0.022	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Iron	2.8	mg/L				0.022	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Lead	0.0014	mg/L				0.00018	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Lead	0.0019	mg/L				0.00018	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Lithium	0.88	mg/L				0.0026	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Lithium	0.84	mg/L				0.0026	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Magnesium	900	mg/L				0.011	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Magnesium	860	mg/L				0.011	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Manganese	13	mg/L				0.00031	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Manganese	13	mg/L				0.0016	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Nickel	0.2	mg/L				0.0003	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Nickel	0.21	mg/L				0.0015	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Potassium	28	mg/L				0.24	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Potassium	27	mg/L				0.24	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Sodium	300	mg/L				0.092	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Sodium	270	mg/L				0.092	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Strontium	5.8	mg/L				0.0003	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Strontium	5.5	mg/L				0.0003	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Thallium	0.00057	mg/L		B		0.00005	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Thallium	0.000094	mg/L		B		0.00005	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Titanium	0.016	mg/L				0.0006	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Titanium	0.021	mg/L				0.0006	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Uranium	0.00033	mg/L		B		0.00005	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Uranium	0.00026	mg/L		B		0.00005	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Vanadium	0.0022	mg/L		B		0.0005	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW471	METAL	Zinc	0.073	mg/L				0.002	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW472	METAL	Zinc	0.08	mg/L				0.01	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	2,4'-DDD	0.005	ug/L		U		0.005	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	2,4'-DDE	0.006	ug/L		U		0.006	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	2,4'-DDT	0.005	ug/L		U		0.005	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	4,4'-DDD	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	4,4'-DDE	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	4,4'-DDT	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Aldrin	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	alpha-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	alpha-Chlordane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	beta-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Chlordane	0.0765	ug/L		U		0.0765	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	delta-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Dieldrin	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Endosulfan I	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Endosulfan II	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Endosulfan sulfate	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Endrin	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Endrin aldehyde	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Endrin ketone	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	gamma-Chlordane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Heptachlor	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	QW473	PPCB	Heptachlor epoxide	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Lindane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Methoxychlor	0.05	ug/L		U		0.05	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	PPCB	Toxaphene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Americium-241	-0.0123	pCi/L	0.0161	U		0.0364	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Neptunium-237	-2.21E-09	pCi/L	0.0206	U		0.0409	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Plutonium-238	-0.00231	pCi/L	0.0136	U		0.0284	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Plutonium-239/240	0.00231	pCi/L	0.015	U		0.0284	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Technetium-99	-0.198	pCi/L	0.311	U		0.549	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Thorium-228	0.0231	pCi/L	0.0196	U		0.0249	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Thorium-230	-0.0131	pCi/L	0.0174	U		0.0405	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Thorium-232	0.00463	pCi/L	0.01	U		0.0113	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Uranium-233/234	0.161	pCi/L	0.044			0.0487	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Uranium-235/236	-0.00753	pCi/L	0.0191	U		0.0406	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW475	RADS	Uranium-238	0.0853	pCi/L	0.0292			0.0272	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Benzo(a)pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	QW473	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	bis(2-Chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Di-n-butyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Hexachlorobenzene	0.00625	ug/L		U		0.00625	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Isophorone	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	m+p Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Pentachlorophenol	0.0625	ug/L		U		0.0625	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Pentachlorophenol	0.0581	ug/L		JU		0.0581	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Phenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW473	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	QW474	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW474	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW469	WETCHEM	Alkalinity	210	mg/L				1.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW469	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW469	WETCHEM	Alkalinity as HCO3	210	mg/L				1.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW470	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW478	WETCHEM	Chromium, hexavalent	0.025	mg/L		J		0.004	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW479	WETCHEM	Chromium, hexavalent	0.017	mg/L		BJ		0.004	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	QW477	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	12/4/2012
WD-PZ14C	DC588	ANION	Chloride	89	mg/L				1.3	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC588	ANION	Fluoride	0.36	mg/L		B		0.3	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC588	ANION	Nitrate	1.2	mg/L		B		0.21	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC588	ANION	Nitrite as Nitrogen	0.25	mg/L		U		0.25	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC588	ANION	Orthophosphate	0.94	mg/L		U		0.94	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC588	ANION	Sulfate	5700	mg/L				46	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.02	ng/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00401	ng/L		U		0.00401	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00401	ng/L		U		0.00401	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0401	ng/L		U		0.0401	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC595	DI/FURA	Octachlorodibenzofuran	0.0401	ng/L		U		0.0401	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	HERB	2,4,5-T	0.0856	ug/L		U		0.0856	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	HERB	2,4-D	0.0856	ug/L		U		0.0856	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	HERB	2,4-DB	0.103	ug/L		U		0.103	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	HERB	Dalapon	1.29	ug/L		U		1.29	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	HERB	Dicamba	0.0856	ug/L		U		0.0856	WATER	WG	REG	BAI	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	DC594	HERB	Dichloroprop	0.0856	ug/L		U		0.0856	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	HERB	Dinoseb	0.0856	ug/L		U		0.0856	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	HERB	MCPA	11.3	ug/L		U		11.3	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	HERB	MCPP	10.3	ug/L		U		10.3	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	HERB	Silvex	0.0856	ug/L		U		0.0856	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Aluminum	0.24	mg/L				0.018	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Antimony	0.0004	mg/L		B		0.0004	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Arsenic	0.00033	mg/L		U		0.00033	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Arsenic	0.00046	mg/L		B		0.00033	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Barium	0.016	mg/L				0.00029	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Barium	0.016	mg/L				0.00029	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Calcium	410	mg/L				0.035	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Calcium	390	mg/L				0.035	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Cobalt	0.00026	mg/L		B		0.000054	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Cobalt	0.0045	mg/L				0.000054	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Copper	0.0012	mg/L		B		0.00056	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Iron	0.9	mg/L				0.022	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Lead	0.0008	mg/L		B		0.00018	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Lithium	0.68	mg/L				0.0026	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Lithium	0.68	mg/L				0.0026	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Magnesium	960	mg/L				0.011	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Magnesium	860	mg/L				0.011	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Manganese	0.13	mg/L				0.00031	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Manganese	0.92	mg/L				0.00031	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Nickel	0.024	mg/L				0.0003	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Nickel	0.025	mg/L				0.0003	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Potassium	26	mg/L				0.24	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Potassium	27	mg/L				0.24	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Sodium	320	mg/L				0.092	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Sodium	310	mg/L				0.092	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Strontium	6.9	mg/L				0.0003	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Strontium	6.4	mg/L				0.0003	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Thallium	0.00017	mg/L		B		0.00005	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Thallium	0.000082	mg/L		B		0.00005	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Titanium	0.0026	mg/L		B		0.0006	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Uranium	0.00055	mg/L		B		0.00005	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Uranium	0.00049	mg/L		B		0.00005	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	DC591	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC590	METAL	Zinc	0.015	mg/L				0.002	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC591	METAL	Zinc	0.015	mg/L				0.002	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	2,4'-DDD	0.005	ug/L		U		0.005	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	2,4'-DDE	0.006	ug/L		U		0.006	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	2,4'-DDT	0.005	ug/L		U		0.005	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	4,4'-DDD	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	4,4'-DDE	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	4,4'-DDT	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Aldrin	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	alpha-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	alpha-Chlordane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	beta-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Chlordane	0.0765	ug/L		U		0.0765	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	delta-BHC	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Dieldrin	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Endosulfan I	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Endosulfan II	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Endosulfan sulfate	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Endrin	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Endrin aldehyde	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Endrin ketone	0.01	ug/L		U		0.01	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	gamma-Chlordane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Heptachlor	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Heptachlor epoxide	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Lindane	0.00665	ug/L		U		0.00665	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Methoxychlor	0.05	ug/L		U		0.05	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	PCB-1016	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	PCB-1221	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	PCB-1232	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	PCB-1242	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	PCB-1248	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	PCB-1254	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	PCB-1260	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	PCB-1268	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Polychlorinated biphenyl	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	PPCB	Toxaphene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Americium-241	-0.005	pCi/L	0.017	U		0.0382	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Neptunium-237	0.00199	pCi/L	0.0232	U		0.0404	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Plutonium-238	-0.00347	pCi/L	0.018	U		0.0384	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Plutonium-239/240	2.31E-09	pCi/L	0.0215	U		0.0427	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Technetium-99	0.109	pCi/L	0.426	U		0.739	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Thorium-228	0.0898	pCi/L	0.0428			0.0462	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Thorium-230	0.023	pCi/L	0.0296	U		0.0467	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Thorium-232	0.0176	pCi/L	0.0238	U		0.0356	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Uranium-233/234	0.669	pCi/L	0.0963			0.0335	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Uranium-235/236	0.0346	pCi/L	0.0294			0.0331	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC598	RADS	Uranium-238	0.413	pCi/L	0.0758			0.0268	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	DC594	SVOA	2-Chloronaphthalene	0.432	ug/L		U		0.432	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Benzo(a)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Bis(2-chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Hexachlorobenzene	0.00625	ug/L		U		0.00625	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Isophorone	3.68	ug/L		U		3.68	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	m,p-cresol	3.89	ug/L		U		3.89	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Pentachlorophenol	0.0515	ug/L		U		0.0515	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	DC597	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC594	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC597	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC588	WETCHEM	Alkalinity	210	mg/L				1.1	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC588	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC588	WETCHEM	Alkalinity as HCO3	210	mg/L				1.1	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC589	WETCHEM	Ammonia	0.022	mg/L		U		0.022	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC589	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC592	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	6/19/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ14C	DC593	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC596	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	6/19/2013
WD-PZ14C	DC588	WETCHEM	Dissolved Solids	7700	mg/L		J		19	WATER	WG	REG	BAI	6/19/2013
WD-PZ15C	WDPZ15-01-01	ANION	Chloride	77000	ug/L				1300	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-01-01	ANION	Fluoride	300	ug/L		U		300	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-01-01	ANION	Nitrate	290	ug/L		B		210	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-01-01	ANION	Nitrite as Nitrogen	1300	ug/L		B		250	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-01-01	ANION	Orthophosphate	940	ug/L		U		940	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-01-01	ANION	Sulfate	5500000	ug/L				46000	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.185	ng/L		J		2.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-31-01	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	2,4,5-T	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	2,4,5-T	0.0976	ug/L		JU		0.0976	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	2,4-D	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	2,4-D	0.0976	ug/L		JU		0.0976	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	2,4-DB	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	2,4-DB	0.0976	ug/L		JU		0.0976	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	Dalapon	1.34	ug/L		U		1.34	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	Dalapon	1.47	ug/L		JU		1.47	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	Dicamba	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	Dicamba	0.0976	ug/L		JU		0.0976	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	Dichloroprop	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	Dichloroprop	0.0976	ug/L		JU		0.0976	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	Dinoseb	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	Dinoseb	0.0976	ug/L		JU		0.0976	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	MCPA	11.8	ug/L		U		11.8	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	MCPA	12.9	ug/L		JU		12.9	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	MCPP	10.8	ug/L		U		10.8	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	MCPP	11.8	ug/L		JU		11.8	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	Silvex	0.0892	ug/L		U		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	HERB	Silvex	0.0976	ug/L		JU		0.0976	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	2,4'-DDD	0.00208	ug/L		U		0.00208	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	2,4'-DDE	0.0025	ug/L		U		0.0025	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	2,4'-DDT	0.00208	ug/L		U		0.00208	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	4,4'-DDD	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	4,4'-DDE	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	4,4'-DDT	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Aldrin	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	alpha-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	alpha-Chlordane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	beta-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Chlordane	0.0319	ug/L		U		0.0319	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	delta-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Dieldrin	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Endosulfan I	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	WDPZ15-05-01	PPCB	Endosulfan II	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Endosulfan sulfate	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Endrin	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Endrin aldehyde	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Endrin ketone	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	gamma-Chlordane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Heptachlor	0.00546	ug/L		JP		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Heptachlor epoxide	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Kepone	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Lindane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Methoxychlor	0.0208	ug/L		U		0.0208	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	PCB-1016	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	PCB-1221	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	PCB-1232	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	PCB-1242	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	PCB-1248	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	PCB-1254	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	PCB-1260	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	PCB-1268	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Polychlorinated biphenyl	0.0347	ug/L		U		0.0347	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	PPCB	Toxaphene	0.0625	ug/L		U		0.0625	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Americium-241	0.0881	pCi/L	0.386	U		0.674	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Neptunium-237	0.0152	pCi/L	0.0263	U		0.0388	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Plutonium-238	-0.00588	pCi/L	0.02	U		0.045	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Plutonium-239/240	0.0117	pCi/L	0.023	U		0.0176	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Technetium-99	-0.123	pCi/L	0.358	U		0.638	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Thorium-228	0.904	pCi/L	0.322			0.362	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Thorium-230	0.322	pCi/L	0.192			0.233	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Thorium-232	0.405	pCi/L	0.204			0.227	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Uranium-233/234	19.3	pCi/L	0.467			0.0486	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Uranium-235/236	0.404	pCi/L	0.0757			0.0109	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-09-01	RADS	Uranium-238	8.38	pCi/L	0.308			0.0325	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	1,2,4-Trichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	1,2-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	1,3-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	1,4-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2,4,5-Trichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2,4,6-Trichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2,4-Dichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2,4-Dimethylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2,4-Dinitrophenol	5.38	ug/L		U		5.38	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2,4-Dinitrotoluene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2,6-Dinitrotoluene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2-Chloronaphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2-Chlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2-Methyl-4,6-dinitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2-Methylnaphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2-Methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	2-Nitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	3,3'-Dichlorobenzidine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	3-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	4-Aminobiphenyl	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	4-Bromophenyl phenyl ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	4-Chloro-3-methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	4-Chlorobenzenamine	3.55	ug/L		U		3.55	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	4-Chlorophenyl phenyl ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	4-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	4-Nitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Acenaphthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	WDPZ15-05-01	SVOA	Acenaphthylene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Acetophenone	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Benz(a)anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Benzenemethanol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Benzo(a)pyrene	0.473	ug/L		U		0.473	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Benzo(b)fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Benzo(ghi)perylene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Benzo(k)fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Benzoic acid	6.45	ug/L		U		6.45	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Bis(2-chloroethoxy)methane	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Bis(2-chloroethyl) ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	bis(2-Chloroisopropyl)ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Bis(2-ethylhexyl)phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Butyl benzyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Chrysene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Dibenz(a,h)anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Dibenzofuran	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Diethyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Dimethyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Di-n-butyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Di-n-octylphthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Diphenylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Fluorene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Hexachlorobenzene	0.0026	ug/L		U		0.0026	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Hexachlorobutadiene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Hexachlorocyclopentadiene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Hexachloroethane	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Indeno(1,2,3-cd)pyrene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Isophorone	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	m+p Methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Naphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Nitrobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	N-Nitrosodimethylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	N-Nitroso-di-n-propylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	N-Nitrosomorpholine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	O,O,O-Triethylphosphorothioate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Pentachlorophenol	0.0538	ug/L		U		0.0538	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Pentachlorophenol	0.0588	ug/L		JU		0.0588	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Phenanthrene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Phenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Pyrene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	SVOA	Pyridine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,1,1-Trichloroethane	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		JU		0.42	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,1,2-Trichloroethane	0.27	ug/L		JU		0.27	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,1-Dichloroethane	0.22	ug/L		JU		0.22	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,1-Dichloroethene	0.23	ug/L		JU		0.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,2,3-Trichloropropane	0.33	ug/L		JU		0.33	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		JU		0.47	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,2-Dichloroethane	0.13	ug/L		JU		0.13	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,2-Dichloroethene	0.24	ug/L		JU		0.24	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,2-Dichloropropane	0.18	ug/L		JU		0.18	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	1,2-Dimethylbenzene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-05-01	VOA	1,4-Dioxane	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	2-Butanone	2	ug/L		JU		2	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	2-Hexanone	1.7	ug/L		JU		1.7	WATER	WG	REG	BAI	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	WDPZ15-06-01	VOA	4-Methyl-2-pentanone	0.98	ug/L		JU		0.98	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Acetone	1.9	ug/L		JU		1.9	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Acetonitrile	9.6	ug/L		JU		9.6	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Acrylonitrile	1.4	ug/L		JU		1.4	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Benzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Bromodichloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Bromoform	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Bromomethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Carbon disulfide	0.45	ug/L		JU		0.45	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Carbon tetrachloride	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Chlorobenzene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Chloroethane	0.41	ug/L		JU		0.41	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Chloroform	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Chloromethane	0.3	ug/L		JU		0.3	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	cis-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	cis-1,3-Dichloropropene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Dibromochloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Dichlorodifluoromethane	0.31	ug/L		JU		0.31	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Ethyl cyanide	3.7	ug/L		JU		3.7	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Ethylbenzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Isobutanol	37	ug/L		JU		37	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	M + P Xylene	0.34	ug/L		JU		0.34	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Methylene chloride	0.32	ug/L		JU		0.32	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Styrene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Tetrachloroethene	0.2	ug/L		JU		0.2	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Toluene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Total Xylene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	trans-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Trichloroethene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Trichlorofluoromethane	0.29	ug/L		JU		0.29	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Vinyl acetate	0.94	ug/L		JU		0.94	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-06-01	VOA	Vinyl chloride	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-01-01	WETCHEM	Alkalinity	870	mg/L				1.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-01-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-01-01	WETCHEM	Alkalinity as HCO3	870	mg/L				1.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-02-01	WETCHEM	Ammonium Nitrogen	3.4	mg/L		J		0.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-01-01	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-32-01	WETCHEM	Cyanide	0.002	mg/L		B		0.002	WATER	WG	REG	BAI	9/18/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Aluminum	1.3	mg/L				0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Antimony	0.0032	mg/L		B		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Antimony	0.0034	mg/L		B		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Arsenic	0.004	mg/L		B		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Arsenic	0.0021	mg/L		B		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Barium	0.044	mg/L				0.00029	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Barium	0.034	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Calcium	420	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Calcium	410	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Chromium	0.0078	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Chromium	0.0041	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Cobalt	0.049	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Cobalt	0.045	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Copper	0.004	mg/L		B		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	WDPZ15-04-01R	METAL	Iron	2.7	mg/L				0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Lead	0.0021	mg/L		B		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Lithium	0.17	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Lithium	0.16	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Magnesium	950	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Magnesium	880	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Manganese	0.22	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Manganese	0.18	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Nickel	0.1	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Nickel	0.094	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Potassium	29	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Potassium	26	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Sodium	450	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Sodium	420	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Strontium	7.6	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Strontium	7	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Titanium	0.014	mg/L				0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Uranium	0.025	mg/L				0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Uranium	0.024	mg/L				0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Vanadium	0.0046	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-04-01R	METAL	Zinc	0.027	mg/L		B		0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-03-01R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-38-01R	WETCHEM	Chromium, hexavalent	0.017	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	WDPZ15-37-01R	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0691	ng/L		J		2.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW487	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	HERB	2,4,5-T	0.0988	ug/L		U		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	HERB	2,4-D	0.0988	ug/L		U		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	HERB	2,4-DB	0.0988	ug/L		U		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	HERB	Dalapon	1.49	ug/L		U		1.49	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	HERB	Dicamba	0.0988	ug/L		U		0.0988	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	QW484	HERB	Dichloroprop	0.0988	ug/L		U		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	HERB	Dinoseb	0.0988	ug/L		U		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	HERB	MCPA	13.1	ug/L		U		13.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	HERB	MCPP	11.9	ug/L		U		11.9	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	HERB	Silvex	0.0988	ug/L		U		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Kepone	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Americium-241	-0.00316	pCi/L	0.0139	U		0.0303	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Neptunium-237	-0.00887	pCi/L	0.0184	U		0.0393	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Plutonium-238	0.0047	pCi/L	0.00921	U		0.00705	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Plutonium-239/240	-0.0047	pCi/L	0.0113	U		0.026	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Technetium-99	0.055	pCi/L	0.345	U		0.593	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Thorium-228	0.0132	pCi/L	0.0147	U		0.0225	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Thorium-230	0.0252	pCi/L	0.0203	U		0.0305	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Thorium-232	-0.00214	pCi/L	0.00974	U		0.0207	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Uranium-233/234	30.6	pCi/L	0.811			0.0628	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Uranium-235/236	0.721	pCi/L	0.14			0.0405	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW486	RADS	Uranium-238	12.2	pCi/L	0.512			0.0167	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	1,2,4-Trichlorobenzene	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	1,2-Dichlorobenzene	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	1,3-Dichlorobenzene	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	1,4-Dichlorobenzene	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2,4,5-Trichlorophenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2,4,6-Trichlorophenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2,4-Dichlorophenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2,4-Dimethylphenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2,4-Dinitrophenol	5.75	ug/L		U		5.75	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	QW484	SVOA	2,4-Dinitrotoluene	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2,6-Dinitrotoluene	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2-Chloronaphthalene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2-Chlorophenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2-Methyl-4,6-dinitrophenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2-Methylnaphthalene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2-Methylphenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2-Nitrobenzenamine	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	2-Nitrophenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	3,3'-Dichlorobenzidine	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	3-Nitrobenzenamine	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	4-Aminobiphenyl	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	4-Bromophenyl phenyl ether	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	4-Chloro-3-methylphenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	4-Chlorobenzenamine	3.79	ug/L		U		3.79	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	4-Chlorophenyl phenyl ether	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	4-Nitrobenzenamine	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	4-Nitrophenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Acenaphthene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Acenaphthylene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Acetophenone	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Anthracene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Benz(a)anthracene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Benzenemethanol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Benzo(a)pyrene	0.506	ug/L		U		0.506	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Benzo(b)fluoranthene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Benzo(ghi)perylene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Benzo(k)fluoranthene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Benzoic acid	6.9	ug/L		U		6.9	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Bis(2-chloroethoxy)methane	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Bis(2-chloroethyl) ether	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	bis(2-Chloroisopropyl)ether	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Bis(2-ethylhexyl)phthalate	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Butyl benzyl phthalate	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Chrysene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Dibenz(a,h)anthracene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Dibenzofuran	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Diethyl phthalate	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Dimethyl phthalate	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Di-n-butyl phthalate	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Di-n-octylphthalate	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Diphenylamine	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Fluoranthene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Fluorene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Hexachlorobutadiene	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Hexachlorocyclopentadiene	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Hexachloroethane	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Indeno(1,2,3-cd)pyrene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Isophorone	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	m+p Methylphenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Naphthalene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Nitrobenzene	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	N-Nitrosodimethylamine	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	N-Nitroso-di-n-propylamine	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	N-Nitrosomorpholine	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	O,O,O-Triethylphosphorothioate	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Pentachlorophenol	0.0595	ug/L		U		0.0595	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Phenanthrene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Phenol	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	QW484	SVOA	Pyrene	0.345	ug/L		U		0.345	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	SVOA	Pyridine	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW484	VOA	1,4-Dioxane	3.45	ug/L		U		3.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Acetone	4.4	ug/L		J		1.9	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW485	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW481	WETCHEM	Ammonium Nitrogen	0.53	mg/L				0.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW488	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	12/6/2012
WD-PZ15C	QW480R	ANION	Chloride	86000	ug/L				1300	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW480R	ANION	Fluoride	370	ug/L		B		300	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW480R	ANION	Nitrate	4800	ug/L				210	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW480R	ANION	Nitrite as Nitrogen	3600	ug/L				250	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW480R	ANION	Orthophosphate	940	ug/L		U		940	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW480R	ANION	Sulfate	5900000	ug/L				46000	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Aluminum	1.6	mg/L				0.018	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Aluminum	4.2	mg/L				0.018	WATER	WG	REG	BAI	12/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	QW482R	METAL	Antimony	0.0036	mg/L				0.0004	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Antimony	0.0034	mg/L		B		0.002	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Arsenic	0.0043	mg/L		B		0.00033	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Arsenic	0.0068	mg/L		B		0.0017	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Barium	0.034	mg/L				0.00029	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Barium	0.038	mg/L				0.0015	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Beryllium	0.000099	mg/L		B		0.00008	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Cadmium	0.00026	mg/L		B		0.0001	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Calcium	540	mg/L				0.035	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Calcium	450	mg/L				0.035	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Chromium	0.0022	mg/L				0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Chromium	0.007	mg/L		B		0.0025	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Cobalt	0.053	mg/L				0.000054	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Cobalt	0.053	mg/L				0.00027	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Copper	0.0032	mg/L				0.00056	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Copper	0.0065	mg/L		B		0.0028	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Iron	1.9	mg/L				0.022	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Iron	6.1	mg/L				0.022	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Lead	0.0013	mg/L				0.00018	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Lead	0.0035	mg/L		B		0.0009	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Lithium	0.2	mg/L				0.0026	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Lithium	0.2	mg/L				0.0026	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Magnesium	1100	mg/L				0.011	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Magnesium	970	mg/L				0.011	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Manganese	0.24	mg/L				0.00031	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Manganese	0.28	mg/L				0.0016	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Nickel	0.12	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Nickel	0.13	mg/L				0.0015	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Potassium	29	mg/L				0.24	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Potassium	30	mg/L				0.24	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Selenium	0.0041	mg/L		B		0.0007	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Selenium	0.0046	mg/L		B		0.0035	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Sodium	540	mg/L				0.092	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Sodium	550	mg/L				0.092	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Strontium	10	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Strontium	9.7	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Thallium	0.000057	mg/L		B		0.00005	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Titanium	0.01	mg/L				0.0006	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Titanium	0.03	mg/L				0.0006	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Uranium	0.032	mg/L				0.00005	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Uranium	0.032	mg/L				0.00025	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Vanadium	0.0041	mg/L		B		0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Vanadium	0.0094	mg/L		B		0.0025	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW482R	METAL	Zinc	0.01	mg/L				0.002	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW483R	METAL	Zinc	0.022	mg/L		B		0.01	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW480R	WETCHEM	Alkalinity	980	mg/L				1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW480R	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW480R	WETCHEM	Alkalinity as HCO3	980	mg/L				1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	QW489R	WETCHEM	Chromium, hexavalent	0.011	mg/L		BJ		0.004	WATER	WG	REG	BAI	12/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	QW490R	WETCHEM	Chromium, hexavalent	0.017	mg/L		BJ		0.004	WATER	WG	REG	BAI	12/10/2012
WD-PZ15C	DC606	HERB	2,4,5-T	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	HERB	2,4-D	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	HERB	2,4-DB	0.106	ug/L		U		0.106	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	HERB	Dalapon	1.33	ug/L		U		1.33	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	HERB	Dicamba	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	HERB	Dichloroprop	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	HERB	Dinoseb	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	HERB	MCPA	11.7	ug/L		U		11.7	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	HERB	MCPP	10.6	ug/L		U		10.6	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	HERB	Silvex	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	2,4'-DDD	0.00521	ug/L		U		0.00521	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	2,4'-DDE	0.00625	ug/L		U		0.00625	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	2,4'-DDT	0.00521	ug/L		U		0.00521	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	4,4'-DDD	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	4,4'-DDE	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	4,4'-DDT	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Aldrin	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	alpha-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	alpha-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	beta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Chlordane	0.0797	ug/L		U		0.0797	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	delta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Dieldrin	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Endosulfan I	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Endosulfan II	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Endosulfan sulfate	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Endrin	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Endrin aldehyde	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Endrin ketone	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	gamma-Chlordane	0.0148	ug/L		J		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Heptachlor	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Heptachlor epoxide	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Kepone	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Lindane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Methoxychlor	0.0521	ug/L		U		0.0521	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	PCB-1016	0.0406	ug/L		U		0.0406	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	PCB-1221	0.0406	ug/L		U		0.0406	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	PCB-1232	0.0406	ug/L		U		0.0406	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	PCB-1242	0.0406	ug/L		U		0.0406	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	PCB-1248	0.0406	ug/L		U		0.0406	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	PCB-1254	0.0406	ug/L		U		0.0406	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	PCB-1260	0.0406	ug/L		U		0.0406	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	PCB-1268	0.0406	ug/L		U		0.0406	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Polychlorinated biphenyl	0.0406	ug/L		U		0.0406	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	PPCB	Toxaphene	0.156	ug/L		U		0.156	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	1,2,4-Trichlorobenzene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	1,2-Dichlorobenzene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	1,3-Dichlorobenzene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	1,4-Dichlorobenzene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2,4,5-Trichlorophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2,4,6-Trichlorophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2,4-Dichlorophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2,4-Dimethylphenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2,4-Dinitrophenol	6.33	ug/L		U		6.33	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2,4-Dinitrotoluene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2,6-Dinitrotoluene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2-Chloronaphthalene	0.519	ug/L		U		0.519	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2-Chlorophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2-Methyl-4,6-dinitrophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	DC606	SVOA	2-Methylnaphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2-Methylphenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2-Nitrobenzenamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	2-Nitrophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	3,3'-Dichlorobenzidine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	3-Nitrobenzenamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	4-Aminobiphenyl	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	4-Bromophenyl phenyl ether	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	4-Chloro-3-methylphenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	4-Chlorobenzenamine	4.18	ug/L		U		4.18	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	4-Chlorophenyl phenyl ether	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	4-Nitrobenzenamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	4-Nitrophenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Acenaphthene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Acenaphthylene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Acetophenone	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Anthracene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Benz(a)anthracene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Benzenemethanol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Benzo(a)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Benzo(b)fluoranthene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Benzo(ghi)perylene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Benzo(k)fluoranthene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Benzoic acid	7.59	ug/L		U		7.59	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Bis(2-chloroethoxy)methane	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Bis(2-chloroethyl) ether	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Bis(2-chloroisopropyl)ether	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Bis(2-ethylhexyl)phthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Butyl benzyl phthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Chrysene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Dibenz(a,h)anthracene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Dibenzofuran	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Diethyl phthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Dimethyl phthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Di-n-butyl phthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Di-n-octylphthalate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Diphenylamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Fluoranthene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Fluorene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Hexachlorobenzene	0.00651	ug/L		U		0.00651	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Hexachlorobutadiene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Hexachlorocyclopentadiene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Hexachloroethane	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Indeno(1,2,3-cd)pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Isophorone	4.43	ug/L		U		4.43	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	m,p-cresol	4.68	ug/L		U		4.68	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Naphthalene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Nitrobenzene	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	N-Nitrosodimethylamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	N-Nitroso-di-n-propylamine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	N-Nitrosomorpholine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	O,O,O-Triethylphosphorothioate	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Pentachlorophenol	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Phenanthrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Phenol	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Pyrene	0.38	ug/L		U		0.38	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	SVOA	Pyridine	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ15C	DC609	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC606	VOA	1,4-Dioxane	3.8	ug/L		U		3.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Acetone	3.3	ug/L		BJ		1.9	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Bromodichloromethane	0.22	ug/L		J		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Chloroform	0.63	ug/L		J		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Dibromochloromethane	0.2	ug/L		J		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/24/2013
WD-PZ15C	DC609	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ16C	WDPZ16-01-01	ANION	Chloride	26000	ug/L				250	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-01-01	ANION	Fluoride	150	ug/L		B		60	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-01-01	ANION	Nitrate	890	ug/L				42	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-01-01	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-01-01	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-01-01	ANION	Sulfate	970000	ug/L				12000	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0592	ng/L		J		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0904	ng/L		J		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0939	ng/L		J		1.25	WATER	WG	REG	BAI	9/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.408	ng/L		J		2.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-31-01	DI/FURA	Octachlorodibenzofuran	0.349	ng/L		J		2.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	HERB	2,4,5-T	0.102	ug/L		U		0.102	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	HERB	2,4-D	0.102	ug/L		U		0.102	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	HERB	2,4-DB	0.102	ug/L		U		0.102	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	HERB	Dalapon	1.54	ug/L		U		1.54	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	HERB	Dicamba	0.102	ug/L		U		0.102	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	HERB	Dichloroprop	0.102	ug/L		U		0.102	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	HERB	Dinoseb	0.102	ug/L		U		0.102	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	HERB	MCPA	13.6	ug/L		U		13.6	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	HERB	MCPP	12.3	ug/L		U		12.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	HERB	Silvex	0.102	ug/L		U		0.102	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	2,4'-DDD	0.002	ug/L		U		0.002	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	2,4'-DDE	0.0024	ug/L		U		0.0024	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	2,4'-DDT	0.002	ug/L		U		0.002	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	4,4'-DDD	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	4,4'-DDE	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	4,4'-DDT	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Aldrin	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	alpha-BHC	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	alpha-Chlordane	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	beta-BHC	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Chlordane	0.0306	ug/L		U		0.0306	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	delta-BHC	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Dieldrin	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Endosulfan I	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Endosulfan II	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Endosulfan sulfate	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Endrin	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Endrin aldehyde	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Endrin ketone	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	gamma-Chlordane	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Heptachlor	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Heptachlor epoxide	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Lindane	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Methoxychlor	0.02	ug/L		U		0.02	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	PCB-1016	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	PCB-1221	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	PCB-1232	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	PCB-1242	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	PCB-1248	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	PCB-1254	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	PCB-1260	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	PCB-1268	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Polychlorinated biphenyl	0.0333	ug/L		U		0.0333	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	PPCB	Toxaphene	0.06	ug/L		U		0.06	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-09-01	RADS	Americium-241	1.82E-09	pCi/L	0.0262	U		0.0522	WATER	WG	REG	BAI	9/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	WDPZ16-09-01	RADS	Neptunium-237	-0.00348	pCi/L	0.0152	U		0.0333	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-09-01	RADS	Plutonium-238	-0.00645	pCi/L	0.014	U		0.0309	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-09-01	RADS	Plutonium-239/240	0.00215	pCi/L	0.0126	U		0.0237	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-09-01	RADS	Technetium-99	-0.0146	pCi/L	0.331	U		0.581	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-09-01	RADS	Thorium-228	0.622	pCi/L	0.106			0.0644	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-09-01	RADS	Thorium-230	0.169	pCi/L	0.0589			0.0592	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-09-01	RADS	Thorium-232	0.196	pCi/L	0.0567			0.0307	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-09-01	RADS	Uranium-233/234	3.32	pCi/L	0.253			0.06	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-09-01	RADS	Uranium-235/236	0.055	pCi/L	0.0464	U		0.0586	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-09-01	RADS	Uranium-238	1.2	pCi/L	0.151			0.0148	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Benzo(a)pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	bis(2-Chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Di-n-butyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	WDPZ16-05-01	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Hexachlorobenzene	0.0025	ug/L		U		0.0025	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Isophorone	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	m+p Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Pentachlorophenol	0.0617	ug/L		U		0.0617	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Phenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,1,1-Trichloroethane	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		JU		0.42	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,1,2-Trichloroethane	0.27	ug/L		JU		0.27	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,1-Dichloroethane	0.22	ug/L		JU		0.22	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,1-Dichloroethene	0.23	ug/L		JU		0.23	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,2,3-Trichloropropane	0.33	ug/L		JU		0.33	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		JU		0.47	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,2-Dichloroethane	0.13	ug/L		JU		0.13	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,2-Dichloroethene	0.24	ug/L		JU		0.24	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,2-Dichloropropane	0.18	ug/L		JU		0.18	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	1,2-Dimethylbenzene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-05-01	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	2-Butanone	2	ug/L		JU		2	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	2-Hexanone	1.7	ug/L		JU		1.7	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	4-Methyl-2-pentanone	0.98	ug/L		JU		0.98	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Acetone	12	ug/L		J		1.9	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Acetonitrile	9.6	ug/L		JU		9.6	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Acrylonitrile	1.4	ug/L		JU		1.4	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Benzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Bromodichloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Bromoform	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Bromomethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Carbon disulfide	0.45	ug/L		JU		0.45	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Carbon tetrachloride	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Chlorobenzene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Chloroethane	0.41	ug/L		JU		0.41	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Chloroform	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Chloromethane	0.3	ug/L		JU		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	cis-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	cis-1,3-Dichloropropene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Dibromochloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Dichlorodifluoromethane	0.31	ug/L		JU		0.31	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Ethyl cyanide	3.7	ug/L		JU		3.7	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Ethylbenzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Isobutanol	37	ug/L		JU		37	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	M + P Xylene	0.34	ug/L		JU		0.34	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Methylene chloride	0.32	ug/L		JU		0.32	WATER	WG	REG	BAI	9/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	WDPZ16-06-01	VOA	Styrene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Tetrachloroethene	0.2	ug/L		JU		0.2	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Toluene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Total Xylene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	trans-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Trichloroethene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Trichlorofluoromethane	0.29	ug/L		JU		0.29	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Vinyl acetate	0.94	ug/L		JU		0.94	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-06-01	VOA	Vinyl chloride	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-01-01	WETCHEM	Alkalinity	500	mg/L				1.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-01-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-01-01	WETCHEM	Alkalinity as HCO3	500	mg/L				1.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-02-01	WETCHEM	Ammonium Nitrogen	1.7	mg/L		J		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-01-01	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-32-01	WETCHEM	Cyanide	0.0022	mg/L		B		0.002	WATER	WG	REG	BAI	9/17/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Aluminum	0.046	mg/L		B		0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Barium	0.0094	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Barium	0.01	mg/L				0.00029	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Calcium	100	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Calcium	110	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Chromium	0.0038	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Chromium	0.0055	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Cobalt	0.006	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Cobalt	0.0048	mg/L		B		0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Iron	0.095	mg/L		B		0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Lithium	0.13	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Lithium	0.13	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Magnesium	260	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Magnesium	280	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Manganese	0.09	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Manganese	0.11	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Nickel	0.027	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Nickel	0.022	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Sodium	96	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Sodium	100	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Strontium	1.5	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	WDPZ16-04-01R	METAL	Strontium	1.6	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Titanium	0.0011	mg/L		B		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Uranium	0.0016	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Uranium	0.0013	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-03-01R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-04-01R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-37-01R	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	WDPZ16-38-01R	WETCHEM	Chromium, hexavalent	0.006	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ16C	QW491	ANION	Chloride	29000	ug/L				250	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW491	ANION	Fluoride	240	ug/L		B		60	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW491	ANION	Nitrate	1300	ug/L				42	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW491	ANION	Nitrite as Nitrogen	49	ug/L		U		49	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW491	ANION	Orthophosphate	190	ug/L		U		190	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW491	ANION	Sulfate	870000	ug/L				12000	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW498	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	2,4,5-T	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	2,4,5-T	0.115	ug/L		JU		0.115	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	2,4-D	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	2,4-D	0.115	ug/L		JU		0.115	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	2,4-DB	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	2,4-DB	0.115	ug/L		JU		0.115	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	Dalapon	1.52	ug/L		U		1.52	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	Dalapon	1.74	ug/L		JU		1.74	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	Dicamba	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	Dicamba	0.115	ug/L		JU		0.115	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	Dichloroprop	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	Dichloroprop	0.115	ug/L		JU		0.115	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	Dinoseb	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	Dinoseb	0.115	ug/L		JU		0.115	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	MCPA	13.4	ug/L		U		13.4	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	MCPA	15.3	ug/L		JU		15.3	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	MCPP	12.2	ug/L		U		12.2	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	MCPP	13.9	ug/L		JU		13.9	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	Silvex	0.101	ug/L		U		0.101	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	HERB	Silvex	0.115	ug/L		JU		0.115	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Aluminum	2	mg/L				0.018	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Aluminum	5.4	mg/L				0.018	WATER	WG	REG	BAI	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	QW493	METAL	Antimony	0.0012	mg/L		B		0.0004	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Antimony	0.0012	mg/L		B		0.0004	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Arsenic	0.0034	mg/L		B		0.00033	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Arsenic	0.0085	mg/L				0.00033	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Barium	0.021	mg/L				0.00029	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Barium	0.039	mg/L				0.00029	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Beryllium	0.00011	mg/L		B		0.00008	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Beryllium	0.00035	mg/L		B		0.00008	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Calcium	84	mg/L				0.035	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Calcium	89	mg/L				0.035	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Chromium	0.0031	mg/L				0.0005	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Chromium	0.0082	mg/L				0.0005	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Cobalt	0.013	mg/L				0.000054	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Cobalt	0.023	mg/L				0.000054	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Copper	0.0029	mg/L				0.00056	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Copper	0.01	mg/L				0.00056	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Iron	3.4	mg/L				0.022	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Iron	9.8	mg/L				0.022	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Lead	0.0019	mg/L				0.00018	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Lead	0.0063	mg/L				0.00018	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Lithium	0.14	mg/L				0.0026	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Lithium	0.14	mg/L				0.0026	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Magnesium	250	mg/L				0.011	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Magnesium	260	mg/L				0.011	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Manganese	0.11	mg/L				0.00031	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Manganese	0.23	mg/L				0.00031	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Nickel	0.027	mg/L				0.0003	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Nickel	0.033	mg/L				0.0003	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Potassium	12	mg/L				0.24	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Potassium	13	mg/L				0.24	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Selenium	0.0026	mg/L		B		0.0007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Selenium	0.0023	mg/L		B		0.0007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Sodium	87	mg/L				0.092	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Sodium	98	mg/L				0.092	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Strontium	1.4	mg/L				0.0003	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Strontium	1.4	mg/L				0.0003	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Thallium	0.000062	mg/L		B		0.00005	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Thallium	0.00092	mg/L		B		0.00005	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Titanium	0.051	mg/L				0.0006	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Titanium	0.11	mg/L				0.0006	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Uranium	0.0014	mg/L				0.00005	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Uranium	0.0015	mg/L				0.00005	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Vanadium	0.0069	mg/L				0.0005	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Vanadium	0.015	mg/L				0.0005	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW493	METAL	Zinc	0.012	mg/L				0.002	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW494	METAL	Zinc	0.036	mg/L				0.002	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	2,4'-DDD	0.00526	ug/L		U		0.00526	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	2,4'-DDE	0.00632	ug/L		U		0.00632	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	2,4'-DDT	0.00526	ug/L		U		0.00526	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	4,4'-DDD	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	QW495	PPCB	4,4'-DDE	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	4,4'-DDT	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Aldrin	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	alpha-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	alpha-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	beta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Chlordane	0.0805	ug/L		U		0.0805	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	delta-BHC	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Dieldrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Endosulfan I	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Endosulfan II	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Endosulfan sulfate	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Endrin	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Endrin aldehyde	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Endrin ketone	0.0105	ug/L		U		0.0105	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	gamma-Chlordane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Heptachlor	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Heptachlor epoxide	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Lindane	0.007	ug/L		U		0.007	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Methoxychlor	0.0526	ug/L		U		0.0526	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	PPCB	Toxaphene	0.158	ug/L		U		0.158	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Americium-241	0	pCi/L	0.0212	U		0.0419	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Neptunium-237	0.00485	pCi/L	0.015	U		0.0268	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Plutonium-238	-0.00456	pCi/L	0.0109	U		0.0252	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Plutonium-239/240	0.00456	pCi/L	0.00894	U		0.00684	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Technetium-99	-0.167	pCi/L	0.273	U		0.48	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Thorium-228	0.00192	pCi/L	0.0169	U		0.032	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Thorium-230	0.00963	pCi/L	0.0185	U		0.0319	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Thorium-232	0.00568	pCi/L	0.00901	U		0.00946	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Uranium-233/234	1.06	pCi/L	0.0878			0.0319	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Uranium-235/236	0.0203	pCi/L	0.0183	U		0.025	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW497	RADS	Uranium-238	0.424	pCi/L	0.0553			0.0175	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	QW495	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Hexachlorobenzene	0.00658	ug/L		U		0.00658	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Pentachlorophenol	0.061	ug/L		U		0.061	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Pentachlorophenol	0.0694	ug/L		JU		0.0694	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	QW496	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW495	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW496	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW491	WETCHEM	Alkalinity	480	mg/L				1.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW491	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW491	WETCHEM	Alkalinity as HCO3	480	mg/L				1.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW492	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW500	WETCHEM	Chromium, hexavalent	0.05	mg/L		J		0.004	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW501	WETCHEM	Chromium, hexavalent	0.03	mg/L		J		0.004	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	QW499	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	12/5/2012
WD-PZ16C	DC611	ANION	Chloride	29	mg/L				0.25	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC611	ANION	Fluoride	0.18	mg/L		B		0.06	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC611	ANION	Nitrate	0.69	mg/L				0.042	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC611	ANION	Nitrite as Nitrogen	0.13	mg/L		B		0.049	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC611	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC611	ANION	Sulfate	660	mg/L				4.6	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	DC618	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0185	ng/L		U		0.0185	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00371	ng/L		U		0.00371	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00371	ng/L		U		0.00371	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0371	ng/L		U		0.0371	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC618	DI/FURA	Octachlorodibenzofuran	0.0371	ng/L		U		0.0371	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	HERB	2,4,5-T	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	HERB	2,4-D	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	HERB	2,4-DB	0.108	ug/L		U		0.108	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	HERB	Dalapon	1.34	ug/L		U		1.34	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	HERB	Dicamba	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	HERB	Dichloroprop	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	HERB	Dinoseb	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	HERB	MCPA	11.8	ug/L		U		11.8	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	HERB	MCPP	10.8	ug/L		U		10.8	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	HERB	Silvex	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Aluminum	6.6	mg/L				0.018	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Antimony	0.00061	mg/L		B		0.0004	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Arsenic	0.0082	mg/L				0.00033	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Barium	0.087	mg/L				0.00029	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Beryllium	0.00048	mg/L		B		0.00008	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Calcium	76	mg/L				0.035	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Chromium	0.0099	mg/L				0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Cobalt	0.011	mg/L				0.000054	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Copper	0.025	mg/L				0.00056	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Iron	13	mg/L				0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Lead	0.0064	mg/L				0.00018	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Lithium	0.083	mg/L				0.0026	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Magnesium	180	mg/L				0.011	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Manganese	0.31	mg/L				0.00031	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Nickel	0.021	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Potassium	11	mg/L				0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Selenium	0.0016	mg/L		B		0.0007	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Sodium	96	mg/L				0.092	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Strontium	1.2	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Thallium	0.0001	mg/L		B		0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Titanium	0.072	mg/L				0.0006	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Uranium	0.0035	mg/L				0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Vanadium	0.014	mg/L				0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC614	METAL	Zinc	0.041	mg/L				0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	2,4'-DDD	0.0051	ug/L		U		0.0051	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	2,4'-DDE	0.00612	ug/L		U		0.00612	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	2,4'-DDT	0.0051	ug/L		U		0.0051	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	4,4'-DDD	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	4,4'-DDE	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	4,4'-DDT	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Aldrin	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	alpha-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	alpha-Chlordane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013

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STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	DC617	PPCB	beta-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Chlordane	0.0781	ug/L		U		0.0781	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	delta-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Dieldrin	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Endosulfan I	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Endosulfan II	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Endosulfan sulfate	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Endrin	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Endrin aldehyde	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Endrin ketone	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	gamma-Chlordane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Heptachlor	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Heptachlor epoxide	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Kepone	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Lindane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Methoxychlor	0.051	ug/L		U		0.051	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	PCB-1016	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	PCB-1221	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	PCB-1232	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	PCB-1242	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	PCB-1248	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	PCB-1254	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	PCB-1260	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	PCB-1268	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Polychlorinated biphenyl	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	PPCB	Toxaphene	0.153	ug/L		U		0.153	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	1,2,4-Trichlorobenzene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	1,2-Dichlorobenzene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	1,3-Dichlorobenzene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	1,4-Dichlorobenzene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2,4,5-Trichlorophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2,4,6-Trichlorophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2,4-Dichlorophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2,4-Dimethylphenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2,4-Dinitrophenol	5.62	ug/L		U		5.62	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2,4-Dinitrotoluene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2,6-Dinitrotoluene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2-Chloronaphthalene	0.461	ug/L		U		0.461	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2-Chlorophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2-Methyl-4,6-dinitrophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2-Methylnaphthalene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2-Methylphenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2-Nitrobenzenamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	2-Nitrophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	3,3'-Dichlorobenzidine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	3-Nitrobenzenamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	4-Aminobiphenyl	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	4-Bromophenyl phenyl ether	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	4-Chloro-3-methylphenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	4-Chlorobenzenamine	3.71	ug/L		U		3.71	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	4-Chlorophenyl phenyl ether	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	4-Nitrobenzenamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	4-Nitrophenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Acenaphthene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Acenaphthylene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Acetophenone	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Anthracene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Benz(a)anthracene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Benzenemethanol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Benzo(a)pyrene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	DC617	SVOA	Benzo(b)fluoranthene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Benzo(ghi)perylene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Benzo(k)fluoranthene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Benzoic acid	6.74	ug/L		U		6.74	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Bis(2-chloroethoxy)methane	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Bis(2-chloroethyl) ether	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Bis(2-chloroisopropyl)ether	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Bis(2-ethylhexyl)phthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Butyl benzyl phthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Chrysene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Dibenz(a,h)anthracene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Dibenzofuran	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Diethyl phthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Dimethyl phthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Di-n-butyl phthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Di-n-octylphthalate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Diphenylamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Fluoranthene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Fluorene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Hexachlorobenzene	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Hexachlorobutadiene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Hexachlorocyclopentadiene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Hexachloroethane	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Indeno(1,2,3-cd)pyrene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Isophorone	3.93	ug/L		U		3.93	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	m,p-cresol	4.16	ug/L		U		4.16	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Naphthalene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Nitrobenzene	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	N-Nitrosodimethylamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	N-Nitroso-di-n-propylamine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	N-Nitrosomorpholine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	O,O,O-Triethylphosphorothioate	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Pentachlorophenol	0.0538	ug/L		U		0.0538	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Phenanthrene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Phenol	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Pyrene	0.337	ug/L		U		0.337	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	SVOA	Pyridine	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC617	VOA	1,4-Dioxane	3.37	ug/L		U		3.37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	DC620	VOA	Bromodichloromethane	1	ug/L				0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Chloroform	2.2	ug/L				0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Dibromochloromethane	0.75	ug/L		J		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC620	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC611	WETCHEM	Alkalinity	410	mg/L				1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC611	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC611	WETCHEM	Alkalinity as HCO3	410	mg/L				1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC612	WETCHEM	Ammonia	0.18	mg/L		B		0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC612	WETCHEM	Ammonium Nitrogen	0.18	mg/L				0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC616	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC619	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC821	WETCHEM	Dissolved Solids	1200	mg/L				9.4	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC611	WETCHEM	Dissolved Solids	1300	mg/L				4.7	WATER	WG	REG	BP	6/25/2013
WD-PZ16C	DC613	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Arsenic	0.00033	mg/L		U		0.00033	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Barium	0.021	mg/L				0.00029	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Calcium	64	mg/L				0.035	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Cobalt	0.00026	mg/L		B		0.000054	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Copper	0.013	mg/L				0.00056	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Iron	0.022	mg/L		B		0.022	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Lithium	0.076	mg/L				0.0026	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Magnesium	120	mg/L				0.011	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Manganese	0.011	mg/L				0.00031	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Nickel	0.005	mg/L				0.0003	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Potassium	7.9	mg/L				0.24	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ16C	DC613	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Sodium	68	mg/L				0.092	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Strontium	0.73	mg/L				0.0003	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Uranium	0.00048	mg/L		B		0.00005	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC613	METAL	Zinc	0.011	mg/L				0.002	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Americium-241	0.0101	pCi/L	0.0242	U		0.0385	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Neptunium-237	-0.0102	pCi/L	0.024	U		0.0521	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Plutonium-238	0	pCi/L	0.0188	U		0.0374	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Plutonium-239/240	0	pCi/L	0.0187	U		0.0374	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Technetium-99	0.557	pCi/L	0.416	U		0.679	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Thorium-228	0.0379	pCi/L	0.0299			0.0367	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Thorium-230	0.0349	pCi/L	0.0311	U		0.0429	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Thorium-232	0.0217	pCi/L	0.0231	U		0.0292	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Uranium-233/234	1.45	pCi/L	0.196			0.0539	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Uranium-235/236	0.0376	pCi/L	0.0418	U		0.0491	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC621	RADS	Uranium-238	0.68	pCi/L	0.134			0.0397	WATER	WG	REG	BP	6/26/2013
WD-PZ16C	DC615	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	6/26/2013
WD-PZ17C	WDPZ17-01-01	ANION	Chloride	50000	ug/L				510	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-01-01	ANION	Fluoride	200	ug/L		B		120	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-01-01	ANION	Nitrate	84	ug/L		U		84	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-01-01	ANION	Nitrite as Nitrogen	98	ug/L		U		98	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-01-01	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-01-01	ANION	Sulfate	2400000	ug/L				12000	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.143	ng/L		J		2.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-31-01	DI/FURA	Octachlorodibenzofuran	0.122	ng/L		J		2.5	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	2,4,5-T	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	2,4,5-T	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	2,4-D	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	2,4-D	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	2,4-DB	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	2,4-DB	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	Dalapon	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	Dalapon	1.51	ug/L		JU		1.51	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	Dicamba	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	Dicamba	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	Dichloroprop	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	Dichloroprop	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	Dinoseb	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	Dinoseb	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	MCPA	12.4	ug/L		U		12.4	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	MCPA	13.3	ug/L		JU		13.3	WATER	WG	REG	BAI	9/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	WDPZ17-05-01	HERB	MCPP	11.2	ug/L		U		11.2	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	MCPP	12	ug/L		JU		12	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	Silvex	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	HERB	Silvex	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	2,4'-DDD	0.002	ug/L		U		0.002	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	2,4'-DDE	0.0024	ug/L		U		0.0024	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	2,4'-DDT	0.002	ug/L		U		0.002	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	4,4'-DDD	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	4,4'-DDE	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	4,4'-DDT	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Aldrin	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	alpha-BHC	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	alpha-Chlordane	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	beta-BHC	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Chlordane	0.0306	ug/L		U		0.0306	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	delta-BHC	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Dieldrin	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Endosulfan I	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Endosulfan II	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Endosulfan sulfate	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Endrin	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Endrin aldehyde	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Endrin ketone	0.004	ug/L		U		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	gamma-Chlordane	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Heptachlor	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Heptachlor epoxide	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Lindane	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Methoxychlor	0.02	ug/L		U		0.02	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	PCB-1016	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	PCB-1221	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	PCB-1232	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	PCB-1242	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	PCB-1248	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	PCB-1254	0.0742	ug/L		JP		0.0396	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	PCB-1260	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	PCB-1268	0.0396	ug/L		U		0.0396	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Polychlorinated biphenyl	0.0742	ug/L		JP		0.0396	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	PPCB	Toxaphene	0.06	ug/L		U		0.06	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Americium-241	-0.0346	pCi/L	0.0349	U		0.0838	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Neptunium-237	0.00337	pCi/L	0.0175	U		0.0323	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Plutonium-238	0.00268	pCi/L	0.0091	U		0.00804	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Plutonium-239/240	0.0161	pCi/L	0.0182	U		0.0256	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Technetium-99	0.0179	pCi/L	0.306	U		0.534	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Thorium-228	0.401	pCi/L	0.157			0.158	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Thorium-230	0.0783	pCi/L	0.0922	U		0.142	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Thorium-232	0.0991	pCi/L	0.0839	U		0.106	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Uranium-233/234	6.41	pCi/L	0.355			0.0807	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Uranium-235/236	0.112	pCi/L	0.0572			0.0476	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-09-01	RADS	Uranium-238	2.04	pCi/L	0.201			0.062	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	WDPZ17-05-01	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Hexachlorobenzene	0.0025	ug/L		U		0.0025	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Pentachlorophenol	0.0562	ug/L		U		0.0562	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Pentachlorophenol	0.0602	ug/L		JU		0.0602	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	WDPZ17-05-01	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,1,1-Trichloroethane	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		JU		0.42	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,1,2-Trichloroethane	0.27	ug/L		JU		0.27	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,1-Dichloroethane	0.22	ug/L		JU		0.22	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,1-Dichloroethene	0.23	ug/L		JU		0.23	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,2,3-Trichloropropane	0.33	ug/L		JU		0.33	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		JU		0.47	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,2-Dichloroethane	0.13	ug/L		JU		0.13	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,2-Dichloroethene	0.24	ug/L		JU		0.24	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,2-Dichloropropane	0.18	ug/L		JU		0.18	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	1,2-Dimethylbenzene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-05-01	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	2-Butanone	2	ug/L		JU		2	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	2-Hexanone	1.7	ug/L		JU		1.7	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	4-Methyl-2-pentanone	0.98	ug/L		JU		0.98	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Acetone	1.9	ug/L		JU		1.9	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Acetonitrile	9.6	ug/L		JU		9.6	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Acrylonitrile	1.4	ug/L		JU		1.4	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Benzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Bromodichloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Bromoform	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Bromomethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Carbon disulfide	0.45	ug/L		JU		0.45	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Carbon tetrachloride	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Chlorobenzene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Chloroethane	0.41	ug/L		JU		0.41	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Chloroform	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Chloromethane	0.3	ug/L		JU		0.3	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	cis-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	cis-1,3-Dichloropropene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Dibromochloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Dichlorodifluoromethane	0.31	ug/L		JU		0.31	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Ethyl cyanide	3.7	ug/L		JU		3.7	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Ethylbenzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Isobutanol	37	ug/L		JU		37	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	M + P Xylene	0.34	ug/L		JU		0.34	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Methylene chloride	0.32	ug/L		JU		0.32	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Styrene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Tetrachloroethene	0.2	ug/L		JU		0.2	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Toluene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Total Xylene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	trans-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Trichloroethene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Trichlorofluoromethane	0.29	ug/L		JU		0.29	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Vinyl acetate	0.94	ug/L		JU		0.94	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-06-01	VOA	Vinyl chloride	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-01-01	WETCHEM	Alkalinity	590	mg/L				1.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-01-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-01-01	WETCHEM	Alkalinity as HCO3	590	mg/L				1.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-02-01	WETCHEM	Ammonium Nitrogen	4.4	mg/L		J		0.1	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-01-01	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-32-01	WETCHEM	Cyanide	0.005	mg/L		B		0.002	WATER	WG	REG	BAI	9/17/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Aluminum	0.42	mg/L				0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Antimony	0.0034	mg/L		B		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Antimony	0.0033	mg/L		B		0.002	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	WDPZ17-03-01R	METAL	Arsenic	0.0017	mg/L		U		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Arsenic	0.0022	mg/L		B		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Barium	0.035	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Barium	0.038	mg/L				0.00029	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Calcium	260	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Calcium	290	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Chromium	0.0041	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Chromium	0.0062	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Cobalt	0.061	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Cobalt	0.066	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Iron	0.89	mg/L				0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Lithium	0.22	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Lithium	0.25	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Magnesium	440	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Magnesium	480	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Manganese	0.47	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Manganese	0.43	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Nickel	0.16	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Nickel	0.18	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Potassium	21	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Potassium	25	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Sodium	230	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Sodium	260	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Strontium	6	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Strontium	6.9	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Titanium	0.005	mg/L		B		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Uranium	0.0036	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Uranium	0.0038	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-03-01R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-04-01R	METAL	Zinc	0.011	mg/L		B		0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-37-01R	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	WDPZ17-38-01R	WETCHEM	Chromium, hexavalent	0.01	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ17C	QW503	ANION	Chloride	57000	ug/L				510	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW503	ANION	Fluoride	360	ug/L		B		120	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW503	ANION	Nitrate	4800	ug/L				84	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW503	ANION	Nitrite as Nitrogen	1000	ug/L				98	WATER	WG	REG	BAI	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	QW503	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW503	ANION	Sulfate	2300000	ug/L				23000	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW510	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	HERB	2,4,5-T	0.0976	ug/L		U		0.0976	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	HERB	2,4-D	0.0976	ug/L		U		0.0976	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	HERB	2,4-DB	0.0976	ug/L		U		0.0976	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	HERB	Dalapon	1.47	ug/L		U		1.47	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	HERB	Dicamba	0.0976	ug/L		U		0.0976	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	HERB	Dichloroprop	0.0976	ug/L		U		0.0976	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	HERB	Dinoseb	0.0976	ug/L		U		0.0976	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	HERB	MCPA	12.9	ug/L		U		12.9	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	HERB	MCPP	11.8	ug/L		U		11.8	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	HERB	Silvex	0.0976	ug/L		U		0.0976	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Aluminum	0.91	mg/L				0.018	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Aluminum	1.5	mg/L				0.018	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Antimony	0.0026	mg/L				0.0004	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Antimony	0.0025	mg/L				0.0004	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Arsenic	0.0018	mg/L		B		0.00033	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Arsenic	0.0024	mg/L		B		0.00033	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Barium	0.039	mg/L				0.00029	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Barium	0.039	mg/L				0.00029	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Beryllium	0.000094	mg/L		B		0.00008	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Beryllium	0.00022	mg/L		B		0.00008	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Calcium	240	mg/L				0.035	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Calcium	260	mg/L				0.035	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Chromium	0.0016	mg/L		B		0.0005	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Chromium	0.0021	mg/L				0.0005	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Cobalt	0.04	mg/L				0.000054	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Cobalt	0.039	mg/L				0.000054	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Copper	0.0028	mg/L				0.00056	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Copper	0.0038	mg/L				0.00056	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Iron	1.4	mg/L				0.022	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Iron	2.7	mg/L				0.022	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Lead	0.00083	mg/L		B		0.00018	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Lead	0.0017	mg/L				0.00018	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Lithium	0.24	mg/L				0.0026	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Lithium	0.23	mg/L				0.0026	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Magnesium	460	mg/L				0.011	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Magnesium	500	mg/L				0.011	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Manganese	0.5	mg/L				0.00031	WATER	WG	REG	BAI	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	QW506	METAL	Manganese	0.51	mg/L				0.00031	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Nickel	0.09	mg/L				0.0003	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Nickel	0.088	mg/L				0.0003	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Selenium	0.0022	mg/L		B		0.0007	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Selenium	0.0025	mg/L		B		0.0007	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Sodium	210	mg/L				0.092	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Sodium	240	mg/L				0.092	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Strontium	5.7	mg/L				0.0003	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Strontium	6	mg/L				0.0003	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Thallium	0.001	mg/L				0.00005	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Titanium	0.022	mg/L				0.0006	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Titanium	0.041	mg/L				0.0006	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Uranium	0.0026	mg/L				0.00005	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Uranium	0.0027	mg/L				0.00005	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Vanadium	0.0032	mg/L		B		0.0005	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Vanadium	0.0028	mg/L		B		0.0005	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW505	METAL	Zinc	0.013	mg/L				0.002	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW506	METAL	Zinc	0.014	mg/L				0.002	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	2,4'-DDD	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	2,4'-DDE	0.00667	ug/L		U		0.00667	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	2,4'-DDT	0.00556	ug/L		U		0.00556	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	4,4'-DDD	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	4,4'-DDE	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	4,4'-DDT	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Aldrin	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	alpha-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	alpha-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	beta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Chlordane	0.085	ug/L		U		0.085	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	delta-BHC	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Dieldrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Endosulfan I	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Endosulfan II	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Endosulfan sulfate	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Endrin	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Endrin aldehyde	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Endrin ketone	0.0111	ug/L		U		0.0111	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	gamma-Chlordane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Heptachlor	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Heptachlor epoxide	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Kepone	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Lindane	0.00739	ug/L		U		0.00739	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Methoxychlor	0.0556	ug/L		U		0.0556	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	QW507	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	PPCB	Toxaphene	0.167	ug/L		U		0.167	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Americium-241	0.00234	pCi/L	0.0152	U		0.0288	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Neptunium-237	-0.0232	pCi/L	0.0213	U		0.0487	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Plutonium-238	-0.00239	pCi/L	0.0081	U		0.0183	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Plutonium-239/240	0.00239	pCi/L	0.0081	U		0.00716	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Technetium-99	-0.149	pCi/L	0.293	U		0.515	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Thorium-228	0.0661	pCi/L	0.0275			0.0299	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Thorium-230	0.0565	pCi/L	0.0272			0.0334	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Thorium-232	0.0321	pCi/L	0.0179			0.0162	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Uranium-233/234	2.83	pCi/L	0.228			0.0605	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Uranium-235/236	0.0408	pCi/L	0.0329			0.0175	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW509	RADS	Uranium-238	0.826	pCi/L	0.123			0.0142	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	1,2,4-Trichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	1,2-Dichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	1,3-Dichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	1,4-Dichlorobenzene	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2,4,5-Trichlorophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2,4,6-Trichlorophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2,4-Dichlorophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2,4-Dimethylphenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2,4-Dinitrophenol	6.1	ug/L		U		6.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2,4-Dinitrotoluene	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2,6-Dinitrotoluene	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2-Chloronaphthalene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2-Chlorophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2-Methyl-4,6-dinitrophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2-Methylnaphthalene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2-Methylphenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2-Nitrobenzenamine	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	2-Nitrophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	3,3'-Dichlorobenzidine	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	3-Nitrobenzenamine	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	4-Aminobiphenyl	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	4-Bromophenyl phenyl ether	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	4-Chloro-3-methylphenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	4-Chlorobenzenamine	4.02	ug/L		U		4.02	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	4-Chlorophenyl phenyl ether	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	4-Nitrobenzenamine	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	4-Nitrophenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Acenaphthene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Acenaphthylene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Acetophenone	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Anthracene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Benz(a)anthracene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Benzenemethanol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Benzo(a)pyrene	0.537	ug/L		U		0.537	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Benzo(b)fluoranthene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Benzo(ghi)perylene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Benzo(k)fluoranthene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Benzoic acid	7.32	ug/L		U		7.32	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Bis(2-chloroethoxy)methane	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Bis(2-chloroethyl) ether	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	bis(2-Chloroisopropyl)ether	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Bis(2-ethylhexyl)phthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Butyl benzyl phthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Chrysene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Dibenz(a,h)anthracene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Dibenzofuran	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Diethyl phthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	QW507	SVOA	Dimethyl phthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Di-n-butyl phthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Di-n-octylphthalate	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Diphenylamine	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Fluoranthene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Fluorene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Hexachlorobenzene	0.00694	ug/L		U		0.00694	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Hexachlorobutadiene	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Hexachlorocyclopentadiene	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Hexachloroethane	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Indeno(1,2,3-cd)pyrene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Isophorone	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	m+p Methylphenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Naphthalene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Nitrobenzene	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	N-Nitrosodimethylamine	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	N-Nitroso-di-n-propylamine	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	N-Nitrosomorpholine	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	O,O,O-Triethylphosphorothioate	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Pentachlorophenol	0.0588	ug/L		U		0.0588	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Phenanthrene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Phenol	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Pyrene	0.366	ug/L		U		0.366	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	SVOA	Pyridine	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW507	VOA	1,4-Dioxane	3.66	ug/L		U		3.66	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Acetone	8.1	ug/L		J		1.9	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	QW508	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW508	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW503	WETCHEM	Alkalinity	540	mg/L				1.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW503	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW503	WETCHEM	Alkalinity as HCO3	540	mg/L				1.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW504	WETCHEM	Ammonium Nitrogen	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW512	WETCHEM	Chromium, hexavalent	0.03	mg/L		J		0.004	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW513	WETCHEM	Chromium, hexavalent	0.019	mg/L		BJ		0.004	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	QW511	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	12/5/2012
WD-PZ17C	DC628	HERB	2,4,5-T	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	HERB	2,4-D	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	HERB	2,4-DB	0.105	ug/L		U		0.105	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	HERB	Dalapon	1.32	ug/L		U		1.32	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	HERB	Dicamba	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	HERB	Dichloroprop	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	HERB	Dinoseb	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	HERB	MCPA	11.6	ug/L		U		11.6	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	HERB	MCPP	10.5	ug/L		U		10.5	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	HERB	Silvex	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	2,4'-DDD	0.00543	ug/L		U		0.00543	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	2,4'-DDE	0.00652	ug/L		U		0.00652	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	2,4'-DDT	0.00543	ug/L		U		0.00543	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	4,4'-DDD	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	4,4'-DDE	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	4,4'-DDT	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Aldrin	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	alpha-BHC	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	alpha-Chlordane	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	beta-BHC	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Chlordane	0.0832	ug/L		U		0.0832	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	delta-BHC	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Dieldrin	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Endosulfan I	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Endosulfan II	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Endosulfan sulfate	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Endrin	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Endrin aldehyde	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Endrin ketone	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	gamma-Chlordane	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Heptachlor	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Heptachlor epoxide	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Kepone	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Kepone	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Lindane	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Methoxychlor	0.0543	ug/L		U		0.0543	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	PCB-1016	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	PCB-1221	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	PCB-1232	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	PCB-1242	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	PCB-1248	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	DC628	PPCB	PCB-1254	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	PCB-1260	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	PCB-1268	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Polychlorinated biphenyl	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	PPCB	Toxaphene	0.163	ug/L		U		0.163	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	1,2,4-Trichlorobenzene	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	1,2,4-Trichlorobenzene	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	1,2-Dichlorobenzene	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	1,2-Dichlorobenzene	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	1,3-Dichlorobenzene	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	1,3-Dichlorobenzene	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	1,4-Dichlorobenzene	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	1,4-Dichlorobenzene	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4,5-Trichlorophenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4,5-Trichlorophenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4,6-Trichlorophenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4,6-Trichlorophenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4-Dichlorophenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4-Dichlorophenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4-Dimethylphenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4-Dimethylphenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4-Dinitrophenol	5.56	ug/L		U		5.56	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4-Dinitrophenol	5.49	ug/L		JU		5.49	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4-Dinitrotoluene	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,4-Dinitrotoluene	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,6-Dinitrotoluene	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2,6-Dinitrotoluene	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Chloronaphthalene	0.456	ug/L		U		0.456	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Chloronaphthalene	0.451	ug/L		JU		0.451	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Chlorophenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Chlorophenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Methyl-4,6-dinitrophenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Methyl-4,6-dinitrophenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Methylnaphthalene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Methylnaphthalene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Methylphenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Methylphenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Nitrobenzenamine	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Nitrobenzenamine	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Nitrophenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	2-Nitrophenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	3,3'-Dichlorobenzidine	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	3,3'-Dichlorobenzidine	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	3-Nitrobenzenamine	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	3-Nitrobenzenamine	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Aminobiphenyl	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Aminobiphenyl	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Bromophenyl phenyl ether	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Bromophenyl phenyl ether	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Chloro-3-methylphenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Chloro-3-methylphenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Chlorobenzenamine	3.67	ug/L		U		3.67	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Chlorobenzenamine	3.63	ug/L		JU		3.63	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Chlorophenyl phenyl ether	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Chlorophenyl phenyl ether	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Nitrobenzenamine	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Nitrobenzenamine	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Nitrophenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	4-Nitrophenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Acenaphthene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	DC628	SVOA	Acenaphthene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Acenaphthylene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Acenaphthylene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Acetophenone	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Acetophenone	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Anthracene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Anthracene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benz(a)anthracene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benz(a)anthracene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzenemethanol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzenemethanol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzo(a)pyrene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzo(a)pyrene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzo(b)fluoranthene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzo(b)fluoranthene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzo(ghi)perylene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzo(ghi)perylene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzo(k)fluoranthene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzo(k)fluoranthene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzoic acid	6.67	ug/L		U		6.67	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Benzoic acid	6.59	ug/L		JU		6.59	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Bis(2-chloroethoxy)methane	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Bis(2-chloroethoxy)methane	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Bis(2-chloroethyl) ether	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Bis(2-chloroethyl) ether	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Bis(2-chloroisopropyl)ether	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Bis(2-chloroisopropyl)ether	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Bis(2-ethylhexyl)phthalate	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Bis(2-ethylhexyl)phthalate	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Butyl benzyl phthalate	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Butyl benzyl phthalate	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Chrysene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Chrysene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Dibenz(a,h)anthracene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Dibenz(a,h)anthracene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Dibenzofuran	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Dibenzofuran	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Diethyl phthalate	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Diethyl phthalate	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Dimethyl phthalate	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Dimethyl phthalate	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Di-n-butyl phthalate	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Di-n-butyl phthalate	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Di-n-octylphthalate	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Di-n-octylphthalate	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Diphenylamine	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Diphenylamine	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Fluoranthene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Fluoranthene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Fluorene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Fluorene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Hexachlorobenzene	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Hexachlorobutadiene	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Hexachlorobutadiene	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Hexachlorocyclopentadiene	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Hexachlorocyclopentadiene	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Hexachloroethane	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Hexachloroethane	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Indeno(1,2,3-cd)pyrene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Indeno(1,2,3-cd)pyrene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	DC628	SVOA	Isophorone	3.89	ug/L		U		3.89	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Isophorone	3.85	ug/L		JU		3.85	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	m,p-cresol	4.11	ug/L		U		4.11	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	m,p-cresol	4.07	ug/L		JU		4.07	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Naphthalene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Naphthalene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Nitrobenzene	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Nitrobenzene	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	N-Nitrosodimethylamine	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	N-Nitrosodimethylamine	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	N-Nitroso-di-n-propylamine	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	N-Nitroso-di-n-propylamine	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	N-Nitrosomorpholine	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	N-Nitrosomorpholine	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	O,O,O-Triethylphosphorothioate	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	O,O,O-Triethylphosphorothioate	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Pentachlorophenol	0.0526	ug/L		U		0.0526	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Phenanthrene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Phenanthrene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Phenol	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Phenol	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Pyrene	0.333	ug/L		U		0.333	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Pyrene	0.33	ug/L		JU		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Pyridine	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	SVOA	Pyridine	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	VOA	1,4-Dioxane	3.33	ug/L		U		3.33	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC628	VOA	1,4-Dioxane	3.3	ug/L		JU		3.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ17C	DC631	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC631	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0208	ng/L		U		0.0208	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00418	ng/L		U		0.00418	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00418	ng/L		U		0.00418	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0418	ng/L		U		0.0418	WATER	WG	REG	BP	6/25/2013
WD-PZ17C	DC629	DI/FURA	Octachlorodibenzofuran	0.0418	ng/L		U		0.0418	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	WDPZ18-01-01	ANION	Chloride	61000	ug/L				1300	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-01-01	ANION	Fluoride	300	ug/L		U		300	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-01-01	ANION	Nitrate	210	ug/L		U		210	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-01-01	ANION	Nitrite as Nitrogen	250	ug/L		U		250	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-01-01	ANION	Orthophosphate	940	ug/L		U		940	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-01-01	ANION	Sulfate	6600000	ug/L				46000	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0756	ng/L		J		2.5	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-31-01	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	WDPZ18-05-01	HERB	2,4,5-T	0.0912	ug/L		U		0.0912	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	2,4,5-T	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	2,4-D	0.0912	ug/L		U		0.0912	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	2,4-D	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	2,4-DB	0.0912	ug/L		U		0.0912	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	2,4-DB	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	Dalapon	1.37	ug/L		U		1.37	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	Dalapon	1.34	ug/L		JU		1.34	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	Dicamba	0.0912	ug/L		U		0.0912	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	Dicamba	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	Dichloroprop	0.0912	ug/L		U		0.0912	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	Dichloroprop	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	Dinoseb	0.0912	ug/L		U		0.0912	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	Dinoseb	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	MCPA	12.1	ug/L		U		12.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	MCPA	11.8	ug/L		JU		11.8	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	MCPP	11	ug/L		U		11	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	MCPP	10.8	ug/L		JU		10.8	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	Silvex	0.0912	ug/L		U		0.0912	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	HERB	Silvex	0.0892	ug/L		JU		0.0892	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	2,4'-DDD	0.00208	ug/L		U		0.00208	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	2,4'-DDE	0.0025	ug/L		U		0.0025	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	2,4'-DDT	0.00208	ug/L		U		0.00208	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	4,4'-DDD	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	4,4'-DDE	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	4,4'-DDT	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Aldrin	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	alpha-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	alpha-Chlordane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	beta-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Chlordane	0.0319	ug/L		U		0.0319	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	delta-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Dieldrin	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Endosulfan I	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Endosulfan II	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Endosulfan sulfate	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Endrin	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Endrin aldehyde	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Endrin ketone	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	gamma-Chlordane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Heptachlor	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Heptachlor epoxide	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Kepone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Kepone	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Lindane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Methoxychlor	0.0208	ug/L		U		0.0208	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	PCB-1016	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	PCB-1221	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	PCB-1232	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	PCB-1242	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	PCB-1248	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	PCB-1254	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	PCB-1260	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	PCB-1268	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Polychlorinated biphenyl	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	PPCB	Toxaphene	0.0625	ug/L		U		0.0625	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-09-01	RADS	Americium-241	-0.00449	pCi/L	0.0233	U		0.0497	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-09-01	RADS	Neptunium-237	0.00637	pCi/L	0.0279	U		0.0487	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-09-01	RADS	Plutonium-238	-0.00214	pCi/L	0.0126	U		0.0264	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-09-01	RADS	Plutonium-239/240	0.00214	pCi/L	0.0126	U		0.0237	WATER	WG	REG	BAI	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	WDPZ18-09-01	RADS	Technetium-99	-0.215	pCi/L	0.303	U		0.548	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-09-01	RADS	Thorium-228	1.08	pCi/L	0.417			0.548	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-09-01	RADS	Thorium-230	0.661	pCi/L	0.262			0.257	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-09-01	RADS	Thorium-232	0.912	pCi/L	0.273			0.0816	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-09-01	RADS	Uranium-233/234	2.62	pCi/L	0.262			0.104	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-09-01	RADS	Uranium-235/236	0.0324	pCi/L	0.0593	U		0.0995	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-09-01	RADS	Uranium-238	1.64	pCi/L	0.205			0.0627	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	1,2,4-Trichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	1,2,4-Trichlorobenzene	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	1,2-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	1,2-Dichlorobenzene	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	1,3-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	1,3-Dichlorobenzene	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	1,4-Dichlorobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	1,4-Dichlorobenzene	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4,5-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4,5-Trichlorophenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4,6-Trichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4,6-Trichlorophenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4-Dichlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4-Dichlorophenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4-Dimethylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4-Dimethylphenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4-Dinitrophenol	5.26	ug/L		U		5.26	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4-Dinitrophenol	5.88	ug/L		JU		5.88	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,4-Dinitrotoluene	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,6-Dinitrotoluene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2,6-Dinitrotoluene	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Chloronaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Chloronaphthalene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Chlorophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Chlorophenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Methyl-4,6-dinitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Methyl-4,6-dinitrophenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Methylnaphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Methylnaphthalene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Methylphenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Nitrobenzenamine	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	2-Nitrophenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	3,3'-Dichlorobenzidine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	3,3'-Dichlorobenzidine	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	3-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	3-Nitrobenzenamine	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Aminobiphenyl	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Aminobiphenyl	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Bromophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Bromophenyl phenyl ether	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Chloro-3-methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Chloro-3-methylphenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Chlorobenzenamine	3.47	ug/L		U		3.47	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Chlorobenzenamine	3.88	ug/L		JU		3.88	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Chlorophenyl phenyl ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Chlorophenyl phenyl ether	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Nitrobenzenamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Nitrobenzenamine	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	4-Nitrophenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	WDPZ18-05-01	SVOA	4-Nitrophenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Acenaphthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Acenaphthene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Acenaphthylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Acenaphthylene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Acetophenone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Acetophenone	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Anthracene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benz(a)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benz(a)anthracene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzenemethanol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzenemethanol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzo(a)pyrene	0.463	ug/L		U		0.463	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzo(a)pyrene	0.518	ug/L		JU		0.518	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzo(b)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzo(b)fluoranthene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzo(ghi)perylene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzo(ghi)perylene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzo(k)fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzo(k)fluoranthene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzoic acid	6.32	ug/L		U		6.32	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Benzoic acid	7.06	ug/L		JU		7.06	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Bis(2-chloroethoxy)methane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Bis(2-chloroethoxy)methane	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Bis(2-chloroethyl) ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Bis(2-chloroethyl) ether	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	bis(2-Chloroisopropyl)ether	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	bis(2-Chloroisopropyl)ether	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Bis(2-ethylhexyl)phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Bis(2-ethylhexyl)phthalate	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Butyl benzyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Butyl benzyl phthalate	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Chrysene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Chrysene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Dibenz(a,h)anthracene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Dibenz(a,h)anthracene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Dibenzofuran	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Dibenzofuran	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Diethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Diethyl phthalate	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Dimethyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Dimethyl phthalate	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Di-n-butyl phthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Di-n-butyl phthalate	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Di-n-octylphthalate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Di-n-octylphthalate	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Diphenylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Diphenylamine	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Fluoranthene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Fluoranthene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Fluorene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Fluorene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Hexachlorobenzene	0.0026	ug/L		U		0.0026	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Hexachlorobutadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Hexachlorobutadiene	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Hexachlorocyclopentadiene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Hexachlorocyclopentadiene	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Hexachloroethane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Hexachloroethane	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	WDPZ18-05-01	SVOA	Indeno(1,2,3-cd)pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Indeno(1,2,3-cd)pyrene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Isophorone	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Isophorone	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	m+p Methylphenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	m+p Methylphenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Naphthalene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Naphthalene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Nitrobenzene	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Nitrobenzene	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	N-Nitrosodimethylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	N-Nitrosodimethylamine	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	N-Nitroso-di-n-propylamine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	N-Nitroso-di-n-propylamine	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	N-Nitrosomorpholine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	N-Nitrosomorpholine	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	O,O,O-Triethylphosphorothioate	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	O,O,O-Triethylphosphorothioate	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Pentachlorophenol	0.0549	ug/L		U		0.0549	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Pentachlorophenol	0.0538	ug/L		JU		0.0538	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Phenanthrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Phenanthrene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Phenol	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Phenol	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Pyrene	0.316	ug/L		U		0.316	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Pyrene	0.353	ug/L		JU		0.353	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Pyridine	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	SVOA	Pyridine	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,1,1-Trichloroethane	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		JU		0.42	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,1,2-Trichloroethane	0.27	ug/L		JU		0.27	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,1-Dichloroethane	0.22	ug/L		JU		0.22	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,1-Dichloroethene	0.23	ug/L		JU		0.23	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,2,3-Trichloropropane	0.33	ug/L		JU		0.33	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		JU		0.47	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,2-Dichloroethane	0.13	ug/L		JU		0.13	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,2-Dichloroethene	0.24	ug/L		JU		0.24	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,2-Dichloropropane	0.18	ug/L		JU		0.18	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	1,2-Dimethylbenzene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	VOA	1,4-Dioxane	3.16	ug/L		U		3.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-05-01	VOA	1,4-Dioxane	3.53	ug/L		JU		3.53	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	2-Butanone	2	ug/L		JU		2	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	2-Hexanone	1.7	ug/L		JU		1.7	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	4-Methyl-2-pentanone	0.98	ug/L		JU		0.98	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Acetone	6.3	ug/L		J		1.9	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Acetonitrile	9.6	ug/L		JU		9.6	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Acrylonitrile	1.4	ug/L		JU		1.4	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Benzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Bromodichloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Bromoform	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Bromomethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Carbon disulfide	0.45	ug/L		JU		0.45	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Carbon tetrachloride	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Chlorobenzene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Chloroethane	0.41	ug/L		JU		0.41	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Chloroform	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Chloromethane	0.3	ug/L		JU		0.3	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	cis-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/18/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	WDPZ18-06-01	VOA	cis-1,3-Dichloropropene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Dibromochloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Dichlorodifluoromethane	0.31	ug/L		JU		0.31	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Ethyl cyanide	3.7	ug/L		JU		3.7	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Ethylbenzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Isobutanol	37	ug/L		JU		37	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	M + P Xylene	0.34	ug/L		JU		0.34	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Methylene chloride	0.32	ug/L		JU		0.32	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Styrene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Tetrachloroethene	0.2	ug/L		JU		0.2	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Toluene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Total Xylene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	trans-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Trichloroethene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Trichlorofluoromethane	0.29	ug/L		JU		0.29	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Vinyl acetate	0.94	ug/L		JU		0.94	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-06-01	VOA	Vinyl chloride	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-01-01	WETCHEM	Alkalinity	1700	mg/L				1.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-01-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-01-01	WETCHEM	Alkalinity as HCO3	1700	mg/L				1.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-02-01	WETCHEM	Ammonium Nitrogen	1.8	mg/L		J		0.1	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-01-01	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-32-01	WETCHEM	Cyanide	0.0021	mg/L		B		0.002	WATER	WG	REG	BAI	9/18/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Aluminum	8.4	mg/L				0.018	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Antimony	0.0022	mg/L		B		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Antimony	0.002	mg/L		U		0.002	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Arsenic	0.016	mg/L		B		0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Arsenic	0.035	mg/L				0.0017	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Barium	0.018	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Barium	0.043	mg/L				0.00029	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Beryllium	0.00051	mg/L		B		0.0004	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Cadmium	0.0005	mg/L		B		0.0005	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Calcium	390	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Calcium	430	mg/L				0.035	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Chromium	0.0042	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Chromium	0.018	mg/L				0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Cobalt	0.033	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Cobalt	0.042	mg/L				0.00027	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Copper	0.0028	mg/L		U		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Copper	0.0096	mg/L		B		0.0028	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Iron	0.28	mg/L				0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Iron	16	mg/L				0.022	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Lead	0.0009	mg/L		U		0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Lead	0.012	mg/L				0.0009	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Lithium	0.51	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Lithium	0.6	mg/L				0.0026	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Magnesium	1200	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Magnesium	1200	mg/L				0.011	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Manganese	0.62	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Manganese	0.78	mg/L				0.0016	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Nickel	0.072	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Nickel	0.086	mg/L				0.0015	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Potassium	36	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	WDPZ18-04-01R	METAL	Potassium	43	mg/L				0.24	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Sodium	730	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Sodium	830	mg/L				0.092	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Strontium	7.9	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Strontium	9.2	mg/L				0.0003	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Titanium	0.081	mg/L				0.0006	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Uranium	0.0035	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Uranium	0.003	mg/L		B		0.00025	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Vanadium	0.0025	mg/L		U		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Vanadium	0.021	mg/L		B		0.0025	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-03-01R	METAL	Zinc	0.01	mg/L		U		0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-04-01R	METAL	Zinc	0.04	mg/L		B		0.01	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-37-01R	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	WDPZ18-38-01R	WETCHEM	Chromium, hexavalent	0.006	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW521	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	2,4,5-T	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	2,4,5-T	0.0988	ug/L		JU		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	2,4-D	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	2,4-D	0.0988	ug/L		JU		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	2,4-DB	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	2,4-DB	0.0988	ug/L		JU		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	Dalapon	1.42	ug/L		U		1.42	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	Dalapon	1.49	ug/L		JU		1.49	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	Dicamba	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	Dicamba	0.0988	ug/L		JU		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	Dichloroprop	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	Dichloroprop	0.0988	ug/L		JU		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	Dinoseb	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	Dinoseb	0.0988	ug/L		JU		0.0988	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	MCPA	12.5	ug/L		U		12.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	MCPA	13.1	ug/L		JU		13.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	MCPP	11.4	ug/L		U		11.4	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	MCPP	11.9	ug/L		JU		11.9	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	Silvex	0.0943	ug/L		U		0.0943	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	HERB	Silvex	0.0988	ug/L		JU		0.0988	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	QW518	PPCB	2,4'-DDD	0.00625	ug/L		U		0.00625	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	2,4'-DDE	0.0075	ug/L		U		0.0075	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	2,4'-DDT	0.00625	ug/L		U		0.00625	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	4,4'-DDD	0.0125	ug/L		U		0.0125	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	4,4'-DDE	0.0125	ug/L		U		0.0125	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	4,4'-DDT	0.0125	ug/L		U		0.0125	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Aldrin	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	alpha-BHC	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	alpha-Chlordane	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	beta-BHC	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Chlordane	0.0956	ug/L		U		0.0956	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	delta-BHC	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Dieldrin	0.0125	ug/L		U		0.0125	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Endosulfan I	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Endosulfan II	0.0125	ug/L		U		0.0125	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Endosulfan sulfate	0.0125	ug/L		U		0.0125	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Endrin	0.0125	ug/L		U		0.0125	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Endrin aldehyde	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Endrin ketone	0.0125	ug/L		U		0.0125	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	gamma-Chlordane	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Heptachlor	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Heptachlor epoxide	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Kepone	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Lindane	0.00831	ug/L		U		0.00831	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Methoxychlor	0.0625	ug/L		U		0.0625	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	PCB-1016	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	PCB-1221	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	PCB-1232	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	PCB-1242	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	PCB-1248	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	PCB-1254	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	PCB-1260	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	PCB-1268	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Polychlorinated biphenyl	0.037	ug/L		U		0.037	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	PPCB	Toxaphene	0.188	ug/L		U		0.188	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Americium-241	-0.00405	pCi/L	0.0138	U		0.031	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Neptunium-237	0.00685	pCi/L	0.0134	U		0.0103	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Plutonium-238	0	pCi/L	0.00697	U		0.00754	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Plutonium-239/240	0.00251	pCi/L	0.011	U		0.0192	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Technetium-99	-0.179	pCi/L	0.282	U		0.498	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Thorium-228	0.0165	pCi/L	0.0277	U		0.0472	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Thorium-230	0.0152	pCi/L	0.0236	U		0.0396	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Thorium-232	0.00422	pCi/L	0.0146	U		0.0263	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Uranium-233/234	2.88	pCi/L	0.241			0.0752	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Uranium-235/236	0.0761	pCi/L	0.0478			0.0448	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW520	RADS	Uranium-238	1.51	pCi/L	0.174			0.0409	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	1,2,4-Trichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	1,2-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	1,3-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	1,4-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2,4,5-Trichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2,4,6-Trichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2,4-Dichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2,4-Dimethylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2,4-Dinitrophenol	5.38	ug/L		U		5.38	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2,4-Dinitrotoluene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2,6-Dinitrotoluene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2-Chloronaphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2-Chlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2-Methyl-4,6-dinitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	QW518	SVOA	2-Methylnaphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2-Methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	2-Nitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	3,3'-Dichlorobenzidine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	3-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	4-Aminobiphenyl	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	4-Bromophenyl phenyl ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	4-Chloro-3-methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	4-Chlorobenzenamine	3.55	ug/L		U		3.55	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	4-Chlorophenyl phenyl ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	4-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	4-Nitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Acenaphthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Acenaphthylene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Acetophenone	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Benz(a)anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Benzenemethanol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Benzo(a)pyrene	0.473	ug/L		U		0.473	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Benzo(b)fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Benzo(ghi)perylene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Benzo(k)fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Benzoic acid	6.45	ug/L		U		6.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Bis(2-chloroethoxy)methane	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Bis(2-chloroethyl) ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	bis(2-Chloroisopropyl)ether	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Bis(2-ethylhexyl)phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Butyl benzyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Chrysene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Dibenz(a,h)anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Dibenzofuran	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Diethyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Dimethyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Di-n-butyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Di-n-octylphthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Diphenylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Fluorene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Hexachlorobenzene	0.00781	ug/L		U		0.00781	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Hexachlorobutadiene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Hexachlorocyclopentadiene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Hexachloroethane	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Indeno(1,2,3-cd)pyrene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Isophorone	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	m+p Methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Naphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Nitrobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	N-Nitrosodimethylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	N-Nitroso-di-n-propylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	N-Nitrosomorpholine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	O,O,O-Triethylphosphorothioate	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Pentachlorophenol	0.0568	ug/L		U		0.0568	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Pentachlorophenol	0.0595	ug/L		JU		0.0595	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Phenanthrene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Phenol	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Pyrene	0.323	ug/L		U		0.323	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	SVOA	Pyridine	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	QW519	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW518	VOA	1,4-Dioxane	3.23	ug/L		U		3.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Acetone	12	ug/L				1.9	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW519	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW515	WETCHEM	Ammonium Nitrogen	3.8	mg/L				0.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW522	WETCHEM	Cyanide	0.0022	mg/L		B		0.002	WATER	WG	REG	BAI	12/6/2012
WD-PZ18C	QW514R	ANION	Chloride	61000	ug/L				1300	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW514R	ANION	Fluoride	360	ug/L		B		300	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW514R	ANION	Nitrate	210	ug/L		U		210	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW514R	ANION	Nitrite as Nitrogen	340	ug/L		B		250	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW514R	ANION	Orthophosphate	940	ug/L		U		940	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW514R	ANION	Sulfate	5900000	ug/L				46000	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Aluminum	6.7	mg/L				0.018	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Aluminum	1.8	mg/L				0.018	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Antimony	0.0026	mg/L		B		0.002	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Antimony	0.0022	mg/L				0.0004	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Arsenic	0.018	mg/L		B		0.0017	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Arsenic	0.0096	mg/L				0.00033	WATER	WG	REG	BAI	12/10/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	QW517R	METAL	Barium	0.052	mg/L				0.0015	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Barium	0.026	mg/L				0.00029	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Beryllium	0.0004	mg/L		U		0.0004	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Beryllium	0.00013	mg/L		B		0.00008	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Cadmium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Cadmium	0.00061	mg/L		B		0.0001	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Calcium	340	mg/L				0.035	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Calcium	430	mg/L				0.035	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Chromium	0.012	mg/L				0.0025	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Chromium	0.0023	mg/L				0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Chromium, trivalent	0.1	mg/L		U		0.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Cobalt	0.033	mg/L				0.00027	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Cobalt	0.029	mg/L				0.000054	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Copper	0.009	mg/L		B		0.0028	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Copper	0.0022	mg/L				0.00056	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Iron	13	mg/L				0.022	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Iron	2.6	mg/L				0.022	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Lead	0.0064	mg/L				0.0009	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Lead	0.0014	mg/L				0.00018	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Lithium	0.5	mg/L				0.0026	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Lithium	0.55	mg/L				0.0026	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Magnesium	1000	mg/L				0.011	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Magnesium	1200	mg/L				0.011	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Manganese	0.8	mg/L				0.0016	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Manganese	0.68	mg/L				0.00031	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Nickel	0.074	mg/L				0.0015	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Nickel	0.06	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Potassium	35	mg/L				0.24	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Potassium	34	mg/L				0.24	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Selenium	0.0035	mg/L		U		0.0035	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Selenium	0.00085	mg/L		B		0.0007	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Silver	0.00017	mg/L		U		0.00017	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Silver	0.000068	mg/L		B		0.000033	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Sodium	720	mg/L				0.092	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Sodium	740	mg/L				0.092	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Strontium	7.2	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Strontium	7.8	mg/L				0.0003	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Thallium	0.00025	mg/L		U		0.00025	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Titanium	0.062	mg/L				0.0006	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Titanium	0.015	mg/L				0.0006	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Uranium	0.0044	mg/L		B		0.00025	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Uranium	0.0036	mg/L				0.00005	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Vanadium	0.018	mg/L		B		0.0025	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Vanadium	0.0043	mg/L		B		0.0005	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW517R	METAL	Zinc	0.041	mg/L		B		0.01	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW516R	METAL	Zinc	0.01	mg/L				0.002	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW514R	WETCHEM	Alkalinity	1700	mg/L				1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW514R	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW514R	WETCHEM	Alkalinity as HCO3	1700	mg/L				1.1	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW523R	WETCHEM	Chromium, hexavalent	0.006	mg/L		BJ		0.004	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	QW524R	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	12/10/2012
WD-PZ18C	DC642	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	DC642	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Acetone	4.2	ug/L		BJ		1.9	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Bromodichloromethane	0.28	ug/L		J		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Chloroform	0.86	ug/L		J		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Dibromochloromethane	0.24	ug/L		J		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Methylene chloride	0.96	ug/L		BJ		0.32	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC642	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ18C	DC633	ANION	Chloride	35	mg/L				0.51	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC633	ANION	Fluoride	0.17	mg/L		B		0.12	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC633	ANION	Nitrate	0.23	mg/L		B		0.084	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC633	ANION	Nitrite as Nitrogen	0.098	mg/L		U		0.098	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC633	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC633	ANION	Sulfate	1600	mg/L				12	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	DC640	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0295	ng/L		J		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0214	ng/L		U		0.0214	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00429	ng/L		U		0.00429	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00429	ng/L		U		0.00429	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.109	ng/L		J		0.0429	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC640	DI/FURA	Octachlorodibenzofuran	0.0429	ng/L		U		0.0429	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	HERB	2,4,5-T	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	HERB	2,4-D	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	HERB	2,4-DB	0.105	ug/L		U		0.105	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	HERB	Dalapon	1.32	ug/L		U		1.32	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	HERB	Dicamba	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	HERB	Dichloroprop	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	HERB	Dinoseb	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	HERB	MCPA	11.6	ug/L		U		11.6	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	HERB	MCPP	10.5	ug/L		U		10.5	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	HERB	Silvex	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Aluminum	0.046	mg/L		B		0.018	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Arsenic	0.00036	mg/L		B		0.00033	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Arsenic	0.00073	mg/L		B		0.00033	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Barium	0.028	mg/L				0.00029	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Barium	0.021	mg/L				0.00029	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Calcium	220	mg/L				0.035	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Calcium	240	mg/L				0.035	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Chromium	0.00077	mg/L		B		0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Chromium	0.0038	mg/L				0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Cobalt	0.014	mg/L				0.000054	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Cobalt	0.0097	mg/L				0.000054	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Copper	0.0047	mg/L				0.00056	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Copper	0.0085	mg/L				0.00056	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Iron	0.068	mg/L		B		0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Iron	0.37	mg/L				0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Lead	0.00021	mg/L		B		0.00018	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Lithium	0.17	mg/L				0.0026	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Lithium	0.17	mg/L				0.0026	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Magnesium	280	mg/L				0.011	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Magnesium	280	mg/L				0.011	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Manganese	0.68	mg/L				0.00031	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Manganese	0.66	mg/L				0.00031	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Nickel	0.086	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Nickel	0.097	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	DC636	METAL	Potassium	18	mg/L				0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Sodium	270	mg/L				0.092	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Sodium	270	mg/L				0.092	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Strontium	4.5	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Strontium	4.8	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Thallium	0.000067	mg/L		B		0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Thallium	0.000058	mg/L		B		0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Titanium	0.00069	mg/L		B		0.0006	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Uranium	0.0019	mg/L				0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Uranium	0.0022	mg/L				0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Vanadium	0.00054	mg/L		B		0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Vanadium	0.00089	mg/L		B		0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC635	METAL	Zinc	0.0089	mg/L		B		0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC636	METAL	Zinc	0.0055	mg/L		B		0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	2,4'-DDD	0.00521	ug/L		U		0.00521	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	2,4'-DDE	0.00625	ug/L		U		0.00625	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	2,4'-DDT	0.00521	ug/L		U		0.00521	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	4,4'-DDD	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	4,4'-DDE	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	4,4'-DDT	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Aldrin	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	alpha-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	alpha-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	beta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Chlordane	0.0797	ug/L		U		0.0797	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	delta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Dieldrin	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Endosulfan I	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Endosulfan II	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Endosulfan sulfate	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Endrin	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Endrin aldehyde	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Endrin ketone	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	gamma-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Heptachlor	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Heptachlor epoxide	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Kepone	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Lindane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Methoxychlor	0.0521	ug/L		U		0.0521	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	PCB-1016	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	PCB-1221	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	PCB-1232	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	PCB-1242	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	PCB-1248	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	PCB-1254	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	PCB-1260	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	PCB-1268	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Polychlorinated biphenyl	0.0354	ug/L		U		0.0354	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	PPCB	Toxaphene	0.156	ug/L		U		0.156	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC643	RADS	Americium-241	0.0107	pCi/L	0.021	U		0.0161	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC643	RADS	Neptunium-237	0.00514	pCi/L	0.0225	U		0.0394	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC643	RADS	Plutonium-238	0.00417	pCi/L	0.0216	U		0.04	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC643	RADS	Plutonium-239/240	0.00834	pCi/L	0.0163	U		0.0125	WATER	WG	REG	BP	6/25/2013

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WD-PZ18C	DC643	RADS	Technetium-99	0.255	pCi/L	0.469	U		0.803	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC643	RADS	Thorium-228	0.128	pCi/L	0.0435			0.0355	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC643	RADS	Thorium-230	0.0329	pCi/L	0.0261	U		0.0337	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC643	RADS	Thorium-232	0.0651	pCi/L	0.0294			0.0141	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC643	RADS	Uranium-233/234	1.65	pCi/L	0.202			0.0447	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC643	RADS	Uranium-235/236	0.047	pCi/L	0.0413			0.0235	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC643	RADS	Uranium-238	0.861	pCi/L	0.145			0.019	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	1,2,4-Trichlorobenzene	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	1,2-Dichlorobenzene	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	1,3-Dichlorobenzene	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	1,4-Dichlorobenzene	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2,4,5-Trichlorophenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2,4,6-Trichlorophenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2,4-Dichlorophenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2,4-Dimethylphenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2,4-Dinitrophenol	6.94	ug/L		U		6.94	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2,4-Dinitrotoluene	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2,6-Dinitrotoluene	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2-Chloronaphthalene	0.569	ug/L		U		0.569	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2-Chlorophenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2-Methyl-4,6-dinitrophenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2-Methylnaphthalene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2-Methylphenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2-Nitrobenzenamine	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	2-Nitrophenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	3,3'-Dichlorobenzidine	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	3-Nitrobenzenamine	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	4-Aminobiphenyl	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	4-Bromophenyl phenyl ether	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	4-Chloro-3-methylphenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	4-Chlorobenzenamine	4.58	ug/L		U		4.58	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	4-Chlorophenyl phenyl ether	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	4-Nitrobenzenamine	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	4-Nitrophenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Acenaphthene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Acenaphthylene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Acetophenone	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Anthracene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Benz(a)anthracene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Benzenemethanol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Benzo(a)pyrene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Benzo(b)fluoranthene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Benzo(ghi)perylene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Benzo(k)fluoranthene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Benzoic acid	8.33	ug/L		U		8.33	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Bis(2-chloroethoxy)methane	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Bis(2-chloroethyl) ether	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Bis(2-chloroisopropyl)ether	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Bis(2-ethylhexyl)phthalate	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Butyl benzyl phthalate	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Chrysene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Dibenz(a,h)anthracene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Dibenzofuran	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Diethyl phthalate	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Dimethyl phthalate	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Di-n-butyl phthalate	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Di-n-octylphthalate	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Diphenylamine	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Fluoranthene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Fluorene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18C	DC639	SVOA	Hexachlorobenzene	0.00651	ug/L		U		0.00651	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Hexachlorobutadiene	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Hexachlorocyclopentadiene	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Hexachloroethane	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Indeno(1,2,3-cd)pyrene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Isophorone	4.86	ug/L		U		4.86	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	m,p-cresol	5.14	ug/L		U		5.14	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Naphthalene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Nitrobenzene	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	N-Nitrosodimethylamine	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	N-Nitroso-di-n-propylamine	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	N-Nitrosomorpholine	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	O,O,O-Triethylphosphorothioate	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Pentachlorophenol	0.0526	ug/L		U		0.0526	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Phenanthrene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Phenol	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Pyrene	0.417	ug/L		U		0.417	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	SVOA	Pyridine	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC639	VOA	1,4-Dioxane	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC633	WETCHEM	Alkalinity	620	mg/L				1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC633	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC633	WETCHEM	Alkalinity as HCO3	620	mg/L				1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC634	WETCHEM	Ammonia	2.4	mg/L				0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC634	WETCHEM	Ammonium Nitrogen	2.4	mg/L				0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC637	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC638	WETCHEM	Chromium, hexavalent	0.0049	mg/L		BJ		0.004	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC641	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC822	WETCHEM	Dissolved Solids	2800	mg/L				9.4	WATER	WG	REG	BP	6/25/2013
WD-PZ18C	DC633	WETCHEM	Dissolved Solids	2800	mg/L				9.4	WATER	WG	REG	BP	6/25/2013
WD-PZ18CA	WDPZ18CA-05-01	HERB	2,4,5-T	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	HERB	2,4-D	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	HERB	2,4-DB	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	HERB	Dalapon	1.25	ug/L		U		1.25	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	HERB	Dicamba	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	HERB	Dichloroprop	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	HERB	Dinoseb	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	HERB	MCPA	11	ug/L		U		11	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	HERB	MCPP	10	ug/L		U		10	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	HERB	Silvex	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	2,4'-DDD	0.00213	ug/L		U		0.00213	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	2,4'-DDE	0.00255	ug/L		U		0.00255	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	2,4'-DDT	0.00213	ug/L		U		0.00213	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	4,4'-DDD	0.00426	ug/L		U		0.00426	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	4,4'-DDE	0.00426	ug/L		U		0.00426	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	4,4'-DDT	0.00426	ug/L		U		0.00426	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Aldrin	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	alpha-BHC	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	alpha-Chlordane	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	beta-BHC	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Chlordane	0.0326	ug/L		U		0.0326	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	delta-BHC	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Dieldrin	0.00426	ug/L		U		0.00426	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Endosulfan I	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Endosulfan II	0.00426	ug/L		U		0.00426	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Endosulfan sulfate	0.00426	ug/L		U		0.00426	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Endrin	0.00426	ug/L		U		0.00426	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Endrin aldehyde	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Endrin ketone	0.00426	ug/L		U		0.00426	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	gamma-Chlordane	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Heptachlor	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Heptachlor epoxide	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Lindane	0.00283	ug/L		U		0.00283	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Methoxychlor	0.0213	ug/L		U		0.0213	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	PPCB	Toxaphene	0.0638	ug/L		U		0.0638	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	SVOA	Hexachlorobenzene	0.00266	ug/L		U		0.00266	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-05-01	SVOA	Pentachlorophenol	0.05	ug/L		U		0.05	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,1,1-Trichloroethane	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		JU		0.42	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,1,2-Trichloroethane	0.27	ug/L		JU		0.27	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,1-Dichloroethane	0.22	ug/L		JU		0.22	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,1-Dichloroethene	0.23	ug/L		JU		0.23	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,2,3-Trichloropropane	0.33	ug/L		JU		0.33	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		JU		0.47	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,2-Dichloroethane	0.13	ug/L		JU		0.13	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,2-Dichloroethene	0.24	ug/L		JU		0.24	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,2-Dichloropropane	0.18	ug/L		JU		0.18	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	1,2-Dimethylbenzene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	2-Butanone	2	ug/L		JU		2	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	2-Hexanone	1.7	ug/L		JU		1.7	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	4-Methyl-2-pentanone	0.98	ug/L		JU		0.98	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Acetone	1.9	ug/L		JU		1.9	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Acetonitrile	9.6	ug/L		JU		9.6	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Acrylonitrile	1.4	ug/L		JU		1.4	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Benzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Bromodichloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Bromoform	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Bromomethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Carbon disulfide	0.45	ug/L		JU		0.45	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Carbon tetrachloride	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Chlorobenzene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Chloroethane	0.41	ug/L		JU		0.41	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Chloroform	0.17	ug/L		J		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Chloromethane	0.3	ug/L		JU		0.3	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	cis-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	cis-1,3-Dichloropropene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Dibromochloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Dichlorodifluoromethane	0.31	ug/L		JU		0.31	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Ethyl cyanide	3.7	ug/L		JU		3.7	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Ethylbenzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Isobutanol	37	ug/L		JU		37	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	M + P Xylene	0.34	ug/L		JU		0.34	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Methylene chloride	0.32	ug/L		JU		0.32	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Styrene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Tetrachloroethene	0.2	ug/L		JU		0.2	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Toluene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Total Xylene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	trans-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Trichloroethene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Trichlorofluoromethane	0.29	ug/L		JU		0.29	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Vinyl acetate	0.94	ug/L		JU		0.94	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	WDPZ18CA-06-01	VOA	Vinyl chloride	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/20/2012
WD-PZ18CA	QW615	ANION	Chloride	62000	ug/L				1300	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW615	ANION	Fluoride	300	ug/L		U		300	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW615	ANION	Nitrate	1000	ug/L		B		210	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW615	ANION	Nitrite as Nitrogen	250	ug/L		U		250	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW615	ANION	Orthophosphate	940	ug/L		U		940	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW615	ANION	Sulfate	4700000	ug/L				23000	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18CA	QW622	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW622	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	2,4,5-T	0.105	ug/L		U		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	2,4,5-T	0.105	ug/L		JU		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	2,4-D	0.105	ug/L		U		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	2,4-D	0.105	ug/L		JU		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	2,4-DB	0.105	ug/L		U		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	2,4-DB	0.105	ug/L		JU		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	Dalapon	1.58	ug/L		U		1.58	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	Dalapon	1.58	ug/L		JU		1.58	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	Dicamba	0.105	ug/L		U		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	Dicamba	0.105	ug/L		JU		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	Dichloroprop	0.105	ug/L		U		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	Dichloroprop	0.105	ug/L		JU		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	Dinoseb	0.105	ug/L		U		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	Dinoseb	0.105	ug/L		JU		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	MCPA	13.9	ug/L		U		13.9	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	MCPA	13.9	ug/L		JU		13.9	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	MCPP	12.7	ug/L		U		12.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	MCPP	12.7	ug/L		JU		12.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	Silvex	0.105	ug/L		U		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	HERB	Silvex	0.105	ug/L		JU		0.105	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	2,4'-DDD	0.0061	ug/L		U		0.0061	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	2,4'-DDE	0.00732	ug/L		U		0.00732	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	2,4'-DDT	0.0061	ug/L		U		0.0061	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	4,4'-DDD	0.0122	ug/L		U		0.0122	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	4,4'-DDE	0.0122	ug/L		U		0.0122	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	4,4'-DDT	0.0122	ug/L		U		0.0122	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Aldrin	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	alpha-BHC	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	alpha-Chlordane	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	beta-BHC	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Chlordane	0.0933	ug/L		U		0.0933	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	delta-BHC	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Dieldrin	0.0122	ug/L		U		0.0122	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Endosulfan I	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Endosulfan II	0.0122	ug/L		U		0.0122	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Endosulfan sulfate	0.0122	ug/L		U		0.0122	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Endrin	0.0122	ug/L		U		0.0122	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Endrin aldehyde	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Endrin ketone	0.0122	ug/L		U		0.0122	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	gamma-Chlordane	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Heptachlor	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Heptachlor epoxide	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Lindane	0.00811	ug/L		U		0.00811	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18CA	QW619	PPCB	Methoxychlor	0.061	ug/L		U		0.061	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	PCB-1016	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	PCB-1221	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	PCB-1232	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	PCB-1242	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	PCB-1248	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	PCB-1254	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	PCB-1260	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	PCB-1268	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Polychlorinated biphenyl	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	PPCB	Toxaphene	0.183	ug/L		U		0.183	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Americium-241	0.00327	pCi/L	0.0111	U		0.00981	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Neptunium-237	0.0108	pCi/L	0.0163	U		0.0265	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Plutonium-238	0	pCi/L	0.00651	U		0.00704	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Plutonium-239/240	0	pCi/L	0.013	U		0.026	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Technetium-99	0.0119	pCi/L	0.298	U		0.515	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Thorium-228	0.0388	pCi/L	0.0273	U		0.0389	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Thorium-230	0.0232	pCi/L	0.0226	U		0.0344	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Thorium-232	0.0108	pCi/L	0.0133	U		0.0178	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Uranium-233/234	7.28	pCi/L	0.389			0.0784	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Uranium-235/236	0.126	pCi/L	0.0585			0.0199	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW621	RADS	Uranium-238	3.02	pCi/L	0.25			0.0379	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Benzo(a)pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18CA	QW619	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	bis(2-Chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Di-n-butyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Hexachlorobenzene	0.00762	ug/L		U		0.00762	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Isophorone	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	m+p Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Pentachlorophenol	0.0633	ug/L		U		0.0633	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Pentachlorophenol	0.0633	ug/L		JU		0.0633	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Phenol	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW619	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Acetone	5.5	ug/L		J		1.9	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Benzene	0.22	ug/L		J		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18CA	QW620	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	M + P Xylene	0.34	ug/L		U		0.34	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW620	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW615	WETCHEM	Alkalinity	1000	mg/L				1.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW615	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW615	WETCHEM	Alkalinity as HCO3	1000	mg/L				1.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW616	WETCHEM	Ammonium Nitrogen	0.62	mg/L				0.1	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW624	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW625	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	QW623	WETCHEM	Cyanide	0.0021	mg/L		B		0.002	WATER	WG	REG	BAI	12/6/2012
WD-PZ18CA	DC653	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Chloroform	0.27	ug/L		J		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18CA	DC653	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC653	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/26/2013
WD-PZ18CA	DC650	HERB	2,4,5-T	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	HERB	2,4-D	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	HERB	2,4-DB	0.108	ug/L		U		0.108	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	HERB	Dalapon	1.34	ug/L		U		1.34	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	HERB	Dicamba	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	HERB	Dichloroprop	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	HERB	Dinoseb	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	HERB	MCPA	11.8	ug/L		U		11.8	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	HERB	MCPP	10.8	ug/L		U		10.8	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	HERB	Silvex	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	2,4'-DDD	0.0061	ug/L		U		0.0061	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	2,4'-DDE	0.00732	ug/L		U		0.00732	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	2,4'-DDT	0.0061	ug/L		U		0.0061	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	4,4'-DDD	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	4,4'-DDE	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	4,4'-DDT	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Aldrin	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	alpha-BHC	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	alpha-Chlordane	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	beta-BHC	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Chlordane	0.0933	ug/L		U		0.0933	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	delta-BHC	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Dieldrin	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Endosulfan I	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Endosulfan II	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Endosulfan sulfate	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Endrin	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Endrin aldehyde	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Endrin ketone	0.0122	ug/L		U		0.0122	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	gamma-Chlordane	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Heptachlor	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Heptachlor epoxide	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Kepone	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Lindane	0.00811	ug/L		U		0.00811	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Methoxychlor	0.061	ug/L		U		0.061	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	PCB-1016	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	PCB-1221	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	PCB-1232	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/27/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18CA	DC650	PPCB	PCB-1242	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	PCB-1248	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	PCB-1254	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	PCB-1260	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	PCB-1268	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Polychlorinated biphenyl	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	PPCB	Toxaphene	0.183	ug/L		U		0.183	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	1,2,4-Trichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	1,2-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	1,3-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	1,4-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2,4,5-Trichlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2,4,6-Trichlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2,4-Dichlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2,4-Dimethylphenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2,4-Dinitrophenol	5.95	ug/L		U		5.95	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2,4-Dinitrotoluene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2,6-Dinitrotoluene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2-Chloronaphthalene	0.488	ug/L		U		0.488	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2-Chlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2-Methyl-4,6-dinitrophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2-Methylnaphthalene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2-Methylphenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	2-Nitrophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	3,3'-Dichlorobenzidine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	3-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	4-Aminobiphenyl	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	4-Bromophenyl phenyl ether	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	4-Chloro-3-methylphenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	4-Chlorobenzenamine	3.93	ug/L		U		3.93	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	4-Chlorophenyl phenyl ether	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	4-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	4-Nitrophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Acenaphthene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Acenaphthylene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Acetophenone	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Anthracene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Benz(a)anthracene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Benzenemethanol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Benzo(a)pyrene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Benzo(b)fluoranthene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Benzo(ghi)perylene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Benzo(k)fluoranthene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Benzoic acid	7.14	ug/L		U		7.14	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Bis(2-chloroethoxy)methane	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Bis(2-chloroethyl) ether	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Bis(2-chloroisopropyl)ether	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Bis(2-ethylhexyl)phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Butyl benzyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Chrysene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Dibenz(a,h)anthracene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Dibenzofuran	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Diethyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Dimethyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Di-n-butyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Di-n-octylphthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Diphenylamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Fluoranthene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Fluorene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ18CA	DC650	SVOA	Hexachlorobenzene	0.00762	ug/L		U		0.00762	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Hexachlorobutadiene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Hexachlorocyclopentadiene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Hexachloroethane	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Indeno(1,2,3-cd)pyrene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Isophorone	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	m,p-cresol	4.4	ug/L		U		4.4	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Naphthalene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Nitrobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	N-Nitrosodimethylamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	N-Nitroso-di-n-propylamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	N-Nitrosomorpholine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	O,O,O-Triethylphosphorothioate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Pentachlorophenol	0.0538	ug/L		U		0.0538	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Phenanthrene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Phenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Pyrene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	SVOA	Pyridine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ18CA	DC650	VOA	1,4-Dioxane	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/27/2013
WD-PZ19C	WDPZ19-01-01	ANION	Chloride	43000	ug/L				510	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-01-01	ANION	Fluoride	240	ug/L		B		120	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-01-01	ANION	Nitrate	1400	ug/L				84	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-01-01	ANION	Nitrite as Nitrogen	150	ug/L		B		98	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-01-01	ANION	Orthophosphate	370	ug/L		U		370	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-01-01	ANION	Sulfate	3000000	ug/L				23000	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	1.25	ng/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	ng/L		U		0.5	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0719	ng/L		J		2.5	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-31-01	DI/FURA	Octachlorodibenzofuran	2.5	ng/L		U		2.5	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	HERB	2,4,5-T	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	HERB	2,4-D	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	HERB	2,4-DB	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	HERB	Dalapon	1.25	ug/L		U		1.25	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	HERB	Dicamba	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	HERB	Dichloroprop	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	HERB	Dinoseb	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	HERB	MCPA	11	ug/L		U		11	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	HERB	MCPP	10	ug/L		U		10	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	HERB	Silvex	0.083	ug/L		U		0.083	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Aluminum	16	mg/L				0.018	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Antimony	0.0064	mg/L				0.0004	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Antimony	0.0024	mg/L				0.0004	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Arsenic	0.0048	mg/L		B		0.00033	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Arsenic	0.18	mg/L				0.00033	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Barium	0.018	mg/L				0.00029	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Barium	0.24	mg/L				0.00029	WATER	WG	REG	BAI	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ19C	WDPZ19-03-01	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Beryllium	0.0063	mg/L				0.00008	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Cadmium	0.0013	mg/L				0.0001	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Calcium	280	mg/L				0.035	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Calcium	270	mg/L				0.035	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Chromium	0.12	mg/L				0.0005	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Chromium, trivalent	0.12	mg/L				0.02	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Cobalt	0.079	mg/L				0.000054	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Cobalt	0.19	mg/L				0.000054	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Copper	0.0014	mg/L		B		0.00056	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Copper	0.15	mg/L				0.00056	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Iron	0.022	mg/L		U		0.022	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Iron	57	mg/L				0.022	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Lead	0.0004	mg/L		B		0.00018	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Lead	0.12	mg/L				0.00018	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Lithium	0.31	mg/L				0.0026	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Lithium	0.33	mg/L				0.0026	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Magnesium	820	mg/L				0.011	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Magnesium	730	mg/L				0.011	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Manganese	1.2	mg/L				0.00031	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Manganese	2.8	mg/L				0.00031	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Mercury	0.000036	mg/L		B		0.000027	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Nickel	0.25	mg/L				0.0003	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Nickel	0.49	mg/L				0.0003	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Potassium	30	mg/L				0.24	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Potassium	29	mg/L				0.24	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Selenium	0.014	mg/L				0.0007	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Selenium	0.012	mg/L				0.0007	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Silver	0.00017	mg/L		B		0.000033	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Sodium	270	mg/L				0.092	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Sodium	250	mg/L				0.092	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Strontium	5.2	mg/L				0.0003	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Strontium	4.9	mg/L				0.0003	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Thallium	0.00006	mg/L		B		0.00005	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Thallium	0.00069	mg/L		B		0.00005	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Titanium	0.12	mg/L				0.0006	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Uranium	0.016	mg/L				0.00005	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Uranium	0.017	mg/L				0.00005	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Vanadium	0.16	mg/L				0.0005	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-03-01	METAL	Zinc	0.01	mg/L				0.002	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-04-01	METAL	Zinc	0.49	mg/L				0.002	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	2,4'-DDD	0.00208	ug/L		U		0.00208	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	2,4'-DDE	0.0025	ug/L		U		0.0025	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	2,4'-DDT	0.00208	ug/L		U		0.00208	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	4,4'-DDD	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	4,4'-DDE	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	4,4'-DDT	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Aldrin	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	alpha-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	alpha-Chlordane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	beta-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ19C	WDPZ19-05-01	PPCB	Chlordane	0.0319	ug/L		U		0.0319	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	delta-BHC	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Dieldrin	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Endosulfan I	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Endosulfan II	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Endosulfan sulfate	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Endrin	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Endrin aldehyde	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Endrin ketone	0.00417	ug/L		U		0.00417	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	gamma-Chlordane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Heptachlor	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Heptachlor epoxide	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Kepone	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Lindane	0.00277	ug/L		U		0.00277	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Methoxychlor	0.0208	ug/L		U		0.0208	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	PCB-1016	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	PCB-1221	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	PCB-1232	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	PCB-1242	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	PCB-1248	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	PCB-1254	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	PCB-1260	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	PCB-1268	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Polychlorinated biphenyl	0.0387	ug/L		U		0.0387	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	PPCB	Toxaphene	0.0625	ug/L		U		0.0625	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Americium-241	0.0721	pCi/L	0.316	U	U	0.552	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Neptunium-237	-0.199	pCi/L	0.29	U	U	0.733	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Plutonium-238	0.156	pCi/L	0.27	U	U	0.399	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Plutonium-239/240	0.0521	pCi/L	0.177	U	U	0.156	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Technetium-99	0.0548	pCi/L	0.462	U	U	0.811	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Thorium-228	21.6	pCi/L	4.27		J	2.65	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Thorium-230	13	pCi/L	3.31		J	2.28	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Thorium-232	21.6	pCi/L	4.08		J	1.49	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Uranium-233/234	28.4	pCi/L	1.55		J	0.179	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Uranium-235/236	0.623	pCi/L	0.26		J	0.0813	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-09-01	RADS	Uranium-238	18.1	pCi/L	1.23		J	0.105	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	1,2,4-Trichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	1,2-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	1,3-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	1,4-Dichlorobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2,4,5-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2,4,6-Trichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2,4-Dichlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2,4-Dimethylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2,4-Dinitrophenol	5	ug/L		U		5	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2,4-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2,6-Dinitrotoluene	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2-Chloronaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2-Chlorophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2-Methyl-4,6-dinitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2-Methylnaphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2-Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	2-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	3,3'-Dichlorobenzidine	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	3-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	4-Aminobiphenyl	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	4-Bromophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	4-Chloro-3-methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	4-Chlorobenzenamine	3.3	ug/L		U		3.3	WATER	WG	REG	BAI	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ19C	WDPZ19-05-01	SVOA	4-Chlorophenyl phenyl ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	4-Nitrobenzenamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	4-Nitrophenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Acenaphthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Acenaphthylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Acetophenone	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Benz(a)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Benzenemethanol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Benzo(a)pyrene	0.44	ug/L		U		0.44	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Benzo(b)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Benzo(ghi)perylene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Benzo(k)fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Benzoic acid	6	ug/L		U		6	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Bis(2-chloroethoxy)methane	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Bis(2-chloroethyl) ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	bis(2-Chloroisopropyl)ether	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Bis(2-ethylhexyl)phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Butyl benzyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Chrysene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Dibenz(a,h)anthracene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Dibenzofuran	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Diethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Dimethyl phthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Di-n-butyl phthalate	27.3	ug/L		B		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Di-n-octylphthalate	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Diphenylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Fluoranthene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Fluorene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Hexachlorobenzene	0.0026	ug/L		U		0.0026	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Hexachlorobutadiene	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Hexachlorocyclopentadiene	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Hexachloroethane	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Indeno(1,2,3-cd)pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Isophorone	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	m+p Methylphenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Naphthalene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Nitrobenzene	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	N-Nitrosodimethylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	N-Nitroso-di-n-propylamine	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	N-Nitrosomorpholine	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	O,O,O-Triethylphosphorothioate	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Pentachlorophenol	0.05	ug/L		U		0.05	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Phenanthrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Phenol	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Pyrene	0.3	ug/L		U		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-05-01	SVOA	Pyridine	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,1,1-Trichloroethane	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		JU		0.42	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,1,2-Trichloroethane	0.27	ug/L		JU		0.27	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,1-Dichloroethane	0.22	ug/L		JU		0.22	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,1-Dichloroethene	0.23	ug/L		JU		0.23	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,2,3-Trichloropropane	0.33	ug/L		JU		0.33	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		JU		0.47	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,2-Dichloroethane	0.13	ug/L		JU		0.13	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,2-Dichloroethene	0.24	ug/L		JU		0.24	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,2-Dichloropropane	0.18	ug/L		JU		0.18	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	1,2-Dimethylbenzene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/24/2012

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ19C	WDPZ19-05-01	VOA	1,4-Dioxane	3	ug/L		U		3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	2-Butanone	2	ug/L		JU		2	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	2-Hexanone	1.7	ug/L		JU		1.7	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	4-Methyl-2-pentanone	0.98	ug/L		JU		0.98	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Acetone	1.9	ug/L		JU		1.9	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Acetonitrile	9.6	ug/L		JU		9.6	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Acrylonitrile	1.4	ug/L		JU		1.4	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Benzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Bromodichloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Bromoform	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Bromomethane	0.21	ug/L		JU		0.21	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Carbon disulfide	0.45	ug/L		JU		0.45	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Carbon tetrachloride	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Chlorobenzene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Chloroethane	0.41	ug/L		JU		0.41	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Chloroform	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Chloromethane	0.3	ug/L		JU		0.3	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	cis-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	cis-1,3-Dichloropropene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Dibromochloromethane	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Dichlorodifluoromethane	0.31	ug/L		JU		0.31	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Ethyl cyanide	3.7	ug/L		JU		3.7	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Ethylbenzene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Isobutanol	37	ug/L		JU		37	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	M + P Xylene	0.34	ug/L		JU		0.34	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Methylene chloride	0.32	ug/L		JU		0.32	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Styrene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Tetrachloroethene	0.2	ug/L		JU		0.2	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Toluene	0.17	ug/L		JU		0.17	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Total Xylene	0.19	ug/L		JU		0.19	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	trans-1,2-Dichloroethene	0.15	ug/L		JU		0.15	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Trichloroethene	0.16	ug/L		JU		0.16	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Trichlorofluoromethane	0.29	ug/L		JU		0.29	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Vinyl acetate	0.94	ug/L		JU		0.94	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-06-01	VOA	Vinyl chloride	0.1	ug/L		JU		0.1	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-01-01	WETCHEM	Alkalinity	1200	mg/L				1.1	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-01-01	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-01-01	WETCHEM	Alkalinity as HCO3	1200	mg/L				1.1	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-02-01	WETCHEM	Ammonium Nitrogen	0.92	mg/L				0.1	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-01-01	WETCHEM	Chromium, hexavalent	0.004	mg/L		JU		0.004	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-32-01	WETCHEM	Cyanide	0.0063	mg/L		B		0.002	WATER	WG	REG	BAI	9/24/2012
WD-PZ19C	WDPZ19-37-01	WETCHEM	Chromium, hexavalent	0.0051	mg/L		BJ		0.004	WATER	WG	REG	BAI	9/26/2012
WD-PZ19C	DC662	HERB	2,4,5-T	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	HERB	2,4-D	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	HERB	2,4-DB	0.104	ug/L		U		0.104	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	HERB	Dalapon	1.3	ug/L		U		1.3	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	HERB	Dicamba	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	HERB	Dichloroprop	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	HERB	Dinoseb	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	HERB	MCPA	11.5	ug/L		U		11.5	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	HERB	MCPP	10.4	ug/L		U		10.4	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	HERB	Silvex	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	2,4'-DDD	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	2,4'-DDE	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	2,4'-DDT	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	4,4'-DDD	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	4,4'-DDE	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	4,4'-DDT	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Aldrin	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	alpha-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ19C	DC662	PPCB	alpha-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	beta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Chlordane	0.0814	ug/L		U		0.0814	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	delta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Dieldrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Endosulfan I	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Endosulfan II	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Endosulfan sulfate	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Endrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Endrin aldehyde	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Endrin ketone	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	gamma-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Heptachlor	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Heptachlor epoxide	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Kepone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Lindane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Methoxychlor	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	PCB-1016	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	PCB-1221	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	PCB-1232	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	PCB-1242	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	PCB-1248	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	PCB-1254	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	PCB-1260	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	PCB-1268	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Polychlorinated biphenyl	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	PPCB	Toxaphene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	1,2,4-Trichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	1,2-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	1,3-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	1,4-Dichlorobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2,4,5-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2,4,6-Trichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2,4-Dichlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2,4-Dimethylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2,4-Dinitrophenol	5.68	ug/L		U		5.68	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2,4-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2,6-Dinitrotoluene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2-Chloronaphthalene	0.466	ug/L		U		0.466	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2-Chlorophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2-Methyl-4,6-dinitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2-Methylnaphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2-Methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	2-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	3,3'-Dichlorobenzidine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	3-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	4-Aminobiphenyl	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	4-Bromophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	4-Chloro-3-methylphenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	4-Chlorobenzenamine	3.75	ug/L		U		3.75	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	4-Chlorophenyl phenyl ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	4-Nitrobenzenamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	4-Nitrophenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Acenaphthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Acenaphthylene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Acetophenone	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Benz(a)anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Benzenemethanol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ19C	DC662	SVOA	Benzo(a)pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Benzo(b)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Benzo(ghi)perylene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Benzo(k)fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Benzoic acid	6.82	ug/L		U		6.82	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Bis(2-chloroethoxy)methane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Bis(2-chloroethyl) ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Bis(2-chloroisopropyl)ether	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Bis(2-ethylhexyl)phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Butyl benzyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Chrysene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Dibenz(a,h)anthracene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Dibenzofuran	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Diethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Dimethyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Di-n-butyl phthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Di-n-octylphthalate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Diphenylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Fluoranthene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Fluorene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Hexachlorobenzene	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Hexachlorobutadiene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Hexachlorocyclopentadiene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Hexachloroethane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Indeno(1,2,3-cd)pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Isophorone	3.98	ug/L		U		3.98	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	m,p-cresol	4.2	ug/L		U		4.2	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Naphthalene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Nitrobenzene	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	N-Nitrosodimethylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	N-Nitroso-di-n-propylamine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	N-Nitrosomorpholine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	O,O,O-Triethylphosphorothioate	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Pentachlorophenol	0.0521	ug/L		U		0.0521	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Phenanthrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Phenol	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Pyrene	0.341	ug/L		U		0.341	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	SVOA	Pyridine	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC662	VOA	1,4-Dioxane	3.41	ug/L		U		3.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ19C	DC665	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Chloroform	0.2	ug/L		J		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC665	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0186	ng/L		U		0.0186	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00372	ng/L		U		0.00372	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00372	ng/L		U		0.00372	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0372	ng/L		U		0.0372	WATER	WG	REG	BP	6/26/2013
WD-PZ19C	DC663	DI/FURA	Octachlorodibenzofuran	0.0372	ng/L		U		0.0372	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	HERB	2,4,5-T	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	HERB	2,4-D	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	HERB	2,4-DB	0.104	ug/L		U		0.104	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	HERB	Dalapon	1.3	ug/L		U		1.3	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	HERB	Dicamba	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	HERB	Dichloroprop	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	HERB	Dinoseb	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	HERB	MCPA	11.5	ug/L		U		11.5	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	HERB	MCPP	10.4	ug/L		U		10.4	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	HERB	Silvex	0.0865	ug/L		U		0.0865	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	2,4'-DDD	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ20C	DC673	PPCB	2,4'-DDE	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	2,4'-DDT	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	4,4'-DDD	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	4,4'-DDE	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	4,4'-DDT	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Aldrin	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	alpha-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	alpha-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	beta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Chlordane	0.0814	ug/L		U		0.0814	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	delta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Dieldrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Endosulfan I	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Endosulfan II	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Endosulfan sulfate	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Endrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Endrin aldehyde	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Endrin ketone	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	gamma-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Heptachlor	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Heptachlor epoxide	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Kepone	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Lindane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Methoxychlor	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	PCB-1016	0.0463	ug/L		U		0.0463	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	PCB-1221	0.0463	ug/L		U		0.0463	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	PCB-1232	0.0463	ug/L		U		0.0463	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	PCB-1242	0.0463	ug/L		U		0.0463	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	PCB-1248	0.0463	ug/L		U		0.0463	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	PCB-1254	0.0463	ug/L		U		0.0463	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	PCB-1260	0.0463	ug/L		U		0.0463	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	PCB-1268	0.0463	ug/L		U		0.0463	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Polychlorinated biphenyl	0.0463	ug/L		U		0.0463	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	PPCB	Toxaphene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	1,2,4-Trichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	1,2-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	1,3-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	1,4-Dichlorobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2,4,5-Trichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2,4,6-Trichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2,4-Dichlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2,4-Dimethylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2,4-Dinitrophenol	5.88	ug/L		U		5.88	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2,4-Dinitrotoluene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2,6-Dinitrotoluene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2-Chloronaphthalene	0.482	ug/L		U		0.482	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2-Chlorophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2-Methyl-4,6-dinitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2-Methylnaphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2-Methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	2-Nitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	3,3'-Dichlorobenzidine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	3-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	4-Aminobiphenyl	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	4-Bromophenyl phenyl ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	4-Chloro-3-methylphenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	4-Chlorobenzenamine	3.88	ug/L		U		3.88	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	4-Chlorophenyl phenyl ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	4-Nitrobenzenamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ20C	DC673	SVOA	4-Nitrophenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Acenaphthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Acenaphthylene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Acetophenone	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Benz(a)anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Benzenemethanol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Benzo(a)pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Benzo(b)fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Benzo(ghi)perylene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Benzo(k)fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Benzoic acid	7.06	ug/L		U		7.06	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Bis(2-chloroethoxy)methane	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Bis(2-chloroethyl) ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Bis(2-chloroisopropyl)ether	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Bis(2-ethylhexyl)phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Butyl benzyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Chrysene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Dibenz(a,h)anthracene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Dibenzofuran	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Diethyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Dimethyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Di-n-butyl phthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Di-n-octylphthalate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Diphenylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Fluoranthene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Fluorene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Hexachlorobenzene	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Hexachlorobutadiene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Hexachlorocyclopentadiene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Hexachloroethane	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Indeno(1,2,3-cd)pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Isophorone	4.12	ug/L		U		4.12	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	m,p-cresol	4.35	ug/L		U		4.35	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Naphthalene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Nitrobenzene	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	N-Nitrosodimethylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	N-Nitroso-di-n-propylamine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	N-Nitrosomorpholine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	O,O,O-Triethylphosphorothioate	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Pentachlorophenol	0.0521	ug/L		U		0.0521	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Phenanthrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Phenol	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Pyrene	0.353	ug/L		U		0.353	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	SVOA	Pyridine	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC673	VOA	1,4-Dioxane	3.53	ug/L		U		3.53	WATER	WG	REG	BP	6/26/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ20C	DC676	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Chloroform	0.31	ug/L		J		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/26/2013
WD-PZ20C	DC676	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/26/2013
WD-PZ23C	DC684	HERB	2,4,5-T	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	HERB	2,4-D	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	HERB	2,4-DB	0.105	ug/L		U		0.105	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	HERB	Dalapon	1.32	ug/L		U		1.32	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	HERB	Dicamba	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	HERB	Dichloroprop	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	HERB	Dinoseb	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	HERB	MCPA	11.6	ug/L		U		11.6	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	HERB	MCPP	10.5	ug/L		U		10.5	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	HERB	Silvex	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	2,4'-DDD	0.00521	ug/L		U		0.00521	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	2,4'-DDE	0.00625	ug/L		U		0.00625	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	2,4'-DDT	0.00521	ug/L		U		0.00521	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	4,4'-DDD	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	4,4'-DDE	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	4,4'-DDT	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Aldrin	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	alpha-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	alpha-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	beta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Chlordane	0.0797	ug/L		U		0.0797	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ23C	DC684	PPCB	delta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Dieldrin	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Endosulfan I	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Endosulfan II	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Endosulfan sulfate	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Endrin	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Endrin aldehyde	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Endrin ketone	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	gamma-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Heptachlor	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Heptachlor epoxide	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Lindane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Methoxychlor	0.0521	ug/L		U		0.0521	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	PPCB	Toxaphene	0.156	ug/L		U		0.156	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	SVOA	Hexachlorobenzene	0.00651	ug/L		U		0.00651	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC684	SVOA	Pentachlorophenol	0.0526	ug/L		U		0.0526	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Acetone	1.9	ug/L		J		1.9	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Bromodichloromethane	0.17	ug/L		J		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Chloroform	0.54	ug/L		J		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Methylene chloride	0.48	ug/L		BJ		0.32	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ23C	DC687	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/25/2013
WD-PZ23C	DC687	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ24C	DC689	ANION	Chloride	27	mg/L				0.25	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC689	ANION	Fluoride	0.14	mg/L		B		0.06	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC689	ANION	Nitrate	0.14	mg/L		B		0.042	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC689	ANION	Nitrite as Nitrogen	0.049	mg/L		U		0.049	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC689	ANION	Orthophosphate	0.19	mg/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC689	ANION	Sulfate	870	mg/L				12	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0187	ng/L		U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00375	ng/L		U		0.00375	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00375	ng/L		U		0.00375	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0375	ng/L		U		0.0375	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC696	DI/FURA	Octachlorodibenzofuran	0.0375	ng/L		U		0.0375	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	HERB	2,4,5-T	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	HERB	2,4-D	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	HERB	2,4-DB	0.108	ug/L		U		0.108	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	HERB	Dalapon	1.34	ug/L		U		1.34	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	HERB	Dicamba	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	HERB	Dichloroprop	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	HERB	Dinoseb	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	HERB	MCPA	11.8	ug/L		U		11.8	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	HERB	MCPP	10.8	ug/L		U		10.8	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	HERB	Silvex	0.0892	ug/L		U		0.0892	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Aluminum	0.084	mg/L		B		0.018	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Aluminum	0.31	mg/L				0.018	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Arsenic	0.0017	mg/L		B		0.00033	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Arsenic	0.0024	mg/L		B		0.00033	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Barium	0.02	mg/L				0.00029	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Barium	0.025	mg/L				0.00029	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Calcium	110	mg/L				0.035	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Calcium	120	mg/L				0.035	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Chromium	0.00085	mg/L		B		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ24C	DC691	METAL	Cobalt	0.0012	mg/L				0.000054	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Cobalt	0.0019	mg/L				0.000054	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Copper	0.0019	mg/L		B		0.00056	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Copper	0.0032	mg/L				0.00056	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Iron	3	mg/L				0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Iron	3.6	mg/L				0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Lead	0.00027	mg/L		B		0.00018	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Lead	0.00069	mg/L		B		0.00018	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Lithium	0.11	mg/L				0.0026	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Lithium	0.12	mg/L				0.0026	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Magnesium	170	mg/L				0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Magnesium	190	mg/L				0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Manganese	0.18	mg/L				0.00031	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Manganese	0.2	mg/L				0.00031	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Nickel	0.0051	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Nickel	0.0092	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Potassium	14	mg/L				0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Potassium	17	mg/L				0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Sodium	150	mg/L				0.092	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Sodium	160	mg/L				0.092	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Strontium	2.8	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Strontium	3.1	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Titanium	0.0011	mg/L		B		0.0006	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Titanium	0.0045	mg/L		B		0.0006	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Uranium	0.00017	mg/L		B		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Uranium	0.00027	mg/L		B		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Vanadium	0.0005	mg/L		B		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Vanadium	0.00091	mg/L		B		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC691	METAL	Zinc	0.0026	mg/L		B		0.002	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC692	METAL	Zinc	0.0046	mg/L		B		0.002	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	2,4'-DDD	0.00543	ug/L		U		0.00543	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	2,4'-DDD	0.00549	ug/L		JU		0.00549	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	2,4'-DDE	0.00652	ug/L		U		0.00652	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	2,4'-DDE	0.00659	ug/L		JU		0.00659	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	2,4'-DDT	0.00543	ug/L		U		0.00543	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	2,4'-DDT	0.00549	ug/L		JU		0.00549	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	4,4'-DDD	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	4,4'-DDD	0.011	ug/L		JU		0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	4,4'-DDE	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	4,4'-DDE	0.011	ug/L		JU		0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	4,4'-DDT	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	4,4'-DDT	0.011	ug/L		JU		0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Aldrin	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Aldrin	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	alpha-BHC	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	alpha-BHC	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	alpha-Chlordane	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	alpha-Chlordane	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	beta-BHC	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	beta-BHC	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ24C	DC695	PPCB	Chlordane	0.0832	ug/L		U		0.0832	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Chlordane	0.0841	ug/L		JU		0.0841	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	delta-BHC	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	delta-BHC	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Dieldrin	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Dieldrin	0.011	ug/L		JU		0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endosulfan I	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endosulfan I	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endosulfan II	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endosulfan II	0.011	ug/L		JU		0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endosulfan sulfate	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endosulfan sulfate	0.011	ug/L		JU		0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endrin	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endrin	0.011	ug/L		JU		0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endrin aldehyde	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endrin aldehyde	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endrin ketone	0.0109	ug/L		U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Endrin ketone	0.011	ug/L		JU		0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	gamma-Chlordane	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	gamma-Chlordane	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Heptachlor	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Heptachlor	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Heptachlor epoxide	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Heptachlor epoxide	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Kepone	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Lindane	0.00723	ug/L		U		0.00723	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Lindane	0.00731	ug/L		JU		0.00731	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Methoxychlor	0.0543	ug/L		U		0.0543	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Methoxychlor	0.0549	ug/L		JU		0.0549	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	PCB-1016	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	PCB-1221	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	PCB-1232	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	PCB-1242	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	PCB-1248	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	PCB-1254	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	PCB-1260	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	PCB-1268	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Polychlorinated biphenyl	0.0416	ug/L		U		0.0416	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Toxaphene	0.163	ug/L		U		0.163	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	PPCB	Toxaphene	0.165	ug/L		JU		0.165	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Americium-241	0	pCi/L	0.0173	U		0.0187	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Neptunium-237	0	pCi/L	0.0145	U		0.0284	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Plutonium-238	0	pCi/L	0.01	U		0.0109	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Plutonium-239/240	0.00724	pCi/L	0.0201	U		0.0347	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Technetium-99	0.521	pCi/L	0.413	U		0.678	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Thorium-228	0.0413	pCi/L	0.0219			0.0189	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Thorium-230	0.0756	pCi/L	0.0306			0.031	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Thorium-232	0.0374	pCi/L	0.0198			0.0112	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Uranium-233/234	0.185	pCi/L	0.0759			0.0231	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Uranium-235/236	-0.00481	pCi/L	0.0229	U		0.0559	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC699	RADS	Uranium-238	0.0732	pCi/L	0.0512			0.0452	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	1,2,4-Trichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	1,2-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	1,3-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	1,4-Dichlorobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2,4,5-Trichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2,4,6-Trichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2,4-Dichlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2,4-Dimethylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2,4-Dinitrophenol	5.38	ug/L		U		5.38	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ24C	DC695	SVOA	2,4-Dinitrotoluene	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2,6-Dinitrotoluene	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2-Chloronaphthalene	0.441	ug/L		U		0.441	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2-Chlorophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2-Methyl-4,6-dinitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2-Methylnaphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2-Methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	2-Nitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	3,3'-Dichlorobenzidine	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	3-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	4-Aminobiphenyl	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	4-Bromophenyl phenyl ether	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	4-Chloro-3-methylphenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	4-Chlorobenzenamine	3.55	ug/L		U		3.55	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	4-Chlorophenyl phenyl ether	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	4-Nitrobenzenamine	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	4-Nitrophenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Acenaphthene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Acenaphthylene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Acetophenone	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Benz(a)anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Benzenemethanol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Benzo(a)pyrene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Benzo(b)fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Benzo(ghi)perylene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Benzo(k)fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Benzoic acid	6.45	ug/L		U		6.45	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Bis(2-chloroethoxy)methane	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Bis(2-chloroethyl) ether	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Bis(2-chloroisopropyl)ether	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Bis(2-ethylhexyl)phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Butyl benzyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Chrysene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Dibenz(a,h)anthracene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Dibenzofuran	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Diethyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Dimethyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Di-n-butyl phthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Di-n-octylphthalate	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Diphenylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Fluoranthene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Fluorene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Hexachlorobenzene	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Hexachlorobenzene	0.00687	ug/L		JU		0.00687	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Hexachlorobutadiene	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Hexachlorocyclopentadiene	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Hexachloroethane	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Indeno(1,2,3-cd)pyrene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Isophorone	3.76	ug/L		U		3.76	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	m,p-cresol	3.98	ug/L		U		3.98	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Naphthalene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Nitrobenzene	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	N-Nitrosodimethylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	N-Nitroso-di-n-propylamine	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	N-Nitrosomorpholine	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	O,O,O-Triethylphosphorothioate	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Pentachlorophenol	0.0538	ug/L		U		0.0538	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Phenanthrene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ24C	DC695	SVOA	Phenol	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Pyrene	0.323	ug/L		U		0.323	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	SVOA	Pyridine	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC695	VOA	1,4-Dioxane	3.23	ug/L		U		3.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Chloroform	0.22	ug/L		J		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC698	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC689	WETCHEM	Alkalinity	420	mg/L				1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC689	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC689	WETCHEM	Alkalinity as HCO3	420	mg/L				1.1	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ24C	DC690	WETCHEM	Ammonia	2	mg/L				0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC690	WETCHEM	Ammonium Nitrogen	2	mg/L				0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC693	WETCHEM	Chromium, hexavalent	0.016	mg/L		B		0.004	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC694	WETCHEM	Chromium, hexavalent	0.064	mg/L				0.004	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC697	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/24/2013
WD-PZ24C	DC689	WETCHEM	Dissolved Solids	1700	mg/L				9.4	WATER	WG	REG	BP	6/24/2013
WD-PZ25C	DC700	ANION	Chloride	45	mg/L				0.51	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC700	ANION	Fluoride	0.18	mg/L		B		0.12	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC700	ANION	Nitrate	0.2	mg/L		B		0.084	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC700	ANION	Nitrite as Nitrogen	0.098	mg/L		U		0.098	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC700	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC700	ANION	Sulfate	2400	mg/L				23	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0198	ng/L		U		0.0198	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00397	ng/L		U		0.00397	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00397	ng/L		U		0.00397	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0397	ng/L		U		0.0397	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC707	DI/FURA	Octachlorodibenzofuran	0.0397	ng/L		U		0.0397	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	HERB	2,4,5-T	0.111	ug/L		U		0.111	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	HERB	2,4-D	0.111	ug/L		U		0.111	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	HERB	2,4-DB	0.133	ug/L		U		0.133	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	HERB	Dalapon	1.67	ug/L		U		1.67	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	HERB	Dicamba	0.111	ug/L		U		0.111	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	HERB	Dichloroprop	0.111	ug/L		U		0.111	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	HERB	Dinoseb	0.111	ug/L		U		0.111	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	HERB	MCPA	14.7	ug/L		U		14.7	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	HERB	MCPP	13.3	ug/L		U		13.3	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	HERB	Silvex	0.111	ug/L		U		0.111	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Aluminum	1.5	mg/L				0.018	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Aluminum	16	mg/L				0.018	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Antimony	0.00041	mg/L		B		0.0004	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Arsenic	0.011	mg/L				0.00033	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Arsenic	0.026	mg/L				0.00033	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Barium	0.021	mg/L				0.00029	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Barium	0.049	mg/L				0.00029	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Beryllium	0.00015	mg/L		B		0.00008	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Beryllium	0.00087	mg/L		B		0.00008	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Cadmium	0.00013	mg/L		B		0.0001	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Calcium	260	mg/L				0.035	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Calcium	300	mg/L				0.035	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Chromium	0.0041	mg/L				0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Chromium	0.025	mg/L				0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Cobalt	0.013	mg/L				0.000054	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Cobalt	0.021	mg/L				0.000054	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Copper	0.0039	mg/L				0.00056	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ25C	DC703	METAL	Copper	0.021	mg/L				0.00056	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Iron	4	mg/L				0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Iron	31	mg/L				0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Lead	0.0025	mg/L				0.00018	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Lead	0.013	mg/L				0.00018	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Lithium	0.22	mg/L				0.0026	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Lithium	0.32	mg/L				0.0026	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Magnesium	410	mg/L				0.011	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Magnesium	480	mg/L				0.011	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Manganese	1.3	mg/L				0.00031	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Manganese	1.6	mg/L				0.00031	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Nickel	0.072	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Nickel	0.084	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Potassium	20	mg/L				0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Potassium	24	mg/L				0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Selenium	0.0013	mg/L		B		0.0007	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Silver	0.000043	mg/L		B		0.000033	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Sodium	310	mg/L				0.092	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Sodium	340	mg/L				0.092	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Strontium	5.8	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Strontium	6.6	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Thallium	0.000073	mg/L		B		0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Thallium	0.00015	mg/L		B		0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Titanium	0.018	mg/L				0.0006	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Titanium	0.12	mg/L				0.0006	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Uranium	0.0013	mg/L				0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Uranium	0.002	mg/L				0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Vanadium	0.0051	mg/L				0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Vanadium	0.034	mg/L				0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC702	METAL	Zinc	0.014	mg/L				0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC703	METAL	Zinc	0.073	mg/L				0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	2,4'-DDD	0.0051	ug/L		U		0.0051	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	2,4'-DDE	0.00612	ug/L		U		0.00612	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	2,4'-DDT	0.0051	ug/L		U		0.0051	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	4,4'-DDD	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	4,4'-DDE	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	4,4'-DDT	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Aldrin	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	alpha-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	alpha-Chlordane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	beta-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Chlordane	0.0781	ug/L		U		0.0781	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	delta-BHC	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Dieldrin	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Endosulfan I	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Endosulfan II	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Endosulfan sulfate	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Endrin	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Endrin aldehyde	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Endrin ketone	0.0102	ug/L		U		0.0102	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	gamma-Chlordane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Heptachlor	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Heptachlor epoxide	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Kepone	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ25C	DC706	PPCB	Lindane	0.00679	ug/L		U		0.00679	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Methoxychlor	0.051	ug/L		U		0.051	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	PCB-1016	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	PCB-1221	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	PCB-1232	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	PCB-1242	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	PCB-1248	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	PCB-1254	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	PCB-1260	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	PCB-1268	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Polychlorinated biphenyl	0.0347	ug/L		U		0.0347	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	PPCB	Toxaphene	0.153	ug/L		U		0.153	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Americium-241	0.00606	pCi/L	0.0206	U		0.0182	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Neptunium-237	0	pCi/L	0.0221	U		0.0435	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Plutonium-238	0	pCi/L	0.0123	U		0.0133	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Plutonium-239/240	0.00442	pCi/L	0.0194	U		0.0338	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Technetium-99	0.676	pCi/L	0.439	U		0.708	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Thorium-228	1.11	pCi/L	0.12			0.0407	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Thorium-230	0.516	pCi/L	0.0852			0.0565	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Thorium-232	1.08	pCi/L	0.116			0.0254	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Uranium-233/234	1.47	pCi/L	0.193			0.0196	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Uranium-235/236	0.0404	pCi/L	0.0396			0.0243	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC710	RADS	Uranium-238	0.824	pCi/L	0.145			0.0196	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	1,2,4-Trichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	1,2-Dichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	1,3-Dichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	1,4-Dichlorobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2,4,5-Trichlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2,4,6-Trichlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2,4-Dichlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2,4-Dimethylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2,4-Dinitrophenol	5.81	ug/L		U		5.81	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2,4-Dinitrotoluene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2,6-Dinitrotoluene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2-Chloronaphthalene	0.477	ug/L		U		0.477	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2-Chlorophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2-Methyl-4,6-dinitrophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2-Methylnaphthalene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2-Methylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2-Nitrobenzenamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	2-Nitrophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	3,3'-Dichlorobenzidine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	3-Nitrobenzenamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	4-Aminobiphenyl	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	4-Bromophenyl phenyl ether	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	4-Chloro-3-methylphenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	4-Chlorobenzenamine	3.84	ug/L		U		3.84	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	4-Chlorophenyl phenyl ether	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	4-Nitrobenzenamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	4-Nitrophenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Acenaphthene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Acenaphthylene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Acetophenone	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Anthracene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Benz(a)anthracene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Benzenemethanol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Benzo(a)pyrene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Benzo(b)fluoranthene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Benzo(ghi)perylene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Benzo(k)fluoranthene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ25C	DC706	SVOA	Benzoic acid	6.98	ug/L		U		6.98	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Bis(2-chloroethoxy)methane	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Bis(2-chloroethyl) ether	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Bis(2-chloroisopropyl)ether	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Bis(2-ethylhexyl)phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Butyl benzyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Chrysene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Dibenz(a,h)anthracene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Dibenzofuran	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Diethyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Dimethyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Di-n-butyl phthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Di-n-octylphthalate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Diphenylamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Fluoranthene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Fluorene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Hexachlorobenzene	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Hexachlorobutadiene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Hexachlorocyclopentadiene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Hexachloroethane	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Indeno(1,2,3-cd)pyrene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Isophorone	4.07	ug/L		U		4.07	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	m,p-cresol	4.3	ug/L		U		4.3	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Naphthalene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Nitrobenzene	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	N-Nitrosodimethylamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	N-Nitroso-di-n-propylamine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	N-Nitrosomorpholine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	O,O,O-Triethylphosphorothioate	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Pentachlorophenol	0.0667	ug/L		U		0.0667	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Phenanthrene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Phenol	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Pyrene	0.349	ug/L		U		0.349	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	SVOA	Pyridine	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC706	VOA	1,4-Dioxane	3.49	ug/L		U		3.49	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ25C	DC709	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC709	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC700	WETCHEM	Alkalinity	830	mg/L				1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC700	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC700	WETCHEM	Alkalinity as HCO3	830	mg/L				1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC701	WETCHEM	Ammonia	1.1	mg/L				0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC701	WETCHEM	Ammonium Nitrogen	1.1	mg/L				0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC704	WETCHEM	Chromium, hexavalent	0.02	mg/L		J		0.004	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC705	WETCHEM	Chromium, hexavalent	0.076	mg/L		J		0.004	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC708	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC823	WETCHEM	Dissolved Solids	4100	mg/L				19	WATER	WG	REG	BP	6/25/2013
WD-PZ25C	DC700	WETCHEM	Dissolved Solids	4200	mg/L				19	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC803	ANION	Chloride	45	mg/L				0.51	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC803	ANION	Fluoride	0.21	mg/L		B		0.12	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC803	ANION	Nitrate	0.22	mg/L		B		0.084	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC803	ANION	Nitrite as Nitrogen	0.098	mg/L		U		0.098	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC803	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC803	ANION	Sulfate	2400	mg/L				12	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0218	ng/L		U		0.0218	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00437	ng/L		U		0.00437	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00437	ng/L		U		0.00437	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC810	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0437	ng/L		U		0.0437	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ26C	DC810	DI/FURA	Octachlorodibenzofuran	0.0437	ng/L		U		0.0437	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	HERB	2,4,5-T	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	HERB	2,4-D	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	HERB	2,4-DB	0.106	ug/L		U		0.106	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	HERB	Dalapon	1.33	ug/L		U		1.33	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	HERB	Dicamba	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	HERB	Dichloroprop	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	HERB	Dinoseb	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	HERB	MCPA	11.7	ug/L		U		11.7	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	HERB	MCPP	10.6	ug/L		U		10.6	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	HERB	Silvex	0.0883	ug/L		U		0.0883	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Aluminum	0.12	mg/L				0.018	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Aluminum	1.1	mg/L				0.018	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Arsenic	0.00061	mg/L		B		0.00033	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Arsenic	0.0024	mg/L		B		0.00033	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Barium	0.024	mg/L				0.00029	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Barium	0.026	mg/L				0.00029	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Beryllium	0.000083	mg/L		B		0.00008	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Calcium	300	mg/L				0.035	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Calcium	300	mg/L				0.035	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Chromium	0.00061	mg/L		B		0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Chromium	0.0027	mg/L				0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Cobalt	0.004	mg/L				0.000054	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Cobalt	0.0058	mg/L				0.000054	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Copper	0.00056	mg/L		U		0.00056	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Copper	0.0018	mg/L		B		0.00056	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Iron	0.44	mg/L				0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Iron	2.7	mg/L				0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Lead	0.00019	mg/L		B		0.00018	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Lead	0.0013	mg/L				0.00018	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Lithium	0.24	mg/L				0.0026	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Lithium	0.24	mg/L				0.0026	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Magnesium	470	mg/L				0.011	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Magnesium	470	mg/L				0.011	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Manganese	1.7	mg/L				0.00031	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Manganese	1.7	mg/L				0.00031	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Nickel	0.016	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Nickel	0.026	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Potassium	19	mg/L				0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Sodium	270	mg/L				0.092	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Sodium	270	mg/L				0.092	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Strontium	5.8	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Strontium	5.9	mg/L				0.0003	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Thallium	0.00005	mg/L		B		0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ26C	DC806	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Titanium	0.0015	mg/L		B		0.0006	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Titanium	0.011	mg/L				0.0006	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Uranium	0.0012	mg/L				0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Uranium	0.0013	mg/L				0.00005	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Vanadium	0.00052	mg/L		B		0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Vanadium	0.0028	mg/L		B		0.0005	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC805	METAL	Zinc	0.0039	mg/L		B		0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC806	METAL	Zinc	0.0079	mg/L		B		0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	2,4'-DDD	0.00521	ug/L		U		0.00521	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	2,4'-DDD	0.00562	ug/L		JU		0.00562	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	2,4'-DDE	0.00625	ug/L		U		0.00625	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	2,4'-DDE	0.00674	ug/L		JU		0.00674	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	2,4'-DDT	0.00521	ug/L		U		0.00521	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	2,4'-DDT	0.00562	ug/L		JU		0.00562	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	4,4'-DDD	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	4,4'-DDD	0.0112	ug/L		JU		0.0112	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	4,4'-DDE	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	4,4'-DDE	0.0112	ug/L		JU		0.0112	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	4,4'-DDT	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	4,4'-DDT	0.0112	ug/L		JU		0.0112	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Aldrin	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Aldrin	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	alpha-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	alpha-BHC	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	alpha-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	alpha-Chlordane	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	beta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	beta-BHC	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Chlordane	0.0797	ug/L		U		0.0797	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Chlordane	0.086	ug/L		JU		0.086	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	delta-BHC	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	delta-BHC	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Dieldrin	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Dieldrin	0.0112	ug/L		JU		0.0112	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endosulfan I	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endosulfan I	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endosulfan II	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endosulfan II	0.0112	ug/L		JU		0.0112	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endosulfan sulfate	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endosulfan sulfate	0.0112	ug/L		JU		0.0112	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endrin	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endrin	0.0112	ug/L		JU		0.0112	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endrin aldehyde	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endrin aldehyde	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endrin ketone	0.0104	ug/L		U		0.0104	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Endrin ketone	0.0112	ug/L		JU		0.0112	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	gamma-Chlordane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	gamma-Chlordane	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Heptachlor	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Heptachlor	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Heptachlor epoxide	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Heptachlor epoxide	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Kepone	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Lindane	0.00693	ug/L		U		0.00693	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Lindane	0.00747	ug/L		JU		0.00747	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Methoxychlor	0.0521	ug/L		U		0.0521	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Methoxychlor	0.0562	ug/L		JU		0.0562	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	PCB-1016	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	PCB-1221	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ26C	DC809	PPCB	PCB-1232	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	PCB-1242	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	PCB-1248	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	PCB-1254	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	PCB-1260	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	PCB-1268	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Polychlorinated biphenyl	0.0396	ug/L		U		0.0396	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Toxaphene	0.156	ug/L		U		0.156	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	PPCB	Toxaphene	0.169	ug/L		JU		0.169	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Americium-241	0.00638	pCi/L	0.0217	U		0.0191	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Neptunium-237	0	pCi/L	0.0211	U		0.0421	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Plutonium-238	-0.00305	pCi/L	0.0104	U		0.0234	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Plutonium-239/240	0.0061	pCi/L	0.0207	U		0.0376	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Technetium-99	0.604	pCi/L	0.431	U		0.7	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Thorium-228	0.0302	pCi/L	0.0267	U		0.0376	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Thorium-230	0.0838	pCi/L	0.036			0.0363	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Thorium-232	0.0409	pCi/L	0.0233			0.0135	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Uranium-233/234	0.85	pCi/L	0.11			0.0348	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Uranium-235/236	0.0584	pCi/L	0.0341			0.0135	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC813	RADS	Uranium-238	0.48	pCi/L	0.0837			0.0348	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	1,2,4-Trichlorobenzene	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	1,2-Dichlorobenzene	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	1,3-Dichlorobenzene	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	1,4-Dichlorobenzene	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2,4,5-Trichlorophenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2,4,6-Trichlorophenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2,4-Dichlorophenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2,4-Dimethylphenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2,4-Dinitrophenol	6.41	ug/L		U		6.41	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2,4-Dinitrotoluene	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2,6-Dinitrotoluene	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2-Chloronaphthalene	0.526	ug/L		U		0.526	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2-Chlorophenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2-Methyl-4,6-dinitrophenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2-Methylnaphthalene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2-Methylphenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2-Nitrobenzenamine	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	2-Nitrophenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	3,3'-Dichlorobenzidine	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	3-Nitrobenzenamine	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	4-Aminobiphenyl	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	4-Bromophenyl phenyl ether	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	4-Chloro-3-methylphenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	4-Chlorobenzenamine	4.23	ug/L		U		4.23	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	4-Chlorophenyl phenyl ether	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	4-Nitrobenzenamine	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	4-Nitrophenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Acenaphthene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Acenaphthylene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Acetophenone	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Anthracene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Benz(a)anthracene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Benzenemethanol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Benzo(a)pyrene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Benzo(b)fluoranthene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Benzo(ghi)perylene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Benzo(k)fluoranthene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Benzoic acid	7.69	ug/L		U		7.69	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Bis(2-chloroethoxy)methane	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Bis(2-chloroethyl) ether	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ26C	DC809	SVOA	Bis(2-chloroisopropyl)ether	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Bis(2-ethylhexyl)phthalate	9.37	ug/L		J		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Butyl benzyl phthalate	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Chrysene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Dibenz(a,h)anthracene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Dibenzofuran	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Diethyl phthalate	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Dimethyl phthalate	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Di-n-butyl phthalate	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Di-n-octylphthalate	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Diphenylamine	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Fluoranthene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Fluorene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Hexachlorobenzene	0.00651	ug/L		U		0.00651	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Hexachlorobenzene	0.00702	ug/L		JU		0.00702	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Hexachlorobutadiene	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Hexachlorocyclopentadiene	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Hexachloroethane	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Indeno(1,2,3-cd)pyrene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Isophorone	4.49	ug/L		U		4.49	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	m,p-cresol	4.74	ug/L		U		4.74	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Naphthalene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Nitrobenzene	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	N-Nitrosodimethylamine	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	N-Nitroso-di-n-propylamine	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	N-Nitrosomorpholine	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	O,O,O-Triethylphosphorothioate	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Pentachlorophenol	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Phenanthrene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Phenol	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Pyrene	0.385	ug/L		U		0.385	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	SVOA	Pyridine	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC809	VOA	1,4-Dioxane	3.85	ug/L		U		3.85	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ26C	DC812	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Chloroform	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Methylene chloride	0.52	ug/L		BJ		0.32	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC812	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC803	WETCHEM	Alkalinity	680	mg/L				1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC803	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC803	WETCHEM	Alkalinity as HCO3	680	mg/L				1.1	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC804	WETCHEM	Ammonia	0.84	mg/L		B		0.022	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC804	WETCHEM	Ammonium Nitrogen	0.84	mg/L				0.1	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC808	WETCHEM	Chromium, hexavalent	0.036	mg/L		J		0.004	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC807	WETCHEM	Chromium, hexavalent	0.0092	mg/L		BJ		0.004	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC811	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC824	WETCHEM	Dissolved Solids	3900	mg/L				19	WATER	WG	REG	BP	6/25/2013
WD-PZ26C	DC803	WETCHEM	Dissolved Solids	3900	mg/L				19	WATER	WG	REG	BP	6/25/2013
WD-PZ27C	DC721	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Acetone	1.9	ug/L		U		1.9	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Bromodichloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ27C	DC721	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Chloroform	0.2	ug/L		J		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Dibromochloromethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/24/2013
WD-PZ27C	DC721	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC723	ANION	Chloride	35	mg/L				0.51	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC723	ANION	Fluoride	0.12	mg/L		B		0.12	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC723	ANION	Nitrate	0.084	mg/L		U		0.084	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC723	ANION	Nitrite as Nitrogen	0.098	mg/L		U		0.098	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC723	ANION	Orthophosphate	0.37	mg/L		U		0.37	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC723	ANION	Sulfate	1500	mg/L				12	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,7,8-Pentachlorodibenzofuran	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	2,3,4,7,8-Pentachlorodibenzofuran	0.0203	ng/L		U		0.0203	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	2,3,7,8-Tetrachlorodibenzofuran	0.00407	ng/L		U		0.00407	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.00407	ng/L		U		0.00407	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	Octachloro-dibenzo[b,e][1,4]dioxin	0.0407	ng/L		U		0.0407	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC730	DI/FURA	Octachlorodibenzofuran	0.0407	ng/L		U		0.0407	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	HERB	2,4,5-T	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	HERB	2,4-D	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	HERB	2,4-DB	0.105	ug/L		U		0.105	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	HERB	Dalapon	1.32	ug/L		U		1.32	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	HERB	Dicamba	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	HERB	Dichloroprop	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	HERB	Dinoseb	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	HERB	MCPA	11.6	ug/L		U		11.6	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ28C	DC729	HERB	MCPP	10.5	ug/L		U		10.5	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	HERB	Silvex	0.0874	ug/L		U		0.0874	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Aluminum	0.018	mg/L		U		0.018	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Aluminum	0.59	mg/L				0.018	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Antimony	0.0004	mg/L		U		0.0004	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Antimony	0.00091	mg/L		B		0.0004	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Arsenic	0.00033	mg/L		U		0.00033	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Arsenic	0.0016	mg/L		B		0.00033	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Barium	0.029	mg/L				0.00029	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Barium	0.086	mg/L				0.00029	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Beryllium	0.00008	mg/L		U		0.00008	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Beryllium	0.000096	mg/L		B		0.00008	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Cadmium	0.0001	mg/L		U		0.0001	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Calcium	190	mg/L				0.035	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Calcium	180	mg/L				0.035	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Chromium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Chromium	0.0014	mg/L		B		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Chromium, trivalent	0.02	mg/L		U		0.02	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Cobalt	0.0016	mg/L				0.000054	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Cobalt	0.0054	mg/L				0.000054	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Copper	0.0071	mg/L				0.00056	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Copper	0.019	mg/L				0.00056	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Iron	1.9	mg/L				0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Iron	2.1	mg/L				0.022	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Lead	0.00067	mg/L		B		0.00018	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Lithium	0.13	mg/L				0.0026	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Lithium	0.11	mg/L				0.0026	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Magnesium	160	mg/L				0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Magnesium	130	mg/L				0.011	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Manganese	0.13	mg/L				0.00031	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Manganese	0.21	mg/L				0.00031	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Nickel	0.0037	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Nickel	0.013	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Potassium	22	mg/L				0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Potassium	35	mg/L				0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Selenium	0.00074	mg/L		B		0.0007	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Silver	0.000033	mg/L		U		0.000033	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Sodium	560	mg/L				0.092	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Sodium	630	mg/L				0.092	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Strontium	6.2	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Strontium	6.1	mg/L				0.0003	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Thallium	0.00005	mg/L		U		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Tin	0.0058	mg/L		U		0.0058	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Titanium	0.0006	mg/L		U		0.0006	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Titanium	0.0076	mg/L		B		0.0006	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Uranium	0.00029	mg/L		B		0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Uranium	0.0017	mg/L				0.00005	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Vanadium	0.0005	mg/L		U		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Vanadium	0.0023	mg/L		B		0.0005	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC725	METAL	Zinc	0.0075	mg/L		B		0.002	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC726	METAL	Zinc	0.0074	mg/L		B		0.002	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ28C	DC729	PPCB	2,4'-DDD	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	2,4'-DDE	0.00638	ug/L		U		0.00638	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	2,4'-DDT	0.00532	ug/L		U		0.00532	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	4,4'-DDD	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	4,4'-DDE	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	4,4'-DDT	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Aldrin	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	alpha-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	alpha-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	beta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Chlordane	0.0814	ug/L		U		0.0814	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	delta-BHC	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Dieldrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Endosulfan I	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Endosulfan II	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Endosulfan sulfate	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Endrin	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Endrin aldehyde	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Endrin ketone	0.0106	ug/L		U		0.0106	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	gamma-Chlordane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Heptachlor	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Heptachlor epoxide	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Kepone	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Lindane	0.00707	ug/L		U		0.00707	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Methoxychlor	0.0532	ug/L		U		0.0532	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	PCB-1016	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	PCB-1221	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	PCB-1232	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	PCB-1242	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	PCB-1248	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	PCB-1254	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	PCB-1260	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	PCB-1268	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Polychlorinated biphenyl	0.0387	ug/L		U		0.0387	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	PPCB	Toxaphene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Americium-241	0.0065	pCi/L	0.0221	U		0.0195	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Neptunium-237	0.00877	pCi/L	0.0272	U		0.0485	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Plutonium-238	0.0039	pCi/L	0.0132	U		0.0117	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Plutonium-239/240	0	pCi/L	0.0153	U		0.0298	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Technetium-99	-0.052	pCi/L	0.441	U		0.783	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Thorium-228	0.0595	pCi/L	0.0308			0.0302	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Thorium-230	0.0503	pCi/L	0.0307			0.0372	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Thorium-232	0.0453	pCi/L	0.0262			0.0242	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Uranium-233/234	0.27	pCi/L	0.0959			0.0577	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Uranium-235/236	0.01	pCi/L	0.0385	U		0.0714	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC733	RADS	Uranium-238	0.147	pCi/L	0.0704			0.0245	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	1,2,4-Trichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	1,2-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	1,3-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	1,4-Dichlorobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2,4,5-Trichlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2,4,6-Trichlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2,4-Dichlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2,4-Dimethylphenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2,4-Dinitrophenol	5.95	ug/L		U		5.95	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2,4-Dinitrotoluene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2,6-Dinitrotoluene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2-Chloronaphthalene	0.488	ug/L		U		0.488	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2-Chlorophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2-Methyl-4,6-dinitrophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ28C	DC729	SVOA	2-Methylnaphthalene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2-Methylphenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	2-Nitrophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	3,3'-Dichlorobenzidine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	3-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	4-Aminobiphenyl	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	4-Bromophenyl phenyl ether	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	4-Chloro-3-methylphenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	4-Chlorobenzenamine	3.93	ug/L		U		3.93	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	4-Chlorophenyl phenyl ether	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	4-Nitrobenzenamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	4-Nitrophenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Acenaphthene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Acenaphthylene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Acetophenone	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Anthracene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Benz(a)anthracene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Benzenemethanol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Benzo(a)pyrene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Benzo(b)fluoranthene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Benzo(ghi)perylene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Benzo(k)fluoranthene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Benzoic acid	7.14	ug/L		U		7.14	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Bis(2-chloroethoxy)methane	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Bis(2-chloroethyl) ether	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Bis(2-chloroisopropyl)ether	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Bis(2-ethylhexyl)phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Butyl benzyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Chrysene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Dibenz(a,h)anthracene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Dibenzofuran	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Diethyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Dimethyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Di-n-butyl phthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Di-n-octylphthalate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Diphenylamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Fluoranthene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Fluorene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Hexachlorobenzene	0.00665	ug/L		U		0.00665	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Hexachlorobutadiene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Hexachlorocyclopentadiene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Hexachloroethane	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Indeno(1,2,3-cd)pyrene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Isophorone	4.17	ug/L		U		4.17	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	m,p-cresol	4.4	ug/L		U		4.4	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Naphthalene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Nitrobenzene	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	N-Nitrosodimethylamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	N-Nitroso-di-n-propylamine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	N-Nitrosomorpholine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	O,O,O-Triethylphosphorothioate	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Pentachlorophenol	0.0526	ug/L		U		0.0526	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Phenanthrene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Phenol	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Pyrene	0.357	ug/L		U		0.357	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	SVOA	Pyridine	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,1,1,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,1,1-Trichloroethane	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,1,2,2-Tetrachloroethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013

Table A.3. PORTS Groundwater Data

STA_NAME	PROJ_SAMPLE_ID	ANA_TYPE	CHEMICAL_NAME	RESULTS	UNITS	RAD_ERR	RSLTQUAL	VALIDATION	DETECT_LIMIT	MATRIX	MED_TYPE	SMP_TYPE	COLL_DEV	D_COLLECTED
WD-PZ28C	DC732	VOA	1,1,2-Trichloro-1,2,2-trifluoroethane	0.42	ug/L		U		0.42	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,1,2-Trichloroethane	0.27	ug/L		U		0.27	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,1-Dichloroethane	0.22	ug/L		U		0.22	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,1-Dichloroethene	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,2,3-Trichloropropane	0.33	ug/L		U		0.33	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,2-Dibromo-3-chloropropane	0.47	ug/L		U		0.47	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,2-Dibromoethane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,2-Dichloroethane	0.13	ug/L		U		0.13	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,2-Dichloroethene	0.24	ug/L		U		0.24	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,2-Dichloropropane	0.18	ug/L		U		0.18	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	1,2-Dimethylbenzene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC729	VOA	1,4-Dioxane	3.57	ug/L		U		3.57	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	2-Butanone	2	ug/L		U		2	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	2-Hexanone	1.7	ug/L		U		1.7	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	4-Methyl-2-pentanone	0.98	ug/L		U		0.98	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Acetone	4.8	ug/L		BJ		1.9	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Acetonitrile	9.6	ug/L		U		9.6	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Acrylonitrile	1.4	ug/L		U		1.4	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Benzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Bromochloromethane	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Bromodichloromethane	0.2	ug/L		J		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Bromoform	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Bromomethane	0.21	ug/L		U		0.21	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Carbon disulfide	0.45	ug/L		U		0.45	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Carbon tetrachloride	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Chlorobenzene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Chloroethane	0.41	ug/L		U		0.41	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Chloroform	0.64	ug/L		J		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Chloromethane	0.3	ug/L		U		0.3	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	cis-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	cis-1,3-Dichloropropene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Dibromochloromethane	0.27	ug/L		J		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Dibromomethane	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Dichlorodifluoromethane	0.31	ug/L		U		0.31	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Ethyl cyanide	3.7	ug/L		U		3.7	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Ethylbenzene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Iodomethane	0.23	ug/L		U		0.23	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Isobutanol	37	ug/L		U		37	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	m,p-Xylenes	0.34	ug/L		U		0.34	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Methylene chloride	0.32	ug/L		U		0.32	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Styrene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Tetrachloroethene	0.2	ug/L		U		0.2	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Toluene	0.17	ug/L		U		0.17	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Total Xylene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	trans-1,2-Dichloroethene	0.15	ug/L		U		0.15	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	trans-1,3-Dichloropropene	0.19	ug/L		U		0.19	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Trans-1,4-Dichloro-2-butene	0.8	ug/L		U		0.8	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Trichloroethene	0.16	ug/L		U		0.16	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Trichlorofluoromethane	0.29	ug/L		U		0.29	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Vinyl acetate	0.94	ug/L		U		0.94	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC732	VOA	Vinyl chloride	0.1	ug/L		U		0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC723	WETCHEM	Alkalinity	780	mg/L				1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC723	WETCHEM	Alkalinity as CO3	1.1	mg/L		U		1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC723	WETCHEM	Alkalinity as HCO3	780	mg/L				1.1	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC724	WETCHEM	Ammonia	5.7	mg/L				0.044	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC724	WETCHEM	Ammonium Nitrogen	5.7	mg/L				0.1	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC727	WETCHEM	Chromium, hexavalent	0.004	mg/L		U		0.004	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC728	WETCHEM	Chromium, hexavalent	0.023	mg/L		J		0.004	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC731	WETCHEM	Cyanide	0.002	mg/L		U		0.002	WATER	WG	REG	BP	6/24/2013
WD-PZ28C	DC723	WETCHEM	Dissolved Solids	3000	mg/L				9.4	WATER	WG	REG	BP	6/24/2013

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Table A.4. Building X-326 TCLP Extraction Results

Project Sample Id	Med_Type	Chemical_Name	Result	Units	Rsltqual	Reporting Limit	Test Name	Method	Reporting Limit
B26CV2540902-1	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	1,4-Dichlorobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	2,4,5-Trichlorophenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	2,4,6-Tribromophenol	0.357	mg/L		0.08	SVOC-TCLP	SW846-8270C	0.08
B26CV2540902-2	SZ	2,4,6-Tribromophenol	0.338	mg/L		0.08	SVOC-TCLP	SW846-8270C	0.08
B26CV2560802-1	SZ	2,4,6-Tribromophenol	0.368	mg/L		0.08	SVOC-TCLP	SW846-8270C	0.08
B26CV2560802-2	SZ	2,4,6-Tribromophenol	0.282	mg/L		0.08	SVOC-TCLP	SW846-8270C	0.08
B26CV2540902-1	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	2,4,6-Trichlorophenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	2,4-Dinitrotoluene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	2-Fluoro-1,1'-biphenyl	0.174	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	2-Fluoro-1,1'-biphenyl	0.164	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	2-Fluoro-1,1'-biphenyl	0.182	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	2-Fluoro-1,1'-biphenyl	0.151	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	2-Fluorophenol	0.337	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	2-Fluorophenol	0.338	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	2-Fluorophenol	0.364	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	2-Fluorophenol	0.282	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	2-Methylphenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	2-Methylphenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	2-Methylphenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	2-Methylphenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	3(4)-Methylphenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	3(4)-Methylphenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	3(4)-Methylphenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	3(4)-Methylphenol	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	Arsenic	2.36	mg/L		0.00265	SW846-6010B-TCLP	SW846-6010B	0.00265
B26CV2540902-2	SZ	Arsenic	0.0053	mg/L	U	0.0053	SW846-6010B-TCLP	SW846-6010B	0.0053
B26CV2560802-1	SZ	Arsenic	0.0041	mg/L	B	0.00265	SW846-6010B-TCLP	SW846-6010B	0.00265
B26CV2560802-2	SZ	Arsenic	0.0132	mg/L	U	0.0132	SW846-6010B-TCLP	SW846-6010B	0.0132
B26CV2540902-1	SZ	Barium	0.0124	mg/L	B	0.00177	SW846-6010B-TCLP	SW846-6010B	0.00177
B26CV2540902-2	SZ	Barium	0.0214	mg/L	B	0.00354	SW846-6010B-TCLP	SW846-6010B	0.00354
B26CV2560802-1	SZ	Barium	0.0547	mg/L		0.00177	SW846-6010B-TCLP	SW846-6010B	0.00177
B26CV2560802-2	SZ	Barium	0.115	mg/L		0.00885	SW846-6010B-TCLP	SW846-6010B	0.00885
B26CV2540902-1	SZ	Cadmium	0.00182	mg/L	U	0.00182	SW846-6010B-TCLP	SW846-6010B	0.00182
B26CV2540902-2	SZ	Cadmium	0.0058	mg/L	B	0.00364	SW846-6010B-TCLP	SW846-6010B	0.00364
B26CV2560802-1	SZ	Cadmium	0.0055	mg/L	B	0.00182	SW846-6010B-TCLP	SW846-6010B	0.00182
B26CV2560802-2	SZ	Cadmium	0.0091	mg/L	U	0.0091	SW846-6010B-TCLP	SW846-6010B	0.0091
B26CV2540902-1	SZ	Chromium	1.05	mg/L		0.0068	SW846-6010B-TCLP	SW846-6010B	0.0068
B26CV2540902-2	SZ	Chromium	0.197	mg/L		0.0136	SW846-6010B-TCLP	SW846-6010B	0.0136

Table A.4. Building X-326 TCLP Extraction Results

Project Sample Id	Med_Type	Chemical_Name	Result	Units	Rsltqual	Reporting Limit	Test Name	Method	Reporting Limit
B26CV2560802-1	SZ	Chromium	2.25	mg/L		0.0068	SW846-6010B-TCLP	SW846-6010B	0.0068
B26CV2560802-2	SZ	Chromium	0.128	mg/L	B	0.034	SW846-6010B-TCLP	SW846-6010B	0.034
B26CV2540902-1	SZ	Copper	0.263	mg/L		0.00888	SW846-6010B-TCLP	SW846-6010B	0.00888
B26CV2540902-2	SZ	Copper	0.0178	mg/L	U	0.0178	SW846-6010B-TCLP	SW846-6010B	0.0178
B26CV2560802-1	SZ	Copper	0.14	mg/L		0.00888	SW846-6010B-TCLP	SW846-6010B	0.00888
B26CV2560802-2	SZ	Copper	0.0444	mg/L	U	0.0444	SW846-6010B-TCLP	SW846-6010B	0.0444
B26CV2540902-1	SZ	Hexachlorobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	Hexachlorobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	Hexachlorobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	Hexachlorobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	Hexachlorobutadiene	0.1	mg/L	U	0.1	SVOC-TCLP	SW846-8270C	0.1
B26CV2540902-2	SZ	Hexachlorobutadiene	0.1	mg/L	U	0.1	SVOC-TCLP	SW846-8270C	0.1
B26CV2560802-1	SZ	Hexachlorobutadiene	0.1	mg/L	U	0.1	SVOC-TCLP	SW846-8270C	0.1
B26CV2560802-2	SZ	Hexachlorobutadiene	0.1	mg/L	U	0.1	SVOC-TCLP	SW846-8270C	0.1
B26CV2540902-1	SZ	Hexachloroethane	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	Hexachloroethane	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	Hexachloroethane	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	Hexachloroethane	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	Lead	0.0147	mg/L	B	0.0019	SW846-6010B-TCLP	SW846-6010B	0.0019
B26CV2540902-2	SZ	Lead	0.0206	mg/L	B	0.0038	SW846-6010B-TCLP	SW846-6010B	0.0038
B26CV2560802-1	SZ	Lead	0.0113	mg/L	B	0.0019	SW846-6010B-TCLP	SW846-6010B	0.0019
B26CV2560802-2	SZ	Lead	0.111	mg/L		0.0095	SW846-6010B-TCLP	SW846-6010B	0.0095
B26CV2540902-1	SZ	Mercury	0.01	mg/L	U	0.01	Hg7470A-TCLP	SW846-7470A	0.01
B26CV2540902-2	SZ	Mercury	0.01	mg/L	U	0.01	Hg7470A-TCLP	SW846-7470A	0.01
B26CV2560802-1	SZ	Mercury	0.01	mg/L	U	0.01	Hg7470A-TCLP	SW846-7470A	0.01
B26CV2560802-2	SZ	Mercury	0.01	mg/L	U	0.01	Hg7470A-TCLP	SW846-7470A	0.01
B26CV2540902-1	SZ	Nitrobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	Nitrobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	Nitrobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	Nitrobenzene	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	Nitrobenzene-d5	0.188	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	Nitrobenzene-d5	0.18	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	Nitrobenzene-d5	0.195	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	Nitrobenzene-d5	0.161	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	Pentachlorophenol	0.1	mg/L	U	0.1	SVOC-TCLP	SW846-8270C	0.1
B26CV2540902-2	SZ	Pentachlorophenol	0.1	mg/L	U	0.1	SVOC-TCLP	SW846-8270C	0.1
B26CV2560802-1	SZ	Pentachlorophenol	0.1	mg/L	U	0.1	SVOC-TCLP	SW846-8270C	0.1
B26CV2560802-2	SZ	Pentachlorophenol	0.1	mg/L	U	0.1	SVOC-TCLP	SW846-8270C	0.1
B26CV2540902-1	SZ	Phenol-d5	0.35	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	Phenol-d5	0.344	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	Phenol-d5	0.379	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	Phenol-d5	0.266	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	Pyridine	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	Pyridine	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	Pyridine	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	Pyridine	0.02	mg/L	U	0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	Selenium	0.00365	mg/L	U	0.00365	SW846-6010B-TCLP	SW846-6010B	0.00365
B26CV2540902-2	SZ	Selenium	0.0073	mg/L	U	0.0073	SW846-6010B-TCLP	SW846-6010B	0.0073
B26CV2560802-1	SZ	Selenium	0.00365	mg/L	U	0.00365	SW846-6010B-TCLP	SW846-6010B	0.00365
B26CV2560802-2	SZ	Selenium	0.0182	mg/L	U	0.0182	SW846-6010B-TCLP	SW846-6010B	0.0182

Table A.4. Building X-326 TCLP Extraction Results

Project Sample Id	Med_Type	Chemical_Name	Result	Units	Rsltqual	Reporting Limit	Test Name	Method	Reporting Limit
B26CV2540902-1	SZ	Silver	0.0138	mg/L	B	0.0131	SW846-6010B-TCLP	SW846-6010B	0.0131
B26CV2540902-2	SZ	Silver	0.122	mg/L	B	0.0262	SW846-6010B-TCLP	SW846-6010B	0.0262
B26CV2560802-1	SZ	Silver	0.0131	mg/L	U	0.0131	SW846-6010B-TCLP	SW846-6010B	0.0131
B26CV2560802-2	SZ	Silver	0.117	mg/L	B	0.0655	SW846-6010B-TCLP	SW846-6010B	0.0655
B26CV2540902-1	SZ	Terphenyl-d14	0.155	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-2	SZ	Terphenyl-d14	0.156	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-1	SZ	Terphenyl-d14	0.162	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2560802-2	SZ	Terphenyl-d14	0.106	mg/L		0.02	SVOC-TCLP	SW846-8270C	0.02
B26CV2540902-1	SZ	Zinc	0.312	mg/L		0.00132	SW846-6010B-TCLP	SW846-6010B	0.00132
B26CV2540902-2	SZ	Zinc	0.308	mg/L		0.00264	SW846-6010B-TCLP	SW846-6010B	0.00264
B26CV2560802-1	SZ	Zinc	0.406	mg/L		0.00132	SW846-6010B-TCLP	SW846-6010B	0.00132
B26CV2560802-2	SZ	Zinc	0.111	mg/L		0.0066	SW846-6010B-TCLP	SW846-6010B	0.0066

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW01B	C	7/12/2011	94.89	637.21
WD-MW01B	C	8/15/2011	95.52	636.58
WD-MW01B	C	9/12/2011	95.75	636.35
WD-MW01B	C	10/12/2011	95.76	636.34
WD-MW01B	C	11/10/2011	95.74	636.36
WD-MW01B	C	12/12/2011	96.19	635.91
WD-MW01B	C	1/30/2012	95.90	636.20
WD-MW01B	C	2nd Quarter 2012	96.03	636.07
WD-MW01B	C	3rd Quarter 2012	95.64	636.46
WD-MW01B	C	4th Quarter 2012	96.06	636.04
WD-MW01B	C	1st Quarter 2013	95.82	636.28
WD-MW01B	C	2nd Quarter 2013	96.04	636.06
WD-MW01B	C	3rd Quarter 2013	95.89	636.21
WD-MW02B	C	6/11/2011	130.48	631.56
WD-MW02B	C	7/12/2011	130.31	631.73
WD-MW02B	C	8/15/2011	139.26	622.78
WD-MW02B	C	9/12/2011	130.42	631.62
WD-MW02B	C	10/12/2011	130.30	631.74
WD-MW02B	C	11/10/2011	130.42	631.62
WD-MW02B	C	12/12/2011	130.89	631.15
WD-MW02B	C	1/30/2012	130.63	631.41
WD-MW02B	C	2nd Quarter 2012	130.68	631.36
WD-MW02B	C	3rd Quarter 2012	130.35	631.69
WD-MW02B	C	4th Quarter 2012	130.82	631.22
WD-MW02B	C	1st Quarter 2013	130.54	631.5
WD-MW02B	C	2nd Quarter 2013	130.37	631.67
WD-MW02B	C	3rd Quarter 2013	130.63	631.41
WD-MW03B	D	10/4/2011	121.55	629.96
WD-MW03B	D	10/11/2011	121.34	630.17
WD-MW03B	D	10/17/2011	121.15	630.36
WD-MW03B	D	10/24/2011	121.30	630.21
WD-MW03B	D	10/31/2011	121.30	630.21
WD-MW03B	D	11/7/2011	121.56	629.95
WD-MW03B	D	11/14/2011	120.97	630.54
WD-MW03B	D	11/21/2011	121.27	630.24
WD-MW03B	D	11/28/2011	121.16	630.35
WD-MW03B	D	12/5/2011	121.36	630.15
WD-MW03B	D	12/12/2011	121.64	629.87
WD-MW03B	D	1/3/2012	121.43	630.08
WD-MW03B	D	3/19/2012	121.43	630.08
WD-MW03B	D	4/26/2012	120.93	630.58
WD-MW03B	D	5/21/2012	121.13	630.38
WD-MW03B	D	6/5/2012	121.4	630.11
WD-MW03B	D	6/6/2012	121.5	630.01

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW03B	D	6/7/2012	121.6	629.91
WD-MW03B	D	6/11/2012	121.5	630.01
WD-MW03B	D	6/12/2012	121.5	630.01
WD-MW03B	D	6/18/2012	120	631.51
WD-MW03B	D	6/28/2012	121.1	630.41
WD-MW03B	D	7/2/2012	121.1	630.41
WD-MW03B	D	7/12/2012	121.2	630.31
WD-MW03B	D	7/16/2012	121.1	630.41
WD-MW03B	D	7/26/2012	120.8	630.71
WD-MW03B	D	8/2/2012	121	630.51
WD-MW03B	D	8/9/2012	121	630.51
WD-MW03B	D	8/14/2012	121	630.51
WD-MW03B	D	8/23/2012	121.1	630.41
WD-MW03B	D	8/30/2012	121.1	630.41
WD-MW03B	D	9/6/2012	121.2	630.31
WD-MW03B	D	9/13/2012	121.4	630.11
WD-MW03B	D	9/20/2012	121.1	630.41
WD-MW03B	D	9/24/2012	121.3	630.21
WD-MW03B	D	10/1/2012	121.1	630.41
WD-MW03B	D	10/9/2012	121.4	630.11
WD-MW03B	D	10/15/2012	121.1	630.41
WD-MW03B	D	10/22/2012	121.4	630.11
WD-MW03B	D	10/31/2012	120.8	630.71
WD-MW03B	D	11/5/2012	121.3	630.21
WD-MW03B	D	11/13/2012	121.5	630.01
WD-MW03B	D	11/19/2012	121.5	630.01
WD-MW03B	D	11/26/2012	121.4	630.11
WD-MW03B	D	12/4/2012	121.2	630.31
WD-MW03B	D	12/10/2012	120.9	630.61
WD-MW03B	D	12/13/2012	121.5	630.01
WD-MW03B	D	12/14/2012	121.4	630.11
WD-MW03B	D	12/14/2012	121.5	630.01
WD-MW03B	D	12/15/2012	121.1	630.41
WD-MW03B	D	12/15/2012	121.3	630.21
WD-MW03B	D	12/16/2012	120.9	630.61
WD-MW03B	D	12/16/2012	121	630.51
WD-MW03B	D	12/17/2012	120.8	630.71
WD-MW03B	D	12/17/2012	120.9	630.61
WD-MW03B	D	12/18/2012	121	630.51
WD-MW03B	D	12/19/2012	121.2	630.31
WD-MW03B	D	12/20/2012	120.8	630.71
WD-MW03B	D	12/20/2012	121	630.51
WD-MW03B	D	12/28/2012	121.3	630.21
WD-MW03B	D	1/3/2013	121.5	630.01

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW03B	D	1/8/2013	121.5	630.01
WD-MW03B	D	1/14/2013	121.5	630.01
WD-MW03B	D	1/21/2013	121.3	630.21
WD-MW03B	D	1/28/2013	121.3	630.21
WD-MW03B	D	2/4/2013	121.2	630.31
WD-MW03B	D	2/11/2013	121.1	630.41
WD-MW03B	D	2/19/2013	121.1	630.41
WD-MW03B	D	2/25/2013	121.4	630.11
WD-MW03B	D	3/5/2013	121.2	630.31
WD-MW03B	D	3/13/2013	121.3	630.21
WD-MW03B	D	3/19/2013	121.1	630.41
WD-MW03B	D	3/27/2013	121.5	630.01
WD-MW03B	D	4/1/2013	121.2	630.31
WD-MW03B	D	4/8/2013	121.2	630.31
WD-MW03B	D	4/15/2013	121.2	630.31
WD-MW03B	D	4/23/2013	121.3	630.21
WD-MW03B	D	5/9/2013	121.2	630.31
WD-MW03B	D	5/13/2013	121.5	630.01
WD-MW03B	D	5/14/2013	121.3	630.21
WD-MW03B	D	5/15/2013	121.2	630.31
WD-MW03B	D	5/20/2013	121.3	630.21
WD-MW03B	D	5/23/2013	121.2	630.31
WD-MW03B	D	5/30/2013	122.1	629.41
WD-MW03B	D	6/6/2013	121.8	629.71
WD-MW03B	D	6/12/2013	121	630.51
WD-MW03B	D	6/20/2013	121.4	629.72
WD-MW03B	D	6/25/2013	121.2	629.92
WD-MW03B	D	7/2/2013	121.1	630.02
WD-MW03B	D	7/9/2013	121.2	629.92
WD-MW03B	D	7/16/2013	121.5	629.62
WD-MW03B	D	7/23/2013	121	630.12
WD-MW03B	D	7/30/2013	121.3	629.82
WD-MW03B	D	8/7/2013	121.1	630.02
WD-MW03B	D	8/15/2013	121.3	629.82
WD-MW04B	D	10/4/2011	81.54	624.22
WD-MW04B	D	10/11/2011	81.27	624.49
WD-MW04B	D	10/17/2011	81.06	624.70
WD-MW04B	D	10/24/2011	81.21	624.55
WD-MW04B	D	10/31/2011	75.23	630.53
WD-MW04B	D	11/7/2011	81.30	624.46
WD-MW04B	D	11/14/2011	80.75	625.01
WD-MW04B	D	11/21/2011	80.97	624.79
WD-MW04B	D	11/28/2011	80.85	624.91
WD-MW04B	D	12/5/2011	81.18	624.58

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW04B	D	12/12/2011	81.51	624.25
WD-MW04B	D	1/3/2012	81.25	624.51
WD-MW04B	D	3/19/2012	81.26	624.50
WD-MW04B	D	4/26/2012	80.64	625.12
WD-MW04B	D	5/21/2012	80.93	624.83
WD-MW04B	D	6/5/2012	81.1	624.66
WD-MW04B	D	6/6/2012	81.08	624.68
WD-MW04B	D	6/7/2012	80.99	624.77
WD-MW04B	D	6/11/2012	81.18	624.58
WD-MW04B	D	6/12/2012	81.09	624.67
WD-MW04B	D	6/18/2012	80.98	624.78
WD-MW04B	D	6/28/2012	80.81	624.95
WD-MW04B	D	7/2/2012	80.91	624.85
WD-MW04B	D	7/12/2012	81.04	624.72
WD-MW04B	D	7/16/2012	80.88	624.88
WD-MW04B	D	7/26/2012	80.64	625.12
WD-MW04B	D	8/2/2012	80.81	624.95
WD-MW04B	D	8/9/2012	80.76	625.00
WD-MW04B	D	8/14/2012	80.79	624.97
WD-MW04B	D	8/23/2012	80.97	624.79
WD-MW04B	D	8/30/2012	80.89	624.87
WD-MW04B	D	9/6/2012	80.7	625.06
WD-MW04B	D	9/13/2012	81.1	624.66
WD-MW04B	D	9/20/2012	81	624.76
WD-MW04B	D	9/24/2012	81.3	624.46
WD-MW04B	D	10/1/2012	80.84	624.92
WD-MW04B	D	10/9/2012	81.17	624.59
WD-MW04B	D	10/15/2012	81.14	624.62
WD-MW04B	D	10/22/2012	81.11	624.65
WD-MW04B	D	10/31/2012	85.7	620.06
WD-MW04B	D	11/5/2012	81.11	624.65
WD-MW04B	D	11/13/2012	81.32	624.44
WD-MW04B	D	11/19/2012	81.23	624.53
WD-MW04B	D	11/26/2012	81.11	624.65
WD-MW04B	D	12/5/2012	94.83	610.93
WD-MW04B	D	12/10/2012	80.72	625.04
WD-MW04B	D	12/13/2012	81.32	624.44
WD-MW04B	D	12/14/2012	81.18	624.58
WD-MW04B	D	12/14/2012	81.25	624.51
WD-MW04B	D	12/15/2012	80.87	624.89
WD-MW04B	D	12/15/2012	81.02	624.74
WD-MW04B	D	12/16/2012	80.62	625.14
WD-MW04B	D	12/16/2012	80.69	625.07
WD-MW04B	D	12/17/2012	80.56	625.20

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW04B	D	12/17/2012	80.62	625.14
WD-MW04B	D	12/18/2012	80.73	625.03
WD-MW04B	D	12/18/2012	80.84	624.92
WD-MW04B	D	12/19/2012	80.92	624.84
WD-MW04B	D	12/19/2012	80.95	624.81
WD-MW04B	D	12/20/2012	80.32	625.44
WD-MW04B	D	12/20/2012	80.61	625.15
WD-MW04B	D	12/28/2012	81.04	624.72
WD-MW04B	D	1/3/2013	81.27	624.49
WD-MW04B	D	1/8/2013	81.23	624.53
WD-MW04B	D	1/14/2013	81.27	624.49
WD-MW04B	D	1/21/2013	80.98	624.78
WD-MW04B	D	1/28/2013	81.05	624.71
WD-MW04B	D	2/4/2013	80.95	624.81
WD-MW04B	D	2/11/2013	80.77	624.99
WD-MW04B	D	2/19/2013	80.81	624.95
WD-MW04B	D	2/25/2013	81.08	624.68
WD-MW04B	D	3/5/2013	80.72	625.04
WD-MW04B	D	3/13/2013	81.08	624.68
WD-MW04B	D	3/19/2013	80.87	624.89
WD-MW04B	D	3/27/2013	81.21	624.55
WD-MW04B	D	4/1/2013	80.97	624.79
WD-MW04B	D	4/8/2013	81	624.76
WD-MW04B	D	4/15/2013	81	624.76
WD-MW04B	D	4/23/2013	81	624.76
WD-MW04B	D	4/30/2013	81.02	624.74
WD-MW04B	D	5/9/2013	81	624.76
WD-MW04B	D	5/13/2013	81.21	624.55
WD-MW04B	D	5/14/2013	81.04	624.72
WD-MW04B	D	5/15/2013	80.91	624.85
WD-MW04B	D	5/20/2013	81	624.76
WD-MW04B	D	5/23/2013	81.49	624.27
WD-MW04B	D	5/30/2013	81.82	623.94
WD-MW04B	D	6/6/2013	80.83	624.93
WD-MW04B	D	6/12/2013	80.78	624.98
WD-MW04B	D	6/20/2013	81.2	624.87
WD-MW04B	D	6/25/2013	80.97	625.10
WD-MW04B	D	7/2/2013	80.89	625.18
WD-MW04B	D	7/9/2013	80.98	625.09
WD-MW04B	D	7/16/2013	81.26	624.81
WD-MW04B	D	7/23/2013	80.79	625.28
WD-MW04B	D	7/30/2013	81.03	625.04
WD-MW04B	D	8/7/2013	80.82	625.25
WD-MW04B	D	8/15/2013	81.07	625.00

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW05B	D	10/4/2011	58.46	639.98
WD-MW05B	D	10/11/2011	58.61	639.83
WD-MW05B	D	10/17/2011	58.55	639.89
WD-MW05B	D	10/24/2011	58.53	639.91
WD-MW05B	D	10/31/2011	58.90	639.54
WD-MW05B	D	11/7/2011	58.75	639.69
WD-MW05B	D	11/14/2011	58.34	640.10
WD-MW05B	D	11/21/2011	58.50	639.94
WD-MW05B	D	11/28/2011	58.44	640.00
WD-MW05B	D	12/5/2011	58.71	639.73
WD-MW05B	D	12/12/2011	58.95	639.49
WD-MW05B	D	1/3/2012	58.79	639.65
WD-MW05B	D	3/19/2012	58.48	639.96
WD-MW05B	D	4/26/2012	58.03	640.41
WD-MW05B	D	5/21/2012	58.22	640.22
WD-MW05B	D	6/5/2012	58.3	640.14
WD-MW05B	D	6/6/2012	58.21	640.23
WD-MW05B	D	6/7/2012	58.26	640.18
WD-MW05B	D	6/11/2012	58.72	639.72
WD-MW05B	D	6/12/2012	58.61	639.83
WD-MW05B	D	6/18/2012	58.28	640.16
WD-MW05B	D	6/28/2012	58.26	640.18
WD-MW05B	D	7/2/2012	58.28	640.16
WD-MW05B	D	7/12/2012	58.26	640.18
WD-MW05B	D	7/16/2012	58.22	640.22
WD-MW05B	D	7/26/2012	57.97	640.47
WD-MW05B	D	8/2/2012	58.09	640.35
WD-MW05B	D	8/9/2012	58.13	640.31
WD-MW05B	D	8/14/2012	58.25	640.19
WD-MW05B	D	8/23/2012	58.32	640.12
WD-MW05B	D	8/30/2012	58.3	640.14
WD-MW05B	D	9/6/2012	58.15	640.29
WD-MW05B	D	9/13/2012	58.5	639.94
WD-MW05B	D	9/20/2012	58.45	639.99
WD-MW05B	D	9/24/2012	58.6	639.84
WD-MW05B	D	10/1/2012	58.25	640.19
WD-MW05B	D	10/9/2012	58.56	639.88
WD-MW05B	D	10/15/2012	58.42	640.02
WD-MW05B	D	10/22/2012	58.54	639.90
WD-MW05B	D	10/31/2012	58.52	639.92
WD-MW05B	D	11/5/2012	58.57	639.87
WD-MW05B	D	11/13/2012	58.72	639.72
WD-MW05B	D	11/19/2012	58.7	639.74
WD-MW05B	D	11/26/2012	59.13	639.31

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW05B	D	12/5/2012	58.73	639.71
WD-MW05B	D	12/10/2012	58.33	640.11
WD-MW05B	D	12/13/2012	58.83	639.61
WD-MW05B	D	12/14/2012	58.73	639.71
WD-MW05B	D	12/14/2012	58.76	639.68
WD-MW05B	D	12/15/2012	58.47	639.97
WD-MW05B	D	12/15/2012	58.59	639.85
WD-MW05B	D	12/16/2012	58.31	640.13
WD-MW05B	D	12/16/2012	58.33	640.11
WD-MW05B	D	12/17/2012	58.24	640.20
WD-MW05B	D	12/17/2012	58.32	640.12
WD-MW05B	D	12/18/2012	58.37	640.07
WD-MW05B	D	12/18/2012	58.54	639.90
WD-MW05B	D	12/19/2012	58.5	639.94
WD-MW05B	D	12/19/2012	58.53	639.91
WD-MW05B	D	12/20/2012	58.1	640.34
WD-MW05B	D	12/20/2012	58.32	640.12
WD-MW05B	D	12/28/2012	58.64	639.80
WD-MW05B	D	1/3/2013	58.75	639.69
WD-MW05B	D	1/8/2013	57.81	640.63
WD-MW05B	D	1/14/2013	58.81	639.63
WD-MW05B	D	1/21/2013	58.7	639.74
WD-MW05B	D	1/28/2013	58.7	639.74
WD-MW05B	D	2/4/2013	58.58	639.86
WD-MW05B	D	2/11/2013	58.45	639.99
WD-MW05B	D	2/19/2013	58.47	639.97
WD-MW05B	D	2/25/2013	58.72	639.72
WD-MW05B	D	3/5/2013	58.45	639.99
WD-MW05B	D	3/13/2013	58.63	639.81
WD-MW05B	D	3/19/2013	58.46	639.98
WD-MW05B	D	3/27/2013	58.7	639.74
WD-MW05B	D	4/1/2013	58.46	639.98
WD-MW05B	D	4/8/2013	58.58	639.86
WD-MW05B	D	4/15/2013	58.48	639.96
WD-MW05B	D	4/23/2013	58.6	639.84
WD-MW05B	D	4/30/2013	58.5	639.94
WD-MW05B	D	5/9/2013	58.46	639.98
WD-MW05B	D	5/13/2013	58.66	639.78
WD-MW05B	D	5/14/2013	58.62	639.82
WD-MW05B	D	5/15/2013	58.47	639.97
WD-MW05B	D	5/20/2013	58.51	639.93
WD-MW05B	D	5/23/2013	58.48	639.96
WD-MW05B	D	5/30/2013	58.5	639.94
WD-MW05B	D	6/6/2013	58.4	640.04

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW05B	D	6/12/2013	58.3	640.14
WD-MW05B	D	6/20/2013	58.71	639.50
WD-MW05B	D	6/25/2013	58.42	639.79
WD-MW05B	D	7/1/2013	58.25	639.96
WD-MW05B	D	7/9/2013	58.37	639.84
WD-MW05B	D	7/16/2013	58.62	639.59
WD-MW05B	D	7/23/2013	58.21	640.00
WD-MW05B	D	7/30/2013	58.47	639.74
WD-MW05B	D	8/7/2013	58.33	639.88
WD-MW05B	D	8/15/2013	58.51	639.70
WD-MW06B	D	10/4/2011	120.92	624.46
WD-MW06B	D	10/11/2011	120.63	624.75
WD-MW06B	D	10/17/2011	120.40	624.98
WD-MW06B	D	10/24/2011	120.58	624.80
WD-MW06B	D	10/31/2011	120.73	624.65
WD-MW06B	D	11/7/2011	120.93	624.45
WD-MW06B	D	11/14/2011	120.23	625.15
WD-MW06B	D	11/21/2011	120.61	624.77
WD-MW06B	D	11/28/2011	120.46	624.92
WD-MW06B	D	12/5/2011	120.80	624.58
WD-MW06B	D	12/12/2011	121.14	624.24
WD-MW06B	D	1/3/2012	120.90	624.48
WD-MW06B	D	3/19/2012	120.90	624.48
WD-MW06B	D	4/26/2012	120.25	625.13
WD-MW06B	D	5/21/2012	120.57	624.81
WD-MW06B	D	6/5/2012	121	624.38
WD-MW06B	D	6/6/2012	121.1	624.28
WD-MW06B	D	6/7/2012	121.2	624.18
WD-MW06B	D	6/11/2012	121.1	624.28
WD-MW06B	D	6/12/2012	121	624.38
WD-MW06B	D	6/18/2012	121.1	624.28
WD-MW06B	D	6/28/2012	120.4	624.98
WD-MW06B	D	7/2/2012	120.5	624.88
WD-MW06B	D	7/12/2012	120.6	624.78
WD-MW06B	D	7/16/2012	120.5	624.88
WD-MW06B	D	7/26/2012	120.2	625.18
WD-MW06B	D	8/2/2012	120.4	624.98
WD-MW06B	D	8/9/2012	120.3	625.08
WD-MW06B	D	8/14/2012	120.4	624.98
WD-MW06B	D	8/23/2012	120.6	624.78
WD-MW06B	D	8/30/2012	120.5	624.88
WD-MW06B	D	9/6/2012	120.4	624.98
WD-MW06B	D	9/13/2012	120.8	624.58
WD-MW06B	D	9/20/2012	120.6	624.78

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW06B	D	9/24/2012	120.9	624.48
WD-MW06B	D	10/1/2012	120.4	624.98
WD-MW06B	D	10/9/2012	120.8	624.58
WD-MW06B	D	10/15/2012	120.6	624.78
WD-MW06B	D	10/22/2012	120.7	624.68
WD-MW06B	D	10/31/2012	120.2	625.18
WD-MW06B	D	11/5/2012	120.7	624.68
WD-MW06B	D	11/13/2012	120.9	624.48
WD-MW06B	D	11/19/2012	120.8	624.58
WD-MW06B	D	11/26/2012	120.7	624.68
WD-MW06B	D	12/4/2012	120.6	624.78
WD-MW06B	D	12/10/2012	120.4	624.98
WD-MW06B	D	12/13/2012	121	624.38
WD-MW06B	D	12/14/2012	120.8	624.58
WD-MW06B	D	12/14/2012	120.9	624.48
WD-MW06B	D	12/15/2012	120.4	624.98
WD-MW06B	D	12/15/2012	120.8	624.58
WD-MW06B	D	12/16/2012	120.2	625.18
WD-MW06B	D	12/16/2012	120.3	625.08
WD-MW06B	D	12/17/2012	120.2	625.18
WD-MW06B	D	12/18/2012	120.4	624.98
WD-MW06B	D	12/19/2012	120.6	624.78
WD-MW06B	D	12/20/2012	119.9	625.48
WD-MW06B	D	12/20/2012	120.2	625.18
WD-MW06B	D	12/28/2012	120.4	624.98
WD-MW06B	D	1/3/2013	120.8	624.58
WD-MW06B	D	1/8/2013	120.9	624.48
WD-MW06B	D	1/14/2013	121	624.38
WD-MW06B	D	1/21/2013	120.6	624.78
WD-MW06B	D	1/28/2013	120.7	624.68
WD-MW06B	D	2/4/2013	120.5	624.88
WD-MW06B	D	2/11/2013	120.4	624.98
WD-MW06B	D	2/19/2013	120.4	624.98
WD-MW06B	D	2/25/2013	120.7	624.68
WD-MW06B	D	3/5/2013	120.5	624.88
WD-MW06B	D	3/13/2013	120.7	624.68
WD-MW06B	D	3/19/2013	120.5	624.88
WD-MW06B	D	3/27/2013	120.9	624.48
WD-MW06B	D	4/1/2013	120.6	624.78
WD-MW06B	D	4/8/2013	120.6	624.78
WD-MW06B	D	4/15/2013	120.6	624.78
WD-MW06B	D	4/23/2013	120.6	624.78
WD-MW06B	D	4/30/2013	120.6	624.78
WD-MW06B	D	5/9/2013	120.6	624.78

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW06B	D	5/13/2013	120.8	624.58
WD-MW06B	D	5/14/2013	120.7	624.68
WD-MW06B	D	5/15/2013	120.5	624.88
WD-MW06B	D	5/20/2013	120.6	624.78
WD-MW06B	D	5/23/2013	121.1	624.28
WD-MW06B	D	5/30/2013	121.5	623.88
WD-MW06B	D	6/6/2013	120.1	625.28
WD-MW06B	D	6/12/2013	120.5	624.88
WD-MW06B	D	6/20/2013	121.9	623.40
WD-MW06B	D	6/25/2013	120.6	624.70
WD-MW06B	D	7/2/2013	120.5	624.80
WD-MW06B	D	7/9/2013	120.6	624.70
WD-MW06B	D	7/16/2013	120.9	624.40
WD-MW06B	D	7/23/2013	123.6	621.70
WD-MW06B	D	7/30/2013	120.7	624.60
WD-MW06B	D	8/7/2013	120.4	624.90
WD-MW06B	D	8/15/2013	120.7	624.60
WD-MW07B	D	6/5/2012	90.49	640.30
WD-MW07B	D	6/6/2012	90.55	640.24
WD-MW07B	D	6/7/2012	90.63	640.16
WD-MW07B	D	6/11/2012	90.55	640.24
WD-MW07B	D	6/12/2012	90.45	640.34
WD-MW07B	D	6/18/2012	90.51	640.28
WD-MW07B	D	6/28/2012	90.81	639.98
WD-MW07B	D	7/2/2012	90.56	640.23
WD-MW07B	D	7/12/2012	90.62	640.17
WD-MW07B	D	7/16/2012	90.57	640.22
WD-MW07B	D	7/26/2012	90.2	640.59
WD-MW07B	D	8/2/2012	90.46	640.33
WD-MW07B	D	8/9/2012	90.44	640.35
WD-MW07B	D	8/14/2012	90.8	639.99
WD-MW07B	D	8/23/2012	90.68	640.11
WD-MW07B	D	8/30/2012	90.62	640.17
WD-MW07B	D	9/6/2012	90.33	640.46
WD-MW07B	D	9/13/2012	90.75	640.04
WD-MW07B	D	9/20/2012	90.45	640.34
WD-MW07B	D	9/24/2012	90.78	640.01
WD-MW07B	D	10/1/2012	90.41	640.38
WD-MW07B	D	10/9/2012	90.79	640.00
WD-MW07B	D	10/15/2012	90.45	640.34
WD-MW07B	D	10/22/2012	90.86	639.93
WD-MW07B	D	10/31/2012	90.45	640.34
WD-MW07B	D	11/5/2012	91.04	639.75
WD-MW07B	D	11/13/2012	91.23	639.56

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW07B	D	11/19/2012	91.14	639.65
WD-MW07B	D	11/26/2012	91.07	639.72
WD-MW07B	D	12/5/2012	91.18	639.61
WD-MW07B	D	12/10/2012	90.71	640.08
WD-MW07B	D	12/13/2012	92.21	638.58
WD-MW07B	D	12/14/2012	91.08	639.71
WD-MW07B	D	12/14/2012	91.19	639.60
WD-MW07B	D	12/15/2012	90.79	640.00
WD-MW07B	D	12/15/2012	90.91	639.88
WD-MW07B	D	12/16/2012	90.6	640.19
WD-MW07B	D	12/16/2012	90.64	640.15
WD-MW07B	D	12/17/2012	90.56	640.23
WD-MW07B	D	12/17/2012	90.63	640.16
WD-MW07B	D	12/18/2012	90.7	640.09
WD-MW07B	D	12/18/2012	90.71	640.08
WD-MW07B	D	12/19/2012	90.88	639.91
WD-MW07B	D	12/19/2012	90.94	639.85
WD-MW07B	D	12/20/2012	90.35	640.44
WD-MW07B	D	12/20/2012	90.62	640.17
WD-MW07B	D	12/28/2012	91.05	639.74
WD-MW07B	D	1/3/2013	91.16	639.63
WD-MW07B	D	1/8/2013	91.17	639.62
WD-MW07B	D	1/14/2013	91.13	639.66
WD-MW07B	D	1/21/2013	90.96	639.83
WD-MW07B	D	1/28/2013	91.03	639.76
WD-MW07B	D	2/4/2013	90.85	639.94
WD-MW07B	D	2/11/2013	90.74	640.05
WD-MW07B	D	2/19/2013	90.76	640.03
WD-MW07B	D	2/25/2013	91.02	639.77
WD-MW07B	D	3/5/2013	90.78	640.01
WD-MW07B	D	3/13/2013	91	639.79
WD-MW07B	D	3/19/2013	90.85	639.94
WD-MW07B	D	3/27/2013	91.11	639.68
WD-MW07B	D	4/1/2013	90.92	639.87
WD-MW07B	D	4/8/2013	90.93	639.86
WD-MW07B	D	4/15/2013	90.85	639.94
WD-MW07B	D	4/23/2013	91.91	638.88
WD-MW07B	D	4/30/2013	90.86	639.93
WD-MW07B	D	5/9/2013	90.83	639.96
WD-MW07B	D	5/13/2013	91.05	639.74
WD-MW07B	D	5/14/2013	90.95	639.84
WD-MW07B	D	5/15/2013	90.75	640.04
WD-MW07B	D	5/20/2013	90.85	639.94
WD-MW07B	D	5/23/2013	90.77	640.02

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-MW07B	D	5/30/2013	91.65	639.14
WD-MW07B	D	6/6/2013	90.74	640.05
WD-MW07B	D	6/12/2013	90.6	640.19
WD-MW07B	D	6/20/2013	90.91	639.27
WD-MW07B	D	6/25/2013	90.75	639.43
WD-MW07B	D	7/2/2013	90.7	639.48
WD-MW07B	D	7/9/2013	90.76	639.42
WD-MW07B	D	7/16/2013	91.05	639.13
WD-MW07B	D	7/23/2013	95.2	634.98
WD-MW07B	D	7/30/2013	90.83	639.35
WD-MW07B	D	8/7/2013	90.65	639.53
WD-MW07B	D	8/15/2013	90.87	639.31
WD-PZ01G	A	6/11/2011	26.18	660.15
WD-PZ01G	A	7/12/2011	25.97	660.36
WD-PZ01G	A	8/15/2011	26.46	659.87
WD-PZ01G	A	9/12/2011	26.73	659.60
WD-PZ01G	A	10/12/2011	26.65	659.68
WD-PZ01G	A	11/10/2011	26.51	659.82
WD-PZ01G	A	12/12/2011	26.42	659.91
WD-PZ01G	A	1/30/2012	25.77	660.56
WD-PZ01G	A	2nd Quarter 2012	26.04	660.29
WD-PZ01G	A	3rd Quarter 2012	26.60	659.73
WD-PZ01G	A	4th Quarter 2012	28.37	657.96
WD-PZ01G	A	1st Quarter 2013	26.71	659.62
WD-PZ01G	A	2nd Quarter 2013	25.92	660.41
WD-PZ01G	A	3rd Quarter 2013	26.35	659.98
WD-PZ02G	A	6/11/2011	28.79	660.77
WD-PZ02G	A	7/12/2011	28.55	661.01
WD-PZ02G	A	8/15/2011	28.74	660.82
WD-PZ02G	A	9/12/2011	29.10	660.46
WD-PZ02G	A	10/12/2011	29.08	660.48
WD-PZ02G	A	11/10/2011	29.13	660.43
WD-PZ02G	A	12/12/2011	29.35	660.21
WD-PZ02G	A	1/30/2012	28.52	661.04
WD-PZ02G	A	2nd Quarter 2012	28.25	661.31
WD-PZ02G	A	3rd Quarter 2012	28.62	660.94
WD-PZ02G	A	4th Quarter 2012	30.50	659.06
WD-PZ02G	A	1st Quarter 2013	29.65	659.91
WD-PZ02G	A	2nd Quarter 2013	28.53	661.03
WD-PZ02G	A	3rd Quarter 2013	29.13	660.43
WD-PZ03G	A	6/11/2011	5.24	656.04
WD-PZ03G	A	7/12/2011	5.07	656.21
WD-PZ03G	A	8/15/2011	5.91	655.37
WD-PZ03G	A	9/12/2011	6.11	655.17

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ03G	A	10/12/2011	5.96	655.32
WD-PZ03G	A	11/10/2011	5.49	655.79
WD-PZ03G	A	12/12/2011	4.82	656.46
WD-PZ03G	A	1/30/2012	4.21	657.07
WD-PZ03G	A	2nd Quarter 2012	5.36	655.92
WD-PZ03G	A	3rd Quarter 2012	6.39	654.89
WD-PZ03G	A	4th Quarter 2012	7.66	653.62
WD-PZ03G	A	1st Quarter 2013	5.34	655.94
WD-PZ03G	A	2nd Quarter 2013	5.19	656.09
WD-PZ03G	A	3rd Quarter 2013	5.39	655.89
WD-PZ04C	A/C	6/11/2011	130.90	622.37
WD-PZ04C	A/C	7/12/2011	129.17	624.10
WD-PZ04C	A/C	8/15/2011	DRY	DRY
WD-PZ04C	A/C	9/12/2011	129.42	623.85
WD-PZ04C	A/C	10/12/2011	128.01	625.26
WD-PZ04C	A/C	11/10/2011	121.60	631.67
WD-PZ04C	A/C	12/12/2011	123.09	630.18
WD-PZ04C	A/C	1/30/2012	128.36	624.91
WD-PZ04C	A/C	2nd Quarter 2012	130.21	623.06
WD-PZ04C	A/C	3rd Quarter 2012	125.83	627.44
WD-PZ04C	A/C	4th Quarter 2012	122.17	631.10
WD-PZ04C	A/C	1st Quarter 2013	108.61	644.66
WD-PZ04C	A/C	5/22/2013	88.20	665.07
WD-PZ04C	A/C	6/25/2013	105.74	647.53
WD-PZ04C	A/C	7/17/2013	101.77	651.5
WD-PZ04C	A/C	8/20/2013	98.10	655.17
WD-PZ05C	C	6/11/2011	68.72	628.72
WD-PZ05C	C	7/12/2011	68.24	629.20
WD-PZ05C	C	8/15/2011	DRY	DRY
WD-PZ05C	C	9/12/2011	68.39	629.05
WD-PZ05C	C	10/12/2011	68.22	629.22
WD-PZ05C	C	11/10/2011	67.72	629.72
WD-PZ05C	C	12/12/2011	67.24	630.20
WD-PZ05C	C	1/30/2012	66.51	630.93
WD-PZ05C	C	2nd Quarter 2012	65.34	632.10
WD-PZ05C	C	3rd Quarter 2012	62.58	634.86
WD-PZ05C	C	4th Quarter 2012	66.74	630.70
WD-PZ05C	C	1st Quarter 2013	66.98	630.46
WD-PZ05C	C	5/22/2013	66.60	630.84
WD-PZ05C	C	6/25/2013	68.39	629.05
WD-PZ05C	C	7/17/2013	67.95	629.49
WD-PZ05C	C	8/20/2013	67.26	630.18
WD-PZ06C	C	6/11/2011	126.98	630.26
WD-PZ06C	C	7/12/2011	DRY	DRY

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ06C	C	8/15/2011	DRY	DRY
WD-PZ06C	C	9/12/2011	126.51	630.73
WD-PZ06C	C	10/12/2011	126.58	630.66
WD-PZ06C	C	11/10/2011	126.32	630.92
WD-PZ06C	C	12/12/2011	126.65	630.59
WD-PZ06C	C	1/30/2012	126.37	630.87
WD-PZ06C	C	2nd Quarter 2012	126.05	631.19
WD-PZ06C	C	3rd Quarter 2012	125.81	631.43
WD-PZ06C	C	4th Quarter 2012	126.45	630.79
WD-PZ06C	C	1st Quarter 2013	126.93	630.31
WD-PZ06C	C	5/22/2013	126.93	630.31
WD-PZ06C	C	6/25/2013	127.29	629.95
WD-PZ06C	C	7/17/2013	127.23	630.01
WD-PZ06C	C	8/20/2013	127.18	630.06
WD-PZ07C	C	6/11/2011	131.99	630.44
WD-PZ07C	C	7/12/2011	132.00	630.43
WD-PZ07C	C	8/15/2011	DRY	DRY
WD-PZ07C	C	9/12/2011	131.96	630.47
WD-PZ07C	C	10/12/2011	132.01	630.42
WD-PZ07C	C	11/10/2011	131.92	630.51
WD-PZ07C	C	12/12/2011	131.87	630.56
WD-PZ07C	C	1/30/2012	131.80	630.63
WD-PZ07C	C	2nd Quarter 2012	131.74	630.69
WD-PZ07C	C	3rd Quarter 2012	131.64	630.79
WD-PZ07C	C	4th Quarter 2012	131.76	630.67
WD-PZ07C	C	1st Quarter 2013	132.17	630.26
WD-PZ07C	C	5/22/2013	132.31	630.12
WD-PZ07C	C	6/25/2013	132.34	630.09
WD-PZ07C	C	7/17/2013	132.33	630.1
WD-PZ07C	C	8/20/2013	132.30	630.13
WD-PZ08C	D	6/5/2012	DRY	DRY
WD-PZ08C	D	6/6/2012	DRY	DRY
WD-PZ08C	D	6/7/2012	DRY	DRY
WD-PZ08C	D	6/11/2012	59.14	671.91
WD-PZ08C	D	6/12/2012	59.08	671.97
WD-PZ08C	D	6/18/2012	58.81	672.24
WD-PZ08C	D	6/28/2012	58.31	672.74
WD-PZ08C	D	7/2/2012	58.11	672.94
WD-PZ08C	D	7/12/2012	57.66	673.39
WD-PZ08C	D	7/16/2012	57.45	673.60
WD-PZ08C	D	7/26/2012	56.92	674.13
WD-PZ08C	D	8/2/2012	56.5	674.55
WD-PZ08C	D	8/9/2012	56.18	674.87
WD-PZ08C	D	8/14/2012	55.94	675.11

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ08C	D	8/23/2012	55.53	675.52
WD-PZ08C	D	8/30/2012	55.22	675.83
WD-PZ08C	D	9/6/2012	54.98	676.07
WD-PZ08C	D	9/13/2012	54.77	676.28
WD-PZ08C	D	9/20/2012	57.9	673.15
WD-PZ08C	D	9/24/2012	57.75	673.30
WD-PZ08C	D	10/1/2012	58.03	673.02
WD-PZ08C	D	10/9/2012	57.82	673.23
WD-PZ08C	D	10/15/2012	57.61	673.44
WD-PZ08C	D	10/22/2012	57.03	674.02
WD-PZ08C	D	10/31/2012	57.1	673.95
WD-PZ08C	D	11/5/2012	56.95	674.10
WD-PZ08C	D	11/13/2012	56.64	674.41
WD-PZ08C	D	11/19/2012	56.39	674.66
WD-PZ08C	D	11/26/2012	56.2	674.85
WD-PZ08C	D	12/5/2012	58.13	672.92
WD-PZ08C	D	12/10/2012	58	673.05
WD-PZ08C	D	12/13/2012	57.52	673.53
WD-PZ08C	D	12/14/2012	57.67	673.38
WD-PZ08C	D	12/14/2012	57.69	673.36
WD-PZ08C	D	12/15/2012	57.61	673.44
WD-PZ08C	D	12/15/2012	57.62	673.43
WD-PZ08C	D	12/16/2012	57.58	673.47
WD-PZ08C	D	12/17/2012	57.54	673.51
WD-PZ08C	D	12/17/2012	57.57	673.48
WD-PZ08C	D	12/18/2012	57.49	673.56
WD-PZ08C	D	12/18/2012	57.51	673.54
WD-PZ08C	D	12/19/2012	57.44	673.61
WD-PZ08C	D	12/19/2012	57.46	673.59
WD-PZ08C	D	12/20/2012	57.41	673.64
WD-PZ08C	D	12/28/2012	57.14	673.91
WD-PZ08C	D	1/3/2013	56.81	674.24
WD-PZ08C	D	1/8/2013	56.66	674.39
WD-PZ08C	D	1/14/2013	56.28	674.77
WD-PZ08C	D	1/21/2013	55.95	675.10
WD-PZ08C	D	1/28/2013	55.61	675.44
WD-PZ08C	D	2/4/2013	55.25	675.80
WD-PZ08C	D	2/11/2013	54.91	676.14
WD-PZ08C	D	2/19/2013	54.51	676.54
WD-PZ08C	D	2/25/2013	56.97	674.08
WD-PZ08C	D	3/5/2013	57.16	673.89
WD-PZ08C	D	3/13/2013	56.18	674.87
WD-PZ08C	D	3/19/2013	55.87	675.18
WD-PZ08C	D	3/27/2013	55.45	675.60

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ08C	D	4/1/2013	55.18	675.87
WD-PZ08C	D	4/8/2013	54.9	676.15
WD-PZ08C	D	4/15/2013	54.43	676.62
WD-PZ08C	D	4/23/2013	53.96	676.12
WD-PZ08C	D	4/30/2013	53.47	676.61
WD-PZ08C	D	5/9/2013	9	721.08
WD-PZ08C	D	5/13/2013	24.22	705.86
WD-PZ08C	D	5/14/2013	26.28	703.80
WD-PZ08C	D	5/15/2013	28.79	701.29
WD-PZ08C	D	5/20/2013	48.81	681.27
WD-PZ08C	D	5/23/2013	48.96	681.12
WD-PZ08C	D	5/30/2013	48.79	681.29
WD-PZ08C	D	6/6/2013	51.59	678.49
WD-PZ08C	D	6/12/2013	50.38	679.70
WD-PZ08C	D	6/20/2013	49.13	680.95
WD-PZ08C	D	6/24/2013	48.45	681.63
WD-PZ08C	D	7/1/2013	50.25	679.83
WD-PZ08C	D	7/9/2013	48.86	681.22
WD-PZ08C	D	7/16/2013	47.73	682.35
WD-PZ08C	D	7/23/2013	46.67	683.41
WD-PZ08C	D	7/30/2013	45.98	684.10
WD-PZ08C	D	8/7/2013	45.43	684.65
WD-PZ08C	D	8/15/2013	45.09	684.99
WD-PZ09C	D	6/5/2012	71.84	684.50
WD-PZ09C	D	6/6/2012	71.9	684.44
WD-PZ09C	D	6/7/2012	72.01	684.33
WD-PZ09C	D	6/11/2012	71.98	684.36
WD-PZ09C	D	6/12/2012	71.89	684.45
WD-PZ09C	D	6/18/2012	71.99	684.35
WD-PZ09C	D	6/28/2012	72.11	684.23
WD-PZ09C	D	7/2/2012	72.28	684.06
WD-PZ09C	D	7/12/2012	72.56	683.78
WD-PZ09C	D	7/16/2012	72.45	683.89
WD-PZ09C	D	7/26/2012	72.31	684.03
WD-PZ09C	D	8/2/2012	72.57	683.77
WD-PZ09C	D	8/9/2012	72.57	683.77
WD-PZ09C	D	8/14/2012	72.74	683.60
WD-PZ09C	D	8/23/2012	73.04	683.30
WD-PZ09C	D	8/30/2012	73.05	683.29
WD-PZ09C	D	9/6/2012	71.37	684.97
WD-PZ09C	D	9/20/2012	73.5	682.84
WD-PZ09C	D	9/24/2012	73.88	682.46
WD-PZ09C	D	10/1/2012	73.62	682.72
WD-PZ09C	D	10/9/2012	73.96	682.38

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ09C	D	10/15/2012	73.71	682.63
WD-PZ09C	D	10/22/2012	74.06	682.28
WD-PZ09C	D	10/31/2012	73.61	682.73
WD-PZ09C	D	11/5/2012	74.09	682.25
WD-PZ09C	D	11/13/2012	74.35	681.99
WD-PZ09C	D	11/19/2012	74.23	682.11
WD-PZ09C	D	11/26/2012	74.3	682.04
WD-PZ09C	D	12/5/2012	74.41	681.93
WD-PZ09C	D	12/10/2012	73.45	682.89
WD-PZ09C	D	12/13/2012	74.66	681.68
WD-PZ09C	D	12/14/2012	81.87	674.47
WD-PZ09C	D	12/15/2012	80.52	675.82
WD-PZ09C	D	12/16/2012	80.92	675.42
WD-PZ09C	D	12/17/2012	81.61	674.73
WD-PZ09C	D	12/18/2012	81.5	674.84
WD-PZ09C	D	12/19/2012	81.64	674.70
WD-PZ09C	D	12/20/2012	81.7	674.64
WD-PZ09C	D	12/28/2012	74.51	681.83
WD-PZ09C	D	1/3/2013	74.54	681.80
WD-PZ09C	D	1/8/2013	74.36	681.98
WD-PZ09C	D	1/14/2013	74.36	681.98
WD-PZ09C	D	1/21/2013	73.93	682.41
WD-PZ09C	D	1/28/2013	73.91	682.43
WD-PZ09C	D	2/4/2013	73.68	682.66
WD-PZ09C	D	2/11/2013	73.53	682.81
WD-PZ09C	D	2/19/2013	73.59	682.75
WD-PZ09C	D	2/25/2013	73.72	682.62
WD-PZ09C	D	3/5/2013	73.39	682.95
WD-PZ09C	D	3/13/2013	73.68	682.66
WD-PZ09C	D	3/19/2013	73.43	682.91
WD-PZ09C	D	3/27/2013	73.67	682.67
WD-PZ09C	D	4/1/2013	73.31	683.03
WD-PZ09C	D	4/8/2013	73.21	683.13
WD-PZ09C	D	4/15/2013	73.2	683.14
WD-PZ09C	D	4/23/2013	73	682.58
WD-PZ09C	D	4/30/2013	10.81	744.77
WD-PZ09C	D	5/7/2013	70.88	684.70
WD-PZ09C	D	5/9/2013	72.41	683.17
WD-PZ09C	D	5/13/2013	72.5	683.08
WD-PZ09C	D	5/14/2013	72.22	683.36
WD-PZ09C	D	5/15/2013	72.15	683.43
WD-PZ09C	D	5/20/2013	72.21	683.37
WD-PZ09C	D	5/23/2013	72.16	683.42
WD-PZ09C	D	5/30/2013	73.05	682.53

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ09C	D	6/6/2013	72.1	683.48
WD-PZ09C	D	6/12/2013	72.28	683.30
WD-PZ09C	D	6/20/2013	72.51	683.07
WD-PZ09C	D	6/25/2013	72.4	683.18
WD-PZ09C	D	7/2/2013	72.35	683.23
WD-PZ09C	D	7/9/2013	72.38	683.20
WD-PZ09C	D	7/16/2013	72.61	682.97
WD-PZ09C	D	7/23/2013	72.15	683.43
WD-PZ09C	D	7/30/2013	72.43	683.15
WD-PZ09C	D	8/7/2013	72.25	683.33
WD-PZ09C	D	8/15/2013	72.51	683.07
WD-PZ10C	D	6/5/2012	DRY	DRY
WD-PZ10C	D	6/6/2012	DRY	DRY
WD-PZ10C	D	6/7/2012	DRY	DRY
WD-PZ10C	D	6/11/2012	DRY	DRY
WD-PZ10C	D	6/12/2012	DRY	DRY
WD-PZ10C	D	6/18/2012	DRY	DRY
WD-PZ10C	D	6/28/2012	DRY	DRY
WD-PZ10C	D	7/2/2012	DRY	DRY
WD-PZ10C	D	7/12/2012	DRY	DRY
WD-PZ10C	D	7/16/2012	DRY	DRY
WD-PZ10C	D	7/26/2012	DRY	DRY
WD-PZ10C	D	8/2/2012	DRY	DRY
WD-PZ10C	D	8/9/2012	DRY	DRY
WD-PZ10C	D	8/14/2012	DRY	DRY
WD-PZ10C	D	8/23/2012	DRY	DRY
WD-PZ10C	D	8/30/2012	DRY	DRY
WD-PZ10C	D	9/6/2012	DRY	DRY
WD-PZ10C	D	9/13/2012	DRY	DRY
WD-PZ10C	D	9/20/2012	DRY	DRY
WD-PZ10C	D	9/24/2012	DRY	DRY
WD-PZ10C	D	10/1/2012	DRY	DRY
WD-PZ10C	D	10/9/2012	DRY	DRY
WD-PZ10C	D	10/15/2012	DRY	DRY
WD-PZ10C	D	10/22/2012	DRY	DRY
WD-PZ10C	D	10/31/2012	DRY	DRY
WD-PZ10C	D	11/5/2012	DRY	DRY
WD-PZ10C	D	11/13/2012	DRY	DRY
WD-PZ10C	D	11/19/2012	DRY	DRY
WD-PZ10C	D	11/26/2012	DRY	DRY
WD-PZ10C	D	12/5/2012	DRY	DRY
WD-PZ10C	D	12/10/2012	DRY	DRY
WD-PZ10C	D	12/13/2012	DRY	DRY
WD-PZ10C	D	12/14/2012	DRY	DRY

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ10C	D	12/15/2012	DRY	DRY
WD-PZ10C	D	12/16/2012	DRY	DRY
WD-PZ10C	D	12/17/2012	DRY	DRY
WD-PZ10C	D	12/18/2012	DRY	DRY
WD-PZ10C	D	12/19/2012	DRY	DRY
WD-PZ10C	D	12/20/2012	DRY	DRY
WD-PZ10C	D	12/28/2012	43.37	686.39
WD-PZ10C	D	1/3/2013	43.18	686.58
WD-PZ10C	D	1/8/2013	43.56	686.20
WD-PZ10C	D	1/14/2013	43.06	686.70
WD-PZ10C	D	1/21/2013	42.61	687.15
WD-PZ10C	D	1/28/2013	42.51	687.25
WD-PZ10C	D	2/4/2013	42.45	687.31
WD-PZ10C	D	2/11/2013	42.32	687.44
WD-PZ10C	D	2/19/2013	42.26	687.50
WD-PZ10C	D	2/25/2013	42.31	687.45
WD-PZ10C	D	3/5/2013	42.3	687.46
WD-PZ10C	D	3/13/2013	42.1	687.66
WD-PZ10C	D	3/19/2013	41.98	687.78
WD-PZ10C	D	3/27/2013	41.51	688.25
WD-PZ10C	D	4/1/2013	41.21	688.55
WD-PZ10C	D	4/8/2013	41	688.76
WD-PZ10C	D	4/15/2013	40.92	688.84
WD-PZ10C	D	4/23/2013	40.11	688.75
WD-PZ10C	D	4/30/2013	39.91	688.95
WD-PZ10C	D	5/9/2013	43.62	685.24
WD-PZ10C	D	5/13/2013	43.8	685.06
WD-PZ10C	D	5/14/2013	43.71	685.15
WD-PZ10C	D	5/15/2013	43.69	685.17
WD-PZ10C	D	5/20/2013	43.72	685.14
WD-PZ10C	D	5/23/2013	44.25	684.61
WD-PZ10C	D	5/30/2013	44.42	684.44
WD-PZ10C	D	6/6/2013	47.12	681.74
WD-PZ10C	D	6/12/2013	47.08	681.78
WD-PZ10C	D	6/20/2013	47.14	681.72
WD-PZ10C	D	6/25/2013	53.68	675.18
WD-PZ10C	D	7/2/2013	53.68	675.18
WD-PZ10C	D	7/9/2013	DRY	DRY
WD-PZ10C	D	7/16/2013	DRY	DRY
WD-PZ10C	D	7/23/2013	DRY	DRY
WD-PZ10C	D	7/30/2013	DRY	DRY
WD-PZ10C	D	8/7/2013	DRY	DRY
WD-PZ10C	D	8/15/2013	DRY	DRY
WD-PZ11C	D	6/5/2012	61.5	684.28

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ11C	D	6/6/2012	61.61	684.17
WD-PZ11C	D	6/7/2012	61.72	684.06
WD-PZ11C	D	6/11/2012	61.71	684.07
WD-PZ11C	D	6/12/2012	61.62	684.16
WD-PZ11C	D	6/18/2012	61.54	684.24
WD-PZ11C	D	6/28/2012	61.88	683.90
WD-PZ11C	D	7/2/2012	62.07	683.71
WD-PZ11C	D	7/12/2012	62.28	683.50
WD-PZ11C	D	7/16/2012	62.28	683.50
WD-PZ11C	D	7/26/2012	62.14	683.64
WD-PZ11C	D	8/2/2012	62.35	683.43
WD-PZ11C	D	8/9/2012	62.44	683.34
WD-PZ11C	D	8/14/2012	62.5	683.28
WD-PZ11C	D	8/23/2012	62.88	682.90
WD-PZ11C	D	8/30/2012	62.91	682.87
WD-PZ11C	D	9/6/2012	62.9	682.88
WD-PZ11C	D	9/13/2012	63.53	682.25
WD-PZ11C	D	9/20/2012	63.3	682.48
WD-PZ11C	D	9/24/2012	63.81	681.97
WD-PZ11C	D	10/1/2012	63.4	682.38
WD-PZ11C	D	10/9/2012	63.69	682.09
WD-PZ11C	D	10/15/2012	63.4	682.38
WD-PZ11C	D	10/22/2012	63.79	681.99
WD-PZ11C	D	10/31/2012	63.42	682.36
WD-PZ11C	D	11/5/2012	63.91	681.87
WD-PZ11C	D	11/13/2012	64.26	681.52
WD-PZ11C	D	11/19/2012	64.16	681.62
WD-PZ11C	D	11/26/2012	64.07	681.71
WD-PZ11C	D	12/5/2012	64.15	681.63
WD-PZ11C	D	12/10/2012	63.98	681.80
WD-PZ11C	D	12/13/2012	64.47	681.31
WD-PZ11C	D	12/14/2012	64.58	681.20
WD-PZ11C	D	12/15/2012	64.37	681.41
WD-PZ11C	D	12/16/2012	64.61	681.17
WD-PZ11C	D	12/17/2012	64.47	681.31
WD-PZ11C	D	12/18/2012	64.65	681.13
WD-PZ11C	D	12/19/2012	64.92	680.86
WD-PZ11C	D	12/20/2012	64.89	680.89
WD-PZ11C	D	12/28/2012	64.27	681.51
WD-PZ11C	D	1/3/2013	64.15	681.63
WD-PZ11C	D	1/8/2013	64.15	681.63
WD-PZ11C	D	1/14/2013	64.05	681.73
WD-PZ11C	D	1/21/2013	63.72	682.06
WD-PZ11C	D	1/28/2013	63.68	682.10

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ11C	D	2/4/2013	63.53	682.25
WD-PZ11C	D	2/11/2013	63.25	682.53
WD-PZ11C	D	2/19/2013	63.17	682.61
WD-PZ11C	D	2/25/2013	63.48	682.30
WD-PZ11C	D	3/5/2013	63.2	682.58
WD-PZ11C	D	3/13/2013	62.3	683.48
WD-PZ11C	D	3/19/2013	63.19	682.59
WD-PZ11C	D	3/27/2013	63.3	682.48
WD-PZ11C	D	4/1/2013	62.94	682.84
WD-PZ11C	D	4/8/2013	62.87	682.91
WD-PZ11C	D	4/15/2013	62.83	682.95
WD-PZ11C	D	4/23/2013	62.19	683.03
WD-PZ11C	D	4/30/2013	62.02	683.20
WD-PZ11C	D	5/7/2013	62.36	682.86
WD-PZ11C	D	5/8/2013	62.32	682.90
WD-PZ11C	D	5/9/2013	61.96	683.26
WD-PZ11C	D	5/13/2013	64.36	680.86
WD-PZ11C	D	5/14/2013	68.47	676.75
WD-PZ11C	D	5/15/2013	61.69	683.53
WD-PZ11C	D	5/20/2013	61.89	683.33
WD-PZ11C	D	5/23/2013	62.35	682.87
WD-PZ11C	D	5/30/2013	62.7	682.52
WD-PZ11C	D	6/6/2013	61.72	683.50
WD-PZ11C	D	6/12/2013	62.18	683.04
WD-PZ11C	D	6/20/2013	62.15	683.07
WD-PZ11C	D	6/24/2013	62.11	683.11
WD-PZ11C	D	7/2/2013	62.07	683.15
WD-PZ11C	D	7/9/2013	62.05	683.17
WD-PZ11C	D	7/16/2013	62.28	682.94
WD-PZ11C	D	7/23/2013	61.77	683.45
WD-PZ11C	D	7/30/2013	62.07	683.15
WD-PZ11C	D	8/7/2013	61.92	683.30
WD-PZ11C	D	8/15/2013	62.2	683.02
WD-PZ12C	D	6/5/2012	66.48	684.86
WD-PZ12C	D	6/6/2012	66.57	684.77
WD-PZ12C	D	6/7/2012	66.75	684.59
WD-PZ12C	D	6/11/2012	66.77	684.57
WD-PZ12C	D	6/12/2012	66.65	684.69
WD-PZ12C	D	6/18/2012	66.8	684.54
WD-PZ12C	D	6/28/2012	66.92	684.42
WD-PZ12C	D	7/2/2012	67.11	684.23
WD-PZ12C	D	7/12/2012	67.41	683.93
WD-PZ12C	D	7/16/2012	67.41	683.93
WD-PZ12C	D	7/26/2012	67.24	684.10

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ12C	D	8/2/2012	67.5	683.84
WD-PZ12C	D	8/9/2012	67.5	683.84
WD-PZ12C	D	8/14/2012	67.61	683.73
WD-PZ12C	D	8/23/2012	68.03	683.31
WD-PZ12C	D	8/30/2012	68.04	683.30
WD-PZ12C	D	9/6/2012	68.1	683.24
WD-PZ12C	D	9/13/2012	68.75	682.59
WD-PZ12C	D	10/1/2012	68.57	682.77
WD-PZ12C	D	10/9/2012	68.89	682.45
WD-PZ12C	D	10/15/2012	68.62	682.72
WD-PZ12C	D	10/22/2012	69.02	682.32
WD-PZ12C	D	10/31/2012	68.57	682.77
WD-PZ12C	D	11/5/2012	69.03	682.31
WD-PZ12C	D	11/13/2012	69.3	682.04
WD-PZ12C	D	11/19/2012	69.18	682.16
WD-PZ12C	D	11/26/2012	69.25	682.09
WD-PZ12C	D	12/5/2012	69.36	681.98
WD-PZ12C	D	12/10/2012	68.81	682.53
WD-PZ12C	D	12/13/2012	73.34	678.00
WD-PZ12C	D	12/14/2012	71.97	679.37
WD-PZ12C	D	12/15/2012	71.71	679.63
WD-PZ12C	D	12/16/2012	71.7	679.64
WD-PZ12C	D	12/17/2012	72.99	678.35
WD-PZ12C	D	12/18/2012	73.98	677.36
WD-PZ12C	D	12/19/2012	73.28	678.06
WD-PZ12C	D	12/20/2012	73.42	677.92
WD-PZ12C	D	12/28/2012	69.4	681.94
WD-PZ12C	D	1/3/2013	69.41	681.93
WD-PZ12C	D	1/8/2013	69.29	682.05
WD-PZ12C	D	1/14/2013	69.23	682.11
WD-PZ12C	D	1/21/2013	68.79	682.55
WD-PZ12C	D	1/28/2013	68.79	682.55
WD-PZ12C	D	2/4/2013	68.55	682.79
WD-PZ12C	D	2/11/2013	68.41	682.93
WD-PZ12C	D	2/19/2013	68.41	682.93
WD-PZ12C	D	2/25/2013	68.6	682.74
WD-PZ12C	D	3/5/2013	68.27	683.07
WD-PZ12C	D	3/13/2013	68.55	682.79
WD-PZ12C	D	3/19/2013	68.4	682.94
WD-PZ12C	D	3/27/2013	68.56	682.78
WD-PZ12C	D	4/1/2013	68.19	683.15
WD-PZ12C	D	4/8/2013	68.08	683.26
WD-PZ12C	D	4/15/2013	68.06	683.28
WD-PZ12C	D	4/23/2013	67.85	682.77

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ12C	D	5/9/2013	67.26	683.36
WD-PZ12C	D	5/13/2013	67.38	683.24
WD-PZ12C	D	5/14/2013	67.14	683.48
WD-PZ12C	D	5/15/2013	67.07	683.55
WD-PZ12C	D	5/20/2013	67.11	683.51
WD-PZ12C	D	5/23/2013	67.06	683.56
WD-PZ12C	D	5/30/2013	67.95	682.67
WD-PZ12C	D	6/6/2013	67.01	683.61
WD-PZ12C	D	6/12/2013	67.14	683.48
WD-PZ12C	D	6/20/2013	67.41	683.21
WD-PZ12C	D	6/25/2013	67.31	683.31
WD-PZ12C	D	7/2/2013	67.32	683.30
WD-PZ12C	D	7/9/2013	67.31	683.31
WD-PZ12C	D	7/16/2013	67.52	683.10
WD-PZ12C	D	7/23/2013	67.1	683.52
WD-PZ12C	D	7/30/2013	67.33	683.29
WD-PZ12C	D	8/7/2013	67.15	683.47
WD-PZ12C	D	8/15/2013	67.42	683.20
WD-PZ13C	D	6/5/2012	24.65	680.77
WD-PZ13C	D	6/6/2012	24.65	680.77
WD-PZ13C	D	6/7/2012	24.66	680.76
WD-PZ13C	D	6/11/2012	24.79	680.63
WD-PZ13C	D	6/12/2012	24.77	680.65
WD-PZ13C	D	6/18/2012	24.92	680.50
WD-PZ13C	D	6/28/2012	24.99	680.43
WD-PZ13C	D	7/2/2012	25.15	680.27
WD-PZ13C	D	7/12/2012	25.32	680.10
WD-PZ13C	D	7/16/2012	25.53	679.89
WD-PZ13C	D	7/26/2012	27.4	678.02
WD-PZ13C	D	8/2/2012	27.55	677.87
WD-PZ13C	D	8/9/2012	27.61	677.81
WD-PZ13C	D	8/14/2012	25.91	679.51
WD-PZ13C	D	8/23/2012	27.7	677.72
WD-PZ13C	D	8/30/2012	27.5	677.92
WD-PZ13C	D	9/6/2012	27.16	678.26
WD-PZ13C	D	9/13/2012	27.18	678.24
WD-PZ13C	D	9/20/2012	27	678.42
WD-PZ13C	D	9/24/2012	26.88	678.54
WD-PZ13C	D	10/1/2012	28.21	677.21
WD-PZ13C	D	10/9/2012	28.33	677.09
WD-PZ13C	D	10/15/2012	22.24	683.18
WD-PZ13C	D	10/22/2012	28.24	677.18
WD-PZ13C	D	10/31/2012	27.28	678.14
WD-PZ13C	D	11/5/2012	27.48	677.94

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ13C	D	11/13/2012	27.57	677.85
WD-PZ13C	D	11/19/2012	27.34	678.08
WD-PZ13C	D	11/26/2012	27.05	678.37
WD-PZ13C	D	12/5/2012	27.31	678.11
WD-PZ13C	D	12/10/2012	28.21	677.21
WD-PZ13C	D	12/13/2012	27.71	677.71
WD-PZ13C	D	12/14/2012	27.57	677.85
WD-PZ13C	D	12/14/2012	27.59	677.83
WD-PZ13C	D	12/15/2012	27.54	677.88
WD-PZ13C	D	12/15/2012	27.56	677.86
WD-PZ13C	D	12/16/2012	27.38	678.04
WD-PZ13C	D	12/16/2012	27.41	678.01
WD-PZ13C	D	12/17/2012	27.26	678.16
WD-PZ13C	D	12/17/2012	27.29	678.13
WD-PZ13C	D	12/18/2012	27.2	678.22
WD-PZ13C	D	12/18/2012	27.21	678.21
WD-PZ13C	D	12/19/2012	27.21	678.21
WD-PZ13C	D	12/19/2012	27.26	678.16
WD-PZ13C	D	12/20/2012	27.22	678.20
WD-PZ13C	D	12/20/2012	27.28	678.14
WD-PZ13C	D	12/28/2012	27.3	678.12
WD-PZ13C	D	1/3/2013	27.27	678.15
WD-PZ13C	D	1/8/2013	27.31	678.11
WD-PZ13C	D	1/14/2013	27.1	678.32
WD-PZ13C	D	1/21/2013	26.83	678.59
WD-PZ13C	D	1/28/2013	27.07	678.35
WD-PZ13C	D	2/4/2013	26.74	678.68
WD-PZ13C	D	2/11/2013	26.74	678.68
WD-PZ13C	D	2/19/2013	26.77	678.65
WD-PZ13C	D	2/25/2013	27.13	678.29
WD-PZ13C	D	3/5/2013	26.75	678.67
WD-PZ13C	D	3/13/2013	26.65	678.77
WD-PZ13C	D	3/19/2013	26.45	678.97
WD-PZ13C	D	3/27/2013	26.51	678.91
WD-PZ13C	D	4/1/2013	26.11	679.31
WD-PZ13C	D	4/8/2013	25.94	679.48
WD-PZ13C	D	4/15/2013	25.79	679.63
WD-PZ13C	D	4/23/2013	23.89	681.38
WD-PZ13C	D	4/30/2013	25.04	680.23
WD-PZ13C	D	5/7/2013	25.45	679.82
WD-PZ13C	D	5/8/2013	25.44	679.83
WD-PZ13C	D	5/9/2013	24.99	680.28
WD-PZ13C	D	5/13/2013	29.05	676.22
WD-PZ13C	D	5/14/2013	25.82	679.45

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ13C	D	5/15/2013	24.88	680.39
WD-PZ13C	D	5/20/2013	25.3	679.97
WD-PZ13C	D	5/23/2013	25.5	679.77
WD-PZ13C	D	5/30/2013	26.74	678.53
WD-PZ13C	D	6/6/2013	26.03	679.24
WD-PZ13C	D	6/12/2013	25.92	679.35
WD-PZ13C	D	6/20/2013	25.95	679.32
WD-PZ13C	D	6/24/2013	26.07	679.20
WD-PZ13C	D	7/2/2013	26.01	679.26
WD-PZ13C	D	7/9/2013	25.47	679.80
WD-PZ13C	D	7/16/2013	26.1	679.17
WD-PZ13C	D	7/23/2013	26.2	679.07
WD-PZ13C	D	7/30/2013	26.34	678.93
WD-PZ13C	D	8/7/2013	26.53	678.74
WD-PZ13C	D	8/15/2013	26.85	678.42
WD-PZ14C	D	6/5/2012	26.6	671.79
WD-PZ14C	D	6/6/2012	26.86	671.53
WD-PZ14C	D	6/7/2012	27.06	671.33
WD-PZ14C	D	6/11/2012	27.13	671.26
WD-PZ14C	D	6/12/2012	26.8	671.59
WD-PZ14C	D	6/18/2012	26.97	671.42
WD-PZ14C	D	6/28/2012	26.51	671.88
WD-PZ14C	D	7/2/2012	26.57	671.82
WD-PZ14C	D	7/12/2012	41.97	656.42
WD-PZ14C	D	7/16/2012	31.59	666.80
WD-PZ14C	D	7/26/2012	26.27	672.12
WD-PZ14C	D	8/2/2012	26.32	672.07
WD-PZ14C	D	8/9/2012	26.25	672.14
WD-PZ14C	D	8/14/2012	26.05	672.34
WD-PZ14C	D	8/23/2012	26.62	671.77
WD-PZ14C	D	8/30/2012	26.64	671.75
WD-PZ14C	D	9/6/2012	26.2	672.19
WD-PZ14C	D	9/13/2012	27.53	670.86
WD-PZ14C	D	9/20/2012	27.8	670.59
WD-PZ14C	D	9/24/2012	27.51	670.88
WD-PZ14C	D	10/1/2012	26.55	671.84
WD-PZ14C	D	10/9/2012	27.99	670.40
WD-PZ14C	D	10/15/2012	27.01	671.38
WD-PZ14C	D	10/22/2012	28.06	670.33
WD-PZ14C	D	10/31/2012	26.41	671.98
WD-PZ14C	D	11/5/2012	28.3	670.09
WD-PZ14C	D	11/13/2012	29.03	669.36
WD-PZ14C	D	11/19/2012	29.19	669.20
WD-PZ14C	D	11/26/2012	27.85	670.54

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ14C	D	12/5/2012	30.27	668.12
WD-PZ14C	D	12/10/2012	26.81	671.58
WD-PZ14C	D	12/13/2012	28.42	669.97
WD-PZ14C	D	12/14/2012	28.44	669.95
WD-PZ14C	D	12/14/2012	28.49	669.90
WD-PZ14C	D	12/15/2012	27.99	670.40
WD-PZ14C	D	12/15/2012	28.13	670.26
WD-PZ14C	D	12/16/2012	27.09	671.30
WD-PZ14C	D	12/16/2012	27.29	671.10
WD-PZ14C	D	12/17/2012	26.56	671.83
WD-PZ14C	D	12/17/2012	26.73	671.66
WD-PZ14C	D	12/18/2012	26.33	672.06
WD-PZ14C	D	12/18/2012	26.34	672.05
WD-PZ14C	D	12/19/2012	26.57	671.82
WD-PZ14C	D	12/19/2012	26.72	671.67
WD-PZ14C	D	12/20/2012	26.34	672.05
WD-PZ14C	D	12/20/2012	26.61	671.78
WD-PZ14C	D	12/28/2012	27.32	671.07
WD-PZ14C	D	1/3/2013	26.95	671.44
WD-PZ14C	D	1/8/2013	25.91	672.48
WD-PZ14C	D	1/14/2013	23.65	674.74
WD-PZ14C	D	1/21/2013	23.43	674.96
WD-PZ14C	D	1/28/2013	24.55	673.84
WD-PZ14C	D	2/4/2013	23.68	674.71
WD-PZ14C	D	2/11/2013	24.46	673.93
WD-PZ14C	D	2/19/2013	25.52	672.87
WD-PZ14C	D	2/25/2013	27.33	671.06
WD-PZ14C	D	3/5/2013	27.48	670.91
WD-PZ14C	D	3/13/2013	27.53	670.86
WD-PZ14C	D	3/19/2013	27.3	671.09
WD-PZ14C	D	3/27/2013	26.94	671.45
WD-PZ14C	D	4/1/2013	26.91	671.48
WD-PZ14C	D	4/8/2013	26.8	671.59
WD-PZ14C	D	4/15/2013	26.53	671.86
WD-PZ14C	D	4/23/2013	26.53	671.78
WD-PZ14C	D	4/30/2013	27.6	670.71
WD-PZ14C	D	5/9/2013	28.12	670.19
WD-PZ14C	D	5/13/2013	27.95	670.36
WD-PZ14C	D	5/14/2013	27.91	670.40
WD-PZ14C	D	5/15/2013	27.81	670.50
WD-PZ14C	D	5/20/2013	27.66	670.65
WD-PZ14C	D	5/23/2013	27.47	670.84
WD-PZ14C	D	5/30/2013	27.52	670.79
WD-PZ14C	D	6/6/2013	27.22	671.09

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ14C	D	6/12/2013	26.82	671.49
WD-PZ14C	D	6/20/2013	29.21	669.10
WD-PZ14C	D	6/25/2013	28.72	669.59
WD-PZ14C	D	7/1/2013	27.83	670.48
WD-PZ14C	D	7/9/2013	27.02	671.29
WD-PZ14C	D	7/16/2013	26.3	672.01
WD-PZ14C	D	7/23/2013	25.27	673.04
WD-PZ14C	D	7/30/2013	24.36	673.95
WD-PZ14C	D	8/7/2013	23.74	674.57
WD-PZ14C	D	8/15/2013	23.26	675.05
WD-PZ15C	D	6/28/2012	47.1	696.79
WD-PZ15C	D	7/2/2012	43.72	700.17
WD-PZ15C	D	7/12/2012	40.79	703.10
WD-PZ15C	D	7/16/2012	40.24	703.65
WD-PZ15C	D	7/26/2012	60.82	683.07
WD-PZ15C	D	8/2/2012	54.29	689.60
WD-PZ15C	D	8/9/2012	49.19	694.70
WD-PZ15C	D	8/14/2012	27.07	716.82
WD-PZ15C	D	8/23/2012	31.31	712.58
WD-PZ15C	D	8/30/2012	32.68	711.21
WD-PZ15C	D	9/6/2012	33.53	710.36
WD-PZ15C	D	9/13/2012	34.91	708.98
WD-PZ15C	D	9/20/2012	39	704.89
WD-PZ15C	D	9/24/2012	39.07	704.82
WD-PZ15C	D	10/1/2012	65.37	678.52
WD-PZ15C	D	10/9/2012	61.19	682.70
WD-PZ15C	D	10/15/2012	58.45	685.44
WD-PZ15C	D	10/22/2012	55.65	688.24
WD-PZ15C	D	10/31/2012	52.76	691.13
WD-PZ15C	D	11/5/2012	52.21	691.68
WD-PZ15C	D	11/13/2012	51.6	692.29
WD-PZ15C	D	11/19/2012	62.83	681.06
WD-PZ15C	D	11/26/2012	60.45	683.44
WD-PZ15C	D	12/5/2012	58.55	685.34
WD-PZ15C	D	12/10/2012	60.13	683.76
WD-PZ15C	D	12/13/2012	60.02	683.87
WD-PZ15C	D	12/14/2012	59.85	684.04
WD-PZ15C	D	12/15/2012	59	684.89
WD-PZ15C	D	12/16/2012	59.49	684.40
WD-PZ15C	D	12/17/2012	58.59	685.30
WD-PZ15C	D	12/18/2012	58.14	685.75
WD-PZ15C	D	12/19/2012	57.91	685.98
WD-PZ15C	D	12/20/2012	57.72	686.17
WD-PZ15C	D	12/28/2012	56.18	687.71

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ15C	D	1/3/2013	55.41	688.48
WD-PZ15C	D	1/8/2013	54.95	688.94
WD-PZ15C	D	1/14/2013	53.99	689.90
WD-PZ15C	D	1/21/2013	53.26	690.63
WD-PZ15C	D	1/28/2013	52.85	691.04
WD-PZ15C	D	2/4/2013	51.52	692.37
WD-PZ15C	D	2/11/2013	50.8	693.09
WD-PZ15C	D	2/19/2013	49.86	694.03
WD-PZ15C	D	2/25/2013	52.46	691.43
WD-PZ15C	D	3/5/2013	51.1	692.79
WD-PZ15C	D	3/13/2013	50.11	693.78
WD-PZ15C	D	3/19/2013	49.05	694.84
WD-PZ15C	D	3/27/2013	47.85	696.04
WD-PZ15C	D	4/1/2013	47.25	696.64
WD-PZ15C	D	4/8/2013	46.27	697.62
WD-PZ15C	D	4/15/2013	44.87	699.02
WD-PZ15C	D	4/23/2013	44.21	699.44
WD-PZ15C	D	4/30/2013	40.65	703.00
WD-PZ15C	D	5/7/2013	66.78	676.87
WD-PZ15C	D	5/8/2013	66.57	677.08
WD-PZ15C	D	5/9/2013	65.75	677.90
WD-PZ15C	D	5/13/2013	65.83	677.82
WD-PZ15C	D	5/14/2013	70.21	673.44
WD-PZ15C	D	5/15/2013	70.6	673.05
WD-PZ15C	D	5/20/2013	72.62	671.03
WD-PZ15C	D	5/23/2013	71.48	672.17
WD-PZ15C	D	5/30/2013	69.35	674.30
WD-PZ15C	D	6/6/2013	73.86	669.79
WD-PZ15C	D	6/12/2013	71.36	672.29
WD-PZ15C	D	6/20/2013	68.07	675.58
WD-PZ15C	D	6/24/2013	66.61	677.04
WD-PZ15C	D	7/2/2013	70.64	673.01
WD-PZ15C	D	7/9/2013	67.82	675.83
WD-PZ15C	D	7/16/2013	65.67	677.98
WD-PZ15C	D	7/23/2013	62.57	681.08
WD-PZ15C	D	7/30/2013	61.39	682.26
WD-PZ15C	D	8/7/2013	60.74	682.91
WD-PZ15C	D	8/15/2013	60.62	683.03
WD-PZ16C	D	6/28/2012	25.87	686.82
WD-PZ16C	D	7/2/2012	25.78	686.91
WD-PZ16C	D	7/12/2012	25.83	686.86
WD-PZ16C	D	7/16/2012	25.87	686.82
WD-PZ16C	D	7/26/2012	25.69	687.00
WD-PZ16C	D	8/2/2012	25.65	687.04

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ16C	D	8/9/2012	25.84	686.85
WD-PZ16C	D	8/14/2012	25.92	686.77
WD-PZ16C	D	8/23/2012	26.3	686.39
WD-PZ16C	D	8/30/2012	26.61	686.08
WD-PZ16C	D	9/6/2012	39.05	673.64
WD-PZ16C	D	9/13/2012	30.29	682.40
WD-PZ16C	D	9/20/2012	29.9	682.79
WD-PZ16C	D	9/24/2012	28.21	684.48
WD-PZ16C	D	10/1/2012	35.18	677.51
WD-PZ16C	D	10/9/2012	28.65	684.04
WD-PZ16C	D	10/15/2012	27.32	685.37
WD-PZ16C	D	10/22/2012	27	685.69
WD-PZ16C	D	10/31/2012	26.75	685.94
WD-PZ16C	D	11/5/2012	26.71	685.98
WD-PZ16C	D	11/13/2012	26.7	685.99
WD-PZ16C	D	11/19/2012	35.06	677.63
WD-PZ16C	D	11/26/2012	28.67	684.02
WD-PZ16C	D	12/5/2012	27.11	685.58
WD-PZ16C	D	12/10/2012	27.52	685.17
WD-PZ16C	D	12/13/2012	26.98	685.71
WD-PZ16C	D	12/14/2012	26.91	685.78
WD-PZ16C	D	12/15/2012	26.67	686.02
WD-PZ16C	D	12/16/2012	26.8	685.89
WD-PZ16C	D	12/17/2012	26.54	686.15
WD-PZ16C	D	12/18/2012	26.42	686.27
WD-PZ16C	D	12/19/2012	26.39	686.30
WD-PZ16C	D	12/20/2012	26.4	686.29
WD-PZ16C	D	12/28/2012	26.45	686.24
WD-PZ16C	D	1/3/2013	26.52	686.17
WD-PZ16C	D	1/8/2013	26.59	686.10
WD-PZ16C	D	1/14/2013	26.4	686.29
WD-PZ16C	D	1/21/2013	26.41	686.28
WD-PZ16C	D	1/28/2013	26.49	686.20
WD-PZ16C	D	2/4/2013	26.34	686.35
WD-PZ16C	D	2/11/2013	26.3	686.39
WD-PZ16C	D	2/19/2013	27.07	685.62
WD-PZ16C	D	2/25/2013	26.5	686.19
WD-PZ16C	D	3/5/2013	26.37	686.32
WD-PZ16C	D	3/13/2013	26.23	686.46
WD-PZ16C	D	3/19/2013	26.2	686.49
WD-PZ16C	D	3/27/2013	26.25	686.44
WD-PZ16C	D	4/1/2013	26.14	686.55
WD-PZ16C	D	4/8/2013	26.19	686.50
WD-PZ16C	D	4/15/2013	26.18	686.51

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ16C	D	4/23/2013	26.18	685.59
WD-PZ16C	D	4/30/2013	23.53	688.24
WD-PZ16C	D	5/9/2013	24.44	687.33
WD-PZ16C	D	5/13/2013	25.1	686.67
WD-PZ16C	D	5/14/2013	25.04	686.73
WD-PZ16C	D	5/15/2013	71.15	640.62
WD-PZ16C	D	5/20/2013	28.97	682.80
WD-PZ16C	D	5/23/2013	25.53	686.24
WD-PZ16C	D	5/30/2013	25.86	685.91
WD-PZ16C	D	6/6/2013	25.09	686.68
WD-PZ16C	D	6/12/2013	24.93	686.84
WD-PZ16C	D	6/20/2013	25.08	686.69
WD-PZ16C	D	6/25/2013	24.94	686.83
WD-PZ16C	D	7/2/2013	24.95	686.82
WD-PZ16C	D	7/9/2013	24.86	686.91
WD-PZ16C	D	7/16/2013	25.07	686.70
WD-PZ16C	D	7/23/2013	24.45	687.32
WD-PZ16C	D	7/30/2013	24.98	686.79
WD-PZ16C	D	8/7/2013	24.96	686.81
WD-PZ16C	D	8/15/2013	25.28	686.49
WD-PZ17C	D	6/5/2012	62.4	645.91
WD-PZ17C	D	6/6/2012	61.09	647.22
WD-PZ17C	D	6/7/2012	60	648.31
WD-PZ17C	D	6/11/2012	54.87	653.44
WD-PZ17C	D	6/12/2012	53.49	654.82
WD-PZ17C	D	6/18/2012	46.3	662.01
WD-PZ17C	D	6/28/2012	34.64	673.67
WD-PZ17C	D	7/2/2012	29.74	678.57
WD-PZ17C	D	7/12/2012	24.55	683.76
WD-PZ17C	D	7/16/2012	24.17	684.14
WD-PZ17C	D	7/26/2012	23.86	684.45
WD-PZ17C	D	8/2/2012	23.91	684.40
WD-PZ17C	D	8/9/2012	24.03	684.28
WD-PZ17C	D	8/14/2012	24.06	684.25
WD-PZ17C	D	8/23/2012	23.87	684.44
WD-PZ17C	D	8/30/2012	24.41	683.90
WD-PZ17C	D	9/6/2012	54.98	653.33
WD-PZ17C	D	9/13/2012	49.78	658.53
WD-PZ17C	D	9/20/2012	45.65	662.66
WD-PZ17C	D	9/24/2012	41.76	666.55
WD-PZ17C	D	10/1/2012	53.72	654.59
WD-PZ17C	D	10/9/2012	46.65	661.66
WD-PZ17C	D	10/15/2012	41.75	666.56
WD-PZ17C	D	10/22/2012	35.81	672.50

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ17C	D	10/31/2012	28.85	679.46
WD-PZ17C	D	11/5/2012	26.77	681.54
WD-PZ17C	D	11/13/2012	25.82	682.49
WD-PZ17C	D	11/19/2012	55	653.31
WD-PZ17C	D	11/26/2012	49.79	658.52
WD-PZ17C	D	12/5/2012	43.51	664.80
WD-PZ17C	D	12/10/2012	43.33	664.98
WD-PZ17C	D	12/13/2012	41.08	667.23
WD-PZ17C	D	12/14/2012	40.58	667.73
WD-PZ17C	D	12/15/2012	39.21	669.10
WD-PZ17C	D	12/16/2012	39.86	668.45
WD-PZ17C	D	12/17/2012	38.41	669.90
WD-PZ17C	D	12/18/2012	37.62	670.69
WD-PZ17C	D	12/19/2012	36.94	671.37
WD-PZ17C	D	12/20/2012	36.29	672.02
WD-PZ17C	D	12/28/2012	31.11	677.20
WD-PZ17C	D	1/3/2013	27.93	680.38
WD-PZ17C	D	1/8/2013	26.85	681.46
WD-PZ17C	D	1/14/2013	26.12	682.19
WD-PZ17C	D	1/21/2013	25.84	682.47
WD-PZ17C	D	1/28/2013	25.8	682.51
WD-PZ17C	D	2/4/2013	25.62	682.69
WD-PZ17C	D	2/11/2013	25.52	682.79
WD-PZ17C	D	2/19/2013	25.45	682.86
WD-PZ17C	D	2/25/2013	26.34	681.97
WD-PZ17C	D	3/5/2013	25.44	682.87
WD-PZ17C	D	3/13/2013	25.26	683.05
WD-PZ17C	D	3/19/2013	25.22	683.09
WD-PZ17C	D	3/27/2013	24.96	683.35
WD-PZ17C	D	4/1/2013	24.99	683.32
WD-PZ17C	D	4/8/2013	24.93	683.38
WD-PZ17C	D	4/15/2013	24.73	683.58
WD-PZ17C	D	4/23/2013	24.86	682.90
WD-PZ17C	D	4/30/2013	24.6	683.16
WD-PZ17C	D	5/9/2013	25.83	681.93
WD-PZ17C	D	5/13/2013	24.69	683.07
WD-PZ17C	D	5/14/2013	24.46	683.30
WD-PZ17C	D	5/15/2013	24.14	683.62
WD-PZ17C	D	5/20/2013	24.09	683.67
WD-PZ17C	D	5/23/2013	29.73	678.03
WD-PZ17C	D	5/30/2013	29.68	678.08
WD-PZ17C	D	6/6/2013	32.06	675.70
WD-PZ17C	D	6/12/2013	24.74	683.02
WD-PZ17C	D	6/20/2013	23.93	683.83

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ17C	D	6/24/2013	23.96	683.80
WD-PZ17C	D	7/1/2013	24.35	683.41
WD-PZ17C	D	7/9/2013	23.91	683.85
WD-PZ17C	D	7/16/2013	24.07	683.69
WD-PZ17C	D	7/23/2013	23.6	684.16
WD-PZ17C	D	7/30/2013	23.93	683.83
WD-PZ17C	D	8/7/2013	23.74	684.02
WD-PZ17C	D	8/15/2013	23.95	683.81
WD-PZ18C	D	6/5/2012	94.24	674.24
WD-PZ18C	D	6/6/2012	96.88	671.60
WD-PZ18C	D	6/7/2012	96.79	671.69
WD-PZ18C	D	6/11/2012	96.48	672.00
WD-PZ18C	D	6/12/2012	96.4	672.08
WD-PZ18C	D	6/18/2012	95.9	672.58
WD-PZ18C	D	6/28/2012	95.19	673.29
WD-PZ18C	D	7/2/2012	94.85	673.63
WD-PZ18C	D	7/12/2012	94.14	674.34
WD-PZ18C	D	7/16/2012	93.81	674.67
WD-PZ18C	D	7/26/2012	93.02	675.46
WD-PZ18C	D	8/2/2012	92.48	676.00
WD-PZ18C	D	8/9/2012	91.93	676.55
WD-PZ18C	D	8/14/2012	91.57	676.91
WD-PZ18C	D	8/23/2012	90.97	677.51
WD-PZ18C	D	8/30/2012	89.81	678.67
WD-PZ18C	D	9/6/2012	90.09	678.39
WD-PZ18C	D	9/13/2012	89.73	678.75
WD-PZ18C	D	9/20/2012	93	675.48
WD-PZ18C	D	9/24/2012	90.05	678.43
WD-PZ18C	D	10/1/2012	93.15	675.33
WD-PZ18C	D	10/9/2012	92.7	675.78
WD-PZ18C	D	10/15/2012	92.3	676.18
WD-PZ18C	D	10/22/2012	91.93	676.55
WD-PZ18C	D	10/31/2012	91.29	677.19
WD-PZ18C	D	11/5/2012	91.02	677.46
WD-PZ18C	D	11/13/2012	90.63	677.85
WD-PZ18C	D	11/19/2012	90.43	678.05
WD-PZ18C	D	11/26/2012	90.1	678.38
WD-PZ18C	D	12/5/2012	89.74	678.74
WD-PZ18C	D	12/10/2012	93.15	675.33
WD-PZ18C	D	12/13/2012	93.52	674.96
WD-PZ18C	D	12/14/2012	93.48	675.00
WD-PZ18C	D	12/15/2012	93.36	675.12
WD-PZ18C	D	12/16/2012	93.41	675.07
WD-PZ18C	D	12/17/2012	93.29	675.19

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ18C	D	12/18/2012	93.25	675.23
WD-PZ18C	D	12/19/2012	93.2	675.28
WD-PZ18C	D	12/20/2012	93.17	675.31
WD-PZ18C	D	12/28/2012	92.75	675.73
WD-PZ18C	D	1/3/2013	92.46	676.02
WD-PZ18C	D	1/8/2013	92.21	676.27
WD-PZ18C	D	1/14/2013	91.92	676.56
WD-PZ18C	D	1/21/2013	91.51	676.97
WD-PZ18C	D	1/28/2013	91.23	677.25
WD-PZ18C	D	2/4/2013	90.8	677.68
WD-PZ18C	D	2/11/2013	90.44	678.04
WD-PZ18C	D	2/19/2013	89.99	678.49
WD-PZ18C	D	2/25/2013	93.01	675.47
WD-PZ18C	D	3/5/2013	92.54	675.94
WD-PZ18C	D	3/13/2013	92.05	676.43
WD-PZ18C	D	3/19/2013	91.67	676.81
WD-PZ18C	D	3/27/2013	91.16	677.32
WD-PZ18C	D	4/1/2013	90.94	677.54
WD-PZ18C	D	4/8/2013	90.44	678.04
WD-PZ18C	D	4/15/2013	90.05	678.43
WD-PZ18C	D	4/30/2013	79.35	688.04
WD-PZ18C	D	5/7/2013	84.25	683.14
WD-PZ18C	D	5/8/2013	84.3	683.09
WD-PZ18C	D	5/9/2013	83.94	683.45
WD-PZ18C	D	5/13/2013	84.04	683.35
WD-PZ18C	D	5/14/2013	83.78	683.61
WD-PZ18C	D	5/15/2013	83.66	683.73
WD-PZ18C	D	5/20/2013	83.88	683.51
WD-PZ18C	D	5/23/2013	83.41	683.98
WD-PZ18C	D	5/30/2013	84.63	682.76
WD-PZ18C	D	6/6/2013	83.65	683.74
WD-PZ18C	D	6/12/2013	83.78	683.61
WD-PZ18C	D	6/20/2013	84.09	683.30
WD-PZ18C	D	6/24/2013	83.94	683.45
WD-PZ18C	D	7/2/2013	83.98	683.41
WD-PZ18C	D	7/9/2013	83.96	683.43
WD-PZ18C	D	7/16/2013	84.2	683.19
WD-PZ18C	D	7/23/2013	83.68	683.71
WD-PZ18C	D	7/30/2013	84.02	683.37
WD-PZ18C	D	8/7/2013	83.83	683.56
WD-PZ18C	D	8/15/2013	84.11	683.28
WD-PZ18CA	D	6/28/2012	33.87	680.88
WD-PZ18CA	D	7/2/2012	33.22	681.53
WD-PZ18CA	D	7/12/2012	32.33	682.42

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ18CA	D	7/16/2012	32.13	682.62
WD-PZ18CA	D	7/26/2012	31.75	683.00
WD-PZ18CA	D	8/2/2012	31.61	683.14
WD-PZ18CA	D	8/9/2012	28.46	686.29
WD-PZ18CA	D	8/14/2012	30.11	684.64
WD-PZ18CA	D	8/23/2012	30.09	684.66
WD-PZ18CA	D	8/30/2012	30.09	684.66
WD-PZ18CA	D	9/6/2012	30.12	684.63
WD-PZ18CA	D	9/13/2012	30.2	684.55
WD-PZ18CA	D	9/20/2012	38.25	676.50
WD-PZ18CA	D	9/24/2012	36.97	677.78
WD-PZ18CA	D	10/1/2012	35.56	679.19
WD-PZ18CA	D	10/9/2012	34.49	680.26
WD-PZ18CA	D	10/15/2012	34.13	680.62
WD-PZ18CA	D	10/22/2012	33.49	681.26
WD-PZ18CA	D	10/31/2012	33.06	681.69
WD-PZ18CA	D	11/5/2012	32.97	681.78
WD-PZ18CA	D	11/13/2012	32.93	681.82
WD-PZ18CA	D	11/19/2012	32.99	681.76
WD-PZ18CA	D	11/26/2012	32.98	681.77
WD-PZ18CA	D	12/5/2012	32.98	681.77
WD-PZ18CA	D	12/10/2012	35.43	679.32
WD-PZ18CA	D	12/13/2012	34.97	679.78
WD-PZ18CA	D	12/14/2012	34.85	679.90
WD-PZ18CA	D	12/14/2012	34.88	679.87
WD-PZ18CA	D	12/15/2012	34.74	680.01
WD-PZ18CA	D	12/15/2012	34.77	679.98
WD-PZ18CA	D	12/16/2012	34.62	680.13
WD-PZ18CA	D	12/16/2012	34.65	680.10
WD-PZ18CA	D	12/17/2012	34.54	680.21
WD-PZ18CA	D	12/17/2012	34.56	680.19
WD-PZ18CA	D	12/18/2012	34.42	680.33
WD-PZ18CA	D	12/18/2012	34.46	680.29
WD-PZ18CA	D	12/19/2012	34.35	680.40
WD-PZ18CA	D	12/19/2012	34.36	680.39
WD-PZ18CA	D	12/20/2012	34.3	680.45
WD-PZ18CA	D	12/20/2012	34.31	680.44
WD-PZ18CA	D	12/28/2012	33.88	680.87
WD-PZ18CA	D	1/3/2013	33.68	681.07
WD-PZ18CA	D	1/8/2013	33.55	681.20
WD-PZ18CA	D	1/14/2013	33.37	681.38
WD-PZ18CA	D	1/21/2013	33.21	681.54
WD-PZ18CA	D	1/28/2013	33.1	681.65
WD-PZ18CA	D	2/4/2013	33	681.75

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ18CA	D	2/11/2013	32.81	681.94
WD-PZ18CA	D	2/19/2013	32.7	682.05
WD-PZ18CA	D	2/25/2013	35.02	679.73
WD-PZ18CA	D	3/5/2013	34.14	680.61
WD-PZ18CA	D	3/13/2013	33.44	681.31
WD-PZ18CA	D	3/19/2013	33.12	681.63
WD-PZ18CA	D	3/27/2013	32.71	682.04
WD-PZ18CA	D	4/1/2013	32.56	682.19
WD-PZ18CA	D	4/8/2013	32.39	682.36
WD-PZ18CA	D	4/15/2013	32.19	682.56
WD-PZ18CA	D	4/23/2013	30.55	683.75
WD-PZ18CA	D	4/30/2013	31.09	683.21
WD-PZ18CA	D	5/7/2013	35.48	678.82
WD-PZ18CA	D	5/8/2013	35.06	679.24
WD-PZ18CA	D	5/9/2013	34	680.30
WD-PZ18CA	D	5/13/2013	33.71	680.59
WD-PZ18CA	D	5/14/2013	31.41	682.89
WD-PZ18CA	D	5/15/2013	31.15	683.15
WD-PZ18CA	D	5/20/2013	35.15	679.15
WD-PZ18CA	D	5/23/2013	37.98	676.32
WD-PZ18CA	D	5/30/2013	33.25	681.05
WD-PZ18CA	D	6/6/2013	37.89	676.41
WD-PZ18CA	D	6/12/2013	33	681.30
WD-PZ18CA	D	6/20/2013	31.33	682.97
WD-PZ18CA	D	6/25/2013	31.07	683.23
WD-PZ18CA	D	7/2/2013	35.89	678.41
WD-PZ18CA	D	7/9/2013	31.92	682.38
WD-PZ18CA	D	7/16/2013	31.34	682.96
WD-PZ18CA	D	7/23/2013	38.8	675.50
WD-PZ18CA	D	7/30/2013	31.06	683.24
WD-PZ18CA	D	8/7/2013	30.95	683.35
WD-PZ18CA	D	8/15/2013	31.12	683.18
WD-PZ19C	D	6/5/2012	21.5	684.78
WD-PZ19C	D	6/6/2012	21.4	684.88
WD-PZ19C	D	6/7/2012	21.4	684.88
WD-PZ19C	D	6/11/2012	21.38	684.90
WD-PZ19C	D	6/12/2012	21.46	684.82
WD-PZ19C	D	6/18/2012	21.35	684.93
WD-PZ19C	D	6/28/2012	22.13	684.15
WD-PZ19C	D	7/2/2012	22.12	684.16
WD-PZ19C	D	7/12/2012	22.16	684.12
WD-PZ19C	D	7/16/2012	22.23	684.05
WD-PZ19C	D	7/26/2012	22.25	684.03
WD-PZ19C	D	8/2/2012	22.3	683.98

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ19C	D	8/9/2012	22.36	683.92
WD-PZ19C	D	8/14/2012	22.37	683.91
WD-PZ19C	D	8/23/2012	22.24	684.04
WD-PZ19C	D	8/30/2012	22.25	684.03
WD-PZ19C	D	9/6/2012	22.31	683.97
WD-PZ19C	D	9/13/2012	22.5	683.78
WD-PZ19C	D	9/20/2012	33.4	672.88
WD-PZ19C	D	9/24/2012	31.54	674.74
WD-PZ19C	D	10/1/2012	31.35	674.93
WD-PZ19C	D	10/9/2012	27.58	678.70
WD-PZ19C	D	10/15/2012	25.82	680.46
WD-PZ19C	D	10/22/2012	24.79	681.49
WD-PZ19C	D	10/31/2012	24.13	682.15
WD-PZ19C	D	11/5/2012	23.99	682.29
WD-PZ19C	D	11/13/2012	23.91	682.37
WD-PZ19C	D	11/19/2012	23.95	682.33
WD-PZ19C	D	11/26/2012	23.95	682.33
WD-PZ19C	D	12/5/2012	23.95	682.33
WD-PZ19C	D	12/10/2012	26.33	679.95
WD-PZ19C	D	12/13/2012	25.76	680.52
WD-PZ19C	D	12/14/2012	25.68	680.60
WD-PZ19C	D	12/15/2012	25.48	680.80
WD-PZ19C	D	12/16/2012	25.58	680.70
WD-PZ19C	D	12/17/2012	25.41	680.87
WD-PZ19C	D	12/18/2012	25.33	680.95
WD-PZ19C	D	12/19/2012	25.26	681.02
WD-PZ19C	D	12/20/2012	25.22	681.06
WD-PZ19C	D	12/28/2012	24.87	681.41
WD-PZ19C	D	1/3/2013	24.62	681.66
WD-PZ19C	D	1/8/2013	24.52	681.76
WD-PZ19C	D	1/14/2013	24.4	681.88
WD-PZ19C	D	1/21/2013	24.25	682.03
WD-PZ19C	D	1/28/2013	24.16	682.12
WD-PZ19C	D	2/4/2013	23.95	682.33
WD-PZ19C	D	2/11/2013	23.86	682.42
WD-PZ19C	D	2/19/2013	23.74	682.54
WD-PZ19C	D	2/25/2013	25.63	680.65
WD-PZ19C	D	3/5/2013	24.77	681.51
WD-PZ19C	D	3/13/2013	24.08	682.20
WD-PZ19C	D	3/19/2013	23.78	682.50
WD-PZ19C	D	3/27/2013	23.58	682.70
WD-PZ19C	D	4/1/2013	23.5	682.78
WD-PZ19C	D	4/8/2013	23.56	682.72
WD-PZ19C	D	4/15/2013	23.3	682.98

Table A.5. PORTS Groundwater Levels

Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ19C	D	4/23/2013	23.2	682.34
WD-PZ19C	D	5/9/2013	21.96	683.58
WD-PZ19C	D	5/13/2013	22.79	682.75
WD-PZ19C	D	5/14/2013	22.79	682.75
WD-PZ19C	D	5/15/2013	22.66	682.88
WD-PZ19C	D	5/20/2013	22.64	682.90
WD-PZ19C	D	5/23/2013	29.53	676.01
WD-PZ19C	D	5/30/2013	22.33	683.21
WD-PZ19C	D	6/6/2013	28.28	677.26
WD-PZ19C	D	6/12/2013	22.36	683.18
WD-PZ19C	D	6/20/2013	22.35	683.19
WD-PZ19C	D	6/25/2013	22.33	683.21
WD-PZ19C	D	7/2/2013	23.29	682.25
WD-PZ19C	D	7/9/2013	22.36	683.18
WD-PZ19C	D	7/16/2013	22.46	683.08
WD-PZ19C	D	7/23/2013	22.25	683.29
WD-PZ19C	D	7/30/2013	22.28	683.26
WD-PZ19C	D	8/7/2013	22.2	683.34
WD-PZ19C	D	8/15/2013	22.31	683.23
WD-PZ20C	D	6/5/2012	79.53	672.13
WD-PZ20C	D	6/6/2012	79.49	672.17
WD-PZ20C	D	6/7/2012	79.44	672.22
WD-PZ20C	D	6/11/2012	79.27	672.39
WD-PZ20C	D	6/12/2012	79.23	672.43
WD-PZ20C	D	6/18/2012	79	672.66
WD-PZ20C	D	6/28/2012	78.65	673.01
WD-PZ20C	D	7/2/2012	78.48	673.18
WD-PZ20C	D	7/12/2012	78.16	673.50
WD-PZ20C	D	7/16/2012	78.06	673.60
WD-PZ20C	D	7/26/2012	77.79	673.87
WD-PZ20C	D	8/2/2012	77.65	674.01
WD-PZ20C	D	8/9/2012	77.51	674.15
WD-PZ20C	D	8/14/2012	77.22	674.44
WD-PZ20C	D	8/23/2012	77.27	674.39
WD-PZ20C	D	8/30/2012	77.06	674.60
WD-PZ20C	D	9/6/2012	77.07	674.59
WD-PZ20C	D	9/13/2012	77	674.66
WD-PZ20C	D	9/20/2012	80.5	671.16
WD-PZ20C	D	9/24/2012	80.62	671.04
WD-PZ20C	D	10/1/2012	80.58	671.08
WD-PZ20C	D	10/9/2012	80.51	671.15
WD-PZ20C	D	10/15/2012	80.45	671.21
WD-PZ20C	D	10/22/2012	80.45	671.21
WD-PZ20C	D	10/31/2012	80.3	671.36

Table A.5. PORTS Groundwater Levels

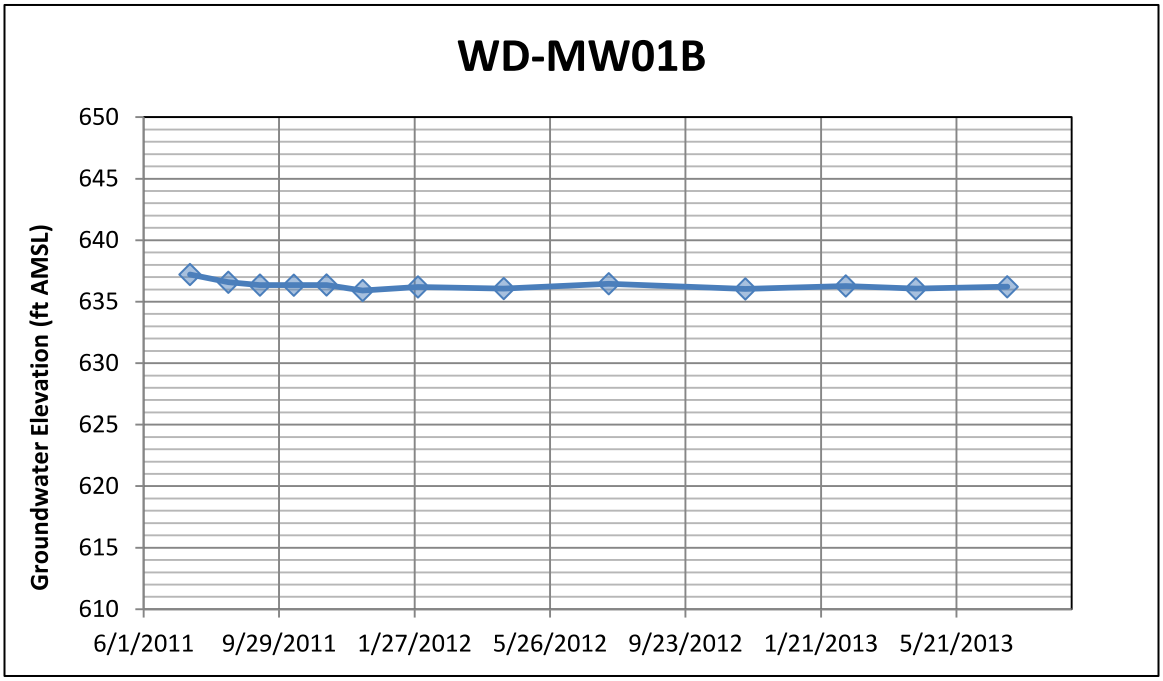
Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ20C	D	11/5/2012	80.26	671.40
WD-PZ20C	D	11/13/2012	80.23	671.43
WD-PZ20C	D	11/19/2012	80.24	671.42
WD-PZ20C	D	11/26/2012	80.28	671.38
WD-PZ20C	D	12/5/2012	80.2	671.46
WD-PZ20C	D	12/10/2012	80.23	671.43
WD-PZ20C	D	12/13/2012	80.19	671.47
WD-PZ20C	D	12/14/2012	80.18	671.48
WD-PZ20C	D	12/14/2012	80.19	671.47
WD-PZ20C	D	12/15/2012	80.17	671.49
WD-PZ20C	D	12/16/2012	80.17	671.49
WD-PZ20C	D	12/16/2012	80.18	671.48
WD-PZ20C	D	12/17/2012	80.17	671.49
WD-PZ20C	D	12/18/2012	80.17	671.49
WD-PZ20C	D	12/18/2012	80.18	671.48
WD-PZ20C	D	12/19/2012	80.16	671.50
WD-PZ20C	D	12/19/2012	80.17	671.49
WD-PZ20C	D	12/20/2012	80.16	671.50
WD-PZ20C	D	12/20/2012	80.17	671.49
WD-PZ20C	D	12/28/2012	80.12	671.54
WD-PZ20C	D	1/3/2013	80.11	671.55
WD-PZ20C	D	1/8/2013	80.07	671.59
WD-PZ20C	D	1/14/2013	80.06	671.60
WD-PZ20C	D	1/21/2013	80.05	671.61
WD-PZ20C	D	1/28/2013	80.02	671.64
WD-PZ20C	D	2/4/2013	79.99	671.67
WD-PZ20C	D	2/11/2013	79.67	671.99
WD-PZ20C	D	2/19/2013	79.17	672.49
WD-PZ20C	D	2/25/2013	78.94	672.72
WD-PZ20C	D	3/5/2013	78.12	673.54
WD-PZ20C	D	3/13/2013	77.26	674.40
WD-PZ20C	D	3/19/2013	76.69	674.97
WD-PZ20C	D	3/27/2013	76.08	675.58
WD-PZ20C	D	4/1/2013	75.8	675.86
WD-PZ20C	D	4/8/2013	75.6	676.06
WD-PZ20C	D	4/15/2013	75.45	676.21
WD-PZ20C	D	4/23/2013	75.21	676.01
WD-PZ20C	D	4/30/2013	70.2	681.02
WD-PZ20C	D	5/9/2013	72.25	678.97
WD-PZ20C	D	5/13/2013	72.4	678.82
WD-PZ20C	D	5/14/2013	72.38	678.84
WD-PZ20C	D	5/15/2013	72.36	678.86
WD-PZ20C	D	5/20/2013	72.31	678.91
WD-PZ20C	D	5/23/2013	72.78	678.44

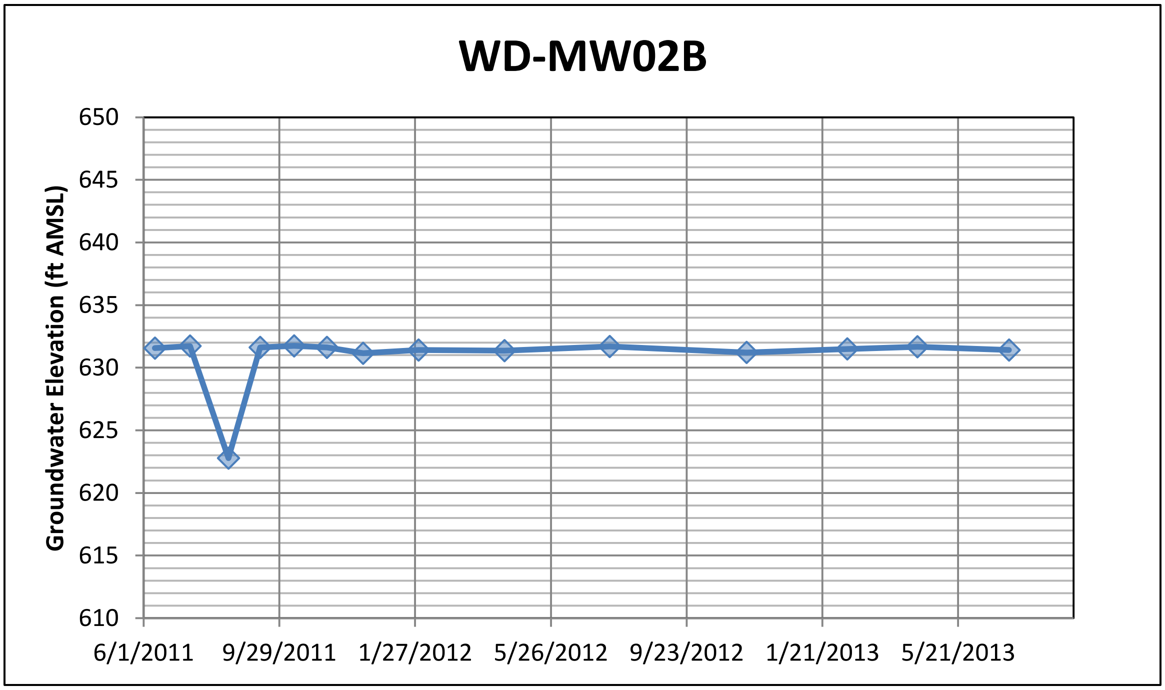
Table A.5. PORTS Groundwater Levels

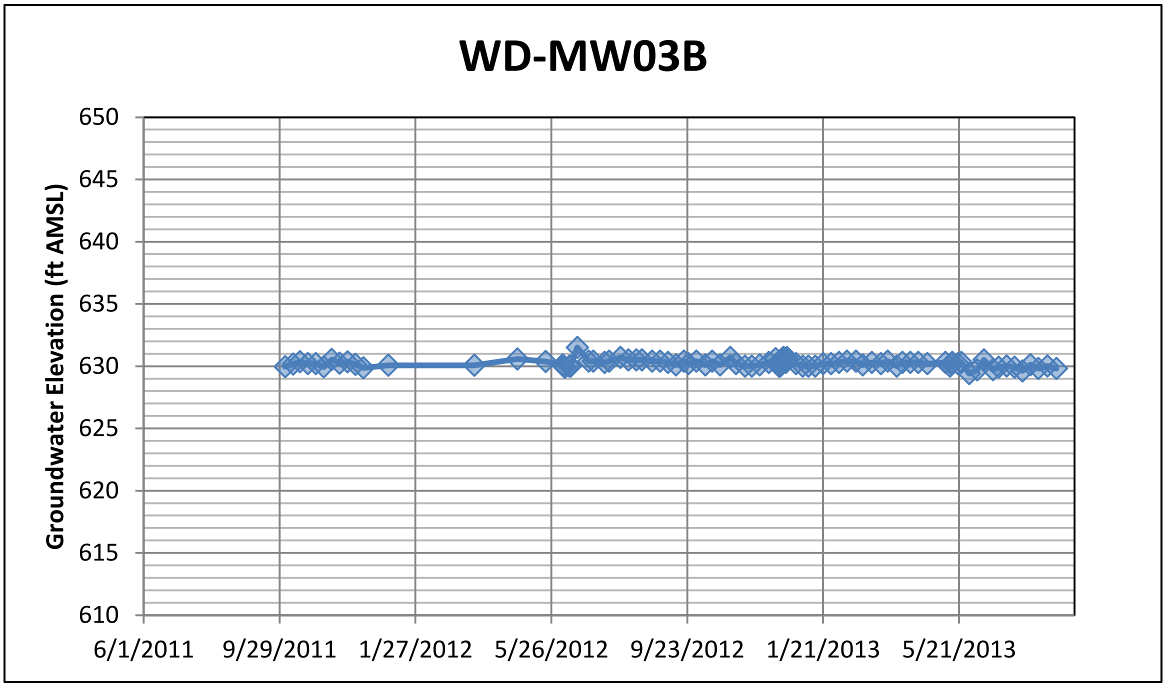
Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ20C	D	5/30/2013	72.59	678.63
WD-PZ20C	D	6/6/2013	71.95	679.27
WD-PZ20C	D	6/12/2013	71.92	679.30
WD-PZ20C	D	6/20/2013	71.91	679.31
WD-PZ20C	D	6/24/2013	71.98	679.24
WD-PZ20C	D	7/2/2013	72	679.22
WD-PZ20C	D	7/9/2013	71.99	679.23
WD-PZ20C	D	7/16/2013	72.07	679.15
WD-PZ20C	D	7/23/2013	72	679.22
WD-PZ20C	D	7/30/2013	72.03	679.19
WD-PZ20C	D	8/7/2013	72.08	679.14
WD-PZ20C	D	8/15/2013	72.09	679.13
WD-PZ23C	D	6/25/2013	81.32	677.68
WD-PZ23C	D	7/2/2013	DRY	DRY
WD-PZ23C	D	7/9/2013	DRY	DRY
WD-PZ23C	D	7/16/2013	DRY	DRY
WD-PZ23C	D	7/23/2013	DRY	DRY
WD-PZ23C	D	7/30/2013	82.22	676.78
WD-PZ23C	D	8/7/2013	81.77	677.23
WD-PZ23C	D	8/15/2013	81.34	677.66
WD-PZ24C	D	6/24/2013	71.5	683.43
WD-PZ24C	D	7/2/2013	71.41	683.52
WD-PZ24C	D	7/9/2013	71.38	683.55
WD-PZ24C	D	7/16/2013	71.62	683.31
WD-PZ24C	D	7/23/2013	71.13	683.80
WD-PZ24C	D	7/30/2013	71.43	683.50
WD-PZ24C	D	8/7/2013	71.21	683.72
WD-PZ24C	D	8/15/2013	71.53	683.40
WD-PZ25C	D	6/25/2013	51.8	683.53
WD-PZ25C	D	7/2/2013	51.8	683.53
WD-PZ25C	D	7/9/2013	51.8	683.53
WD-PZ25C	D	7/16/2013	52.04	683.29
WD-PZ25C	D	7/23/2013	51.51	683.82
WD-PZ25C	D	7/30/2013	51.84	683.49
WD-PZ25C	D	8/7/2013	51.65	683.68
WD-PZ25C	D	8/15/2013	51.95	683.38
WD-PZ26C	D	6/25/2013	78.43	683.62
WD-PZ26C	D	7/2/2013	78.45	683.60
WD-PZ26C	D	7/9/2013	78.46	683.59
WD-PZ26C	D	7/16/2013	78.66	683.39
WD-PZ26C	D	7/23/2013	78.16	683.89
WD-PZ26C	D	7/30/2013	78.47	683.58
WD-PZ26C	D	8/7/2013	78.3	683.75
WD-PZ26C	D	8/15/2013	78.57	683.48

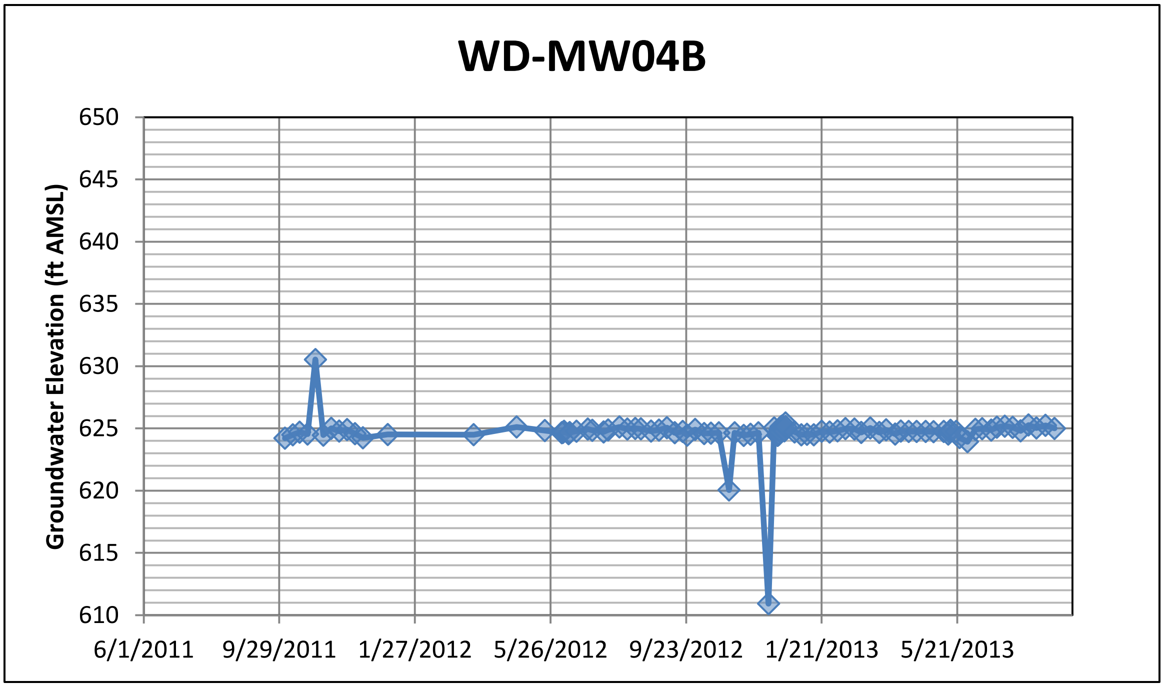
Table A.5. PORTS Groundwater Levels

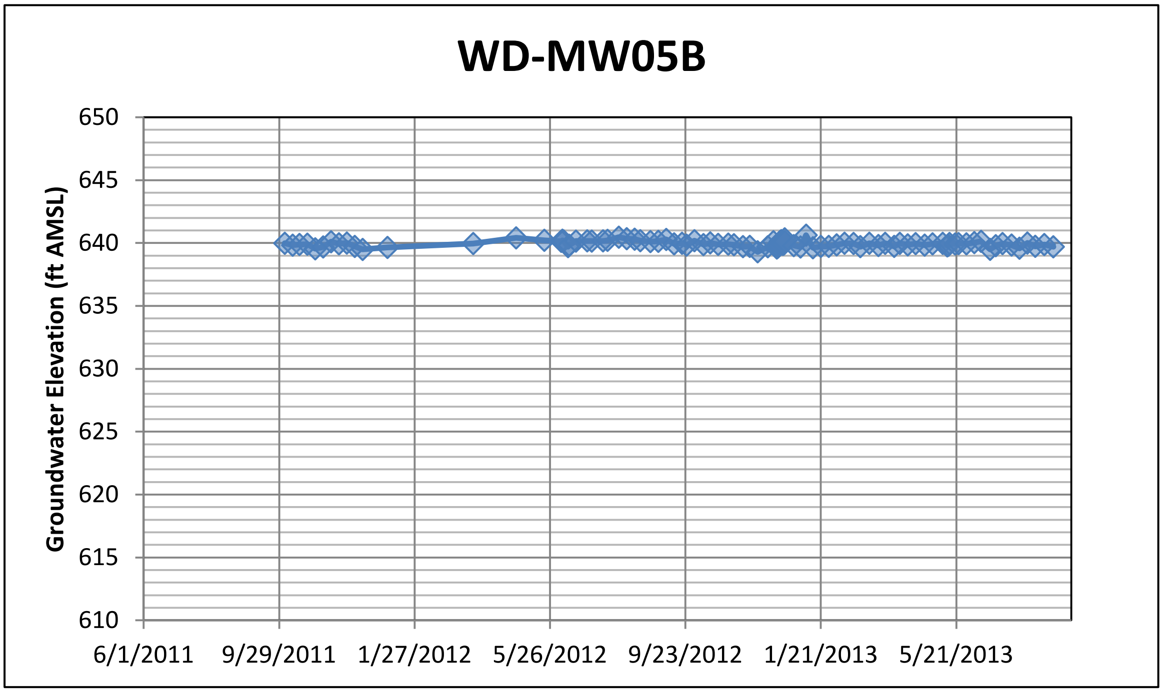
Monitoring Well / Piezometer	Study Area	Date	Depth to Water (ft)	Water Elevation (ft AMSL)
WD-PZ27C	D	6/24/2013	63	645.57
WD-PZ27C	D	7/1/2013	DRY	DRY
WD-PZ27C	D	7/9/2013	DRY	DRY
WD-PZ27C	D	7/16/2013	DRY	DRY
WD-PZ27C	D	7/23/2013	DRY	DRY
WD-PZ27C	D	7/30/2013	DRY	DRY
WD-PZ27C	D	8/7/2013	DRY	DRY
WD-PZ27C	D	8/15/2013	DRY	DRY
WD-PZ28C	D	5/30/2013	97.36	676.64
WD-PZ28C	D	6/6/2013	96.58	677.42
WD-PZ28C	D	6/12/2013	DRY	DRY
WD-PZ28C	D	6/20/2013	97.09	676.91
WD-PZ28C	D	6/24/2013	97.14	676.86
WD-PZ28C	D	7/2/2013	96.79	677.21
WD-PZ28C	D	7/9/2013	96.93	677.07
WD-PZ28C	D	7/16/2013	97.25	676.75
WD-PZ28C	D	7/23/2013	97	677.00
WD-PZ28C	D	7/30/2013	97.25	676.75
WD-PZ28C	D	8/7/2013	97.2	676.80
WD-PZ28C	D	8/15/2013	97.47	676.53

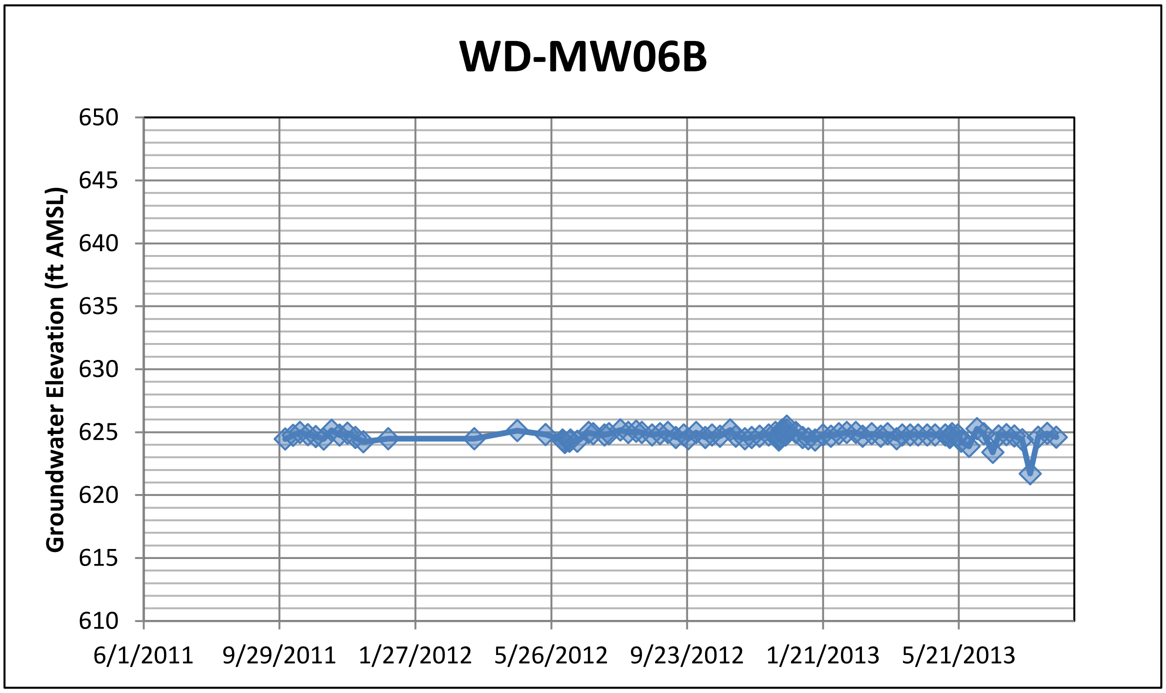

WD-MW01B
Groundwater Elevation (ft AMSL)
650
645
640
635
630
625
620
615
610
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

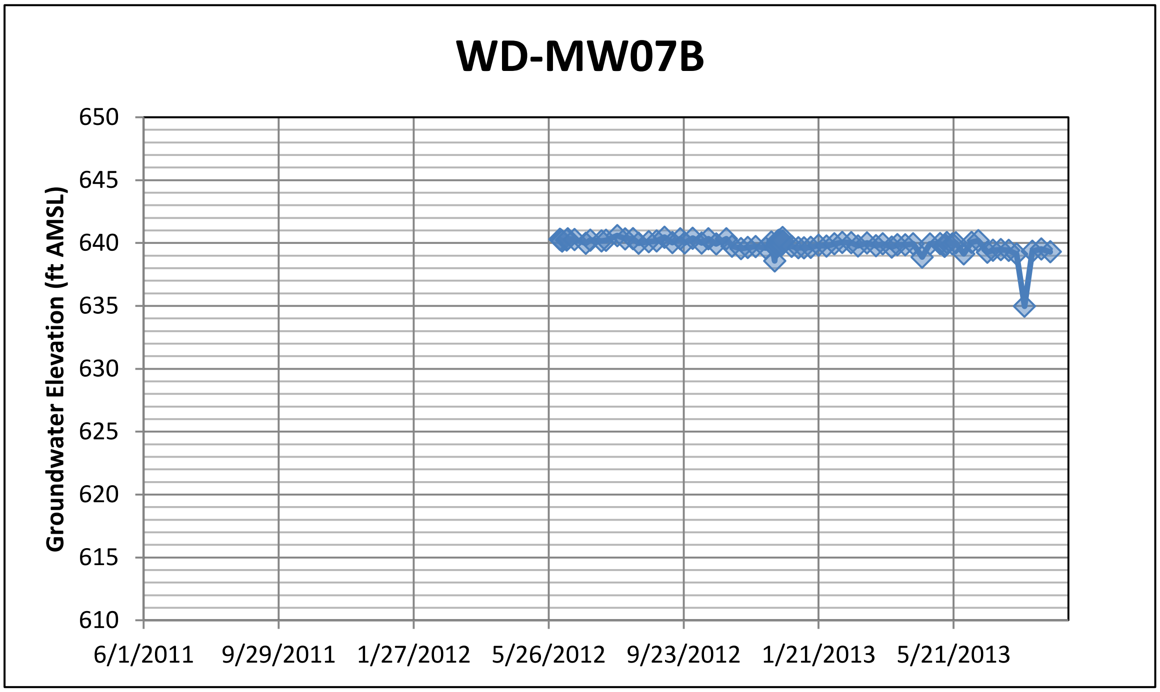

WD-MW02B
Groundwater Elevation (ft AMSL)
650
645
640
635
630
625
620
615
610
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

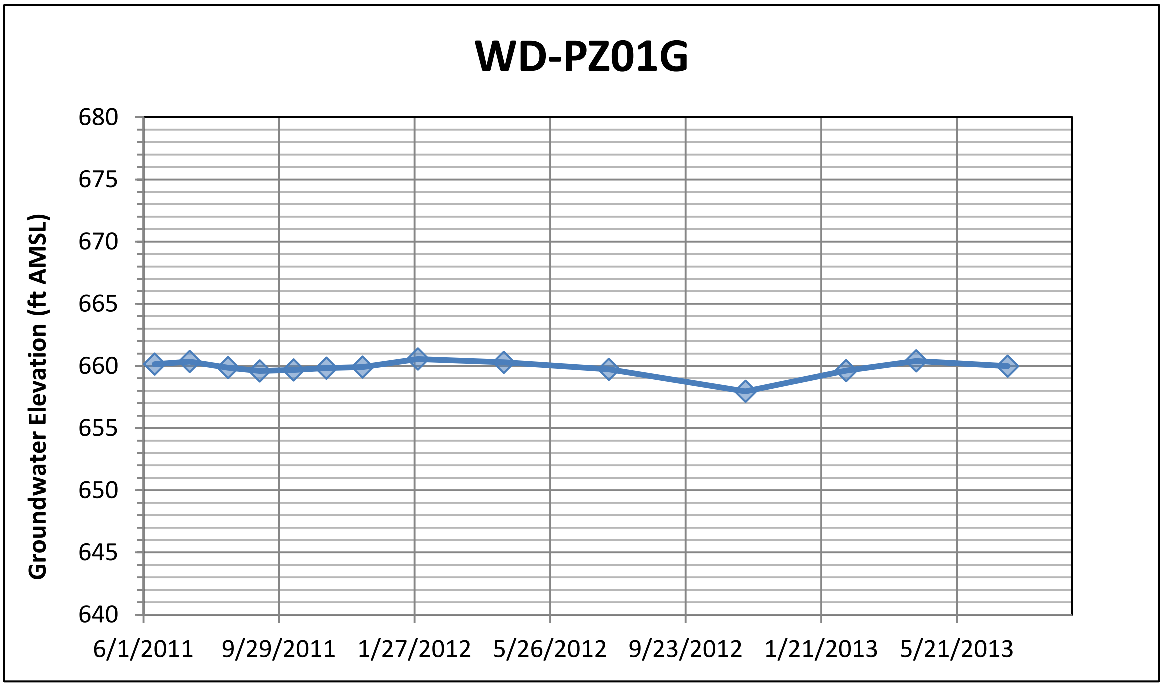

WD-MW03B
Groundwater Elevation (ft AMSL)
650
645
640
635
630
625
620
615
610
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

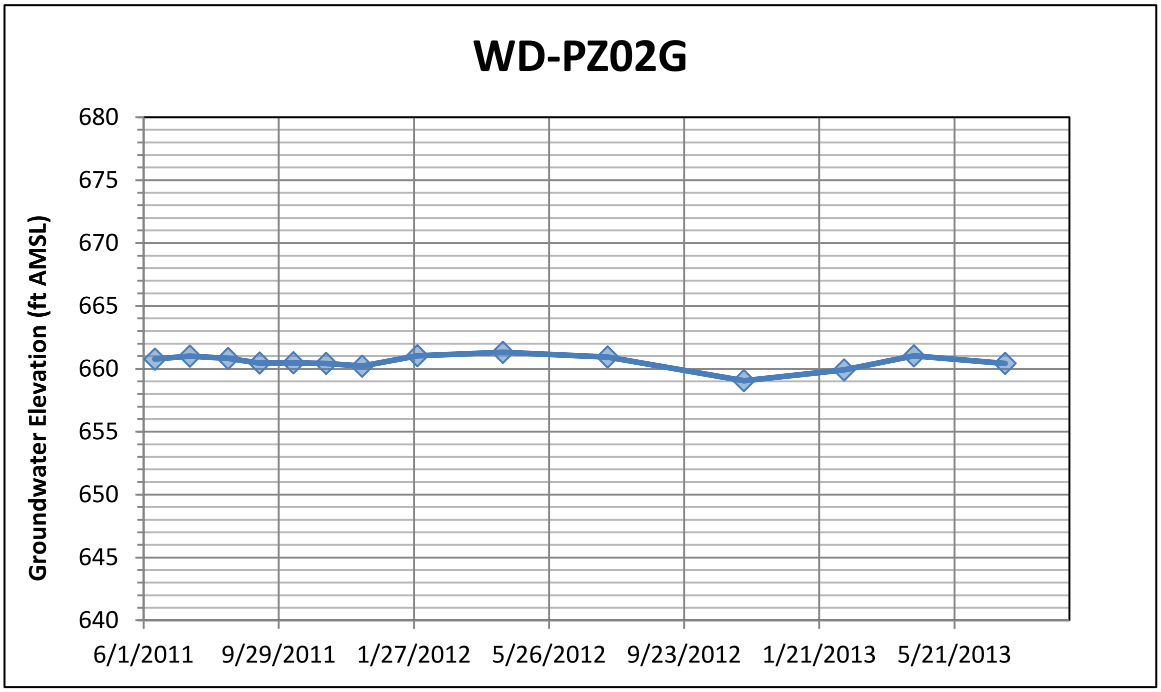

WD-MW04B
Groundwater Elevation (ft AMSL)
650
645
640
635
630
625
620
615
610
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

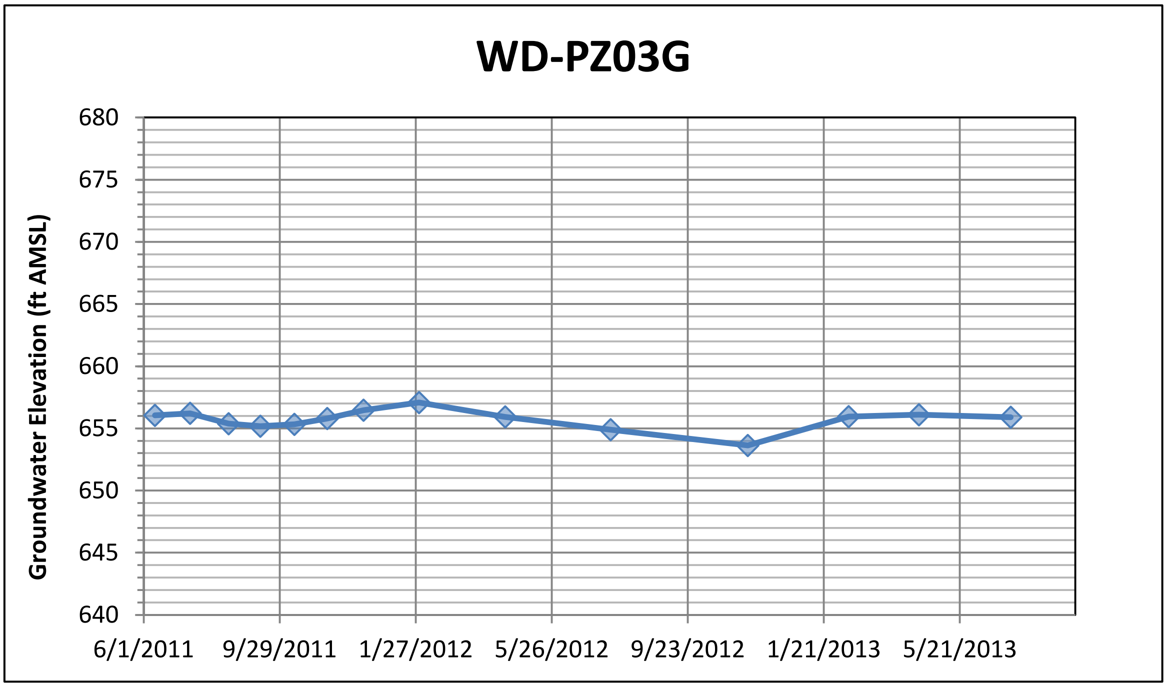

WD-MW05B
Groundwater Elevation (ft AMSL)
650
645
640
635
630
625
620
615
610
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

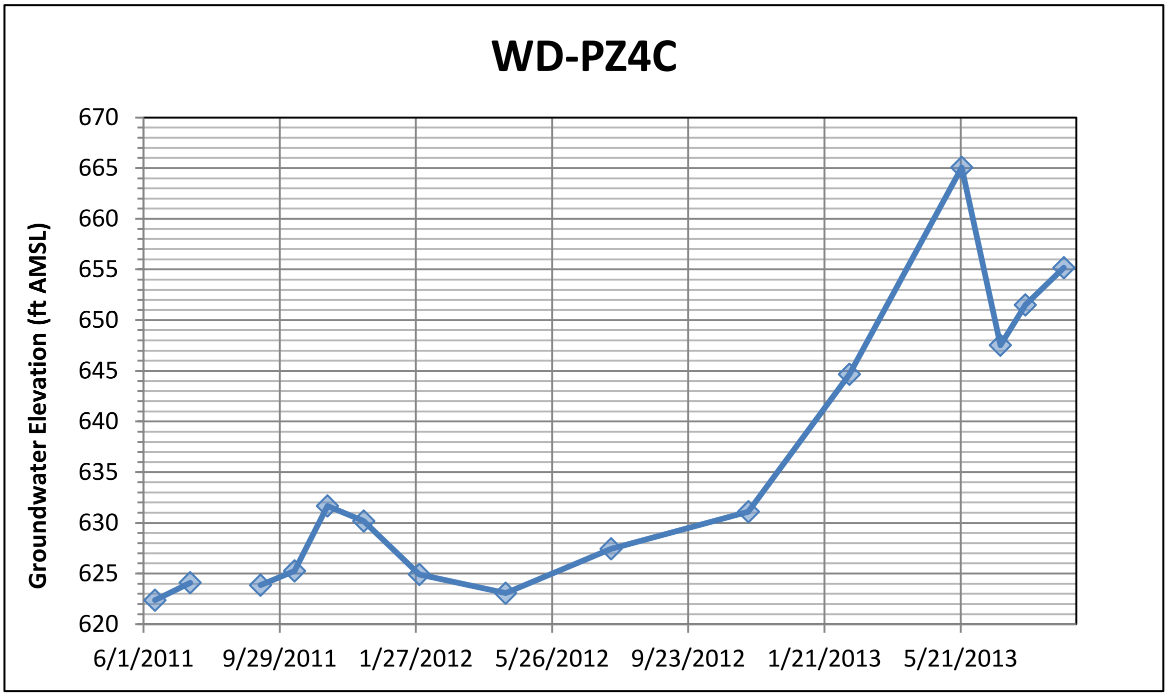

WD-MW06B
Groundwater Elevation (ft AMSL)
650
645
640
635
630
625
620
615
610
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

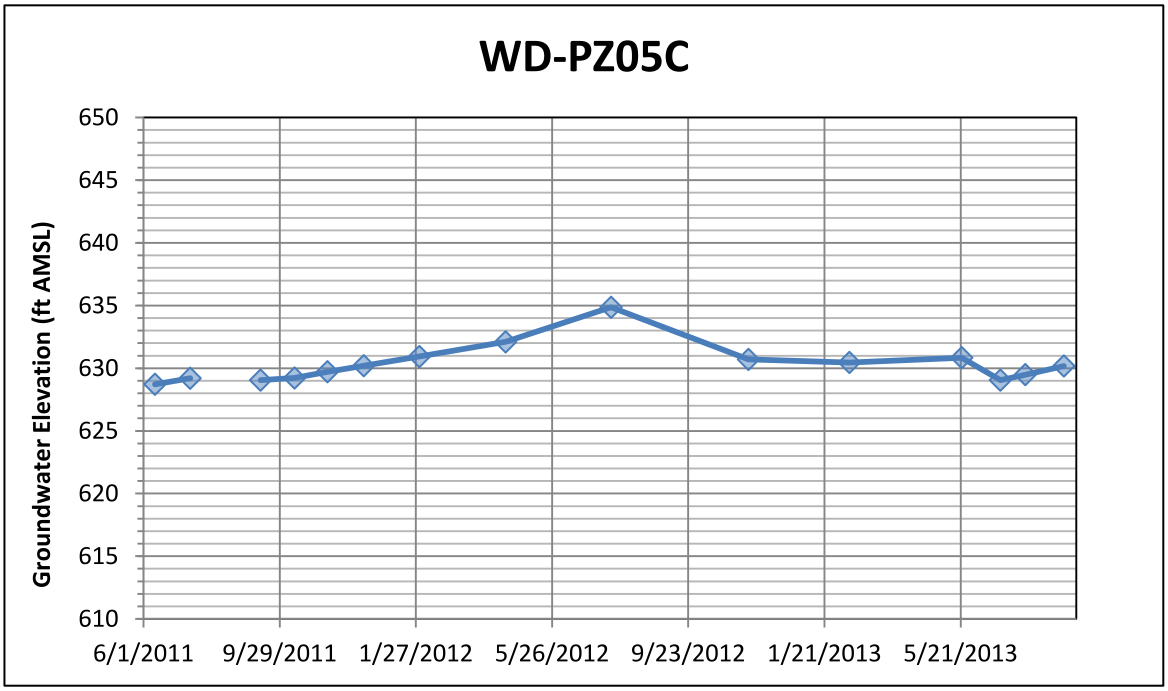

WD-MW07B
Groundwater Elevation (ft AMSL)
650
645
640
635
630
625
620
615
610
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

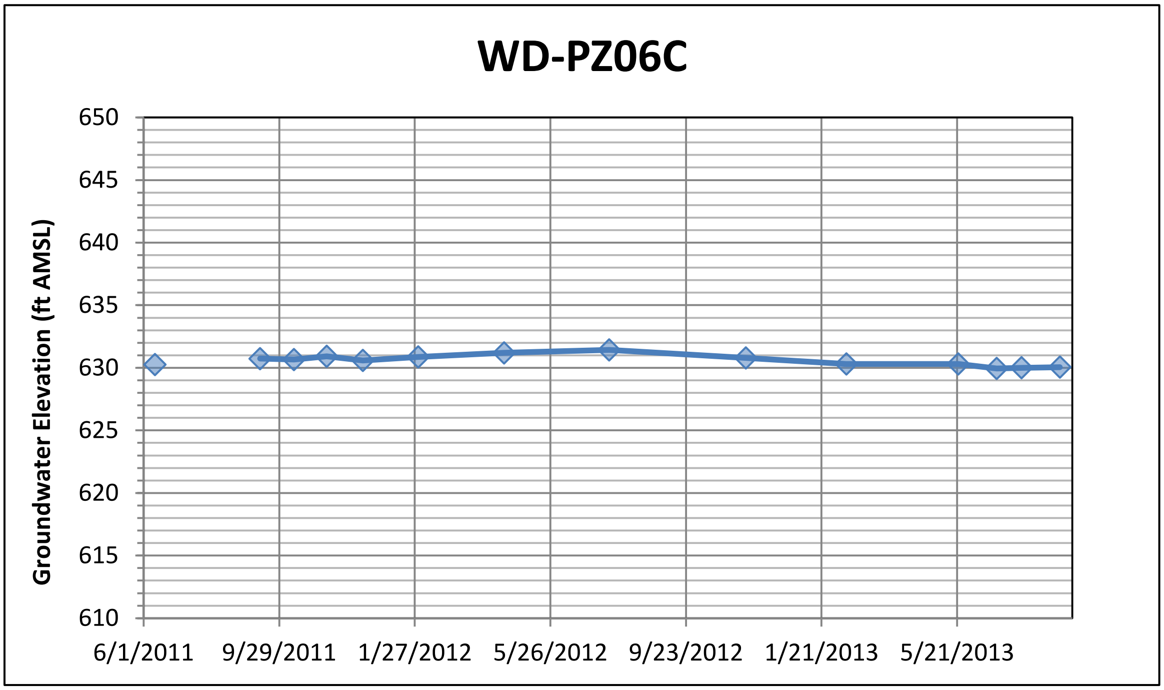

WD-PZ01G
Groundwater Elevation (ft AMSL)
680
675
670
665
660
655
650
645
640
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

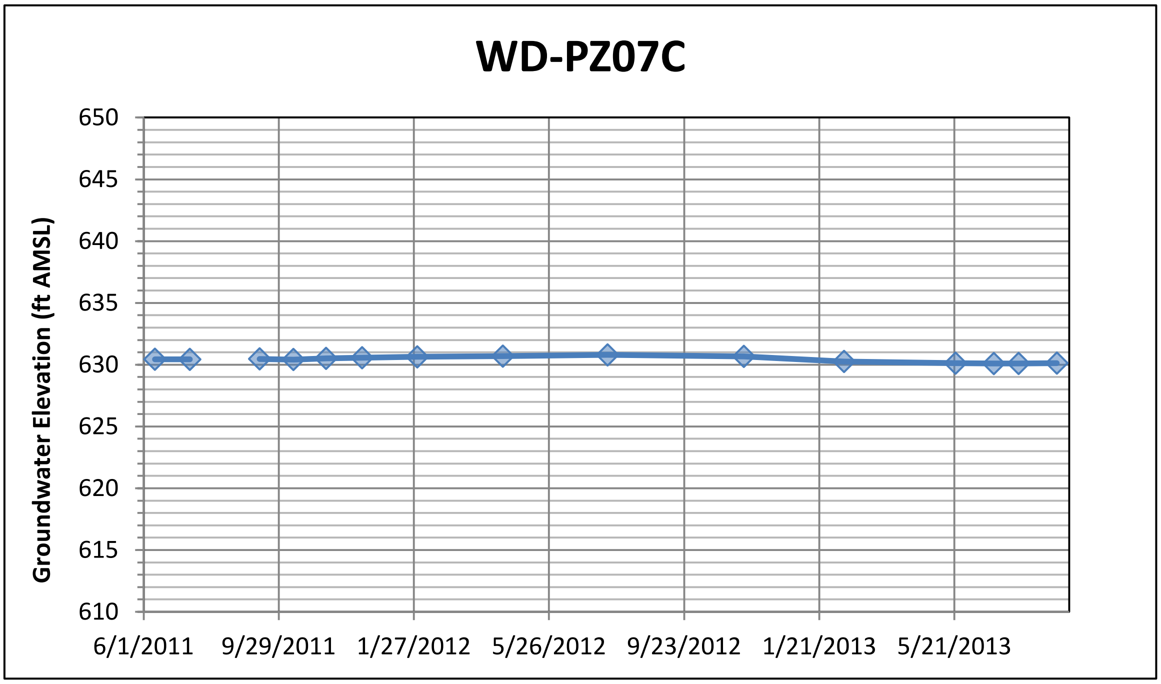

WD-PZ02G
Groundwater Elevation (ft AMSL)
680
675
670
665
660
655
650
645
640
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

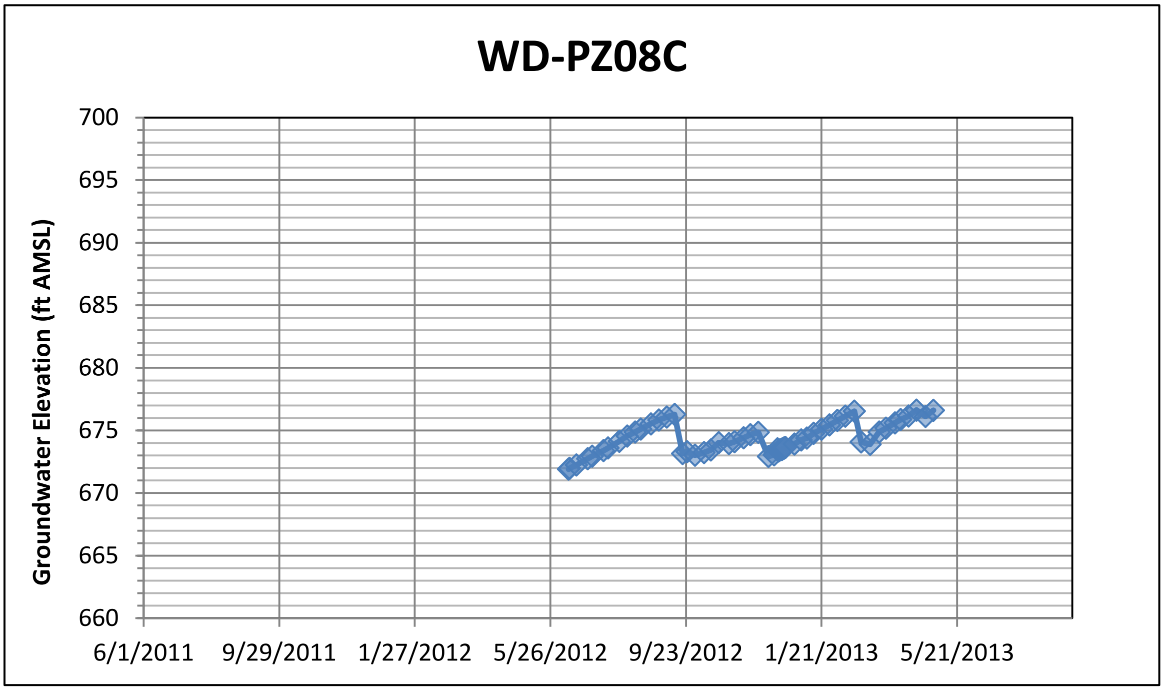

WD-PZ03G
Groundwater Elevation (ft AMSL)
680
675
670
665
660
655
650
645
640
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

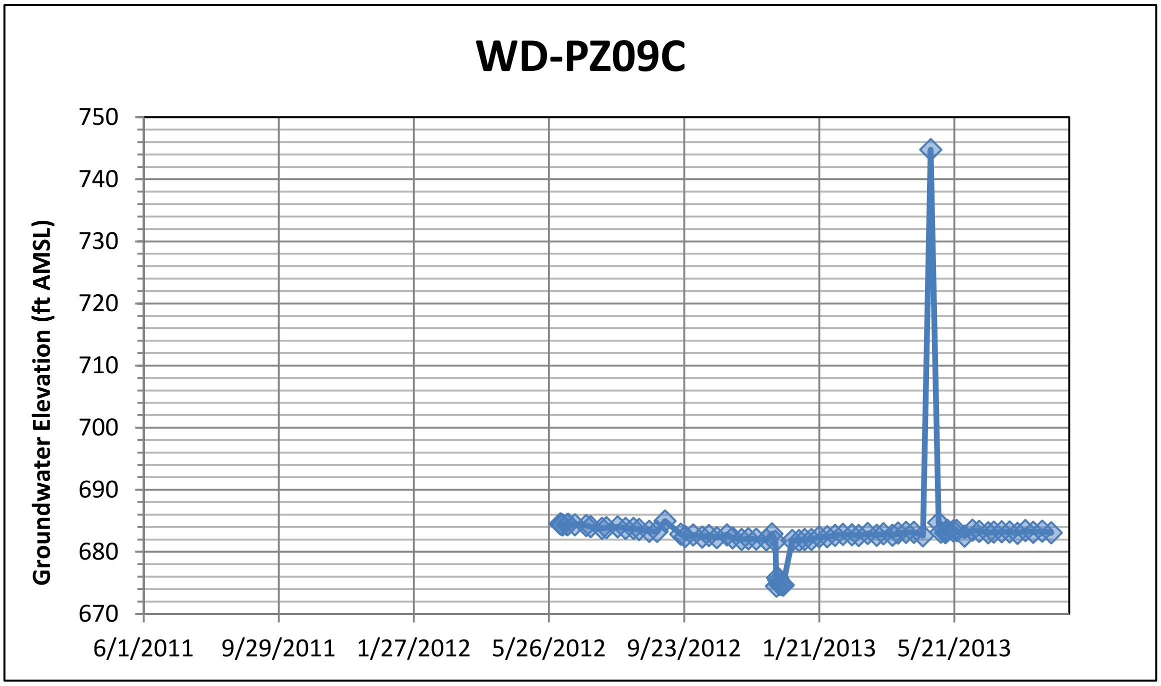

WD-PZ4C
Groundwater Elevation (ft AMSL)
670
665
660
655
650
645
640
635
630
625
620
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

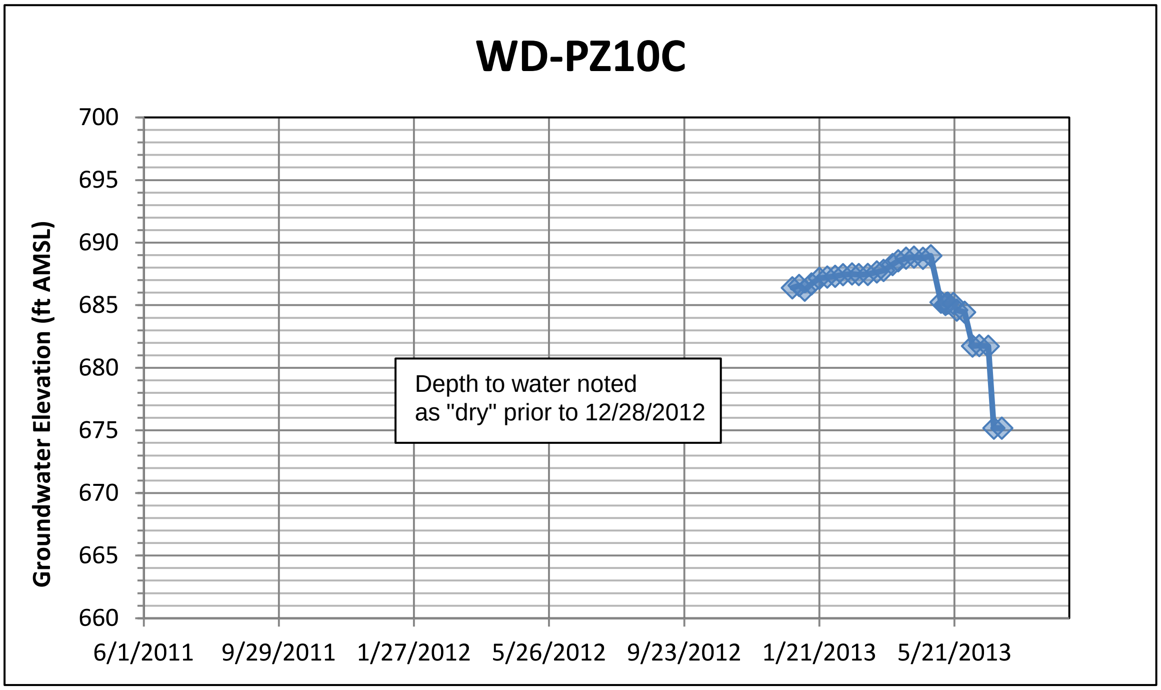

WD-PZ05C
Groundwater Elevation (ft AMSL)
650
645
640
635
630
625
620
615
610
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

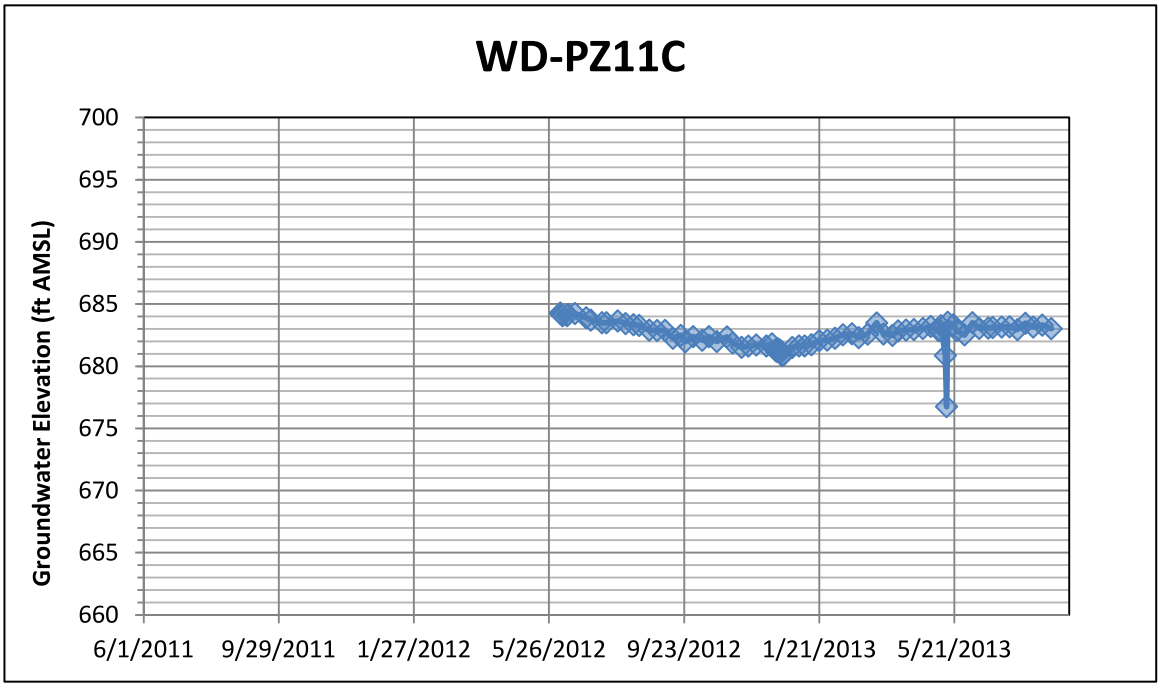

WD-PZ06C
Groundwater Elevation (ft AMSL)
650
645
640
635
630
625
620
615
610
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

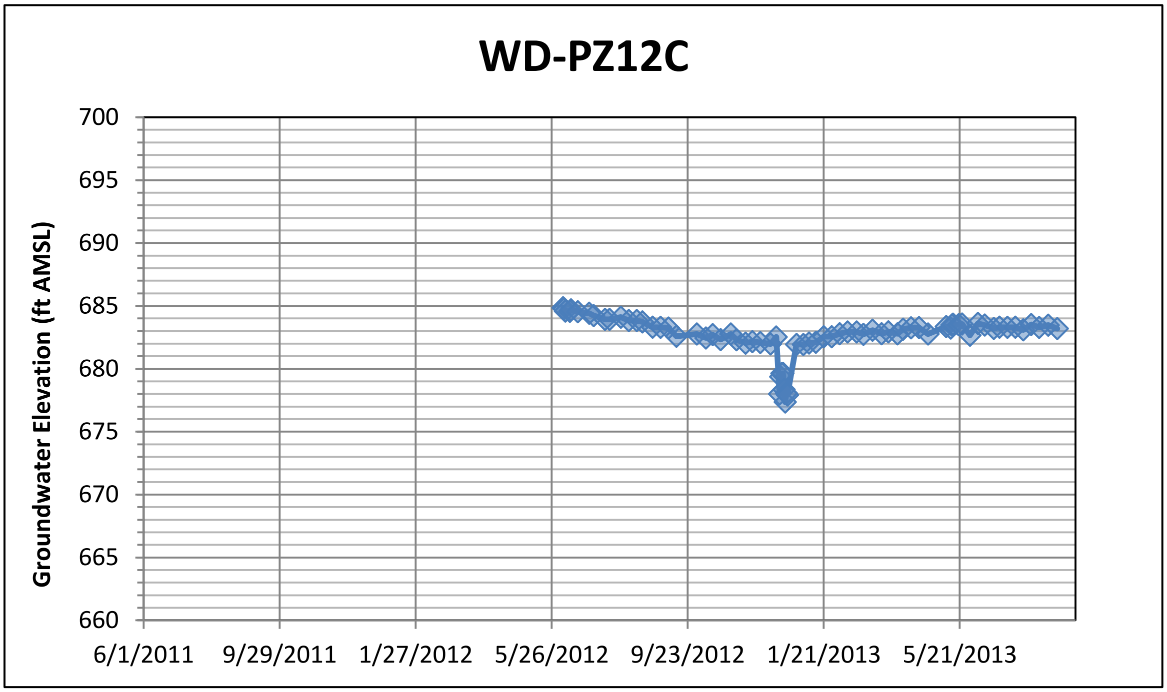

WD-PZ07C
Groundwater Elevation (ft AMSL)
650
645
640
635
630
625
620
615
610
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

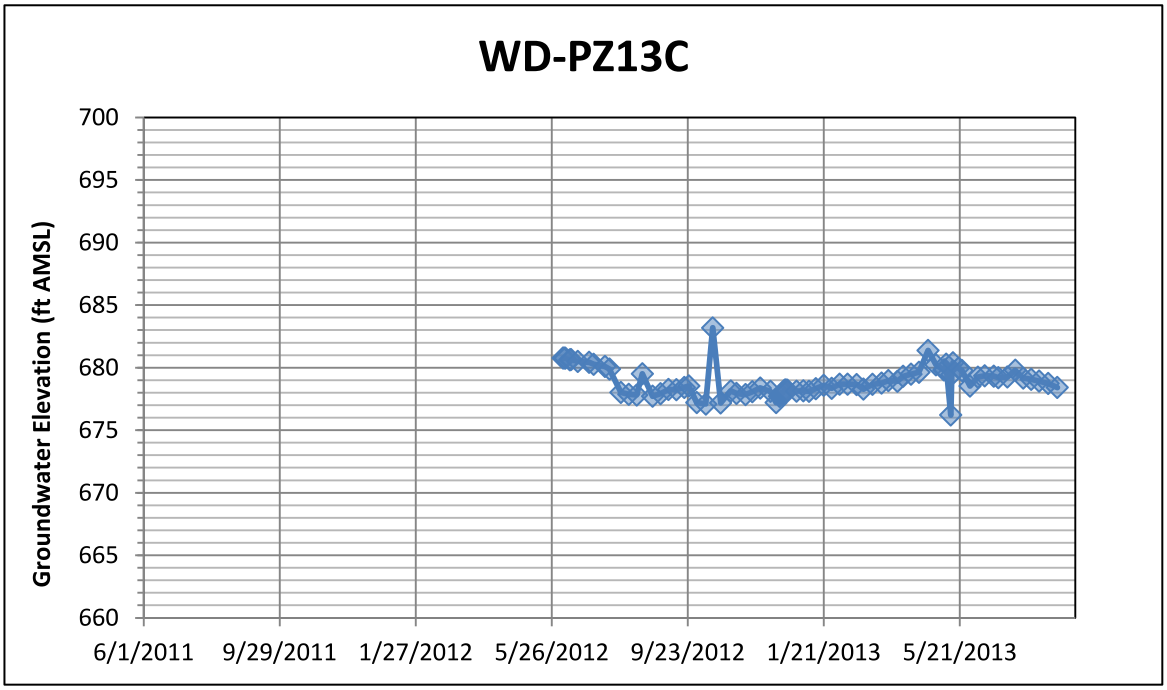

WD-PZ08C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

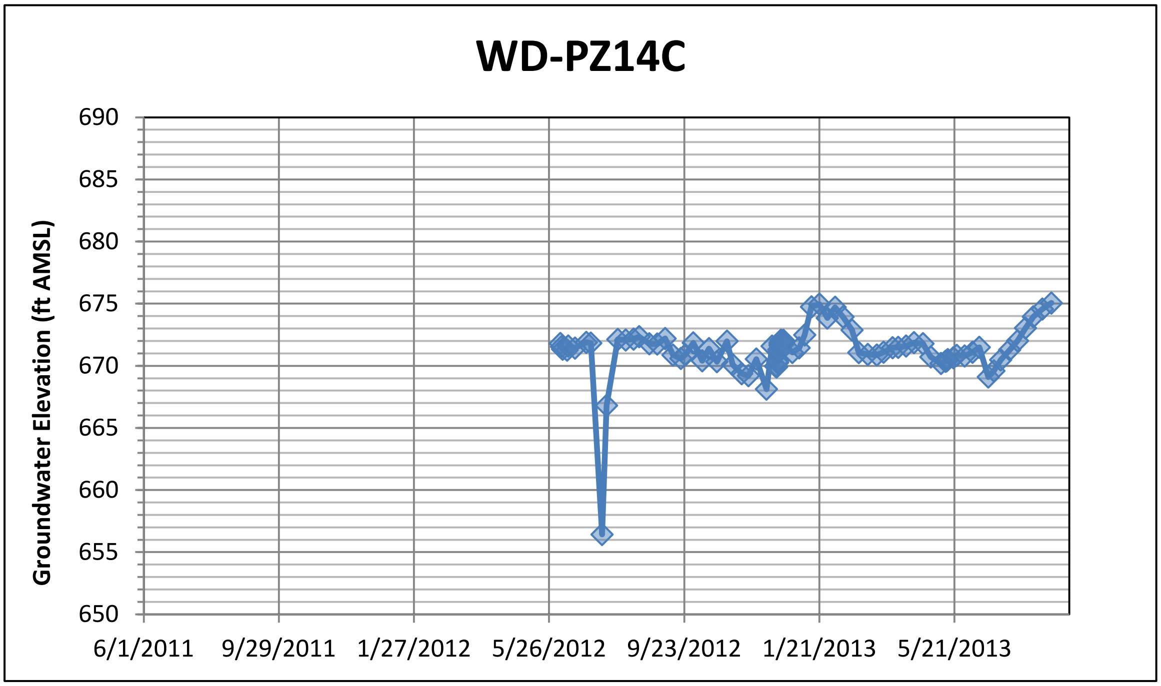

WD-PZ09C
Groundwater Elevation (ft AMSL)
750
740
730
720
710
700
690
680
670
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

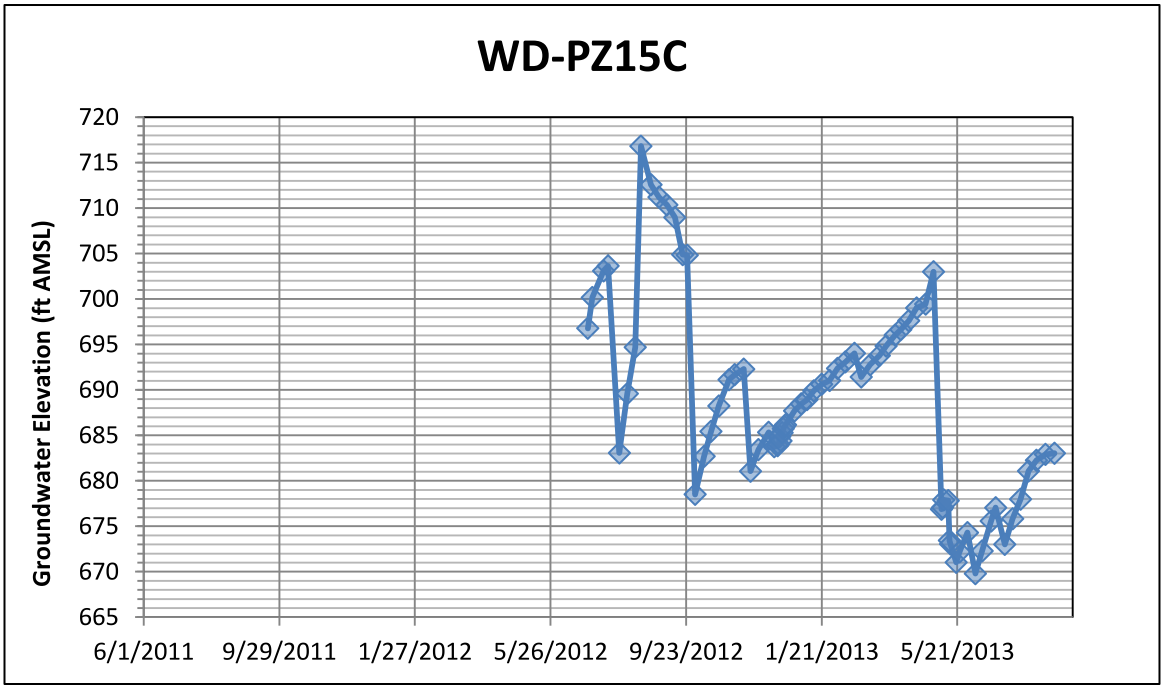

WD-PZ10C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013
Depth to water noted
as "dry" prior to 12/28/2012

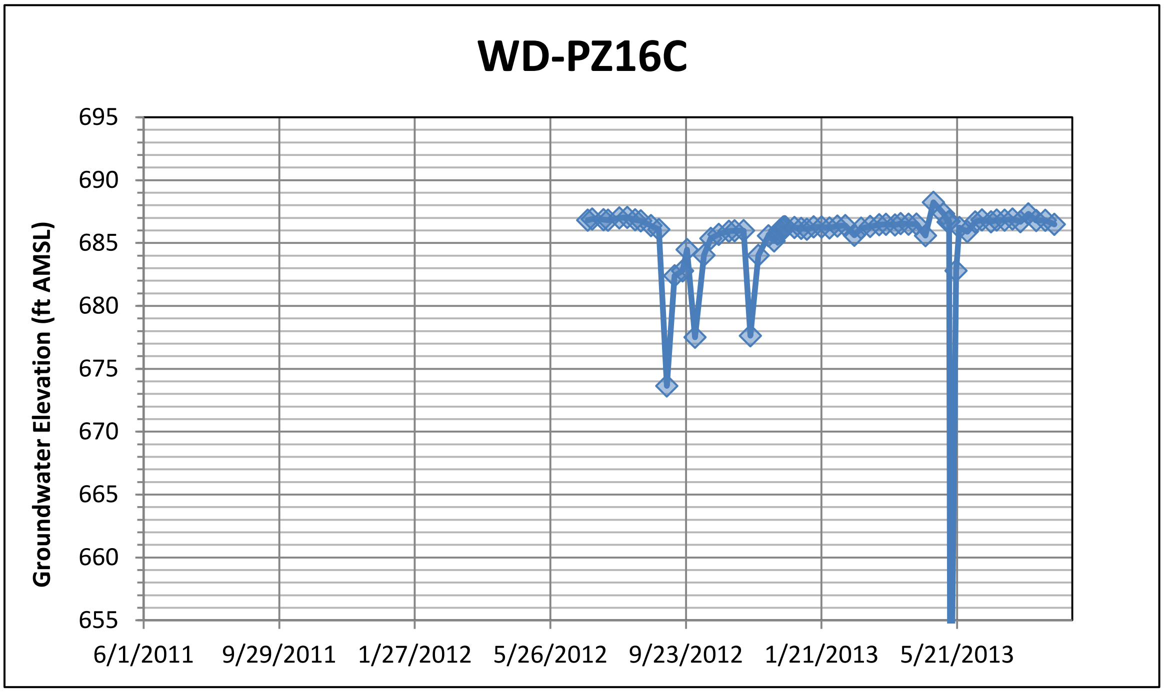

WD-PZ11C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

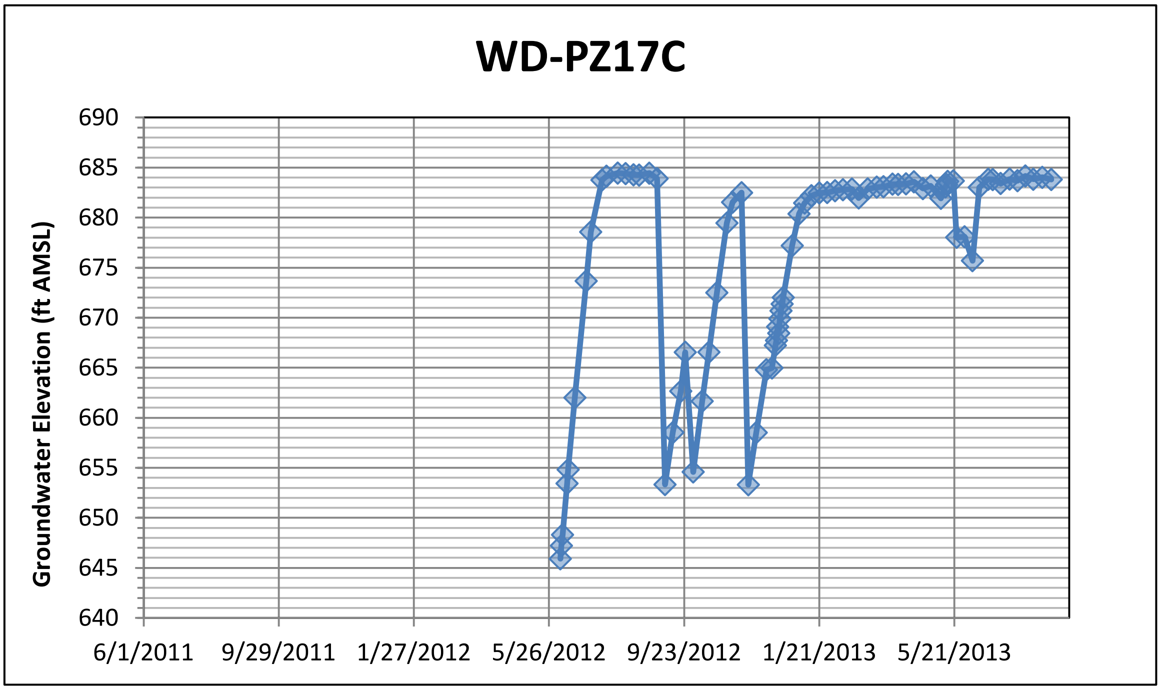

WD-PZ12C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

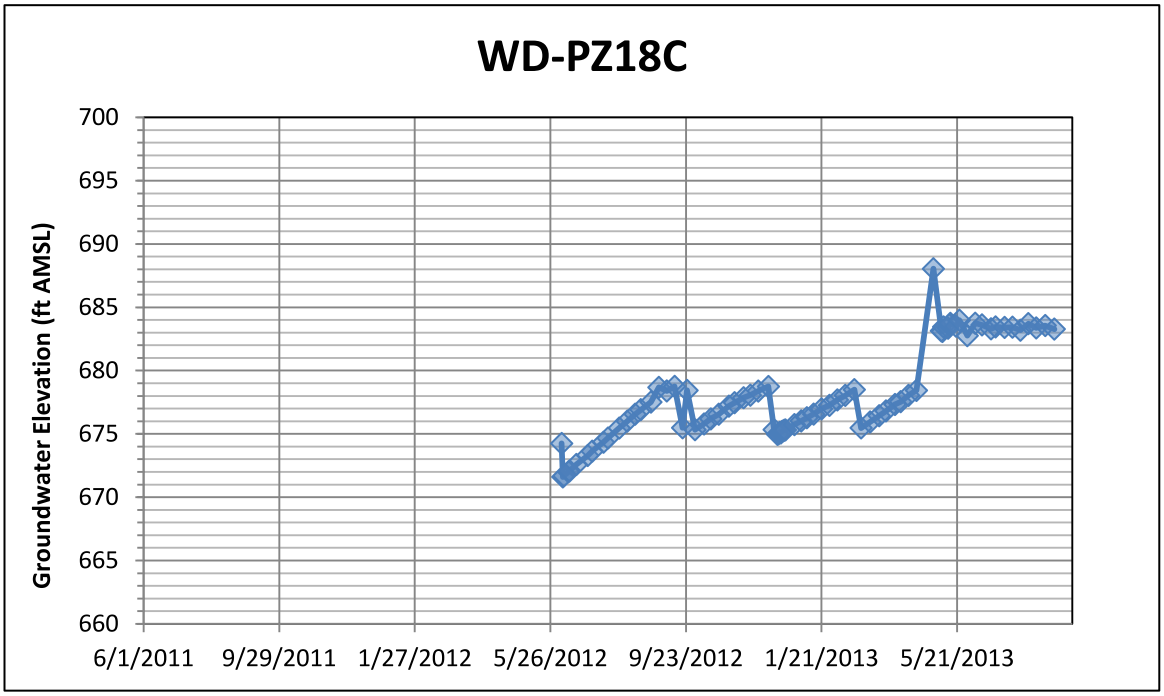

WD-PZ13C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

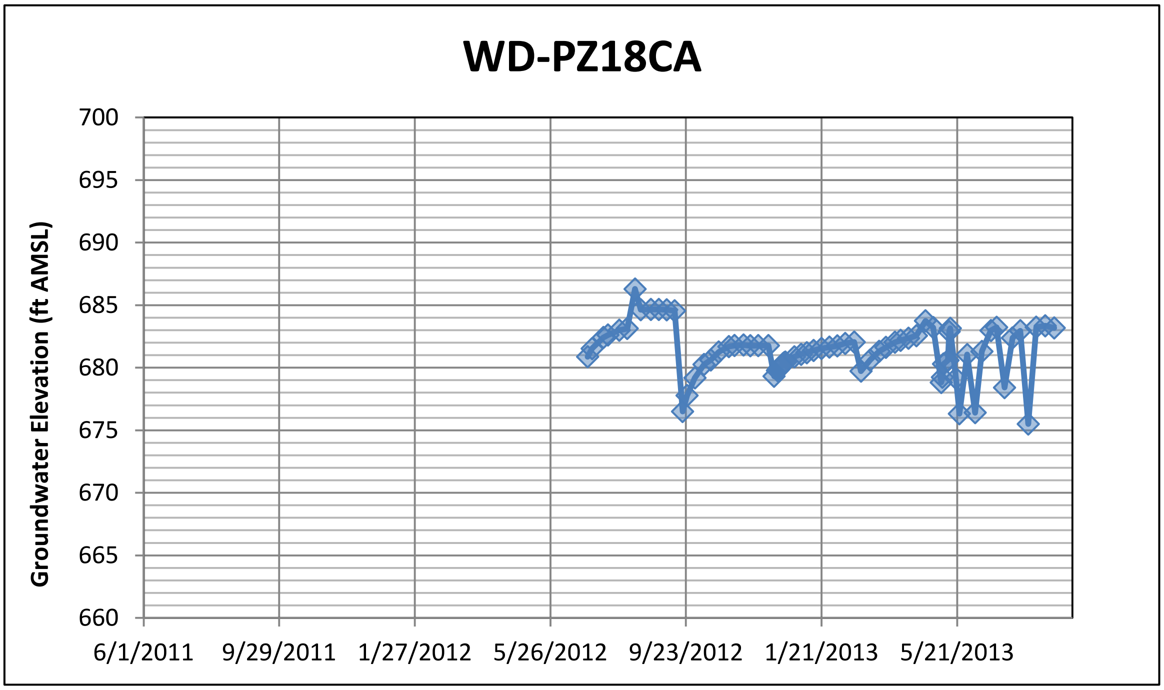

WD-PZ14C
Groundwater Elevation (ft AMSL)
690
685
680
675
670
665
660
655
650
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

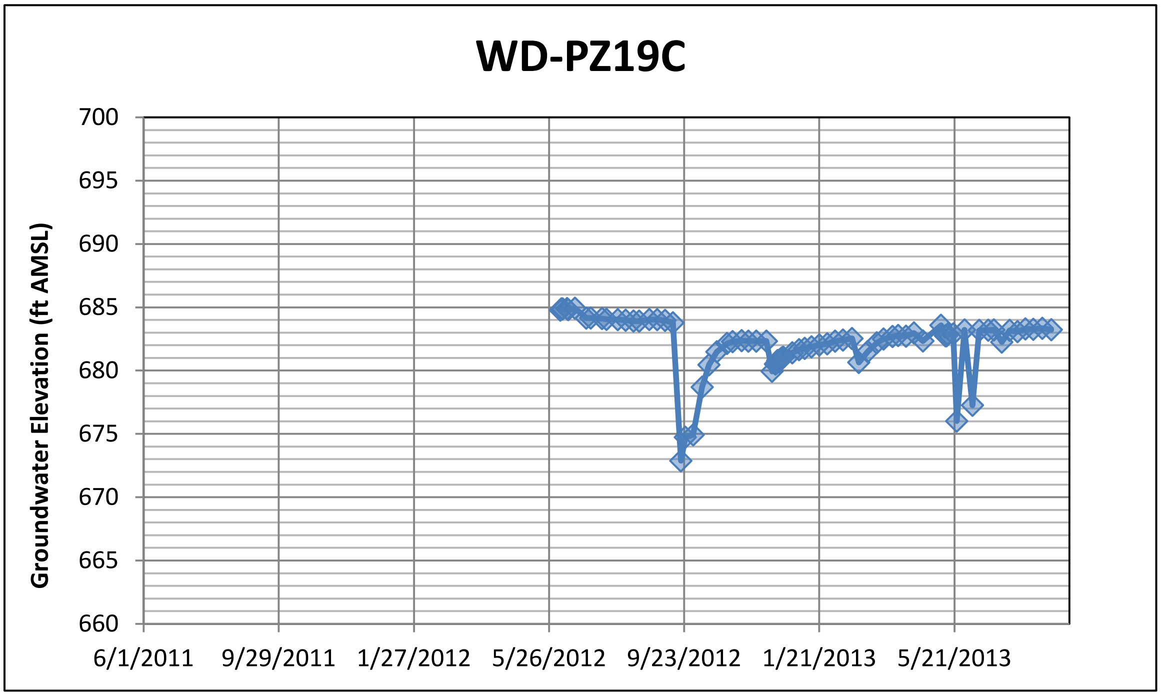

WD-PZ15C
Groundwater Elevation (ft AMSL)
720
715
710
705
700
695
690
685
680
675
670
665
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

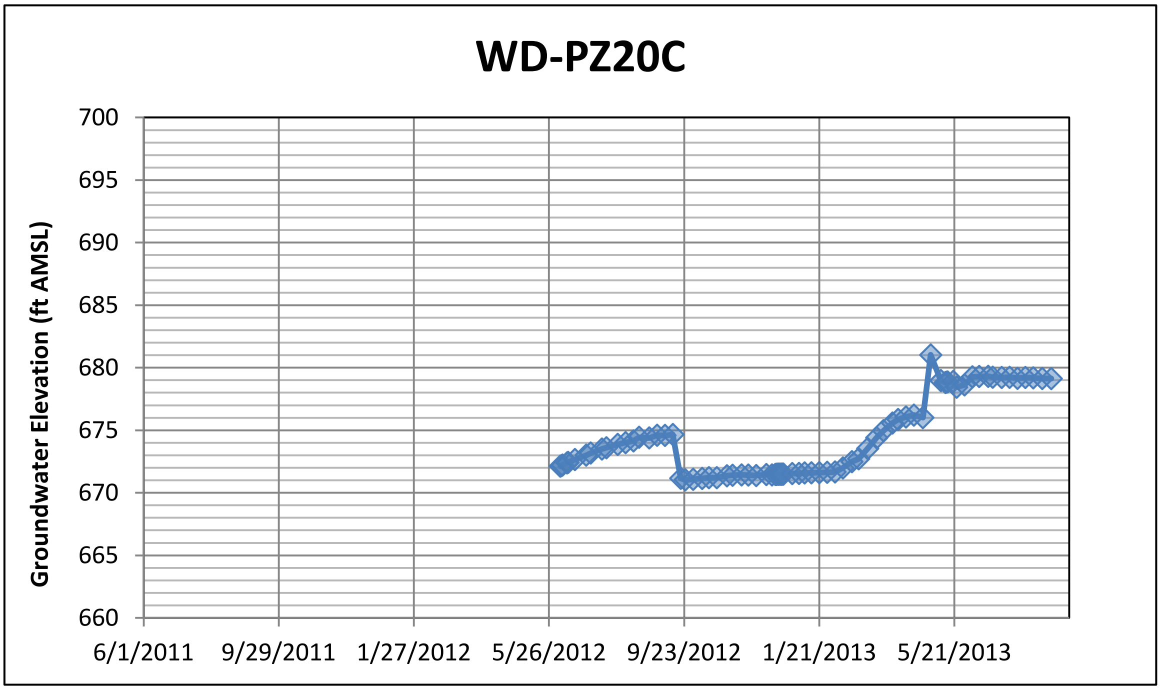

WD-PZ16C
Groundwater Elevation (ft AMSL)
695
690
685
680
675
670
665
660
655
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

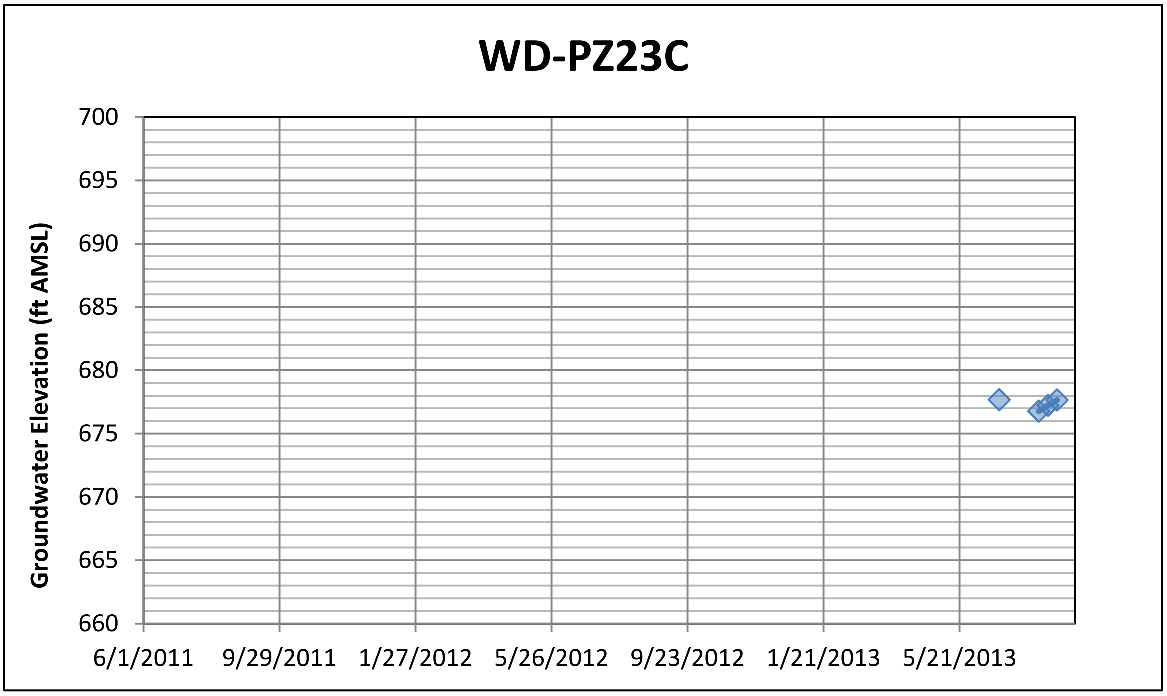

WD-PZ17C
Groundwater Elevation (ft AMSL)
690
685
680
675
670
665
660
655
650
645
640
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

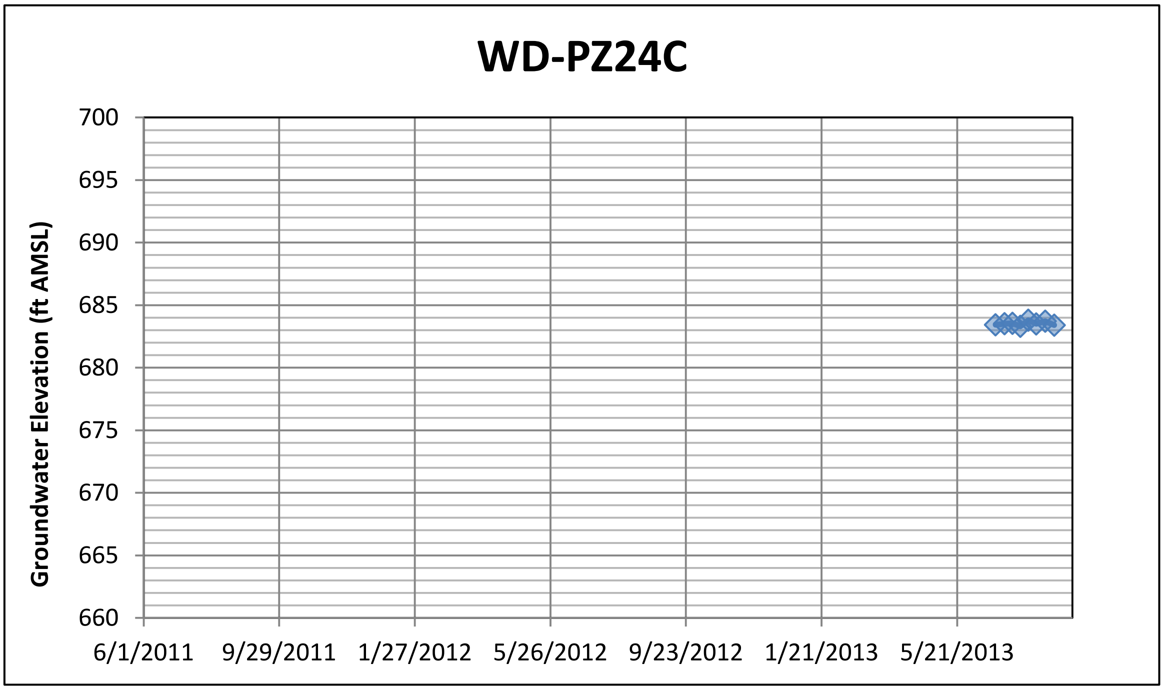

WD-PZ18C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

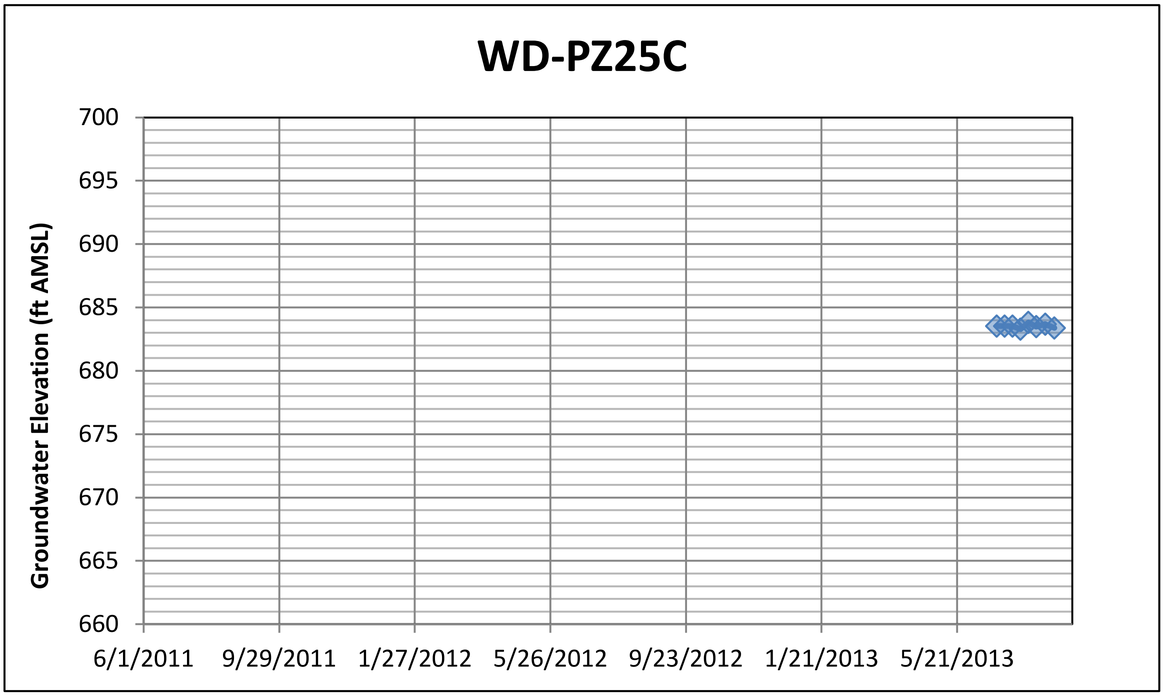

WD-PZ18CA
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

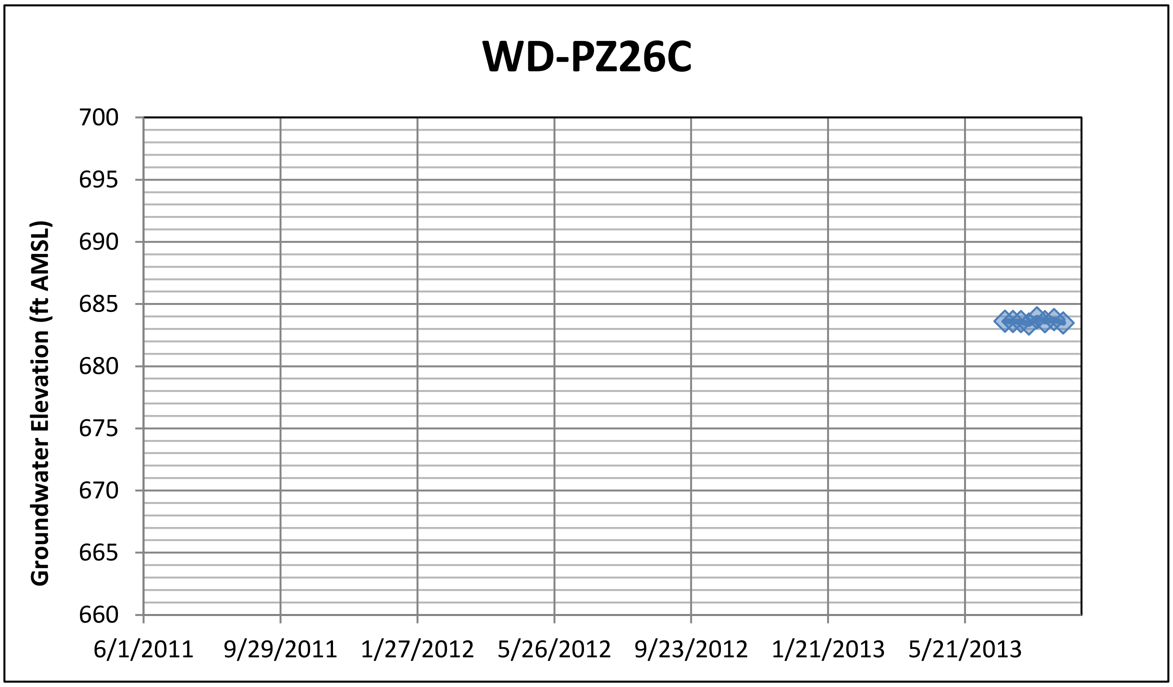

WD-PZ19C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

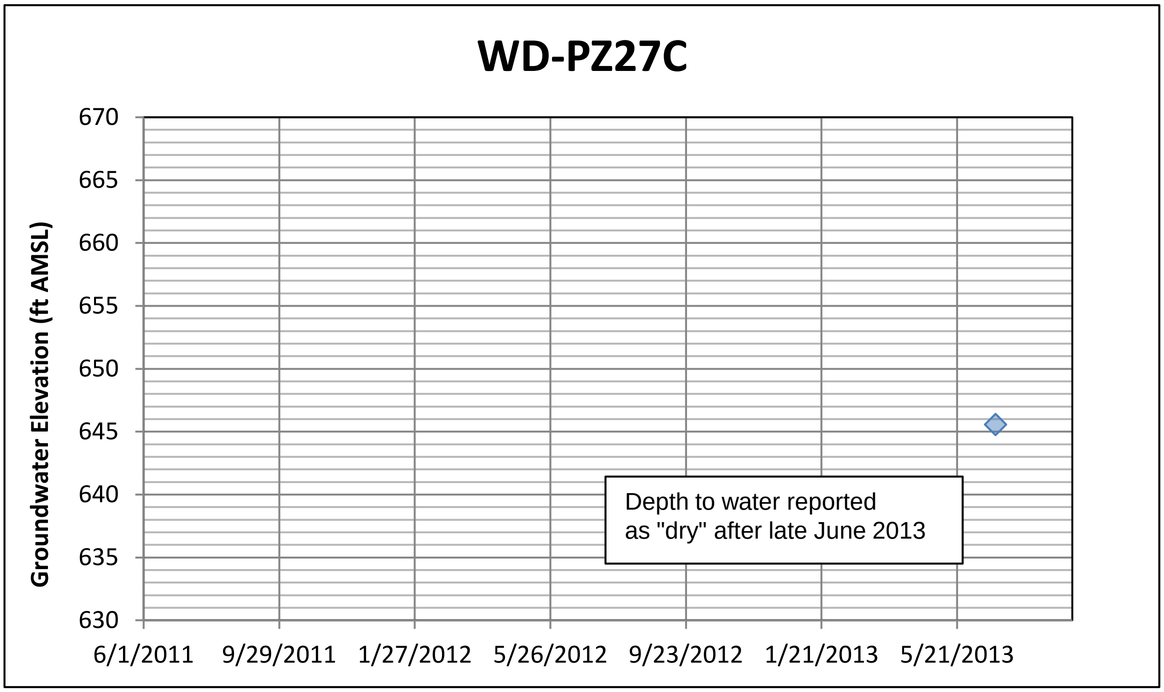

WD-PZ20C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013


WD-PZ23C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013


WD-PZ24C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013


WD-PZ25C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013


WD-PZ26C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013


WD-PZ27C
Groundwater Elevation (ft AMSL)
670
665
660
655
650
645
640
635
630
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013
Depth to water reported as "dry" after late June 2013

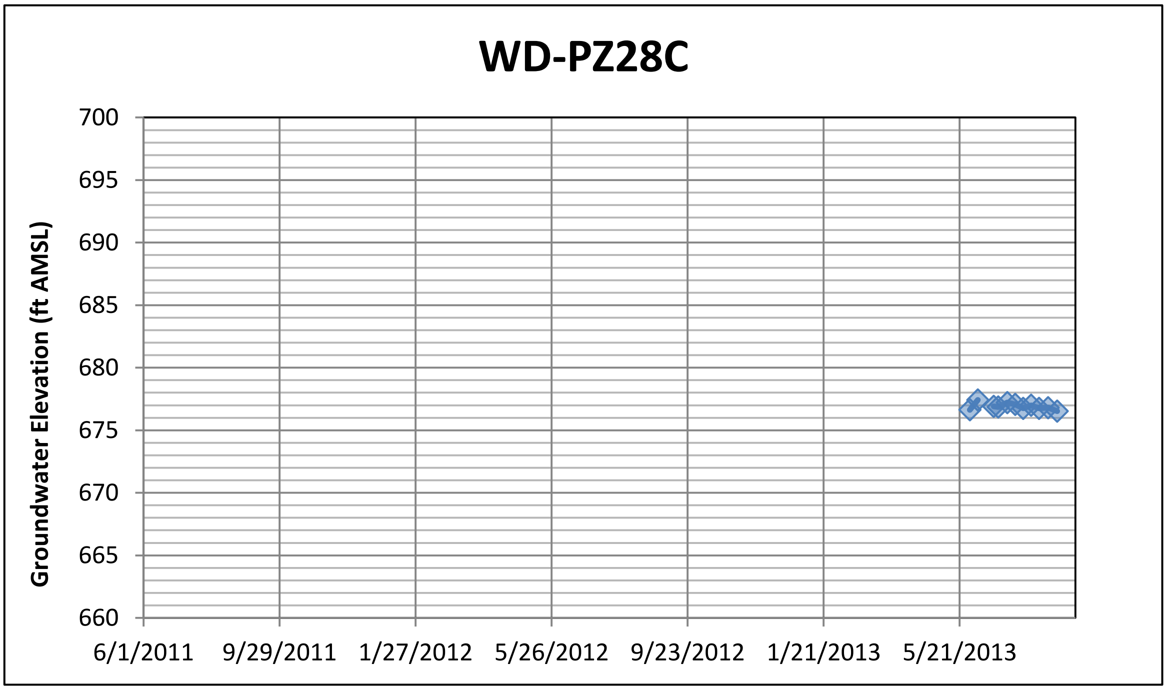

WD-PZ28C
Groundwater Elevation (ft AMSL)
700
695
690
685
680
675
670
665
660
6/1/2011
9/29/2011
1/27/2012
5/26/2012
9/23/2012
1/21/2013
5/21/2013

Table A.6. PORTS Surface Water Analyses

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Validation	Detect_Limit	Matrix	Med_Type	Smp_Type	Coll_Dev	D_Collected
X-611B	611B121911-01	VOA	1,1,1,2-Tetrachloroethane	0.21	µg/L		U		0.21	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	1,1,1-Trichloroethane	0.16	µg/L		U		0.16	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	1,1,2,2-Tetrachloroethane	0.21	µg/L		U		0.21	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	1,1,2-Trichloroethane	0.27	µg/L		U		0.27	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	1,1-Dichloroethane	0.22	µg/L		U		0.22	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	1,1-Dichloroethene	0.23	µg/L		U		0.23	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	1,2-Dichloroethane	0.13	µg/L		U		0.13	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	1,2-Dimethylbenzene	0.19	µg/L		U		0.19	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	2-Butanone	2	µg/L		U		2	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	2-Hexanone	1.7	µg/L		U		1.7	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Acetone	1.9	µg/L		U		1.9	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-03	VOA	Acrylonitrile	1.4	µg/L		U		1.4	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Aluminum	0.043	mg/L		B		0.018	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Aluminum	0.37	mg/L				0.018	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Antimony	0.0031	mg/L		U		0.0031	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Arsenic	0.00096	mg/L		BN		0.00033	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Arsenic	0.0005	mg/L		B		0.00033	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Barium	0.021	mg/L				0.00058	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Barium	0.022	mg/L				0.00058	WATER	WS	REG	GRA	12/28/2011
X-611B	611B121911-01	VOA	Benzene	0.16	µg/L		U		0.16	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Beryllium	0.00047	mg/L		U		0.00047	WATER	WS	REG	GRA	12/28/2011
X-611B	611B121911-01	VOA	Bromodichloromethane	0.17	µg/L		U		0.17	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Bromoform	0.19	µg/L		U		0.19	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Bromomethane	0.21	µg/L		U		0.21	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Cadmium	0.000056	mg/L		BN		0.00004	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Cadmium	0.00004	mg/L		U		0.00004	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Calcium	15	mg/L				0.035	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Calcium	16	mg/L				0.035	WATER	WS	REG	GRA	12/28/2011
X-611B	611B121911-01	VOA	Carbon disulfide	0.45	µg/L		U		0.45	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Carbon tetrachloride	0.19	µg/L		U		0.19	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Chlorobenzene	0.17	µg/L		U		0.17	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Chloroethane	0.41	µg/L		U		0.41	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Chloroform	0.16	µg/L		J		0.16	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Chloromethane	0.3	µg/L		U		0.3	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Chromium	0.00066	mg/L		U		0.00066	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Chromium	0.00089	mg/L		B		0.00066	WATER	WS	REG	GRA	12/28/2011
X-611B	611B121911-01	VOA	cis-1,2-Dichloroethene	0.15	µg/L		U		0.15	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Cobalt	0.0034	mg/L		B		0.0012	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Cobalt	0.0012	mg/L		U		0.0012	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Copper	0.0014	mg/L		U		0.0014	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Copper	0.0014	mg/L		B		0.0014	WATER	WS	REG	GRA	12/28/2011
X-611B	611B121911-01	VOA	Dibromochloromethane	0.17	µg/L		U		0.17	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Dichlorodifluoromethane	0.31	µg/L		U		0.31	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Ethylbenzene	0.16	µg/L		U		0.16	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Iron	0.038	mg/L		B		0.022	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Iron	0.24	mg/L				0.022	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Lead	0.00018	mg/L		U		0.00018	WATER	WS	REG	GRA	12/28/2011

Table A.6. PORTS Surface Water Analyses

Sta_Name	Proj_Sample_Id	Ana_Type	Chemical_Name	Results	Units	Rad_Err	Rsltqual	Validation	Detect_Limit	Matrix	Med_Type	Smp_Type	Coll_Dev	D_Collected
X-611B	611B121911-01	VOA	M + P Xylene	0.34	µg/L		U		0.34	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Magnesium	12	mg/L				0.011	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Magnesium	12	mg/L				0.011	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Manganese	0.0064	mg/L		B		0.00025	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Manganese	0.012	mg/L				0.00025	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Mercury	0.000027	mg/L		U		0.000027	WATER	WS	REG	GRA	12/28/2011
X-611B	611B121911-01	VOA	Methylene chloride	0.32	µg/L		U		0.32	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Molybdenum	0.0025	mg/L				0.00014	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Molybdenum	0.0023	mg/L				0.00014	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Nickel	0.0015	mg/L		B		0.0013	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Nickel	0.0013	mg/L		U		0.0013	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Potassium	2.8	mg/L		B		0.24	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Potassium	2.8	mg/L		B		0.24	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Selenium	0.00083	mg/L		B		0.0007	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Selenium	0.0007	mg/L		U		0.0007	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Silver	0.00093	mg/L		U		0.00093	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Sodium	13	mg/L				0.092	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Sodium	12	mg/L				0.092	WATER	WS	REG	GRA	12/28/2011
X-611B	611B121911-02	VOA	Styrene	0.17	µg/L		U		0.17	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Tetrachloroethene	0.2	µg/L		U		0.2	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Thallium	0.00005	mg/L		B		0.000033	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Thallium	0.000033	mg/L		U		0.000033	WATER	WS	REG	GRA	12/28/2011
X-611B	611B121911-01	VOA	Toluene	0.17	µg/L		U		0.17	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	trans-1,2-Dichloroethene	0.15	µg/L		U		0.15	WATER	WS	REG	GRA	12/19/2011
X-611B	611B121911-01	VOA	Trichloroethene	0.16	µg/L		U		0.16	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Uranium	0.00032	mg/L		B		0.00002	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Uranium	0.00033	mg/L		B		0.00002	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-07	METAL	Vanadium	0.0011	mg/L		U		0.0011	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Vanadium	0.0015	mg/L		B		0.0011	WATER	WS	REG	GRA	12/28/2011
X-611B	611B121911-02	VOA	Vinyl chloride	0.1	µg/L		U		0.1	WATER	WS	REG	GRA	12/19/2011
X-611B	611B122711-07	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WS	REG	GRA	12/28/2011
X-611B	611B122711-08	METAL	Zinc	0.0045	mg/L		U		0.0045	WATER	WS	REG	GRA	12/28/2011

Table A.7. PORTS Calculated Total Dissolved Solids

Station	Chemical Name	Results	Units	Sample Type	Collection Date
WD-MW01B	TDS (calculated)	451	mg/L	REG	7/27/2011
WD-MW01B	TDS (calculated)	1,231	mg/L	REG	11/29/2011
WD-MW01B	TDS (calculated)	1,327	mg/L	REG	12/12/2011
WD-MW01B	TDS (calculated)	1,333	mg/L	REG	1/11/2012
WD-MW01B	TDS (calculated)	1,387	mg/L	REG	2/13/2012
WD-MW01B	TDS (calculated)	1,447	mg/L	REG	3/13/2012
WD-MW01B	TDS (calculated)	1,390	mg/L	REG	4/9/2012
WD-MW01B	TDS (calculated)	1,338	mg/L	REG	9/27/2012
WD-MW01B	TDS (calculated)	1,373	mg/L	FD	12/3/2012
WD-MW01B	TDS (calculated)	1,360	mg/L	FD	2/26/2013
WD-MW02B	TDS (calculated)	1,456	mg/L	FR	7/28/2011
WD-MW02B	TDS (calculated)	1,423	mg/L	REG	11/29/2011
WD-MW02B	TDS (calculated)	1,441	mg/L	REG	12/12/2011
WD-MW02B	TDS (calculated)	1,421	mg/L	REG	1/11/2012
WD-MW02B	TDS (calculated)	1,392	mg/L	REG	2/13/2012
WD-MW02B	TDS (calculated)	1,469	mg/L	REG	3/13/2012
WD-MW02B	TDS (calculated)	1,452	mg/L	REG	4/9/2012
WD-MW02B	TDS (calculated)	1,449	mg/L	REG	9/26/2012
WD-MW02B	TDS (calculated)	1,481	mg/L	REG	12/4/2012
WD-MW02B	TDS (calculated)	1,450	mg/L	REG	2/26/2013
WD-MW03B	TDS (calculated)	1,130	mg/L	REG	12/7/2011
WD-MW03B	TDS (calculated)	1,226	mg/L	REG	12/14/2011
WD-MW03B	TDS (calculated)	1,293	mg/L	REG	1/17/2012
WD-MW03B	TDS (calculated)	1,262	mg/L	REG	2/15/2012
WD-MW03B	TDS (calculated)	1,334	mg/L	REG	3/19/2012
WD-MW03B	TDS (calculated)	1,373	mg/L	REG	4/11/2012
WD-MW03B	TDS (calculated)	1,354	mg/L	REG	9/26/2012
WD-MW03B	TDS (calculated)	1,304	mg/L	REG	12/4/2012
WD-MW03B	TDS (calculated)	1,353	mg/L	REG	2/21/2013
WD-MW04B	TDS (calculated)	1,164	mg/L	FR	12/7/2011
WD-MW04B	TDS (calculated)	1,204	mg/L	FR	12/14/2011
WD-MW04B	TDS (calculated)	1,365	mg/L	FR	1/17/2012
WD-MW04B	TDS (calculated)	1,419	mg/L	REG	1/17/2012
WD-MW04B	TDS (calculated)	1,448	mg/L	FR	2/15/2012
WD-MW04B	TDS (calculated)	1,563	mg/L	FR	3/19/2012
WD-MW04B	TDS (calculated)	1,550	mg/L	FR	4/11/2012
WD-MW04B	TDS (calculated)	1,628	mg/L	REG	9/24/2012
WD-MW04B	TDS (calculated)	1,596	mg/L	FD	12/5/2012
WD-MW04B	TDS (calculated)	1,600	mg/L	FD	2/20/2013
WD-MW05B	TDS (calculated)	959	mg/L	REG	12/7/2011
WD-MW05B	TDS (calculated)	888	mg/L	REG	12/14/2011
WD-MW05B	TDS (calculated)	840	mg/L	REG	1/17/2012
WD-MW05B	TDS (calculated)	802	mg/L	REG	2/14/2012
WD-MW05B	TDS (calculated)	813	mg/L	REG	3/14/2012
WD-MW05B	TDS (calculated)	803	mg/L	REG	4/10/2012

Table A.7. PORTS Calculated Total Dissolved Solids

Station	**Chemical Name**	**Results**	**Units**	**Sample Type**	**Collection Date**
WD-MW05B	TDS (calculated)	782	mg/L	REG	9/25/2012
WD-MW05B	TDS (calculated)	750	mg/L	REG	12/10/2012
WD-MW05B	TDS (calculated)	728	mg/L	REG	2/20/2013
WD-MW06B	TDS (calculated)	1,115	mg/L	REG	12/7/2011
WD-MW06B	TDS (calculated)	1,261	mg/L	REG	12/14/2011
WD-MW06B	TDS (calculated)	1,295	mg/L	REG	1/17/2012
WD-MW06B	TDS (calculated)	1,432	mg/L	REG	2/15/2012
WD-MW06B	TDS (calculated)	1,539	mg/L	REG	3/19/2012
WD-MW06B	TDS (calculated)	1,596	mg/L	REG	4/11/2012
WD-MW06B	TDS (calculated)	1,667	mg/L	REG	9/24/2012
WD-MW06B	TDS (calculated)	1,672	mg/L	REG	12/5/2012
WD-MW06B	TDS (calculated)	1,705	mg/L	REG	2/20/2013
WD-MW07B	TDS (calculated)	992	mg/L	FD	9/27/2012
WD-MW07B	TDS (calculated)	2,043	mg/L	REG	12/5/2012
WD-MW07B	TDS (calculated)	2,005	mg/L	REG	2/26/2013
WD-PZ01G	TDS (calculated)	1,075	mg/L	REG	7/26/2011
WD-PZ01G	TDS (calculated)	1,017	mg/L	REG	11/29/2011
WD-PZ01G	TDS (calculated)	1,005	mg/L	REG	12/13/2011
WD-PZ01G	TDS (calculated)	1,010	mg/L	REG	1/11/2012
WD-PZ01G	TDS (calculated)	988	mg/L	REG	2/14/2012
WD-PZ01G	TDS (calculated)	954	mg/L	REG	3/13/2012
WD-PZ01G	TDS (calculated)	962	mg/L	REG	4/9/2012
WD-PZ01G	TDS (calculated)	1,120	mg/L	REG	9/26/2012
WD-PZ01G	TDS (calculated)	959	mg/L	REG	12/3/2012
WD-PZ01G	TDS (calculated)	1,011	mg/L	REG	2/25/2013
WD-PZ02G	TDS (calculated)	1,392	mg/L	REG	7/27/2011
WD-PZ02G	TDS (calculated)	1,404	mg/L	REG	11/30/2011
WD-PZ02G	TDS (calculated)	1,396	mg/L	REG	12/13/2011
WD-PZ02G	TDS (calculated)	1,381	mg/L	REG	1/12/2012
WD-PZ02G	TDS (calculated)	1,395	mg/L	REG	2/14/2012
WD-PZ02G	TDS (calculated)	1,345	mg/L	REG	3/8/2012
WD-PZ02G	TDS (calculated)	1,421	mg/L	REG	4/10/2012
WD-PZ02G	TDS (calculated)	1,586	mg/L	REG	9/27/2012
WD-PZ02G	TDS (calculated)	1,481	mg/L	REG	12/3/2012
WD-PZ02G	TDS (calculated)	1,400	mg/L	REG	2/25/2013
WD-PZ03G	TDS (calculated)	862	mg/L	REG	7/26/2011
WD-PZ03G	TDS (calculated)	765	mg/L	FR	11/29/2011
WD-PZ03G	TDS (calculated)	743	mg/L	FR	12/13/2011
WD-PZ03G	TDS (calculated)	789	mg/L	FR	1/11/2012
WD-PZ03G	TDS (calculated)	793	mg/L	FR	2/13/2012
WD-PZ03G	TDS (calculated)	768	mg/L	FR	3/13/2012
WD-PZ03G	TDS (calculated)	782	mg/L	FR	4/9/2012
WD-PZ03G	TDS (calculated)	744	mg/L	REG	12/3/2012
WD-PZ03G	TDS (calculated)	743	mg/L	REG	2/25/2013
WD-PZ04C	TDS (calculated)	647	mg/L	REG	12/19/2011

Table A.7. PORTS Calculated Total Dissolved Solids

Station	Chemical Name	Results	Units	Sample Type	Collection Date
WD-PZ04C	TDS (calculated)	728	mg/L	REG	4/10/2012
WD-PZ04C	TDS (calculated)	718	mg/L	REG	9/26/2012
WD-PZ04C	TDS (calculated)	695	mg/L	REG	12/4/2012
WD-PZ04C	TDS (calculated)	613	mg/L	REG	2/27/2013
WD-PZ08C	TDS (calculated)	2,596	mg/L	REG	2/14/2012
WD-PZ08C	TDS (calculated)	3,252	mg/L	REG	4/10/2012
WD-PZ08C	TDS (calculated)	4,836	mg/L	REG	9/26/2012
WD-PZ08C	TDS (calculated)	4,580	mg/L	REG	12/4/2012
WD-PZ08C	TDS (calculated)	3,949	mg/L	REG	2/19/2013
WD-PZ09C	TDS (calculated)	2,187	mg/L	REG	11/22/2011
WD-PZ09C	TDS (calculated)	1,996	mg/L	REG	12/13/2011
WD-PZ09C	TDS (calculated)	1,943	mg/L	REG	1/16/2012
WD-PZ09C	TDS (calculated)	2,029	mg/L	REG	2/15/2012
WD-PZ09C	TDS (calculated)	2,307	mg/L	REG	3/19/2012
WD-PZ09C	TDS (calculated)	2,233	mg/L	REG	4/11/2012
WD-PZ09C	TDS (calculated)	2,113	mg/L	REG	9/25/2012
WD-PZ09C	TDS (calculated)	2,033	mg/L	REG	11/13/2012
WD-PZ09C	TDS (calculated)	2,099	mg/L	REG	2/21/2013
WD-PZ11C	TDS (calculated)	3,675	mg/L	REG	11/21/2011
WD-PZ11C	TDS (calculated)	1,529	mg/L	REG	12/13/2011
WD-PZ11C	TDS (calculated)	2,342	mg/L	REG	1/16/2012
WD-PZ11C	TDS (calculated)	2,695	mg/L	REG	2/15/2012
WD-PZ11C	TDS (calculated)	2,886	mg/L	REG	3/19/2012
WD-PZ11C	TDS (calculated)	2,905	mg/L	REG	4/11/2012
WD-PZ11C	TDS (calculated)	3,805	mg/L	REG	9/25/2012
WD-PZ11C	TDS (calculated)	3,417	mg/L	REG	12/10/2012
WD-PZ11C	TDS (calculated)	3,286	mg/L	REG	2/19/2013
WD-PZ12C	TDS (calculated)	4,582	mg/L	REG	11/22/2011
WD-PZ12C	TDS (calculated)	4,384	mg/L	REG	12/14/2011
WD-PZ12C	TDS (calculated)	4,115	mg/L	REG	1/16/2012
WD-PZ12C	TDS (calculated)	4,331	mg/L	REG	2/15/2012
WD-PZ12C	TDS (calculated)	4,443	mg/L	REG	3/19/2012
WD-PZ12C	TDS (calculated)	4,408	mg/L	REG	4/11/2012
WD-PZ12C	TDS (calculated)	2,437	mg/L	REG	9/26/2012
WD-PZ12C	TDS (calculated)	3,664	mg/L	FD	11/13/2012
WD-PZ12C	TDS (calculated)	3,143	mg/L	FD	2/19/2013
WD-PZ13C	TDS (calculated)	5,488	mg/L	REG	11/21/2011
WD-PZ13C	TDS (calculated)	5,341	mg/L	REG	12/13/2011
WD-PZ13C	TDS (calculated)	4,955	mg/L	REG	1/16/2012
WD-PZ13C	TDS (calculated)	5,016	mg/L	REG	2/15/2012
WD-PZ13C	TDS (calculated)	5,356	mg/L	REG	3/19/2012
WD-PZ13C	TDS (calculated)	5,566	mg/L	REG	4/11/2012
WD-PZ13C	TDS (calculated)	6,238	mg/L	FD	9/25/2012
WD-PZ13C	TDS (calculated)	5,908	mg/L	REG	12/10/2012
WD-PZ13C	TDS (calculated)	5,608	mg/L	REG	2/19/2013

Table A.7. PORTS Calculated Total Dissolved Solids

Station	Chemical Name	Results	Units	Sample Type	Collection Date
WD-PZ14C	TDS (calculated)	6,188	mg/L	REG	11/22/2011
WD-PZ14C	TDS (calculated)	7,548	mg/L	REG	12/14/2011
WD-PZ14C	TDS (calculated)	6,134	mg/L	REG	1/16/2012
WD-PZ14C	TDS (calculated)	6,275	mg/L	REG	2/14/2012
WD-PZ14C	TDS (calculated)	5,216	mg/L	REG	3/14/2012
WD-PZ14C	TDS (calculated)	6,223	mg/L	REG	4/10/2012
WD-PZ14C	TDS (calculated)	7,380	mg/L	REG	9/19/2012 and 9/26/2012 [1]
WD-PZ14C	TDS (calculated)	6,774	mg/L	REG	12/4/2012
WD-PZ14C	TDS (calculated)	7,114	mg/L	REG	2/19/2013
WD-PZ15C	TDS (calculated)	8,241	mg/L	REG	9/18/2012 and 9/26/2012 [1]
WD-PZ15C	TDS (calculated)	9,072	mg/L	REG	12/10/2012
WD-PZ15C	TDS (calculated)	8,221	mg/L	REG	2/20/2013
WD-PZ16C	TDS (calculated)	1,983	mg/L	REG	9/17/2012 and 9/26/2012 [1]
WD-PZ16C	TDS (calculated)	1,827	mg/L	REG	12/5/2012
WD-PZ16C	TDS (calculated)	2,178	mg/L	REG	2/19/2013
WD-PZ17C	TDS (calculated)	4,044	mg/L	REG	9/17/2012 and 9/26/2012 [1]
WD-PZ17C	TDS (calculated)	3,873	mg/L	REG	12/5/2012
WD-PZ17C	TDS (calculated)	3,825	mg/L	REG	2/19/2013
WD-PZ18C	TDS (calculated)	10,792	mg/L	REG	9/18/2012 and 9/26/2012 [1]
WD-PZ18C	TDS (calculated)	9,912	mg/L	REG	12/10/2012
WD-PZ18C	TDS (calculated)	8,718	mg/L	REG	2/19/2013
WD-PZ18CA	TDS (calculated)	7,629	mg/L	REG	2/20/2013
WD-PZ19C	TDS (calculated)	5,584	mg/L	REG	9/24/2012
WD-PZ19C	TDS (calculated)	4,965	mg/L	REG	12/5/2012
WD-PZ19C	TDS (calculated)	5,829	mg/L	REG	2/20/2013

[1] Groundwater samples for cations and anions collected on different dates due to low yield.

Total dissolved solids calculated from sum of major ions (calcium, magnesium, sodium, potassium, carbonate, bicarbonate, sulfate, and chloride)

REG = regular sample

FD = field duplicate

FR = field replicate

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW01B	1,2-Dimethylbenzene	3.30E-01	3.60E-01	ug/L	3	11
WD-MW01B	Acetone	2.30E+00	4.70E+01	ug/L	5	11
WD-MW01B	Aluminum	2.30E-02	1.80E-01	mg/L	14	22
WD-MW01B	Ammonium Nitrogen	2.00E+00	8.50E+00	mg/L	10	11
WD-MW01B	Anthracene	4.20E-01	4.20E-01	ug/L	1	11
WD-MW01B	Antimony	1.90E-03	9.00E-03	mg/L	20	22
WD-MW01B	Arsenic	1.20E-02	4.40E-02	mg/L	22	22
WD-MW01B	Barium	9.50E-02	3.00E-01	mg/L	22	22
WD-MW01B	Benz(a)anthracene	3.90E-01	3.90E-01	ug/L	1	11
WD-MW01B	Benzene	1.20E+00	1.90E+00	ug/L	6	11
WD-MW01B	Beryllium	1.20E-04	1.20E-04	mg/L	1	22
WD-MW01B	Bis(2-ethylhexyl)phthalate	6.40E-01	2.60E+00	ug/L	3	11
WD-MW01B	Cadmium	9.40E-05	1.20E-04	mg/L	2	22
WD-MW01B	Calcium	1.10E+01	1.60E+02	mg/L	23	23
WD-MW01B	Chloride	3.50E+01	5.20E+02	mg/L	12	12
WD-MW01B	Chloroform	2.10E-01	2.10E-01	ug/L	1	11
WD-MW01B	Chromium	5.00E-04	1.00E-03	mg/L	4	22
WD-MW01B	Chromium, hexavalent	4.10E-03	7.50E-03	mg/L	5	11
WD-MW01B	Chrysene	3.20E-01	3.20E-01	ug/L	1	11
WD-MW01B	Cobalt	2.00E-04	4.10E-03	mg/L	11	22
WD-MW01B	Copper	1.60E-03	7.80E-03	mg/L	7	22
WD-MW01B	Cyanide	3.00E-03	4.60E-03	mg/L	3	5
WD-MW01B	Di-n-butyl phthalate	4.50E+00	4.50E+00	ug/L	1	11
WD-MW01B	Fluoranthene	3.90E-01	3.90E-01	ug/L	1	11
WD-MW01B	Fluoride	3.60E-01	6.30E-01	mg/L	12	12
WD-MW01B	Iron	2.60E-02	2.70E-01	mg/L	21	22
WD-MW01B	Lead	1.80E-04	3.30E-04	mg/L	3	22
WD-MW01B	Lithium	8.50E-02	1.00E-01	mg/L	10	10
WD-MW01B	M + P Xylene	4.50E-01	6.80E-01	ug/L	4	9
WD-MW01B	Magnesium	8.00E+00	2.20E+01	mg/L	23	23
WD-MW01B	Manganese	6.10E-03	5.90E-02	mg/L	22	22
WD-MW01B	Methylene chloride	1.10E+00	1.80E+00	ug/L	6	11

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW01B	Molybdenum	1.20E-02	2.80E-02	mg/L	12	12
WD-MW01B	Nickel	1.30E-03	1.40E-02	mg/L	19	22
WD-MW01B	Nitrate	5.30E-02	9.00E-02	mg/L	2	12
WD-MW01B	Octachlorodibenzofuran	2.45E-05	2.45E-05	ug/L	1	5
WD-MW01B	Potassium	1.80E+01	3.80E+01	mg/L	23	23
WD-MW01B	Pyrene	3.00E-01	3.00E-01	ug/L	1	11
WD-MW01B	Selenium	7.20E-04	7.20E-04	mg/L	1	22
WD-MW01B	Silver	6.80E-05	6.80E-05	mg/L	1	22
WD-MW01B	Sodium	5.70E+01	4.40E+02	mg/L	23	23
WD-MW01B	Strontium	1.30E+00	2.10E+00	mg/L	10	10
WD-MW01B	Sulfate	6.80E+00	7.60E+01	mg/L	12	12
WD-MW01B	Thallium	3.60E-05	8.10E-04	mg/L	8	22
WD-MW01B	Thorium-228	9.13E-02	9.13E-02	pCi/L	1	5
WD-MW01B	Titanium	8.10E-04	1.30E-03	mg/L	5	10
WD-MW01B	Toluene	6.80E-01	1.70E+00	ug/L	6	11
WD-MW01B	Uranium	4.30E-03	1.70E-02	mg/L	22	22
WD-MW01B	Uranium-233/234	3.14E-01	1.21E+01	pCi/L	11	11
WD-MW01B	Uranium-235	1.30E-01	2.73E-01	pCi/L	5	6
WD-MW01B	Uranium-235/236	1.31E-01	1.80E-01	pCi/L	4	5
WD-MW01B	Uranium-238	3.90E-01	5.45E+00	pCi/L	11	11
WD-MW01B	Vanadium	6.80E-04	4.60E-03	mg/L	18	22
WD-MW01B	Zinc	4.00E-03	4.00E-02	mg/L	4	22
WD-MW02B	1,2-Dichloroethane	2.10E-01	2.10E-01	ug/L	1	9
WD-MW02B	1,2-Dimethylbenzene	1.90E-01	1.90E-01	ug/L	2	9
WD-MW02B	2-Butanone	4.10E+00	6.70E+00	ug/L	2	9
WD-MW02B	Acetone	8.80E+00	2.60E+01	ug/L	2	9
WD-MW02B	Aluminum	4.10E-02	4.40E+00	mg/L	17	18
WD-MW02B	Ammonium Nitrogen	2.60E+00	3.40E+00	mg/L	9	9
WD-MW02B	Antimony	1.00E-03	1.50E-03	mg/L	4	18
WD-MW02B	Arsenic	1.90E-03	1.30E-02	mg/L	18	18
WD-MW02B	Barium	1.10E-01	1.50E-01	mg/L	18	18
WD-MW02B	Benzene	2.20E-01	6.80E+00	ug/L	9	9

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW02B	Bis(2-ethylhexyl)phthalate	7.40E-01	2.70E+00	ug/L	3	9
WD-MW02B	Bromoform	3.10E-01	6.40E-01	ug/L	2	9
WD-MW02B	Cadmium	4.30E-05	4.10E-04	mg/L	8	18
WD-MW02B	Calcium	2.90E+01	3.50E+01	mg/L	20	20
WD-MW02B	Chloride	4.60E+02	5.40E+02	mg/L	11	11
WD-MW02B	Chromium	8.70E-04	9.20E-03	mg/L	11	18
WD-MW02B	Chromium, hexavalent	4.30E-03	3.50E-02	mg/L	5	7
WD-MW02B	Cobalt	3.10E-04	3.40E-03	mg/L	12	18
WD-MW02B	Copper	7.90E-04	1.30E-02	mg/L	11	18
WD-MW02B	Cyanide	2.50E-03	2.50E-03	mg/L	1	3
WD-MW02B	Ethylbenzene	2.50E-01	3.20E-01	ug/L	7	9
WD-MW02B	Fluoride	4.30E-01	5.30E-01	mg/L	11	11
WD-MW02B	Iron	9.40E-02	7.50E+00	mg/L	18	18
WD-MW02B	Lead	2.20E-04	4.00E-03	mg/L	11	18
WD-MW02B	Lithium	7.40E-02	8.50E-02	mg/L	6	6
WD-MW02B	M + P Xylene	9.80E-01	1.70E+00	ug/L	7	8
WD-MW02B	m,p-Xylenes	6.70E-01	6.70E-01	ug/L	1	1
WD-MW02B	Magnesium	1.30E+01	1.70E+01	mg/L	20	20
WD-MW02B	Manganese	7.10E-02	1.50E-01	mg/L	18	18
WD-MW02B	Mercury	2.70E-05	2.70E-05	mg/L	1	18
WD-MW02B	Methylene chloride	3.40E-01	9.20E-01	ug/L	5	9
WD-MW02B	Molybdenum	5.00E-02	9.20E-02	mg/L	12	12
WD-MW02B	Nickel	1.10E-03	2.10E-02	mg/L	17	18
WD-MW02B	Nitrate	4.50E-02	1.40E-01	mg/L	4	11
WD-MW02B	Octachloro-dibenzo[b,e][1,4]dioxin	1.55E-04	1.65E-04	ug/L	2	3
WD-MW02B	Octachlorodibenzofuran	1.02E-04	1.02E-04	ug/L	1	3
WD-MW02B	Potassium	1.30E+01	2.00E+01	mg/L	20	20
WD-MW02B	Selenium	9.80E-04	1.20E-03	mg/L	3	18
WD-MW02B	Silver	7.20E-05	3.10E-03	mg/L	4	18
WD-MW02B	Sodium	4.30E+02	4.80E+02	mg/L	20	20
WD-MW02B	Strontium	1.10E+00	1.30E+00	mg/L	6	6
WD-MW02B	Sulfate	9.10E-01	1.20E+01	mg/L	11	11

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW02B	Thallium	9.40E-05	4.00E-04	mg/L	9	18
WD-MW02B	Thorium-228	7.91E-02	7.91E-02	pCi/L	1	3
WD-MW02B	Thorium-230	9.74E-02	9.74E-02	pCi/L	1	3
WD-MW02B	Thorium-232	5.81E-02	5.81E-02	pCi/L	1	3
WD-MW02B	Titanium	1.20E-03	6.00E-02	mg/L	5	6
WD-MW02B	Toluene	3.30E-01	8.20E-01	ug/L	8	9
WD-MW02B	Total Xylene	6.70E-01	1.20E+00	ug/L	2	3
WD-MW02B	Uranium	2.10E-03	4.60E-03	mg/L	18	18
WD-MW02B	Uranium-233/234	1.86E+00	1.11E+01	pCi/L	9	9
WD-MW02B	Uranium-235	1.09E-01	2.40E-01	pCi/L	3	6
WD-MW02B	Uranium-235/236	4.88E-02	5.29E-02	pCi/L	2	3
WD-MW02B	Uranium-238	7.98E-01	5.18E+00	pCi/L	9	9
WD-MW02B	Vanadium	9.70E-04	2.50E-02	mg/L	15	18
WD-MW02B	Zinc	3.60E-03	3.30E-02	mg/L	9	18
WD-MW03B	1,2-Dimethylbenzene	9.80E-01	1.00E+00	ug/L	2	9
WD-MW03B	2-Butanone	7.50E+00	1.10E+01	ug/L	2	10
WD-MW03B	Acetone	1.90E+00	3.80E+01	ug/L	6	10
WD-MW03B	Aluminum	2.60E-02	1.50E+00	mg/L	19	20
WD-MW03B	Antimony	3.10E-03	1.10E-02	mg/L	18	20
WD-MW03B	Arsenic	1.30E-02	3.00E-02	mg/L	20	20
WD-MW03B	Barium	4.40E-02	9.30E-02	mg/L	20	20
WD-MW03B	Benzene	8.30E-01	3.10E+00	ug/L	6	10
WD-MW03B	Bis(2-ethylhexyl)phthalate	7.40E-01	3.20E+00	ug/L	5	10
WD-MW03B	Cadmium	4.40E-05	2.20E-04	mg/L	3	20
WD-MW03B	Calcium	1.70E+01	2.20E+01	mg/L	20	20
WD-MW03B	Chloride	3.40E+02	4.90E+02	mg/L	10	10
WD-MW03B	Chloroform	4.20E-01	5.40E-01	ug/L	2	10
WD-MW03B	Chromium	8.00E-04	1.20E-02	mg/L	13	20
WD-MW03B	Chromium, hexavalent	8.60E-03	2.70E-02	mg/L	4	8
WD-MW03B	Cobalt	4.00E-04	4.00E-03	mg/L	9	20
WD-MW03B	Copper	1.40E-03	3.70E-03	mg/L	15	20
WD-MW03B	Cyanide	2.30E-03	8.30E-03	mg/L	3	4

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW03B	Dichloroprop	7.29E-01	7.29E-01	ug/L	1	6
WD-MW03B	Ethylbenzene	4.00E-01	4.20E-01	ug/L	2	10
WD-MW03B	Fluoride	3.60E-01	7.80E-01	mg/L	10	10
WD-MW03B	Iron	3.10E-02	1.80E+00	mg/L	20	20
WD-MW03B	Lead	1.80E-04	1.60E-03	mg/L	13	20
WD-MW03B	Lithium	5.00E-02	6.40E-02	mg/L	8	8
WD-MW03B	M + P Xylene	5.90E-01	1.80E+00	ug/L	3	9
WD-MW03B	Magnesium	5.80E+00	7.50E+00	mg/L	20	20
WD-MW03B	Manganese	1.50E-02	6.10E-02	mg/L	20	20
WD-MW03B	Mercury	2.70E-05	3.00E-05	mg/L	2	20
WD-MW03B	Methylene chloride	4.80E-01	7.70E-01	ug/L	3	10
WD-MW03B	Molybdenum	3.70E-02	1.50E-01	mg/L	12	12
WD-MW03B	Nickel	2.90E-03	1.50E-02	mg/L	20	20
WD-MW03B	Nitrate	5.20E-02	2.80E-01	mg/L	2	10
WD-MW03B	Octachloro-dibenzo[b,e][1,4]dioxin	7.78E-05	1.13E-04	ug/L	2	4
WD-MW03B	Octachlorodibenzofuran	5.03E-05	5.03E-05	ug/L	1	4
WD-MW03B	PCB-1242	1.55E-01	1.55E-01	ug/L	1	10
WD-MW03B	PCB-1254	1.54E-01	1.54E-01	ug/L	1	10
WD-MW03B	Polychlorinated biphenyl	3.09E-01	3.09E-01	ug/L	1	10
WD-MW03B	Potassium	1.00E+01	2.00E+01	mg/L	20	20
WD-MW03B	Silver	4.50E-04	1.90E-03	mg/L	6	20
WD-MW03B	Sodium	3.60E+02	4.60E+02	mg/L	20	20
WD-MW03B	Strontium	7.60E-01	9.20E-01	mg/L	8	8
WD-MW03B	Sulfate	4.10E+00	3.10E+01	mg/L	10	10
WD-MW03B	Thallium	3.30E-05	1.30E-04	mg/L	12	20
WD-MW03B	Thorium-228	6.75E-02	1.52E-01	pCi/L	2	4
WD-MW03B	Thorium-230	1.00E-01	2.00E-01	pCi/L	2	4
WD-MW03B	Thorium-232	8.37E-02	1.07E-01	pCi/L	2	4
WD-MW03B	Titanium	1.10E-03	4.30E-02	mg/L	6	8
WD-MW03B	Toluene	1.80E+00	3.30E+00	ug/L	2	10
WD-MW03B	Uranium	2.70E-03	6.40E-03	mg/L	20	20
WD-MW03B	Uranium-233/234	2.63E+00	6.20E+00	pCi/L	10	10

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW03B	Uranium-235	7.39E-02	1.30E-01	pCi/L	5	6
WD-MW03B	Uranium-235/236	4.03E-02	6.69E-02	pCi/L	3	4
WD-MW03B	Uranium-238	9.07E-01	2.58E+00	pCi/L	10	10
WD-MW03B	Vanadium	1.10E-03	4.40E-03	mg/L	16	20
WD-MW03B	Zinc	3.10E-03	6.50E-03	mg/L	6	20
WD-MW04B	1,2-Dimethylbenzene	2.00E-01	5.30E-01	ug/L	9	18
WD-MW04B	4-Methylphenol	4.10E-01	6.10E-01	ug/L	2	12
WD-MW04B	Acetone	2.30E+00	2.20E+01	ug/L	6	18
WD-MW04B	Aluminum	2.90E-02	3.30E+00	mg/L	36	36
WD-MW04B	Ammonium Nitrogen	1.90E+00	3.00E+00	mg/L	18	18
WD-MW04B	Antimony	8.30E-04	1.00E-02	mg/L	26	36
WD-MW04B	Arsenic	6.30E-03	1.70E-02	mg/L	36	36
WD-MW04B	Barium	3.50E-02	1.50E-01	mg/L	36	36
WD-MW04B	Benzene	3.50E-01	2.40E+00	ug/L	12	18
WD-MW04B	Benzoic acid	2.50E+01	4.10E+01	ug/L	6	18
WD-MW04B	Bis(2-ethylhexyl)phthalate	2.40E+00	3.50E+00	ug/L	8	18
WD-MW04B	Cadmium	4.10E-05	1.50E-04	mg/L	11	36
WD-MW04B	Calcium	2.00E+01	2.80E+01	mg/L	36	36
WD-MW04B	Chloride	3.50E+02	6.40E+02	mg/L	18	18
WD-MW04B	Chloroform	1.70E-01	2.70E-01	ug/L	4	18
WD-MW04B	Chromium	7.90E-04	5.10E-03	mg/L	18	36
WD-MW04B	Chromium, hexavalent	7.60E-03	2.60E-02	mg/L	9	12
WD-MW04B	Cobalt	4.80E-04	4.60E-03	mg/L	23	36
WD-MW04B	Copper	1.30E-03	5.30E-03	mg/L	28	36
WD-MW04B	Cyanide	3.40E-03	7.10E-03	mg/L	6	6
WD-MW04B	Ethylbenzene	1.70E-01	1.80E-01	ug/L	4	18
WD-MW04B	Fluoride	4.10E-01	8.50E-01	mg/L	18	18
WD-MW04B	Iron	8.60E-02	2.50E+00	mg/L	36	36
WD-MW04B	Lead	1.80E-04	1.40E-03	mg/L	18	36
WD-MW04B	Lithium	3.60E-02	5.80E-02	mg/L	12	12
WD-MW04B	M + P Xylene	3.60E-01	9.00E-01	ug/L	9	16
WD-MW04B	Magnesium	7.00E+00	1.00E+01	mg/L	36	36

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW04B	Manganese	5.90E-02	2.10E-01	mg/L	36	36
WD-MW04B	Mercury	3.10E-05	3.40E-05	mg/L	4	36
WD-MW04B	Methylene chloride	4.50E-01	6.50E-01	ug/L	5	18
WD-MW04B	Molybdenum	6.00E-03	1.80E-01	mg/L	24	24
WD-MW04B	Nickel	2.40E-03	1.70E-01	mg/L	36	36
WD-MW04B	Octachloro-dibenzo[b,e][1,4]dioxin	6.47E-05	7.30E-05	ug/L	2	6
WD-MW04B	Potassium	9.50E+00	1.40E+01	mg/L	36	36
WD-MW04B	Selenium	8.60E-04	1.10E-03	mg/L	3	36
WD-MW04B	Silver	3.60E-05	3.90E-03	mg/L	11	36
WD-MW04B	Sodium	3.60E+02	5.70E+02	mg/L	36	36
WD-MW04B	Strontium	9.30E-01	1.10E+00	mg/L	12	12
WD-MW04B	Sulfate	1.10E+00	4.20E+01	mg/L	18	18
WD-MW04B	Thallium	3.60E-05	3.20E-04	mg/L	29	36
WD-MW04B	Thorium-228	2.16E-02	3.44E-02	pCi/L	3	6
WD-MW04B	Titanium	1.60E-03	2.10E-02	mg/L	9	12
WD-MW04B	Toluene	1.70E-01	1.10E+00	ug/L	6	18
WD-MW04B	Total Xylene	2.00E-01	2.00E-01	ug/L	1	6
WD-MW04B	Uranium	1.50E-03	6.60E-03	mg/L	36	36
WD-MW04B	Uranium-233/234	8.12E-01	5.51E+00	pCi/L	18	18
WD-MW04B	Uranium-235	6.87E-02	1.13E-01	pCi/L	3	12
WD-MW04B	Uranium-235/236	1.83E-02	1.83E-02	pCi/L	1	6
WD-MW04B	Uranium-238	3.57E-01	2.56E+00	pCi/L	18	18
WD-MW04B	Vanadium	1.40E-03	1.90E-02	mg/L	33	36
WD-MW04B	Zinc	2.10E-03	1.40E-02	mg/L	12	36
WD-MW05B	1,2-Dimethylbenzene	3.30E-01	1.60E+00	ug/L	7	10
WD-MW05B	2-Butanone	8.40E+00	8.40E+00	ug/L	1	10
WD-MW05B	4-Methylphenol	3.30E-01	3.30E-01	ug/L	1	6
WD-MW05B	Acetone	7.80E+00	9.80E+01	ug/L	5	10
WD-MW05B	Aluminum	2.00E-02	1.20E-01	mg/L	4	20
WD-MW05B	Americium-241	5.92E-02	8.45E-02	pCi/L	2	10
WD-MW05B	Ammonium Nitrogen	1.80E+00	2.30E+00	mg/L	10	10
WD-MW05B	Antimony	4.00E-04	2.90E-03	mg/L	7	20

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW05B	Arsenic	1.20E-03	4.00E-03	mg/L	20	20
WD-MW05B	Barium	6.00E-02	1.50E-01	mg/L	20	20
WD-MW05B	Benzene	6.10E-01	5.40E+00	ug/L	9	10
WD-MW05B	Bis(2-ethylhexyl)phthalate	1.10E+00	3.10E+00	ug/L	5	10
WD-MW05B	Cadmium	6.40E-05	1.20E-04	mg/L	3	20
WD-MW05B	Calcium	4.00E+01	9.60E+01	mg/L	20	20
WD-MW05B	Chloride	1.00E+02	1.60E+02	mg/L	10	10
WD-MW05B	Chromium	6.60E-04	1.90E-03	mg/L	5	20
WD-MW05B	Chromium, hexavalent	4.20E-03	7.60E-03	mg/L	3	8
WD-MW05B	Cobalt	9.30E-05	3.40E-03	mg/L	9	20
WD-MW05B	Copper	6.10E-04	3.70E-03	mg/L	10	20
WD-MW05B	Cyanide	5.00E-03	5.00E-03	mg/L	1	4
WD-MW05B	Ethylbenzene	1.80E-01	5.00E-01	ug/L	7	10
WD-MW05B	Fluoride	2.20E-01	3.10E-01	mg/L	10	10
WD-MW05B	Iron	5.60E-01	1.20E+00	mg/L	20	20
WD-MW05B	Lead	5.20E-04	1.10E-03	mg/L	2	20
WD-MW05B	Lithium	3.30E-02	4.20E-02	mg/L	8	8
WD-MW05B	M + P Xylene	3.40E-01	2.40E+00	ug/L	8	9
WD-MW05B	Magnesium	1.90E+01	4.80E+01	mg/L	20	20
WD-MW05B	Manganese	1.60E-01	3.40E-01	mg/L	20	20
WD-MW05B	Methylene chloride	3.70E-01	5.40E-01	ug/L	4	10
WD-MW05B	Molybdenum	2.70E-02	8.70E-02	mg/L	12	12
WD-MW05B	Nickel	9.60E-04	4.60E-03	mg/L	14	20
WD-MW05B	Octachloro-dibenzo[b,e][1,4]dioxin	8.91E-05	8.91E-05	ug/L	1	4
WD-MW05B	PCB-1242	2.10E-01	2.10E-01	ug/L	1	10
WD-MW05B	PCB-1254	1.61E-01	1.61E-01	ug/L	1	10
WD-MW05B	Polychlorinated biphenyl	3.71E-01	3.71E-01	ug/L	1	10
WD-MW05B	Potassium	8.30E+00	1.80E+01	mg/L	20	20
WD-MW05B	Selenium	7.20E-04	8.60E-04	mg/L	2	20
WD-MW05B	Silver	3.90E-05	5.80E-03	mg/L	7	20
WD-MW05B	Sodium	1.20E+02	1.60E+02	mg/L	20	20
WD-MW05B	Strontium	1.20E+00	1.60E+00	mg/L	8	8

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW05B	Sulfate	1.60E+01	3.20E+02	mg/L	10	10
WD-MW05B	Thallium	5.70E-05	5.70E-05	mg/L	1	20
WD-MW05B	Thorium-228	8.98E-02	8.98E-02	pCi/L	1	4
WD-MW05B	Thorium-230	3.99E-02	3.99E-02	pCi/L	1	4
WD-MW05B	Thorium-232	1.64E-02	1.64E-02	pCi/L	1	4
WD-MW05B	Titanium	6.00E-04	2.20E-03	mg/L	3	8
WD-MW05B	Toluene	3.20E-01	5.80E+00	ug/L	4	10
WD-MW05B	Total Xylene	3.40E-01	2.10E+00	ug/L	2	4
WD-MW05B	Uranium	6.90E-04	2.00E-03	mg/L	20	20
WD-MW05B	Uranium-233/234	5.97E-01	1.58E+00	pCi/L	10	10
WD-MW05B	Uranium-235/236	5.06E-02	5.06E-02	pCi/L	1	4
WD-MW05B	Uranium-238	2.64E-01	7.37E-01	pCi/L	9	10
WD-MW05B	Vanadium	1.30E-03	1.30E-03	mg/L	1	20
WD-MW05B	Zinc	4.60E-03	1.20E-02	mg/L	3	20
WD-MW06B	1,2-Dimethylbenzene	1.90E-01	3.30E-01	ug/L	2	10
WD-MW06B	2-Butanone	9.10E+00	1.20E+01	ug/L	2	10
WD-MW06B	Acetone	3.30E+01	4.40E+01	ug/L	2	10
WD-MW06B	Aluminum	8.30E-02	4.10E+00	mg/L	20	20
WD-MW06B	Ammonium Nitrogen	2.10E+00	2.60E+00	mg/L	7	9
WD-MW06B	Antimony	3.40E-03	1.40E-02	mg/L	19	20
WD-MW06B	Arsenic	1.70E-02	4.00E-02	mg/L	20	20
WD-MW06B	Barium	3.80E-02	9.20E-02	mg/L	20	20
WD-MW06B	Benzene	2.00E+00	9.10E+00	ug/L	6	10
WD-MW06B	Beryllium	8.10E-05	1.60E-04	mg/L	5	20
WD-MW06B	Bis(2-ethylhexyl)phthalate	2.50E+00	3.30E+00	ug/L	4	10
WD-MW06B	Cadmium	4.20E-05	3.10E-04	mg/L	11	20
WD-MW06B	Calcium	1.80E+01	2.30E+01	mg/L	20	20
WD-MW06B	Chloride	3.80E+02	6.70E+02	mg/L	10	10
WD-MW06B	Chromium	2.40E-03	1.10E-02	mg/L	12	20
WD-MW06B	Chromium, hexavalent	4.20E-03	3.90E-02	mg/L	3	8
WD-MW06B	Cobalt	7.50E-04	5.90E-03	mg/L	14	20
WD-MW06B	Copper	8.20E-04	8.10E-03	mg/L	17	20

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW06B	Cyanide	2.40E-03	3.90E-03	mg/L	3	4
WD-MW06B	Di-n-butyl phthalate	2.20E+00	2.20E+00	ug/L	1	10
WD-MW06B	Ethylbenzene	1.60E-01	4.00E-01	ug/L	3	10
WD-MW06B	Fluoride	5.30E-01	9.40E-01	mg/L	10	10
WD-MW06B	Iron	9.40E-02	6.80E+00	mg/L	20	20
WD-MW06B	Lead	6.40E-04	3.40E-03	mg/L	12	20
WD-MW06B	Lithium	4.40E-02	6.30E-02	mg/L	8	8
WD-MW06B	M + P Xylene	7.50E-01	1.20E+00	ug/L	2	9
WD-MW06B	Magnesium	6.40E+00	8.90E+00	mg/L	20	20
WD-MW06B	Manganese	3.90E-02	1.10E-01	mg/L	20	20
WD-MW06B	Mercury	3.00E-05	3.30E-05	mg/L	2	20
WD-MW06B	Methylene chloride	6.70E-01	1.40E+00	ug/L	3	10
WD-MW06B	Molybdenum	5.10E-02	1.90E-01	mg/L	12	12
WD-MW06B	Nickel	1.50E-03	1.90E-02	mg/L	20	20
WD-MW06B	Octachloro-dibenzo[b,e][1,4]dioxin	7.51E-05	1.18E-04	ug/L	2	4
WD-MW06B	Potassium	1.00E+01	1.60E+01	mg/L	20	20
WD-MW06B	Selenium	9.50E-04	9.50E-04	mg/L	1	20
WD-MW06B	Silver	1.20E-04	6.40E-03	mg/L	6	20
WD-MW06B	Sodium	3.20E+02	5.80E+02	mg/L	20	20
WD-MW06B	Strontium	6.50E-01	8.20E-01	mg/L	8	8
WD-MW06B	Sulfate	6.50E+00	3.90E+01	mg/L	10	10
WD-MW06B	Thallium	4.90E-05	1.60E-04	mg/L	10	20
WD-MW06B	Thorium-228	9.35E-02	2.74E-01	pCi/L	3	4
WD-MW06B	Thorium-230	1.23E-01	2.62E-01	pCi/L	3	4
WD-MW06B	Thorium-232	5.70E-02	1.88E-01	pCi/L	3	4
WD-MW06B	Titanium	4.90E-03	1.10E-01	mg/L	8	8
WD-MW06B	Toluene	4.60E-01	1.10E+00	ug/L	2	10
WD-MW06B	Uranium	3.20E-03	6.20E-03	mg/L	20	20
WD-MW06B	Uranium-233/234	3.52E+00	5.19E+00	pCi/L	10	10
WD-MW06B	Uranium-235	7.88E-02	1.34E-01	pCi/L	3	6
WD-MW06B	Uranium-235/236	6.06E-02	0.1.17	pCi/L	2	4
WD-MW06B	Uranium-238	1.19E+00	2.40E+00	pCi/L	10	10

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW06B	Vanadium	5.90E-04	1.90E-02	mg/L	18	20
WD-MW06B	Zinc	5.00E-03	2.00E-02	mg/L	13	20
WD-MW07B	Acetone	7.30E+00	7.30E+00	ug/L	1	5
WD-MW07B	Aluminum	2.70E-02	0.1.2	mg/L	7	10
WD-MW07B	Ammonium Nitrogen	2.50E+00	6.90E+00	mg/L	5	5
WD-MW07B	Antimony	4.50E-04	3.00E-03	mg/L	9	10
WD-MW07B	Arsenic	2.20E-03	7.10E-03	mg/L	10	10
WD-MW07B	Barium	7.00E-02	2.00E-01	mg/L	10	10
WD-MW07B	Benzene	5.30E-01	5.30E-01	ug/L	1	5
WD-MW07B	Cadmium	1.00E-04	1.60E-04	mg/L	2	10
WD-MW07B	Calcium	4.10E+01	1.40E+02	mg/L	10	10
WD-MW07B	Chloride	5.10E+01	1.80E+02	mg/L	5	5
WD-MW07B	Chromium	5.40E-04	1.20E-03	mg/L	4	10
WD-MW07B	Chromium, hexavalent	5.10E-03	1.60E-02	mg/L	4	10
WD-MW07B	Cobalt	1.70E-04	9.90E-04	mg/L	10	10
WD-MW07B	Copper	6.50E-04	1.70E-03	mg/L	5	10
WD-MW07B	Cyanide	3.70E-03	5.80E-03	mg/L	4	5
WD-MW07B	Fluoride	2.60E-01	4.90E-01	mg/L	5	5
WD-MW07B	Iron	3.50E-02	1.60E+00	mg/L	10	10
WD-MW07B	Lead	2.90E-04	6.50E-04	mg/L	4	10
WD-MW07B	Lithium	4.30E-02	1.50E-01	mg/L	10	10
WD-MW07B	Magnesium	1.90E+01	6.30E+01	mg/L	10	10
WD-MW07B	Manganese	5.10E-02	9.60E-02	mg/L	10	10
WD-MW07B	Nickel	5.90E-03	2.00E-02	mg/L	10	10
WD-MW07B	Nitrate	5.30E-02	5.40E-02	mg/L	2	5
WD-MW07B	Octachloro-dibenzo[b,e][1,4]dioxin	7.14E-05	7.14E-05	ug/L	1	5
WD-MW07B	Potassium	1.50E+01	2.20E+01	mg/L	10	10
WD-MW07B	Selenium	7.00E-04	1.10E-03	mg/L	3	10
WD-MW07B	Silver	7.50E-05	6.90E-04	mg/L	3	10
WD-MW07B	Sodium	2.40E+02	6.10E+02	mg/L	10	10
WD-MW07B	Strontium	1.50E+00	5.80E+00	mg/L	10	10
WD-MW07B	Sulfate	9.30E+01	1.00E+03	mg/L	5	5

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-MW07B	Thallium	1.00E-04	4.90E-04	mg/L	2	10
WD-MW07B	Thorium-228	4.27E-02	4.27E-02	pCi/L	1	5
WD-MW07B	Thorium-232	9.78E-03	9.78E-03	pCi/L	1	5
WD-MW07B	Titanium	8.30E-04	3.70E-03	mg/L	6	10
WD-MW07B	Uranium	3.70E-03	1.20E-02	mg/L	10	10
WD-MW07B	Uranium-233/234	4.19E+00	1.44E+01	pCi/L	5	5
WD-MW07B	Uranium-235/236	5.44E-02	1.78E-01	pCi/L	4	5
WD-MW07B	Uranium-238	1.18E+00	4.03E+00	pCi/L	5	5
WD-MW07B	Vanadium	1.40E-03	2.90E-03	mg/L	8	10
WD-PZ01G	Acetone	1.00E+02	1.00E+02	ug/L	1	9
WD-PZ01G	Aluminum	9.40E-02	1.00E+01	mg/L	9	18
WD-PZ01G	Ammonium Nitrogen	4.20E-01	5.40E-01	mg/L	9	9
WD-PZ01G	Antimony	4.20E-04	4.20E-04	mg/L	1	18
WD-PZ01G	Arsenic	8.50E-04	1.50E-02	mg/L	16	18
WD-PZ01G	Barium	5.70E-02	1.10E-01	mg/L	18	18
WD-PZ01G	Beryllium	2.30E-04	7.10E-04	mg/L	4	18
WD-PZ01G	Bis(2-ethylhexyl)phthalate	7.00E-01	2.80E+00	ug/L	2	9
WD-PZ01G	Cadmium	8.60E-05	5.20E-04	mg/L	8	18
WD-PZ01G	Calcium	1.50E+02	1.80E+02	mg/L	19	19
WD-PZ01G	Chloride	6.40E+00	1.20E+01	mg/L	10	10
WD-PZ01G	Chromium	9.30E-04	2.00E-02	mg/L	10	18
WD-PZ01G	Chromium, hexavalent	4.10E-03	1.40E-02	mg/L	6	7
WD-PZ01G	Cobalt	8.50E-05	1.30E-02	mg/L	13	18
WD-PZ01G	Copper	6.20E-04	2.30E-02	mg/L	10	18
WD-PZ01G	Cyanide	2.60E-03	3.40E-03	mg/L	2	3
WD-PZ01G	Dimethyl phthalate	4.50E+00	4.50E+00	ug/L	1	9
WD-PZ01G	Di-n-butyl phthalate	6.53E+00	6.53E+00	ug/L	1	9
WD-PZ01G	Fluoride	6.00E-02	6.00E-02	mg/L	2	10
WD-PZ01G	Iron	1.80E+01	6.00E+01	mg/L	18	18
WD-PZ01G	Lead	1.80E-04	1.60E-02	mg/L	9	18
WD-PZ01G	Lithium	1.30E-02	2.30E-02	mg/L	6	6
WD-PZ01G	Magnesium	6.40E+01	7.50E+01	mg/L	19	19

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ01G	Manganese	1.10E-01	4.80E-01	mg/L	18	18
WD-PZ01G	Methylene chloride	4.10E-01	8.70E-01	ug/L	3	9
WD-PZ01G	Molybdenum	1.50E-03	8.60E-03	mg/L	12	12
WD-PZ01G	Nickel	6.60E-04	3.20E-02	mg/L	11	18
WD-PZ01G	Nitrate	4.20E-02	4.70E-02	mg/L	2	10
WD-PZ01G	Octachlorodibenzofuran	4.62E-05	4.62E-05	ug/L	1	3
WD-PZ01G	Potassium	3.20E+00	6.00E+00	mg/L	19	19
WD-PZ01G	Selenium	8.90E-04	8.90E-04	mg/L	2	18
WD-PZ01G	Silver	4.70E-05	8.50E-04	mg/L	3	18
WD-PZ01G	Sodium	1.20E+01	1.60E+01	mg/L	19	19
WD-PZ01G	Strontium	1.40E+00	1.50E+00	mg/L	6	6
WD-PZ01G	Sulfate	4.70E+02	6.20E+02	mg/L	10	10
WD-PZ01G	Thallium	4.90E-05	3.00E-04	mg/L	9	18
WD-PZ01G	Thorium-228	1.79E-01	1.79E-01	pCi/L	1	3
WD-PZ01G	Thorium-230	1.83E-01	1.83E-01	pCi/L	1	3
WD-PZ01G	Thorium-232	1.15E-01	1.15E-01	pCi/L	1	3
WD-PZ01G	Titanium	1.10E-03	1.20E-01	mg/L	4	6
WD-PZ01G	Trichloroethene	1.80E-01	1.80E-01	ug/L	1	9
WD-PZ01G	Uranium	9.10E-05	1.80E-03	mg/L	16	18
WD-PZ01G	Uranium-233/234	2.81E-01	1.22E+01	pCi/L	7	9
WD-PZ01G	Uranium-235	8.15E-02	2.10E-01	pCi/L	2	6
WD-PZ01G	Uranium-238	3.93E-02	5.61E+00	pCi/L	9	9
WD-PZ01G	Vanadium	1.20E-03	4.10E-02	mg/L	10	18
WD-PZ01G	Zinc	4.90E-03	8.80E-02	mg/L	9	18
WD-PZ02G	Acetone	5.80E+00	5.80E+00	ug/L	1	9
WD-PZ02G	Aluminum	2.90E-02	8.80E+00	mg/L	11	18
WD-PZ02G	Americium-241	0.00E+00	0.00E+00	pCi/L	1	9
WD-PZ02G	Ammonium Nitrogen	5.60E-01	6.90E-01	mg/L	9	9
WD-PZ02G	Antimony	4.30E-04	5.70E-04	mg/L	3	18
WD-PZ02G	Arsenic	3.20E-03	1.70E-02	mg/L	18	18
WD-PZ02G	Barium	4.00E-02	9.70E-02	mg/L	18	18
WD-PZ02G	Benzoic acid	1.90E+01	2.30E+01	ug/L	2	9

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ02G	Beryllium	2.40E-04	7.40E-04	mg/L	2	18
WD-PZ02G	Bis(2-ethylhexyl)phthalate	2.60E+00	2.90E+00	ug/L	3	9
WD-PZ02G	Cadmium	4.30E-05	6.50E-04	mg/L	4	18
WD-PZ02G	Calcium	1.90E+02	2.20E+02	mg/L	19	19
WD-PZ02G	Chloride	1.60E+01	3.00E+01	mg/L	10	10
WD-PZ02G	Chromium	9.20E-04	2.20E-02	mg/L	9	18
WD-PZ02G	Chromium, hexavalent	4.10E-03	1.70E-02	mg/L	6	7
WD-PZ02G	Cobalt	8.50E-04	1.40E-02	mg/L	11	18
WD-PZ02G	Copper	7.80E-04	2.60E-02	mg/L	11	18
WD-PZ02G	Cyanide	2.90E-03	2.90E-03	mg/L	1	3
WD-PZ02G	Di-n-butyl phthalate	3.66E+00	3.66E+00	ug/L	1	9
WD-PZ02G	Fluoride	6.60E-02	8.20E-02	mg/L	5	10
WD-PZ02G	Iron	2.10E+01	5.70E+01	mg/L	18	18
WD-PZ02G	Lead	2.00E-04	1.70E-02	mg/L	9	18
WD-PZ02G	Lithium	1.50E-02	2.90E-02	mg/L	6	6
WD-PZ02G	Magnesium	1.00E+02	1.30E+02	mg/L	19	19
WD-PZ02G	Manganese	5.70E-01	1.00E+00	mg/L	18	18
WD-PZ02G	Methylene chloride	3.20E-01	7.20E-01	ug/L	4	9
WD-PZ02G	Molybdenum	1.10E-03	1.60E-02	mg/L	12	12
WD-PZ02G	Nickel	8.00E-04	3.70E-02	mg/L	11	18
WD-PZ02G	Nitrate	4.80E-02	4.80E-02	mg/L	1	10
WD-PZ02G	Potassium	4.60E+00	6.80E+00	mg/L	19	19
WD-PZ02G	Selenium	9.50E-04	1.30E-03	mg/L	2	18
WD-PZ02G	Silver	4.50E-05	2.10E-03	mg/L	3	18
WD-PZ02G	Sodium	3.60E+01	5.90E+01	mg/L	19	19
WD-PZ02G	Strontium	1.50E+00	1.80E+00	mg/L	6	6
WD-PZ02G	Sulfate	7.00E+02	9.00E+02	mg/L	10	10
WD-PZ02G	Technetium-99	1.82E+00	1.82E+00	pCi/L	1	9
WD-PZ02G	Thallium	3.80E-05	6.90E-04	mg/L	11	18
WD-PZ02G	Thorium-228	3.21E-01	3.21E-01	pCi/L	1	3
WD-PZ02G	Thorium-230	6.58E-02	1.65E-01	pCi/L	2	3
WD-PZ02G	Thorium-232	8.68E-02	8.68E-02	pCi/L	1	3

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ02G	Titanium	1.20E-03	1.90E-01	mg/L	3	6
WD-PZ02G	Uranium	1.50E-04	2.30E-03	mg/L	18	18
WD-PZ02G	Uranium-233/234	9.05E-02	8.00E-01	pCi/L	9	9
WD-PZ02G	Uranium-235/236	2.51E-02	2.51E-02	pCi/L	1	3
WD-PZ02G	Uranium-238	6.84E-02	8.06E-01	pCi/L	9	9
WD-PZ02G	Vanadium	7.30E-04	4.30E-02	mg/L	13	18
WD-PZ02G	Zinc	2.00E-03	1.10E-01	mg/L	9	18
WD-PZ03G	Aluminum	1.90E-02	5.70E-01	mg/L	13	32
WD-PZ03G	Ammonium Nitrogen	1.20E-01	6.00E-01	mg/L	9	16
WD-PZ03G	Arsenic	1.00E-02	3.20E-02	mg/L	32	32
WD-PZ03G	Barium	2.20E-02	2.90E-02	mg/L	32	32
WD-PZ03G	Bis(2-ethylhexyl)phthalate	9.80E-01	2.60E+00	ug/L	4	16
WD-PZ03G	Cadmium	4.20E-05	1.90E-04	mg/L	5	32
WD-PZ03G	Calcium	8.50E+01	9.80E+01	mg/L	33	33
WD-PZ03G	Chloride	5.20E+00	7.20E+00	mg/L	17	17
WD-PZ03G	Chromium	6.40E-04	1.20E-03	mg/L	12	32
WD-PZ03G	Chromium, hexavalent	4.60E-03	1.20E-02	mg/L	4	10
WD-PZ03G	Cobalt	6.10E-05	7.20E-04	mg/L	8	32
WD-PZ03G	Copper	8.00E-04	6.20E-03	mg/L	12	32
WD-PZ03G	Cyanide	2.50E-03	7.20E-03	mg/L	4	4
WD-PZ03G	Fluoride	1.40E-01	1.40E-01	mg/L	1	17
WD-PZ03G	Iron	3.10E+01	5.30E+01	mg/L	32	32
WD-PZ03G	Lead	2.00E-04	8.20E-04	mg/L	13	32
WD-PZ03G	Lithium	3.00E-02	3.80E-02	mg/L	8	8
WD-PZ03G	Magnesium	5.20E+01	6.20E+01	mg/L	33	33
WD-PZ03G	Manganese	8.00E-01	9.80E-01	mg/L	32	32
WD-PZ03G	Methylene chloride	3.90E-01	8.90E-01	ug/L	6	16
WD-PZ03G	Molybdenum	2.20E-03	3.20E-03	mg/L	24	24
WD-PZ03G	Nickel	4.10E-04	2.30E-03	mg/L	10	32
WD-PZ03G	Nitrate	4.30E-02	5.60E-02	mg/L	2	17
WD-PZ03G	Octachloro-dibenzo[b,e][1,4]dioxin	6.34E-05	6.34E-05	ug/L	1	4
WD-PZ03G	Plutonium-239/240	6.19E-02	6.19E-02	pCi/L	1	16

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ03G	Potassium	1.90E+00	2.40E+00	mg/L	33	33
WD-PZ03G	Selenium	7.00E-04	7.00E-04	mg/L	1	32
WD-PZ03G	Silver	7.90E-05	1.50E-03	mg/L	5	32
WD-PZ03G	Sodium	3.70E+01	4.70E+01	mg/L	33	33
WD-PZ03G	Strontium	3.50E-01	3.70E-01	mg/L	8	8
WD-PZ03G	Sulfate	4.30E+02	5.20E+02	mg/L	17	17
WD-PZ03G	Thallium	3.80E-05	1.50E-04	mg/L	5	32
WD-PZ03G	Thorium-228	3.34E-02	3.34E-02	pCi/L	1	4
WD-PZ03G	Thorium-230	2.40E-01	2.40E-01	pCi/L	1	4
WD-PZ03G	Titanium	6.20E-04	1.40E-02	mg/L	3	8
WD-PZ03G	Uranium	2.00E-05	9.60E-05	mg/L	14	32
WD-PZ03G	Uranium-233/234	5.62E-02	6.19E-02	pCi/L	2	16
WD-PZ03G	Uranium-238	6.06E-02	6.06E-02	pCi/L	1	16
WD-PZ03G	Vanadium	1.00E-03	2.70E-03	mg/L	11	32
WD-PZ03G	Zinc	2.20E-03	7.20E-03	mg/L	11	32
WD-PZ04C	1,2-Dimethylbenzene	4.60E-01	1.30E+00	ug/L	5	5
WD-PZ04C	2-Butanone	6.30E+00	9.20E+00	ug/L	2	5
WD-PZ04C	2-Methylnaphthalene	6.20E-01	7.80E-01	ug/L	2	5
WD-PZ04C	4-Methylphenol	4.20E-01	4.20E-01	ug/L	1	2
WD-PZ04C	Acetone	7.10E+00	3.40E+01	ug/L	4	5
WD-PZ04C	Aluminum	2.10E-01	7.30E+01	mg/L	9	9
WD-PZ04C	Ammonium Nitrogen	3.60E-01	8.10E+00	mg/L	4	5
WD-PZ04C	Antimony	1.20E-02	3.00E-02	mg/L	9	9
WD-PZ04C	Arsenic	5.10E-02	1.90E-01	mg/L	9	9
WD-PZ04C	Barium	7.90E-03	9.90E-01	mg/L	9	9
WD-PZ04C	Benzene	3.90E+00	1.40E+01	ug/L	5	5
WD-PZ04C	Beryllium	7.20E-04	5.20E-03	mg/L	4	9
WD-PZ04C	Bis(2-ethylhexyl)phthalate	1.80E+00	1.80E+00	ug/L	1	5
WD-PZ04C	Cadmium	1.10E-04	1.50E-02	mg/L	8	9
WD-PZ04C	Calcium	2.40E+00	1.40E+02	mg/L	9	9
WD-PZ04C	Carbon disulfide	2.20E+00	2.20E+00	ug/L	1	5
WD-PZ04C	Chloride	2.80E+01	4.10E+01	mg/L	5	5

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ04C	Chromium	6.60E-04	1.30E-01	mg/L	9	9
WD-PZ04C	Chromium, hexavalent	4.30E-03	9.00E-01	mg/L	5	6
WD-PZ04C	Cobalt	6.10E-04	1.10E-01	mg/L	9	9
WD-PZ04C	Copper	4.40E-02	6.30E-01	mg/L	9	9
WD-PZ04C	Cyanide	2.30E-03	1.20E-02	mg/L	2	3
WD-PZ04C	Ethylbenzene	1.90E-01	4.50E-01	ug/L	5	5
WD-PZ04C	Fluoride	8.00E-01	2.10E+00	mg/L	5	5
WD-PZ04C	Iron	1.90E-01	2.90E+02	mg/L	9	9
WD-PZ04C	Lead	4.70E-04	6.90E-02	mg/L	8	9
WD-PZ04C	Lithium	5.30E-03	1.40E-01	mg/L	5	5
WD-PZ04C	M + P Xylene	4.40E-01	1.90E+00	ug/L	4	4
WD-PZ04C	m,p-Xylenes	5.90E-01	5.90E-01	ug/L	1	1
WD-PZ04C	Magnesium	9.00E-02	5.70E+01	mg/L	9	9
WD-PZ04C	Manganese	3.40E-03	5.10E+00	mg/L	9	9
WD-PZ04C	Mercury	2.90E-05	3.30E-04	mg/L	6	9
WD-PZ04C	Methylene chloride	4.40E-01	9.30E-01	ug/L	3	5
WD-PZ04C	Molybdenum	4.10E-01	5.60E-01	mg/L	4	4
WD-PZ04C	Naphthalene	4.90E-01	4.90E-01	ug/L	1	5
WD-PZ04C	Nickel	5.10E-03	5.10E-01	mg/L	9	9
WD-PZ04C	Nitrate	5.10E-02	5.70E-02	mg/L	3	5
WD-PZ04C	Octachloro-dibenzo[b,e][1,4]dioxin	1.47E-04	2.96E-04	ug/L	3	3
WD-PZ04C	Orthophosphate	2.20E-01	3.20E-01	mg/L	2	5
WD-PZ04C	Phenol	5.43E+00	1.50E+01	ug/L	3	5
WD-PZ04C	Potassium	5.30E+00	3.10E+01	mg/L	9	9
WD-PZ04C	Selenium	2.70E-03	3.40E-02	mg/L	9	9
WD-PZ04C	Silver	6.40E-05	1.20E-03	mg/L	7	9
WD-PZ04C	Sodium	1.80E+02	2.90E+02	mg/L	9	9
WD-PZ04C	Strontium	6.90E-02	5.40E-01	mg/L	5	5
WD-PZ04C	Sulfate	6.60E+01	1.40E+02	mg/L	5	5
WD-PZ04C	Thallium	1.80E-04	8.70E-03	mg/L	9	9
WD-PZ04C	Thorium-228	7.48E-02	1.57E-01	pCi/L	2	3
WD-PZ04C	Thorium-230	8.29E-02	1.91E-01	pCi/L	3	3

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ04C	Thorium-232	2.88E-02	1.09E-01	pCi/L	2	3
WD-PZ04C	Tin	7.60E-03	7.60E-03	mg/L	1	5
WD-PZ04C	Titanium	1.00E-03	1.80E-01	mg/L	5	5
WD-PZ04C	Toluene	1.30E+00	9.00E+00	ug/L	5	5
WD-PZ04C	Total Xylene	9.60E-01	1.10E+00	ug/L	3	3
WD-PZ04C	Uranium	7.60E-04	2.90E-02	mg/L	9	9
WD-PZ04C	Uranium-233/234	6.81E-01	1.33E+01	pCi/L	5	5
WD-PZ04C	Uranium-235	2.69E-01	2.69E-01	pCi/L	1	2
WD-PZ04C	Uranium-235/236	1.19E-01	3.59E-01	pCi/L	2	3
WD-PZ04C	Uranium-238	3.71E-01	8.20E+00	pCi/L	5	5
WD-PZ04C	Vanadium	2.60E-02	3.60E-01	mg/L	9	9
WD-PZ04C	Zinc	3.70E-03	2.20E+00	mg/L	8	9
WD-PZ05C	1,2-Dimethylbenzene	2.20E-01	2.20E-01	ug/L	1	3
WD-PZ05C	Benzene	6.70E-01	2.10E+00	ug/L	3	3
WD-PZ05C	Chloride	4.80E+01	4.80E+01	mg/L	1	1
WD-PZ05C	Fluoride	2.60E-01	2.60E-01	mg/L	1	1
WD-PZ05C	gamma-Chlordane	9.13E-03	9.13E-03	ug/L	1	4
WD-PZ05C	Nitrate	6.20E-02	6.20E-02	mg/L	1	1
WD-PZ05C	Octachloro-dibenzo[b,e][1,4]dioxin	4.31E-04	4.31E-04	ug/L	1	1
WD-PZ05C	Sulfate	8.10E+02	8.10E+02	mg/L	1	1
WD-PZ05C	Total Xylene	2.00E-01	2.20E-01	ug/L	2	3
WD-PZ06C	Acetone	2.10E+00	2.10E+00	ug/L	1	2
WD-PZ06C	Benzene	2.10E+00	2.80E+00	ug/L	2	2
WD-PZ06C	Methylene chloride	3.70E-01	3.70E-01	ug/L	1	2
WD-PZ07C	1,2-Dimethylbenzene	2.00E-01	2.00E-01	ug/L	1	2
WD-PZ07C	Benzene	2.50E+00	2.50E+00	ug/L	1	2
WD-PZ07C	Total Xylene	2.00E-01	2.00E-01	ug/L	1	2
WD-PZ08C	Acetone	7.30E+01	7.30E+01	ug/L	1	5
WD-PZ08C	Aluminum	3.10E+01	1.90E+02	mg/L	6	8
WD-PZ08C	Ammonium Nitrogen	1.20E-01	1.10E+00	mg/L	5	5
WD-PZ08C	Antimony	2.60E-03	3.40E-03	mg/L	3	8
WD-PZ08C	Arsenic	2.60E-03	3.20E-01	mg/L	8	8

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ08C	Barium	1.50E-02	7.20E-01	mg/L	8	8
WD-PZ08C	Beryllium	1.80E-03	1.30E-02	mg/L	6	8
WD-PZ08C	Beta activity	5.75E+01	5.75E+01	pCi/L	1	2
WD-PZ08C	Bis(2-ethylhexyl)phthalate	2.60E+00	2.90E+00	ug/L	2	5
WD-PZ08C	Bromodichloromethane	6.50E-01	1.10E+00	ug/L	2	5
WD-PZ08C	Cadmium	2.20E-04	1.50E-03	mg/L	3	8
WD-PZ08C	Calcium	9.00E+01	2.70E+02	mg/L	8	8
WD-PZ08C	Chloride	4.80E+01	5.70E+01	mg/L	5	5
WD-PZ08C	Chloroform	1.10E+00	2.10E+00	ug/L	2	5
WD-PZ08C	Chromium	3.90E-02	3.30E-01	mg/L	6	8
WD-PZ08C	Chromium, hexavalent	6.90E-03	2.60E-01	mg/L	3	6
WD-PZ08C	Chromium, trivalent	3.40E-02	3.30E-01	mg/L	2	4
WD-PZ08C	Cobalt	2.80E-02	3.50E-01	mg/L	8	8
WD-PZ08C	Copper	2.70E-03	5.40E-01	mg/L	8	8
WD-PZ08C	Cyanide	2.50E-03	2.50E-03	mg/L	1	3
WD-PZ08C	Dibromochloromethane	5.30E-01	7.80E-01	ug/L	2	5
WD-PZ08C	Fluoride	1.70E-01	4.20E-01	mg/L	5	5
WD-PZ08C	gamma-Chlordane	9.41E-03	9.41E-03	ug/L	1	4
WD-PZ08C	Iron	3.20E-02	4.50E+02	mg/L	7	8
WD-PZ08C	Lead	4.30E-02	2.80E-01	mg/L	6	8
WD-PZ08C	Lithium	3.70E-01	1.20E+00	mg/L	4	4
WD-PZ08C	Magnesium	4.00E+02	6.20E+02	mg/L	8	8
WD-PZ08C	Manganese	1.40E-01	5.20E+00	mg/L	8	8
WD-PZ08C	Mercury	5.40E-05	2.50E-04	mg/L	5	8
WD-PZ08C	Methylene chloride	4.50E-01	6.40E-01	ug/L	2	5
WD-PZ08C	Molybdenum	9.30E-03	2.50E-02	mg/L	4	4
WD-PZ08C	Nickel	7.80E-02	7.10E-01	mg/L	8	8
WD-PZ08C	Nitrate	3.00E-01	4.20E+00	mg/L	5	5
WD-PZ08C	Nitrite as Nitrogen	5.60E-01	9.30E-01	mg/L	2	3
WD-PZ08C	Octachloro-dibenzo[b,e][1,4]dioxin	7.68E-05	7.68E-05	ug/L	1	3
WD-PZ08C	Potassium	1.90E+01	4.80E+01	mg/L	8	8
WD-PZ08C	Selenium	3.50E-03	1.80E-02	mg/L	8	8

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ08C	Silver	7.70E-05	5.30E-04	mg/L	4	8
WD-PZ08C	Sodium	1.00E+02	2.70E+02	mg/L	8	8
WD-PZ08C	Strontium	5.40E+00	7.60E+00	mg/L	4	4
WD-PZ08C	Sulfate	1.30E+03	2.80E+03	mg/L	5	5
WD-PZ08C	Thallium	4.60E-05	1.30E-03	mg/L	7	8
WD-PZ08C	Thorium-228	2.29E-02	8.46E+00	pCi/L	2	3
WD-PZ08C	Thorium-230	3.25E-02	4.52E+00	pCi/L	2	3
WD-PZ08C	Thorium-232	8.98E-03	6.38E+00	pCi/L	2	3
WD-PZ08C	Tin	6.60E-03	6.60E-03	mg/L	1	4
WD-PZ08C	Titanium	2.00E-01	5.10E-01	mg/L	4	4
WD-PZ08C	Uranium	8.20E-03	2.40E-02	mg/L	8	8
WD-PZ08C	Uranium-233/234	8.33E+00	1.64E+01	pCi/L	5	5
WD-PZ08C	Uranium-235	1.48E-01	1.56E-01	pCi/L	2	2
WD-PZ08C	Uranium-235/236	1.57E-01	3.64E-01	pCi/L	3	3
WD-PZ08C	Uranium-238	2.99E+00	5.56E+00	pCi/L	5	5
WD-PZ08C	Vanadium	2.30E-03	3.80E-01	mg/L	8	8
WD-PZ08C	Zinc	7.40E-03	1.20E+00	mg/L	8	8
WD-PZ09C	1,2-Dimethylbenzene	2.10E-01	7.40E-01	ug/L	5	9
WD-PZ09C	Acetone	2.80E+00	1.10E+02	ug/L	5	9
WD-PZ09C	Aluminum	1.10E-01	1.70E+00	mg/L	10	18
WD-PZ09C	Ammonium Nitrogen	2.70E+00	3.80E+00	mg/L	8	9
WD-PZ09C	Antimony	5.60E-04	3.10E-03	mg/L	6	18
WD-PZ09C	Arsenic	3.40E-04	6.50E-03	mg/L	17	18
WD-PZ09C	Barium	4.10E-02	1.40E-01	mg/L	18	18
WD-PZ09C	Benzene	6.20E-01	5.90E+00	ug/L	8	9
WD-PZ09C	Beryllium	9.10E-05	9.10E-05	mg/L	1	18
WD-PZ09C	Beta activity	1.29E+01	1.29E+01	pCi/L	1	6
WD-PZ09C	Bis(2-ethylhexyl)phthalate	2.80E+00	3.20E+00	ug/L	4	9
WD-PZ09C	Bromodichloromethane	1.90E-01	1.90E-01	ug/L	1	9
WD-PZ09C	Cadmium	4.20E-05	1.70E-04	mg/L	4	18
WD-PZ09C	Calcium	1.30E+02	1.50E+02	mg/L	18	18
WD-PZ09C	Chloride	2.10E+01	3.00E+01	mg/L	9	9

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ09C	Chloroform	3.50E-01	3.50E-01	ug/L	1	9
WD-PZ09C	Chromium	5.90E-04	2.90E-03	mg/L	8	18
WD-PZ09C	Chromium, hexavalent	4.20E-03	7.00E-03	mg/L	3	6
WD-PZ09C	Cobalt	2.40E-03	2.10E-02	mg/L	18	18
WD-PZ09C	Copper	8.10E-04	7.90E-03	mg/L	16	18
WD-PZ09C	Cyanide	7.30E-03	7.30E-03	mg/L	1	3
WD-PZ09C	Dibromochloromethane	2.30E-01	2.30E-01	ug/L	1	9
WD-PZ09C	Di-n-butyl phthalate	6.31E+00	6.31E+00	ug/L	1	9
WD-PZ09C	Diphenylamine	6.33E+00	6.33E+00	ug/L	1	3
WD-PZ09C	Ethylbenzene	3.00E-01	4.00E-01	ug/L	3	9
WD-PZ09C	Fluoride	1.50E-01	5.60E-01	mg/L	9	9
WD-PZ09C	Iron	7.70E-02	7.40E+00	mg/L	18	18
WD-PZ09C	Lead	5.00E-04	4.70E-03	mg/L	10	18
WD-PZ09C	Lithium	1.10E-01	1.20E-01	mg/L	6	6
WD-PZ09C	M + P Xylene	9.60E-01	1.50E+00	ug/L	3	8
WD-PZ09C	Magnesium	9.90E+01	1.60E+02	mg/L	18	18
WD-PZ09C	Manganese	8.90E-02	2.90E-01	mg/L	18	18
WD-PZ09C	Mercury	3.00E-05	7.70E-05	mg/L	5	18
WD-PZ09C	Methylene chloride	3.40E-01	5.10E-01	ug/L	4	9
WD-PZ09C	Molybdenum	1.30E-03	6.60E-03	mg/L	12	12
WD-PZ09C	Nickel	6.30E-03	4.30E-02	mg/L	18	18
WD-PZ09C	Nitrate	6.60E-02	2.60E+00	mg/L	6	9
WD-PZ09C	Nitrite as Nitrogen	7.50E-02	7.50E-02	mg/L	1	3
WD-PZ09C	Octachlorodibenzofuran	3.46E-05	3.46E-05	ug/L	1	3
WD-PZ09C	Orthophosphate	3.40E-01	3.40E-01	mg/L	1	9
WD-PZ09C	Plutonium-239/240	6.31E-02	6.31E-02	pCi/L	1	9
WD-PZ09C	Potassium	1.60E+01	2.00E+01	mg/L	18	18
WD-PZ09C	Selenium	7.30E-04	2.90E-03	mg/L	9	18
WD-PZ09C	Sodium	2.20E+02	4.10E+02	mg/L	18	18
WD-PZ09C	Strontium	4.40E+00	5.10E+00	mg/L	6	6
WD-PZ09C	Sulfate	9.20E+02	1.10E+03	mg/L	9	9
WD-PZ09C	Thallium	3.30E-05	9.00E-04	mg/L	5	18

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ09C	Thorium-228	1.48E-01	1.48E-01	pCi/L	1	3
WD-PZ09C	Thorium-230	1.05E-01	1.05E-01	pCi/L	1	3
WD-PZ09C	Thorium-232	1.17E-01	1.17E-01	pCi/L	1	3
WD-PZ09C	Titanium	3.90E-03	4.30E-02	mg/L	4	6
WD-PZ09C	Toluene	4.90E-01	4.50E+00	ug/L	4	9
WD-PZ09C	Total Xylene	2.10E-01	2.10E-01	ug/L	1	3
WD-PZ09C	Uranium	1.70E-04	1.30E-03	mg/L	18	18
WD-PZ09C	Uranium-233/234	2.22E-01	1.81E+00	pCi/L	9	9
WD-PZ09C	Uranium-238	8.15E-02	6.00E-01	pCi/L	8	9
WD-PZ09C	Vanadium	8.20E-04	5.70E-03	mg/L	11	18
WD-PZ09C	Zinc	4.50E-03	7.30E+00	mg/L	15	18
WD-PZ10C	Bromodichloromethane	3.80E-01	3.80E-01	ug/L	1	1
WD-PZ10C	Chloroform	4.40E-01	4.40E-01	ug/L	1	1
WD-PZ10C	Dibromochloromethane	5.40E-01	5.40E-01	ug/L	1	1
WD-PZ11C	1,2-Dimethylbenzene	2.10E-01	4.50E-01	ug/L	3	9
WD-PZ11C	Acetone	2.10E+00	7.10E+01	ug/L	6	9
WD-PZ11C	Aluminum	1.20E-01	6.60E+00	mg/L	11	18
WD-PZ11C	Americium-241	6.68E-02	6.68E-02	pCi/L	1	9
WD-PZ11C	Ammonium Nitrogen	1.10E+00	5.90E+00	mg/L	8	9
WD-PZ11C	Antimony	4.10E-04	6.30E-04	mg/L	3	18
WD-PZ11C	Arsenic	1.00E-03	2.10E-02	mg/L	17	18
WD-PZ11C	Barium	3.20E-02	1.20E-01	mg/L	18	18
WD-PZ11C	Benzene	4.40E-01	1.90E+00	ug/L	9	9
WD-PZ11C	Beryllium	1.90E-04	2.90E-04	mg/L	2	18
WD-PZ11C	Beta activity	7.55E+00	7.55E+00	pCi/L	1	6
WD-PZ11C	Bis(2-ethylhexyl)phthalate	2.70E+00	3.30E+00	ug/L	4	9
WD-PZ11C	Bromodichloromethane	2.00E-01	2.10E+00	ug/L	5	9
WD-PZ11C	Bromoform	6.40E-01	6.40E-01	ug/L	1	9
WD-PZ11C	Cadmium	4.10E-05	1.20E-04	mg/L	6	18
WD-PZ11C	Calcium	1.00E+02	2.40E+02	mg/L	18	18
WD-PZ11C	Chloride	2.40E+01	3.30E+01	mg/L	9	9
WD-PZ11C	Chloroform	8.30E-01	3.50E+00	ug/L	5	9

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ11C	Chloromethane	3.10E-01	3.10E-01	ug/L	1	9
WD-PZ11C	Chromium	6.00E-04	8.90E-03	mg/L	11	18
WD-PZ11C	Chromium, hexavalent	8.60E-03	3.90E-02	mg/L	5	6
WD-PZ11C	Cobalt	8.00E-03	2.90E-02	mg/L	18	18
WD-PZ11C	Copper	1.00E-03	1.00E-02	mg/L	14	18
WD-PZ11C	Cyanide	2.40E-03	6.20E-03	mg/L	2	3
WD-PZ11C	Dibromochloromethane	2.00E-01	2.00E+00	ug/L	5	9
WD-PZ11C	Di-n-butyl phthalate	4.27E+00	4.27E+00	ug/L	1	9
WD-PZ11C	Ethylbenzene	1.90E-01	1.90E-01	ug/L	1	9
WD-PZ11C	Fluoride	1.60E-01	3.10E-01	mg/L	9	9
WD-PZ11C	Iron	4.90E-01	1.20E+01	mg/L	18	18
WD-PZ11C	Lead	1.80E-04	6.60E-03	mg/L	13	18
WD-PZ11C	Lithium	1.40E-01	1.50E-01	mg/L	6	6
WD-PZ11C	M + P Xylene	4.30E-01	6.60E-01	ug/L	2	8
WD-PZ11C	Magnesium	8.70E+01	2.20E+02	mg/L	18	18
WD-PZ11C	Manganese	1.30E-01	2.90E-01	mg/L	18	18
WD-PZ11C	Mercury	2.80E-05	8.30E-05	mg/L	4	18
WD-PZ11C	Methylene chloride	4.60E-01	7.60E-01	ug/L	3	9
WD-PZ11C	Molybdenum	1.60E-03	1.30E-02	mg/L	12	12
WD-PZ11C	Nickel	1.70E-02	6.30E-02	mg/L	18	18
WD-PZ11C	Nitrate	4.80E-02	5.30E-01	mg/L	5	9
WD-PZ11C	Octachloro-dibenzo[b,e][1,4]dioxin	6.31E-05	8.08E-05	ug/L	2	3
WD-PZ11C	Potassium	1.60E+01	3.00E+01	mg/L	18	18
WD-PZ11C	Selenium	7.30E-04	2.60E-03	mg/L	10	18
WD-PZ11C	Sodium	2.30E+02	6.30E+02	mg/L	18	18
WD-PZ11C	Strontium	7.00E+00	8.30E+00	mg/L	6	6
WD-PZ11C	Sulfate	7.30E+02	2.10E+03	mg/L	9	9
WD-PZ11C	Thallium	3.80E-05	8.50E-04	mg/L	7	18
WD-PZ11C	Thorium-228	7.88E-01	7.88E-01	pCi/L	1	3
WD-PZ11C	Thorium-230	4.29E-01	4.29E-01	pCi/L	1	3
WD-PZ11C	Thorium-232	4.78E-01	4.78E-01	pCi/L	1	3
WD-PZ11C	Titanium	4.60E-03	8.60E-02	mg/L	4	6

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ11C	Toluene	6.40E-01	1.30E+00	ug/L	6	9
WD-PZ11C	Uranium	3.80E-04	2.70E-03	mg/L	18	18
WD-PZ11C	Uranium-233/234	4.95E-01	3.09E+00	pCi/L	9	9
WD-PZ11C	Uranium-238	1.12E-01	1.01E+00	pCi/L	9	9
WD-PZ11C	Vanadium	9.30E-04	1.60E-02	mg/L	13	18
WD-PZ11C	Zinc	4.20E-03	3.00E-02	mg/L	16	18
WD-PZ12C	1,2-Dimethylbenzene	2.50E-01	2.50E-01	ug/L	1	11
WD-PZ12C	Acetone	2.90E+00	9.20E+01	ug/L	4	11
WD-PZ12C	Aluminum	2.30E-01	1.80E+01	mg/L	13	22
WD-PZ12C	Americium-241	6.25E-02	6.25E-02	pCi/L	1	11
WD-PZ12C	Ammonium Nitrogen	1.10E-01	4.80E+00	mg/L	8	11
WD-PZ12C	Antimony	5.80E-04	3.60E-03	mg/L	8	22
WD-PZ12C	Arsenic	4.70E-04	3.50E-02	mg/L	20	22
WD-PZ12C	Barium	1.40E-02	9.10E-02	mg/L	22	22
WD-PZ12C	Benzene	9.20E-01	1.90E+00	ug/L	4	11
WD-PZ12C	Beryllium	1.90E-04	1.30E-03	mg/L	7	22
WD-PZ12C	Bis(2-ethylhexyl)phthalate	7.70E-01	4.20E+00	ug/L	5	11
WD-PZ12C	Bromodichloromethane	2.20E-01	4.60E-01	ug/L	2	11
WD-PZ12C	Cadmium	4.50E-05	2.20E-04	mg/L	5	22
WD-PZ12C	Calcium	1.10E+02	2.40E+02	mg/L	22	22
WD-PZ12C	Chloride	2.10E+01	3.20E+01	mg/L	11	11
WD-PZ12C	Chloroform	1.90E-01	5.30E-01	ug/L	3	11
WD-PZ12C	Chromium	7.30E-04	2.70E-02	mg/L	14	22
WD-PZ12C	Chromium, hexavalent	5.10E-03	1.50E-02	mg/L	5	10
WD-PZ12C	Cobalt	2.00E-03	7.20E-02	mg/L	22	22
WD-PZ12C	Copper	1.10E-03	1.80E-02	mg/L	19	22
WD-PZ12C	Cyanide	2.00E-03	7.00E-03	mg/L	5	5
WD-PZ12C	Dibromochloromethane	2.00E-01	4.40E-01	ug/L	2	11
WD-PZ12C	Di-n-octylphthalate	3.10E+00	3.10E+00	ug/L	1	11
WD-PZ12C	Fluoride	1.90E-01	3.00E-01	mg/L	11	11
WD-PZ12C	Iron	3.50E-02	3.40E+01	mg/L	19	22
WD-PZ12C	Lead	6.60E-04	2.90E-02	mg/L	14	22

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ12C	Lithium	1.30E-01	2.50E-01	mg/L	10	10
WD-PZ12C	M + P Xylene	3.80E-01	3.80E-01	ug/L	1	9
WD-PZ12C	Magnesium	2.50E+02	6.60E+02	mg/L	22	22
WD-PZ12C	Manganese	3.30E-02	4.30E-01	mg/L	22	22
WD-PZ12C	Mercury	3.00E-05	1.10E-04	mg/L	6	22
WD-PZ12C	Methylene chloride	3.70E-01	5.60E-01	ug/L	3	11
WD-PZ12C	Molybdenum	1.00E-03	3.10E-03	mg/L	12	12
WD-PZ12C	Nickel	6.00E-03	1.10E-01	mg/L	22	22
WD-PZ12C	Nitrate	8.90E-02	2.20E-01	mg/L	5	11
WD-PZ12C	Octachloro-dibenzo[b,e][1,4]dioxin	8.26E-05	1.02E-04	ug/L	2	5
WD-PZ12C	Plutonium-238	7.03E-02	7.03E-02	pCi/L	1	11
WD-PZ12C	Potassium	1.40E+01	2.10E+01	mg/L	22	22
WD-PZ12C	Selenium	9.30E-04	1.60E-03	mg/L	3	22
WD-PZ12C	Silver	3.40E-04	4.30E-04	mg/L	2	22
WD-PZ12C	Sodium	1.50E+02	2.00E+02	mg/L	22	22
WD-PZ12C	Strontium	2.50E+00	3.80E+00	mg/L	10	10
WD-PZ12C	Sulfate	1.20E+03	2.20E+03	mg/L	11	11
WD-PZ12C	Thallium	4.10E-05	1.60E-04	mg/L	6	22
WD-PZ12C	Thorium-232	4.37E-02	4.37E-02	pCi/L	1	5
WD-PZ12C	Titanium	2.50E-03	1.70E-01	mg/L	7	10
WD-PZ12C	Toluene	1.10E+00	2.00E+00	ug/L	4	11
WD-PZ12C	Uranium	8.00E-04	5.60E-03	mg/L	22	22
WD-PZ12C	Uranium-233/234	9.12E-01	6.57E+00	pCi/L	11	11
WD-PZ12C	Uranium-235	2.11E-01	2.11E-01	pCi/L	1	6
WD-PZ12C	Uranium-235/236	7.86E-02	7.86E-02	pCi/L	1	5
WD-PZ12C	Uranium-238	2.36E-01	4.19E+00	pCi/L	11	11
WD-PZ12C	Vanadium	1.30E-03	5.00E-02	mg/L	18	22
WD-PZ12C	Zinc	4.90E-03	6.20E-01	mg/L	18	22
WD-PZ13C	1,2-Dimethylbenzene	2.00E-01	3.10E-01	ug/L	4	10
WD-PZ13C	Acetone	2.10E+00	5.50E+01	ug/L	3	10
WD-PZ13C	Aluminum	3.20E-02	4.10E+00	mg/L	12	20
WD-PZ13C	Ammonium Nitrogen	5.90E-01	2.90E+00	mg/L	9	10

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ13C	Antimony	6.10E-04	5.80E-03	mg/L	9	20
WD-PZ13C	Arsenic	5.00E-04	1.10E-02	mg/L	19	20
WD-PZ13C	Barium	1.70E-02	4.90E-02	mg/L	20	20
WD-PZ13C	Benzene	3.50E-01	1.70E+00	ug/L	5	10
WD-PZ13C	Beryllium	1.10E-04	1.50E-04	mg/L	3	20
WD-PZ13C	Beta activity	2.09E+01	2.09E+01	pCi/L	1	6
WD-PZ13C	Bis(2-ethylhexyl)phthalate	2.50E+00	3.30E+00	ug/L	4	10
WD-PZ13C	Cadmium	5.60E-05	2.30E-04	mg/L	9	20
WD-PZ13C	Calcium	2.40E+02	3.10E+02	mg/L	20	20
WD-PZ13C	Chloride	4.10E+01	4.90E+01	mg/L	10	10
WD-PZ13C	Chloroform	2.00E-01	2.70E-01	ug/L	2	10
WD-PZ13C	Chromium	9.00E-04	5.90E-03	mg/L	11	20
WD-PZ13C	Chromium, hexavalent	5.10E-03	3.50E-02	mg/L	4	8
WD-PZ13C	Cobalt	6.00E-03	4.70E-02	mg/L	20	20
WD-PZ13C	Copper	7.50E-04	9.10E-03	mg/L	16	20
WD-PZ13C	Cyanide	2.50E-03	5.90E-03	mg/L	4	4
WD-PZ13C	Dibromochloromethane	2.10E-01	2.10E-01	ug/L	1	10
WD-PZ13C	Ethylbenzene	2.40E-01	2.40E-01	ug/L	1	10
WD-PZ13C	Fluoride	1.80E-01	2.80E-01	mg/L	10	10
WD-PZ13C	Iron	3.00E-02	7.10E+00	mg/L	18	20
WD-PZ13C	Lead	1.80E-04	7.30E-03	mg/L	14	20
WD-PZ13C	Lithium	2.10E-01	2.40E-01	mg/L	8	8
WD-PZ13C	M + P Xylene	3.80E-01	5.70E-01	ug/L	4	9
WD-PZ13C	Magnesium	5.90E+02	8.20E+02	mg/L	20	20
WD-PZ13C	Manganese	3.40E-01	7.40E-01	mg/L	20	20
WD-PZ13C	Mercury	2.80E-05	8.20E-05	mg/L	4	20
WD-PZ13C	Methylene chloride	4.00E-01	4.40E-01	ug/L	3	10
WD-PZ13C	Molybdenum	4.30E-03	9.90E-02	mg/L	12	12
WD-PZ13C	Nickel	1.80E-02	1.50E-01	mg/L	20	20
WD-PZ13C	Nitrate	8.80E-02	3.30E-01	mg/L	5	10
WD-PZ13C	Octachloro-dibenzo[b,e][1,4]dioxin	7.52E-05	7.52E-05	ug/L	1	4
WD-PZ13C	Plutonium-239/240	6.72E-02	6.72E-02	pCi/L	1	10

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ13C	Potassium	2.10E+01	3.20E+01	mg/L	20	20
WD-PZ13C	Selenium	1.40E-02	1.40E-02	mg/L	2	20
WD-PZ13C	Sodium	3.10E+02	4.20E+02	mg/L	20	20
WD-PZ13C	Strontium	5.70E+00	7.50E+00	mg/L	8	8
WD-PZ13C	Sulfate	2.80E+03	4.00E+03	mg/L	10	10
WD-PZ13C	Thallium	3.60E-05	5.50E-04	mg/L	11	20
WD-PZ13C	Thorium-228	2.93E-01	3.31E-01	pCi/L	2	4
WD-PZ13C	Thorium-230	3.76E-01	4.19E-01	pCi/L	2	4
WD-PZ13C	Thorium-232	2.13E-01	2.70E-01	pCi/L	2	4
WD-PZ13C	Titanium	4.60E-03	6.10E-02	mg/L	5	8
WD-PZ13C	Toluene	3.70E-01	1.80E+00	ug/L	4	10
WD-PZ13C	Uranium	4.40E-03	1.20E-02	mg/L	20	20
WD-PZ13C	Uranium-233/234	3.66E+00	1.19E+01	pCi/L	10	10
WD-PZ13C	Uranium-235	8.46E-02	1.92E-01	pCi/L	5	6
WD-PZ13C	Uranium-235/236	6.43E-02	1.80E-01	pCi/L	4	4
WD-PZ13C	Uranium-238	1.86E+00	4.67E+00	pCi/L	10	10
WD-PZ13C	Vanadium	1.70E-03	1.10E-02	mg/L	14	20
WD-PZ13C	Zinc	2.60E-03	2.90E-02	mg/L	17	20
WD-PZ14C	Acetone	3.20E+00	6.10E+01	ug/L	4	9
WD-PZ14C	Aluminum	1.80E-01	5.30E+00	mg/L	10	18
WD-PZ14C	Ammonium Nitrogen	1.00E-01	2.10E+00	mg/L	6	9
WD-PZ14C	Arsenic	4.60E-04	7.80E-03	mg/L	12	18
WD-PZ14C	Barium	1.00E-02	5.40E-02	mg/L	18	18
WD-PZ14C	Beryllium	1.10E-04	1.10E-04	mg/L	1	18
WD-PZ14C	Bis(2-ethylhexyl)phthalate	2.50E+00	3.20E+00	ug/L	4	9
WD-PZ14C	Bromodichloromethane	2.60E-01	9.30E-01	ug/L	2	9
WD-PZ14C	Bromoform	2.90E-01	2.90E-01	ug/L	1	9
WD-PZ14C	Cadmium	4.90E-05	2.90E-04	mg/L	12	18
WD-PZ14C	Calcium	3.70E+02	4.30E+02	mg/L	18	18
WD-PZ14C	Chloride	7.30E+01	8.10E+01	mg/L	9	9
WD-PZ14C	Chloroform	2.10E-01	1.20E+00	ug/L	4	9
WD-PZ14C	Chromium	6.60E-04	6.40E-03	mg/L	14	18

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ14C	Chromium, hexavalent	9.40E-03	2.50E-02	mg/L	4	7
WD-PZ14C	Cobalt	3.70E-03	1.20E-01	mg/L	18	18
WD-PZ14C	Copper	1.40E-03	9.30E-03	mg/L	14	18
WD-PZ14C	Cyanide	3.90E-03	4.50E-03	mg/L	2	3
WD-PZ14C	delta-BHC	7.99E-03	7.99E-03	ug/L	1	4
WD-PZ14C	Dibromochloromethane	1.90E-01	8.00E-01	ug/L	2	9
WD-PZ14C	Fluoride	3.10E-01	5.30E-01	mg/L	4	9
WD-PZ14C	Iron	5.60E-02	5.30E+00	mg/L	15	18
WD-PZ14C	Lead	5.10E-04	3.80E-03	mg/L	11	18
WD-PZ14C	Lithium	8.40E-01	1.00E+00	mg/L	6	6
WD-PZ14C	Magnesium	6.10E+02	9.60E+02	mg/L	18	18
WD-PZ14C	Manganese	2.10E+00	1.60E+01	mg/L	18	18
WD-PZ14C	Mercury	7.50E-05	7.90E-05	mg/L	2	18
WD-PZ14C	Methylene chloride	3.60E-01	5.00E-01	ug/L	3	9
WD-PZ14C	Molybdenum	7.00E-04	1.30E-02	mg/L	12	12
WD-PZ14C	Neptunium-237	2.26E-02	2.26E-02	pCi/L	1	9
WD-PZ14C	Nickel	5.30E-02	2.90E-01	mg/L	18	18
WD-PZ14C	Nitrate	3.50E-01	1.70E+00	mg/L	5	9
WD-PZ14C	Octachloro-dibenzo[b,e][1,4]dioxin	6.61E-05	6.61E-05	ug/L	1	3
WD-PZ14C	Potassium	2.10E+01	3.00E+01	mg/L	18	18
WD-PZ14C	Selenium	8.00E-04	4.80E-03	mg/L	5	18
WD-PZ14C	Silver	1.00E-03	2.20E-03	mg/L	8	18
WD-PZ14C	Sodium	2.70E+02	3.10E+02	mg/L	18	18
WD-PZ14C	Strontium	4.70E+00	6.20E+00	mg/L	6	6
WD-PZ14C	Sulfate	3.40E+03	5.70E+03	mg/L	9	9
WD-PZ14C	Thallium	4.20E-05	5.70E-04	mg/L	14	18
WD-PZ14C	Thorium-228	4.41E-01	4.41E-01	pCi/L	1	3
WD-PZ14C	Thorium-230	3.45E-01	3.45E-01	pCi/L	1	3
WD-PZ14C	Thorium-232	2.73E-01	2.73E-01	pCi/L	1	3
WD-PZ14C	Titanium	2.70E-03	2.10E-02	mg/L	4	6
WD-PZ14C	Uranium	2.60E-04	3.00E-03	mg/L	16	18
WD-PZ14C	Uranium-233/234	1.61E-01	8.65E+00	pCi/L	9	9

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ14C	Uranium-235	1.11E-01	3.61E-01	pCi/L	2	6
WD-PZ14C	Uranium-235/236	2.61E-02	2.61E-02	pCi/L	1	3
WD-PZ14C	Uranium-238	8.53E-02	7.74E+00	pCi/L	8	9
WD-PZ14C	Vanadium	1.40E-03	1.10E-02	mg/L	6	18
WD-PZ14C	Zinc	9.30E-03	1.00E-01	mg/L	18	18
WD-PZ15C	Acetone	4.40E+00	4.40E+00	ug/L	1	3
WD-PZ15C	Aluminum	1.30E+00	1.10E+01	mg/L	5	6
WD-PZ15C	Ammonium Nitrogen	1.70E-01	3.40E+00	mg/L	3	3
WD-PZ15C	Antimony	1.90E-03	3.60E-03	mg/L	6	6
WD-PZ15C	Arsenic	2.10E-03	1.20E-02	mg/L	6	6
WD-PZ15C	Barium	3.40E-02	5.50E-02	mg/L	6	6
WD-PZ15C	Benzene	1.80E-01	1.80E-01	ug/L	1	3
WD-PZ15C	Beryllium	9.90E-05	5.90E-04	mg/L	3	6
WD-PZ15C	Cadmium	2.60E-04	2.60E-04	mg/L	1	6
WD-PZ15C	Calcium	4.10E+02	5.40E+02	mg/L	6	6
WD-PZ15C	Chloride	7.70E+01	8.60E+01	mg/L	3	3
WD-PZ15C	Chromium	2.20E-03	1.30E-02	mg/L	6	6
WD-PZ15C	Chromium, hexavalent	4.20E-03	3.00E-01	mg/L	5	7
WD-PZ15C	Cobalt	4.10E-02	5.30E-02	mg/L	6	6
WD-PZ15C	Copper	3.20E-03	1.10E-02	mg/L	5	6
WD-PZ15C	Cyanide	2.00E-03	2.80E-03	mg/L	2	3
WD-PZ15C	Fluoride	3.70E-01	4.10E-01	mg/L	2	3
WD-PZ15C	Heptachlor	5.46E-03	5.46E-03	ug/L	1	3
WD-PZ15C	Iron	1.90E+00	1.70E+01	mg/L	5	6
WD-PZ15C	Lead	1.30E-03	7.90E-03	mg/L	5	6
WD-PZ15C	Lithium	1.60E-01	2.10E-01	mg/L	6	6
WD-PZ15C	Magnesium	8.80E+02	1.10E+03	mg/L	6	6
WD-PZ15C	Manganese	1.80E-01	3.60E-01	mg/L	6	6
WD-PZ15C	Nickel	8.20E-02	1.30E-01	mg/L	6	6
WD-PZ15C	Nitrate	2.90E-01	4.80E+00	mg/L	3	3
WD-PZ15C	Nitrite as Nitrogen	1.30E+00	3.60E+00	mg/L	2	3
WD-PZ15C	Octachloro-dibenzo[b,e][1,4]dioxin	6.91E-05	1.85E-04	ug/L	2	3

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ15C	Potassium	2.60E+01	3.00E+01	mg/L	6	6
WD-PZ15C	Selenium	2.10E-03	4.60E-03	mg/L	4	6
WD-PZ15C	Sodium	4.20E+02	5.50E+02	mg/L	6	6
WD-PZ15C	Strontium	7.00E+00	1.00E+01	mg/L	6	6
WD-PZ15C	Sulfate	5.50E+03	5.90E+03	mg/L	3	3
WD-PZ15C	Thallium	5.70E-05	5.70E-05	mg/L	1	6
WD-PZ15C	Thorium-228	9.04E-01	9.04E-01	pCi/L	1	3
WD-PZ15C	Thorium-230	3.22E-01	3.22E-01	pCi/L	1	3
WD-PZ15C	Thorium-232	4.05E-01	4.05E-01	pCi/L	1	3
WD-PZ15C	Titanium	1.00E-02	1.70E-01	mg/L	5	6
WD-PZ15C	Uranium	2.00E-02	3.20E-02	mg/L	6	6
WD-PZ15C	Uranium-233/234	1.89E+01	3.06E+01	pCi/L	3	3
WD-PZ15C	Uranium-235/236	4.04E-01	7.21E-01	pCi/L	3	3
WD-PZ15C	Uranium-238	8.01E+00	1.22E+01	pCi/L	3	3
WD-PZ15C	Vanadium	4.10E-03	2.20E-02	mg/L	5	6
WD-PZ15C	Zinc	1.00E-02	4.60E-02	mg/L	5	6
WD-PZ16C	1,2,3,4,6,7,8-Heptachlorodibenzofuran	5.92E-05	5.92E-05	ug/L	1	3
WD-PZ16C	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dio	9.04E-05	9.04E-05	ug/L	1	3
WD-PZ16C	1,2,3,4,7,8,9-Heptachlorodibenzofuran	9.39E-05	9.39E-05	ug/L	1	3
WD-PZ16C	Acetone	1.20E+01	1.20E+01	ug/L	1	3
WD-PZ16C	Aluminum	4.60E-02	5.40E+00	mg/L	5	6
WD-PZ16C	Ammonium Nitrogen	3.10E-01	1.70E+00	mg/L	2	3
WD-PZ16C	Antimony	1.20E-03	1.40E-03	mg/L	4	6
WD-PZ16C	Arsenic	1.80E-03	8.50E-03	mg/L	4	6
WD-PZ16C	Barium	9.40E-03	3.90E-02	mg/L	6	6
WD-PZ16C	Beryllium	9.80E-05	3.50E-04	mg/L	3	6
WD-PZ16C	Calcium	8.40E+01	1.10E+02	mg/L	6	6
WD-PZ16C	Chloride	2.60E+01	3.30E+01	mg/L	3	3
WD-PZ16C	Chromium	1.90E-03	8.20E-03	mg/L	6	6
WD-PZ16C	Chromium, hexavalent	4.20E-03	5.00E-02	mg/L	4	7
WD-PZ16C	Cobalt	4.80E-03	2.30E-02	mg/L	6	6
WD-PZ16C	Copper	1.80E-03	1.00E-02	mg/L	4	6

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ16C	Cyanide	2.20E-03	2.20E-03	mg/L	2	3
WD-PZ16C	Fluoride	1.50E-01	2.50E-01	mg/L	3	3
WD-PZ16C	Iron	9.50E-02	9.80E+00	mg/L	5	6
WD-PZ16C	Lead	8.40E-04	6.30E-03	mg/L	4	6
WD-PZ16C	Lithium	1.30E-01	1.60E-01	mg/L	6	6
WD-PZ16C	Magnesium	2.50E+02	2.90E+02	mg/L	6	6
WD-PZ16C	Manganese	8.70E-02	2.30E-01	mg/L	6	6
WD-PZ16C	Nickel	2.20E-02	3.30E-02	mg/L	6	6
WD-PZ16C	Nitrate	8.90E-01	1.30E+00	mg/L	3	3
WD-PZ16C	Nitrite as Nitrogen	1.20E-01	1.20E-01	mg/L	1	3
WD-PZ16C	Octachloro-dibenzo[b,e][1,4]dioxin	4.08E-04	4.08E-04	ug/L	1	3
WD-PZ16C	Octachlorodibenzofuran	3.49E-04	3.49E-04	ug/L	1	3
WD-PZ16C	Potassium	1.20E+01	1.40E+01	mg/L	6	6
WD-PZ16C	Selenium	1.50E-03	2.70E-03	mg/L	4	6
WD-PZ16C	Sodium	8.70E+01	1.30E+02	mg/L	6	6
WD-PZ16C	Strontium	1.40E+00	2.00E+00	mg/L	6	6
WD-PZ16C	Sulfate	8.70E+02	1.10E+03	mg/L	3	3
WD-PZ16C	Thallium	6.20E-05	9.20E-04	mg/L	2	6
WD-PZ16C	Thorium-228	6.22E-01	6.22E-01	pCi/L	1	3
WD-PZ16C	Thorium-230	1.69E-01	1.69E-01	pCi/L	1	3
WD-PZ16C	Thorium-232	1.96E-01	1.96E-01	pCi/L	1	3
WD-PZ16C	Titanium	1.10E-03	1.10E-01	mg/L	5	6
WD-PZ16C	Uranium	1.30E-03	1.80E-03	mg/L	6	6
WD-PZ16C	Uranium-233/234	1.06E+00	3.32E+00	pCi/L	3	3
WD-PZ16C	Uranium-238	4.24E-01	1.20E+00	pCi/L	3	3
WD-PZ16C	Vanadium	1.60E-03	1.50E-02	mg/L	4	6
WD-PZ16C	Zinc	8.80E-03	3.60E-02	mg/L	4	6
WD-PZ17C	Acetone	8.10E+00	8.10E+00	ug/L	1	3
WD-PZ17C	Aluminum	4.20E-01	2.20E+00	mg/L	5	6
WD-PZ17C	Ammonium Nitrogen	1.20E+00	4.40E+00	mg/L	2	3
WD-PZ17C	Antimony	1.80E-03	3.40E-03	mg/L	5	6
WD-PZ17C	Arsenic	1.80E-03	4.80E-03	mg/L	5	6

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ17C	Barium	3.30E-02	3.90E-02	mg/L	6	6
WD-PZ17C	Beryllium	9.40E-05	2.20E-04	mg/L	3	6
WD-PZ17C	Calcium	2.40E+02	2.90E+02	mg/L	6	6
WD-PZ17C	Chloride	5.00E+01	5.70E+01	mg/L	3	3
WD-PZ17C	Chromium	1.60E-03	6.20E-03	mg/L	6	6
WD-PZ17C	Chromium, hexavalent	1.00E-02	3.00E-02	mg/L	4	7
WD-PZ17C	Cobalt	3.00E-02	6.60E-02	mg/L	6	6
WD-PZ17C	Copper	2.80E-03	4.90E-03	mg/L	4	6
WD-PZ17C	Cyanide	5.00E-03	8.30E-03	mg/L	2	3
WD-PZ17C	Fluoride	2.00E-01	3.60E-01	mg/L	3	3
WD-PZ17C	Iron	8.90E-01	5.90E+00	mg/L	5	6
WD-PZ17C	Lead	8.30E-04	4.00E-03	mg/L	4	6
WD-PZ17C	Lithium	2.20E-01	2.50E-01	mg/L	6	6
WD-PZ17C	Magnesium	4.20E+02	5.00E+02	mg/L	6	6
WD-PZ17C	Manganese	4.30E-01	5.50E-01	mg/L	6	6
WD-PZ17C	Nickel	6.90E-02	1.80E-01	mg/L	6	6
WD-PZ17C	Nitrate	2.20E+00	4.80E+00	mg/L	2	3
WD-PZ17C	Nitrite as Nitrogen	1.00E+00	1.00E+00	mg/L	1	3
WD-PZ17C	Octachloro-dibenzo[b,e][1,4]dioxin	1.43E-04	1.43E-04	ug/L	1	3
WD-PZ17C	Octachlorodibenzofuran	1.22E-04	1.22E-04	ug/L	1	3
WD-PZ17C	PCB-1254	7.42E-02	7.42E-02	ug/L	1	3
WD-PZ17C	Polychlorinated biphenyl	7.42E-02	7.42E-02	ug/L	1	3
WD-PZ17C	Potassium	1.90E+01	2.50E+01	mg/L	6	6
WD-PZ17C	Selenium	2.20E-03	2.50E-03	mg/L	2	6
WD-PZ17C	Sodium	2.10E+02	2.60E+02	mg/L	6	6
WD-PZ17C	Strontium	5.70E+00	6.90E+00	mg/L	6	6
WD-PZ17C	Sulfate	2.30E+03	2.40E+03	mg/L	3	3
WD-PZ17C	Thallium	1.00E-03	1.00E-03	mg/L	1	6
WD-PZ17C	Thorium-228	6.61E-02	4.01E-01	pCi/L	2	3
WD-PZ17C	Thorium-230	5.65E-02	5.65E-02	pCi/L	1	3
WD-PZ17C	Thorium-232	3.21E-02	3.21E-02	pCi/L	1	3
WD-PZ17C	Titanium	5.00E-03	4.50E-02	mg/L	5	6

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ17C	Uranium	1.60E-03	3.80E-03	mg/L	6	6
WD-PZ17C	Uranium-233/234	1.57E+00	6.41E+00	pCi/L	3	3
WD-PZ17C	Uranium-235/236	4.08E-02	1.12E-01	pCi/L	2	3
WD-PZ17C	Uranium-238	5.27E-01	2.04E+00	pCi/L	3	3
WD-PZ17C	Vanadium	2.60E-03	5.70E-03	mg/L	4	6
WD-PZ17C	Zinc	1.10E-02	2.70E-02	mg/L	5	6
WD-PZ18C	Acetone	6.30E+00	1.20E+01	ug/L	2	3
WD-PZ18C	Aluminum	3.20E-01	8.40E+00	mg/L	5	6
WD-PZ18C	Ammonium Nitrogen	1.80E+00	3.80E+00	mg/L	3	3
WD-PZ18C	Antimony	2.20E-03	3.50E-03	mg/L	5	6
WD-PZ18C	Arsenic	7.80E-03	3.50E-02	mg/L	6	6
WD-PZ18C	Barium	1.80E-02	5.20E-02	mg/L	6	6
WD-PZ18C	Beryllium	1.30E-04	5.10E-04	mg/L	2	6
WD-PZ18C	Cadmium	5.00E-04	6.10E-04	mg/L	2	6
WD-PZ18C	Calcium	3.40E+02	4.30E+02	mg/L	6	6
WD-PZ18C	Chloride	5.30E+01	6.10E+01	mg/L	3	3
WD-PZ18C	Chromium	1.20E-03	1.80E-02	mg/L	6	6
WD-PZ18C	Chromium, hexavalent	4.20E-03	6.00E-03	mg/L	4	7
WD-PZ18C	Cobalt	1.90E-02	4.20E-02	mg/L	6	6
WD-PZ18C	Copper	1.30E-03	9.60E-03	mg/L	5	6
WD-PZ18C	Cyanide	2.10E-03	8.00E-03	mg/L	3	3
WD-PZ18C	Fluoride	2.20E-01	3.60E-01	mg/L	2	3
WD-PZ18C	Iron	2.80E-01	1.60E+01	mg/L	6	6
WD-PZ18C	Lead	7.10E-04	1.20E-02	mg/L	5	6
WD-PZ18C	Lithium	4.90E-01	6.00E-01	mg/L	6	6
WD-PZ18C	Magnesium	1.00E+03	1.20E+03	mg/L	6	6
WD-PZ18C	Manganese	6.20E-01	8.00E-01	mg/L	6	6
WD-PZ18C	Nickel	4.30E-02	8.60E-02	mg/L	6	6
WD-PZ18C	Nitrate	6.60E-01	6.60E-01	mg/L	1	3
WD-PZ18C	Nitrite as Nitrogen	3.40E-01	7.90E-01	mg/L	2	3
WD-PZ18C	Octachloro-dibenzo[b,e][1,4]dioxin	7.56E-05	7.56E-05	ug/L	1	3
WD-PZ18C	Potassium	3.10E+01	4.30E+01	mg/L	6	6

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ18C	Selenium	8.50E-04	8.50E-04	mg/L	1	6
WD-PZ18C	Silver	6.80E-05	6.80E-05	mg/L	1	6
WD-PZ18C	Sodium	6.80E+02	8.30E+02	mg/L	6	6
WD-PZ18C	Strontium	7.20E+00	9.20E+00	mg/L	6	6
WD-PZ18C	Sulfate	5.00E+03	6.60E+03	mg/L	3	3
WD-PZ18C	Thorium-228	1.08E+00	1.08E+00	pCi/L	1	3
WD-PZ18C	Thorium-230	6.61E-01	6.61E-01	pCi/L	1	3
WD-PZ18C	Thorium-232	9.12E-01	9.12E-01	pCi/L	1	3
WD-PZ18C	Titanium	6.30E-03	8.10E-02	mg/L	5	6
WD-PZ18C	Uranium	3.00E-03	4.40E-03	mg/L	6	6
WD-PZ18C	Uranium-233/234	2.62E+00	3.07E+00	pCi/L	3	3
WD-PZ18C	Uranium-235/236	7.61E-02	7.61E-02	pCi/L	1	3
WD-PZ18C	Uranium-238	1.51E+00	1.73E+00	pCi/L	3	3
WD-PZ18C	Vanadium	1.40E-03	2.10E-02	mg/L	5	6
WD-PZ18C	Zinc	4.50E-03	4.10E-02	mg/L	5	6
WD-PZ18CA	Acetone	5.50E+00	5.50E+00	ug/L	1	3
WD-PZ18CA	Aluminum	6.70E+00	1.60E+01	mg/L	2	2
WD-PZ18CA	Ammonium Nitrogen	4.70E-01	6.20E-01	mg/L	2	2
WD-PZ18CA	Antimony	1.20E-03	1.60E-03	mg/L	2	2
WD-PZ18CA	Arsenic	1.50E-02	2.50E-02	mg/L	2	2
WD-PZ18CA	Barium	3.90E-02	5.40E-02	mg/L	2	2
WD-PZ18CA	Benzene	2.20E-01	2.20E-01	ug/L	1	3
WD-PZ18CA	Beryllium	3.20E-04	8.80E-04	mg/L	2	2
WD-PZ18CA	Cadmium	2.80E-04	2.80E-04	mg/L	1	2
WD-PZ18CA	Calcium	4.60E+02	4.70E+02	mg/L	2	2
WD-PZ18CA	Chloride	5.70E+01	6.20E+01	mg/L	2	2
WD-PZ18CA	Chloroform	1.70E-01	1.70E-01	ug/L	1	3
WD-PZ18CA	Chromium	1.00E-02	2.00E-02	mg/L	2	2
WD-PZ18CA	Chromium, hexavalent	4.70E-02	4.40E-01	mg/L	2	4
WD-PZ18CA	Cobalt	4.00E-02	4.20E-02	mg/L	2	2
WD-PZ18CA	Copper	1.10E-02	2.10E-02	mg/L	2	2
WD-PZ18CA	Cyanide	2.10E-03	2.20E-03	mg/L	2	2

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ18CA	Fluoride	2.80E-01	2.80E-01	mg/L	1	2
WD-PZ18CA	Iron	1.20E+01	3.00E+01	mg/L	2	2
WD-PZ18CA	Lead	8.30E-03	1.50E-02	mg/L	2	2
WD-PZ18CA	Lithium	4.50E-01	4.80E-01	mg/L	2	2
WD-PZ18CA	Magnesium	9.30E+02	9.50E+02	mg/L	2	2
WD-PZ18CA	Manganese	1.20E+00	1.30E+00	mg/L	2	2
WD-PZ18CA	Nickel	9.40E-02	9.70E-02	mg/L	2	2
WD-PZ18CA	Nitrate	5.10E-01	1.00E+00	mg/L	2	2
WD-PZ18CA	Potassium	3.00E+01	3.10E+01	mg/L	2	2
WD-PZ18CA	Selenium	2.00E-03	2.10E-03	mg/L	2	2
WD-PZ18CA	Sodium	4.30E+02	4.40E+02	mg/L	2	2
WD-PZ18CA	Strontium	8.00E+00	8.00E+00	mg/L	2	2
WD-PZ18CA	Sulfate	4.60E+03	4.70E+03	mg/L	2	2
WD-PZ18CA	Thallium	1.00E-04	1.50E-04	mg/L	2	2
WD-PZ18CA	Titanium	1.20E-01	2.00E-01	mg/L	2	2
WD-PZ18CA	Uranium	6.30E-03	7.50E-03	mg/L	2	2
WD-PZ18CA	Uranium-233/234	5.90E+00	7.28E+00	pCi/L	2	2
WD-PZ18CA	Uranium-235/236	1.26E-01	1.59E-01	pCi/L	2	2
WD-PZ18CA	Uranium-238	2.61E+00	3.02E+00	pCi/L	2	2
WD-PZ18CA	Vanadium	1.70E-02	3.60E-02	mg/L	2	2
WD-PZ18CA	Zinc	4.20E-02	7.70E-02	mg/L	2	2
WD-PZ19C	Aluminum	1.10E+00	1.60E+01	mg/L	5	6
WD-PZ19C	Ammonium Nitrogen	2.20E-01	9.20E-01	mg/L	3	3
WD-PZ19C	Antimony	2.40E-03	6.40E-03	mg/L	6	6
WD-PZ19C	Arsenic	4.60E-03	1.80E-01	mg/L	6	6
WD-PZ19C	Barium	1.80E-02	2.40E-01	mg/L	6	6
WD-PZ19C	Beryllium	9.60E-05	6.30E-03	mg/L	5	6
WD-PZ19C	Cadmium	1.40E-04	1.30E-03	mg/L	4	6
WD-PZ19C	Calcium	2.30E+02	2.90E+02	mg/L	6	6
WD-PZ19C	Chloride	4.30E+01	5.10E+01	mg/L	3	3
WD-PZ19C	Chromium	2.50E-03	1.20E-01	mg/L	5	6
WD-PZ19C	Chromium, hexavalent	5.10E-03	2.60E-01	mg/L	4	6

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ19C	Chromium, trivalent	1.20E-01	1.20E-01	mg/L	1	6
WD-PZ19C	Cobalt	3.70E-02	1.90E-01	mg/L	6	6
WD-PZ19C	Copper	1.40E-03	1.50E-01	mg/L	6	6
WD-PZ19C	Cyanide	2.40E-03	6.30E-03	mg/L	3	3
WD-PZ19C	Di-n-butyl phthalate	2.73E+01	2.73E+01	ug/L	1	3
WD-PZ19C	Fluoride	2.40E-01	3.10E-01	mg/L	3	3
WD-PZ19C	Iron	1.50E+00	5.70E+01	mg/L	5	6
WD-PZ19C	Lead	4.00E-04	1.20E-01	mg/L	6	6
WD-PZ19C	Lithium	3.00E-01	3.40E-01	mg/L	6	6
WD-PZ19C	Magnesium	7.20E+02	8.20E+02	mg/L	6	6
WD-PZ19C	Manganese	1.20E+00	2.80E+00	mg/L	6	6
WD-PZ19C	Mercury	3.60E-05	3.60E-05	mg/L	1	6
WD-PZ19C	Nickel	8.80E-02	4.90E-01	mg/L	6	6
WD-PZ19C	Nitrate	1.40E+00	2.30E+00	mg/L	3	3
WD-PZ19C	Nitrite as Nitrogen	1.50E-01	1.50E-01	mg/L	1	3
WD-PZ19C	Octachloro-dibenzo[b,e][1,4]dioxin	7.19E-05	7.19E-05	ug/L	1	3
WD-PZ19C	Potassium	2.30E+01	3.00E+01	mg/L	6	6
WD-PZ19C	Selenium	2.20E-03	1.40E-02	mg/L	6	6
WD-PZ19C	Silver	6.20E-05	1.70E-04	mg/L	2	6
WD-PZ19C	Sodium	2.10E+02	2.70E+02	mg/L	6	6
WD-PZ19C	Strontium	4.40E+00	5.20E+00	mg/L	6	6
WD-PZ19C	Sulfate	2.60E+03	3.30E+03	mg/L	3	3
WD-PZ19C	Thallium	5.60E-05	6.90E-04	mg/L	5	6
WD-PZ19C	Thorium-228	2.10E-02	2.16E+01	pCi/L	2	3
WD-PZ19C	Thorium-230	1.30E+01	1.30E+01	pCi/L	1	3
WD-PZ19C	Thorium-232	2.16E+01	2.16E+01	pCi/L	1	3
WD-PZ19C	Titanium	7.50E-03	1.40E-01	mg/L	5	6
WD-PZ19C	Uranium	3.90E-03	1.70E-02	mg/L	6	6
WD-PZ19C	Uranium-233/234	4.23E+00	2.84E+01	pCi/L	3	3
WD-PZ19C	Uranium-235/236	1.03E-01	6.23E-01	pCi/L	2	3
WD-PZ19C	Uranium-238	1.40E+00	1.81E+01	pCi/L	3	3
WD-PZ19C	Vanadium	5.10E-03	1.60E-01	mg/L	5	6

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ19C	Zinc	1.00E-02	4.90E-01	mg/L	6	6
WD-PZ20C	Acetone	5.20E+00	5.20E+00	ug/L	1	2
WD-PZ23C	Acetone	1.90E+00	1.90E+00	ug/L	1	1
WD-PZ23C	Bromodichloromethane	1.70E-01	1.70E-01	ug/L	1	1
WD-PZ23C	Chloroform	5.40E-01	5.40E-01	ug/L	1	1
WD-PZ23C	Methylene chloride	4.80E-01	4.80E-01	ug/L	1	1
WD-PZ24C	Aluminum	8.40E-02	3.10E-01	mg/L	2	2
WD-PZ24C	Arsenic	1.70E-03	2.40E-03	mg/L	2	2
WD-PZ24C	Barium	2.00E-02	2.50E-02	mg/L	2	2
WD-PZ24C	Calcium	1.10E+02	1.20E+02	mg/L	2	2
WD-PZ24C	Chloride	2.70E+01	2.70E+01	mg/L	1	1
WD-PZ24C	Chloroform	2.20E-01	2.20E-01	ug/L	1	1
WD-PZ24C	Chromium	8.50E-04	8.50E-04	mg/L	1	2
WD-PZ24C	Chromium, hexavalent	1.60E-02	6.40E-02	mg/L	2	2
WD-PZ24C	Cobalt	1.20E-03	1.90E-03	mg/L	2	2
WD-PZ24C	Copper	1.90E-03	3.20E-03	mg/L	2	2
WD-PZ24C	Fluoride	1.40E-01	1.40E-01	mg/L	1	1
WD-PZ24C	Iron	3.00E+00	3.60E+00	mg/L	2	2
WD-PZ24C	Lead	2.70E-04	6.90E-04	mg/L	2	2
WD-PZ24C	Lithium	1.10E-01	1.20E-01	mg/L	2	2
WD-PZ24C	Magnesium	1.70E+02	1.90E+02	mg/L	2	2
WD-PZ24C	Manganese	1.80E-01	2.00E-01	mg/L	2	2
WD-PZ24C	Nickel	5.10E-03	9.20E-03	mg/L	2	2
WD-PZ24C	Nitrate	1.40E-01	1.40E-01	mg/L	1	1
WD-PZ24C	Potassium	1.40E+01	1.70E+01	mg/L	2	2
WD-PZ24C	Sodium	1.50E+02	1.60E+02	mg/L	2	2
WD-PZ24C	Strontium	2.80E+00	3.10E+00	mg/L	2	2
WD-PZ24C	Sulfate	8.70E+02	8.70E+02	mg/L	1	1
WD-PZ24C	Thorium-228	4.13E-02	4.13E-02	pCi/L	1	1
WD-PZ24C	Thorium-230	7.56E-02	7.56E-02	pCi/L	1	1
WD-PZ24C	Thorium-232	3.74E-02	3.74E-02	pCi/L	1	1
WD-PZ24C	Titanium	1.10E-03	4.50E-03	mg/L	2	2

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ24C	Uranium	1.70E-04	2.70E-04	mg/L	2	2
WD-PZ24C	Uranium-233/234	1.85E-01	1.85E-01	pCi/L	1	1
WD-PZ24C	Uranium-238	7.32E-02	7.32E-02	pCi/L	1	1
WD-PZ24C	Vanadium	5.00E-04	9.10E-04	mg/L	2	2
WD-PZ24C	Zinc	2.60E-03	4.60E-03	mg/L	2	2
WD-PZ25C	Aluminum	1.50E+00	1.60E+01	mg/L	2	2
WD-PZ25C	Antimony	4.10E-04	4.10E-04	mg/L	1	2
WD-PZ25C	Arsenic	1.10E-02	2.60E-02	mg/L	2	2
WD-PZ25C	Barium	2.10E-02	4.90E-02	mg/L	2	2
WD-PZ25C	Beryllium	1.50E-04	8.70E-04	mg/L	2	2
WD-PZ25C	Cadmium	1.30E-04	1.30E-04	mg/L	1	2
WD-PZ25C	Calcium	2.60E+02	3.00E+02	mg/L	2	2
WD-PZ25C	Chloride	4.50E+01	4.50E+01	mg/L	1	1
WD-PZ25C	Chromium	4.10E-03	2.50E-02	mg/L	2	2
WD-PZ25C	Chromium, hexavalent	2.00E-02	7.60E-02	mg/L	2	2
WD-PZ25C	Cobalt	1.30E-02	2.10E-02	mg/L	2	2
WD-PZ25C	Copper	3.90E-03	2.10E-02	mg/L	2	2
WD-PZ25C	Fluoride	1.80E-01	1.80E-01	mg/L	1	1
WD-PZ25C	Iron	4.00E+00	3.10E+01	mg/L	2	2
WD-PZ25C	Lead	2.50E-03	1.30E-02	mg/L	2	2
WD-PZ25C	Lithium	2.20E-01	3.20E-01	mg/L	2	2
WD-PZ25C	Magnesium	4.10E+02	4.80E+02	mg/L	2	2
WD-PZ25C	Manganese	1.30E+00	1.60E+00	mg/L	2	2
WD-PZ25C	Nickel	7.20E-02	8.40E-02	mg/L	2	2
WD-PZ25C	Potassium	2.00E+01	2.40E+01	mg/L	2	2
WD-PZ25C	Selenium	1.30E-03	1.30E-03	mg/L	1	2
WD-PZ25C	Silver	4.30E-05	4.30E-05	mg/L	1	2
WD-PZ25C	Sodium	3.10E+02	3.40E+02	mg/L	2	2
WD-PZ25C	Strontium	5.80E+00	6.60E+00	mg/L	2	2
WD-PZ25C	Sulfate	2.40E+03	2.40E+03	mg/L	1	1
WD-PZ25C	Thallium	7.30E-05	1.50E-04	mg/L	2	2
WD-PZ25C	Thorium-228	1.11E+00	1.11E+00	pCi/L	1	1

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ25C	Thorium-230	5.16E-01	5.16E-01	pCi/L	1	1
WD-PZ25C	Thorium-232	1.08E+00	1.08E+00	pCi/L	1	1
WD-PZ25C	Titanium	1.80E-02	1.20E-01	mg/L	2	2
WD-PZ25C	Uranium	1.30E-03	2.00E-03	mg/L	2	2
WD-PZ25C	Uranium-233/234	1.47E+00	1.47E+00	pCi/L	1	1
WD-PZ25C	Uranium-235/236	4.04E-02	4.04E-02	pCi/L	1	1
WD-PZ25C	Uranium-238	8.24E-01	8.24E-01	pCi/L	1	1
WD-PZ25C	Vanadium	5.10E-03	3.40E-02	mg/L	2	2
WD-PZ25C	Zinc	1.40E-02	7.30E-02	mg/L	2	2
WD-PZ26C	Aluminum	1.20E-01	1.10E+00	mg/L	2	2
WD-PZ26C	Arsenic	6.10E-04	2.40E-03	mg/L	2	2
WD-PZ26C	Barium	2.40E-02	2.60E-02	mg/L	2	2
WD-PZ26C	Beryllium	8.30E-05	8.30E-05	mg/L	1	2
WD-PZ26C	Bis(2-ethylhexyl)phthalate	9.37E+00	9.37E+00	ug/L	1	1
WD-PZ26C	Calcium	3.00E+02	3.00E+02	mg/L	2	2
WD-PZ26C	Chloride	4.50E+01	4.50E+01	mg/L	1	1
WD-PZ26C	Chromium	6.10E-04	2.70E-03	mg/L	2	2
WD-PZ26C	Chromium, hexavalent	9.20E-03	3.60E-02	mg/L	2	2
WD-PZ26C	Cobalt	4.00E-03	5.80E-03	mg/L	2	2
WD-PZ26C	Copper	1.80E-03	1.80E-03	mg/L	1	2
WD-PZ26C	Fluoride	2.10E-01	2.10E-01	mg/L	1	1
WD-PZ26C	Iron	4.40E-01	2.70E+00	mg/L	2	2
WD-PZ26C	Lead	1.90E-04	1.30E-03	mg/L	2	2
WD-PZ26C	Lithium	2.40E-01	2.40E-01	mg/L	2	2
WD-PZ26C	Magnesium	4.70E+02	4.70E+02	mg/L	2	2
WD-PZ26C	Manganese	1.70E+00	1.70E+00	mg/L	2	2
WD-PZ26C	Methylene chloride	5.20E-01	5.20E-01	ug/L	1	1
WD-PZ26C	Nickel	1.60E-02	2.60E-02	mg/L	2	2
WD-PZ26C	Potassium	1.90E+01	1.90E+01	mg/L	2	2
WD-PZ26C	Sodium	2.70E+02	2.70E+02	mg/L	2	2
WD-PZ26C	Strontium	5.80E+00	5.90E+00	mg/L	2	2
WD-PZ26C	Sulfate	2.40E+03	2.40E+03	mg/L	1	1

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ26C	Thallium	5.00E-05	5.00E-05	mg/L	1	2
WD-PZ26C	Thorium-230	8.38E-02	8.38E-02	pCi/L	1	1
WD-PZ26C	Thorium-232	4.09E-02	4.09E-02	pCi/L	1	1
WD-PZ26C	Titanium	1.50E-03	1.10E-02	mg/L	2	2
WD-PZ26C	Uranium	1.20E-03	1.30E-03	mg/L	2	2
WD-PZ26C	Uranium-233/234	8.50E-01	8.50E-01	pCi/L	1	1
WD-PZ26C	Uranium-235/236	5.84E-02	5.84E-02	pCi/L	1	1
WD-PZ26C	Uranium-238	4.80E-01	4.80E-01	pCi/L	1	1
WD-PZ26C	Vanadium	5.20E-04	2.80E-03	mg/L	2	2
WD-PZ26C	Zinc	3.90E-03	7.90E-03	mg/L	2	2
WD-PZ27C	Chloroform	2.00E-01	2.00E-01	ug/L	1	1
WD-PZ28C	Acetone	4.80E+00	4.80E+00	ug/L	1	1
WD-PZ28C	Aluminum	5.90E-01	5.90E-01	mg/L	1	2
WD-PZ28C	Antimony	9.10E-04	9.10E-04	mg/L	1	2
WD-PZ28C	Arsenic	1.60E-03	1.60E-03	mg/L	1	2
WD-PZ28C	Barium	2.90E-02	8.60E-02	mg/L	2	2
WD-PZ28C	Beryllium	9.60E-05	9.60E-05	mg/L	1	2
WD-PZ28C	Bromodichloromethane	2.00E-01	2.00E-01	ug/L	1	1
WD-PZ28C	Calcium	1.80E+02	1.90E+02	mg/L	2	2
WD-PZ28C	Chloride	3.50E+01	3.50E+01	mg/L	1	1
WD-PZ28C	Chloroform	6.40E-01	6.40E-01	ug/L	1	1
WD-PZ28C	Chromium	1.40E-03	1.40E-03	mg/L	1	2
WD-PZ28C	Chromium, hexavalent	2.30E-02	2.30E-02	mg/L	1	2
WD-PZ28C	Cobalt	1.60E-03	5.40E-03	mg/L	2	2
WD-PZ28C	Copper	7.10E-03	1.90E-02	mg/L	2	2
WD-PZ28C	Dibromochloromethane	2.70E-01	2.70E-01	ug/L	1	1
WD-PZ28C	Fluoride	1.20E-01	1.20E-01	mg/L	1	1
WD-PZ28C	Iron	1.90E+00	2.10E+00	mg/L	2	2
WD-PZ28C	Lead	6.70E-04	6.70E-04	mg/L	1	2
WD-PZ28C	Lithium	1.10E-01	1.30E-01	mg/L	2	2
WD-PZ28C	Magnesium	1.30E+02	1.60E+02	mg/L	2	2
WD-PZ28C	Manganese	1.30E-01	2.10E-01	mg/L	2	2

Table A.8. PORTS Groundwater Data Summary

Station	Chemical	Min Detected Result	Max Detected Result	Units	Total Number of Detects	Total Number of Analyses
WD-PZ28C	Nickel	3.70E-03	1.30E-02	mg/L	2	2
WD-PZ28C	Potassium	2.20E+01	3.50E+01	mg/L	2	2
WD-PZ28C	Selenium	7.40E-04	7.40E-04	mg/L	1	2
WD-PZ28C	Sodium	5.60E+02	6.30E+02	mg/L	2	2
WD-PZ28C	Strontium	6.10E+00	6.20E+00	mg/L	2	2
WD-PZ28C	Sulfate	1.50E+03	1.50E+03	mg/L	1	1
WD-PZ28C	Thorium-228	5.95E-02	5.95E-02	pCi/L	1	1
WD-PZ28C	Thorium-230	5.03E-02	5.03E-02	pCi/L	1	1
WD-PZ28C	Thorium-232	4.53E-02	4.53E-02	pCi/L	1	1
WD-PZ28C	Titanium	7.60E-03	7.60E-03	mg/L	1	2
WD-PZ28C	Uranium	2.90E-04	1.70E-03	mg/L	2	2
WD-PZ28C	Uranium-233/234	2.70E-01	2.70E-01	pCi/L	1	1
WD-PZ28C	Uranium-238	1.47E-01	1.47E-01	pCi/L	1	1
WD-PZ28C	Vanadium	2.30E-03	2.30E-03	mg/L	1	2
WD-PZ28C	Zinc	7.40E-03	7.50E-03	mg/L	2	2

APPENDIX B: BORING AND WELL INSTALLATION LOGS

Table B.1. Boring Locations

Location	State Plane Easting	State Plane Northing	Surface Elevation (ft AMSL)	Total Depth	OSDC Study Area
WD-SB-01	1828758.0	368178.2	684.46	81	A
WD-SB-02	1828267.5	366383.8	659.28	52.7	A
WD-SB-03	1828821.1	365459.5	678.23	70.5	A
WD-SB-04	1829414.8	367449.2	712.24	70	A/C
WD-SB-05	1828963.4	366778.1	687.61	86	A
WD-SB-06	1829467.9	366312.9	710.01	70.2	A/C
WD-SB-07	1829287.2	365295.7	693.26	95	A/C
WD-SB-08	1829670.2	368264.5	726.13	127	A/C
WD-SB-09	1829740.5	367809.5	762.00	100	A/C
WD-SB-10	1829676.8	365610.4	750.81	130	A
WD-SB-11	1829315.7	368913.2	763.74	80	C
WD-SB-12	1829863.1	369493.3	687.32	70.4	C
WD-SB-13	1830262.2	368934.9	694.76	67	C
WD-SB-14	1829950.3	367429.6	754.90	125.9	C
WD-SB-15	1829823.6	366631.4	760.07	130	C
WD-SB-16	1830109.8	365997.5	772.57	100.3	C
WD-SB-17	1829932.6	365328.2	734.91	80	C
WD-SB-18	1825573.8	373166.0	663.72	70	B
WD-SB-19	1827182.3	373542.8	660.61	42	B
WD-SB-20	1825217.7	371994.3	669.57	70	B
WD-SB-21	1828084.1	371860.0	671.13	70	B
WD-SB-22	1829599.9	377829.7	687.60	37	D
WD-SB-23	1832140.7	377308.6	764.81	127	D
WD-SB-24	1831216.0	376785.4	747.37	144.3	D
WD-SB-25	1830381.4	375625.0	686.74	47	D
WD-SB-26	1830536.9	378311.0	702.83	57	D
WD-SB-27	1832292.6	378807.7	738.25	101.7	D
WD-SB-28	1831674.9	378525.2	751.84	110.9	D
WD-SB-29	1831259.8	378029.2	699.13	66.2	D
WD-SB-30	1832122.4	377837.8	751.84	148	D
WD-SB-31	1831356.6	377204.2	744.51	140.3	D
WD-SB-32	1830415.1	377031.8	721.85	77	D
WD-SB-33	1832855.4	376585.5	742.62	140	D
WD-SB-34	1830743.8	377806.4	728.05	86.5	D
WD-SB-35	1830090.0	376780.4	727.23	82	D
WD-SB-36	1831777.9	376675.5	752.48	120	D
WD-SB-37	1832588.2	377641.5	713.45	96.3	D

Table B.1. Boring Locations (Continued)

Location	State Plane Easting	State Plane Northing	Surface Elevation (ft AMSL)	Total Depth	OSDC Study Area
WD-SB-38	1831488.2	376302.9	772.71	63	D
WD-SB-39	1832400.2	376622.9	780.35	113	D
WD-SB-40	1832720.2	376907.6	747.54	78.3	D
WD-SB-41	1832342.6	376894.7	779.88	76.3	D
WD-SB-42	1830812.0	376721.3	757.46	83.5	D
WD-SB-43	1830816.8	375930.8	684.28	30.9	D
WD-SB-44	1830923.9	376260.7	703.23	33.4	D
WD-SB-45	1830817.3	376098.3	692.13	71.8	D
WD-SB-46	1831627.7	377356.0	752.57	85	D
WD-SB-47	1832404.1	377831.0	733.03	62.5	D
WD-SB-48	1832260.9	378057.9	759.60	87.1	D
WD-SB-49	1831698.4	379848.5	669.22	20	D
WD-SB-50	1829947.8	376702.3	694.82	30	D
WD-SB-51	1831026.0	378271.9	695.07	30.1	D
WD-SB-52	1831277.9	379307.0	666.64	10	D
WD-SB-53	1831473.4	377881.3	706.31	66	D
WD-SB-54	1831566.2	377811.4	710.77	40	D
WD-SB-55	1829586.9	376862.1	675.58	30	D
WD-SB-56	1829577.9	376038.0	730.53	46	D
WD-SB-57	1830809.1	377426.3	710.57	68	D
WD-SB-58	1830079.1	377140.5	685.77	30.1	D
WD-SB-59	1828497.8	375839.4	673.43	31	D
WD-SB-60	1827866.3	374337.5	635.65	10	D
WD-SB-61	1828828.4	378104.5	657.47	10	D
WD-SB-62	1829223.8	377444.2	690.00	30	D
WD-SB-63	1829711.6	377420.4	738.67	73.4	D
WD-SB-64	1830396.9	376395.9	750.49	65	D
WD-SB-65	1829417.3	376222.2	748.87	79	D
WD-SB-66	1830259.3	378924.1	675.18	10	D
WD-SB-67	1832842.0	376961.4	742.55	74.3	D
WD-SB-68	1828625.2	376528.6	679.93	10	D
WD-SB-69	1829322.4	375790.5	743.47	33	D
WD-SB-70	1827993.6	375071.7	642.05	30.3	D
WD-SB-71	1831824.3	376432.4	771.45	81.6	D
WD-SB-72	1833379.4	376956.5	772.74	111	D
WD-PZ01G	1828758.0	368178.2	684.46	50	A/C
WD-PZ02G	1828963.4	366778.1	687.61	54	A/C
WD-PZ03G	1828267.5	366383.8	659.28	26	A/C

Table B.1. Boring Locations (Continued)

Location	State Plane Easting	State Plane Northing	Surface Elevation (ft AMSL)	Total Depth	OSDC Study Area
WD-PZ04C	1829676.8	365610.4	750.81	130	A/C
WD-PZ05C	1830262.2	368934.9	694.76	67	C
WD-PZ06C	1829950.3	367429.6	754.90	126	C
WD-PZ07C	1829823.6	366631.4	760.07	130	C
WD-PZ08C	1830747.8	377813.5	728.62	48	D
WD-PZ09C	1831783.7	376658.9	754.03	117.05	D
WD-PZ10C	1830090.3	376782.0	727.70	43.1	D
WD-PZ11C	1832857.9	376593.8	742.64	67.7	D
WD-PZ12C	1831733.4	376116.1	748.70	73.5	D
WD-PZ13C	1832799.0	377781.3	702.81	66.4	D
WD-PZ14C	1830813.3	378538.3	695.39	48.35	D
WD-PZ15C	1832842.1	376974.5	741.91	74	D
WD-PZ16C	1830808.4	377434.8	710.66	68	D
WD-PZ17C	1831468.4	377869.4	706.48	66	D
WD-PZ18C	1832279.6	377582.2	765.95	NA	D
WD-PZ18CA	1832601.4	377592.7	712.74	NA	D
WD-PZ19C	1830929.6	376269.1	704.25	33	D
WD-PZ20C	1829943.2	376126.5	749.58	79	D
WD-MW01B	1830788.7	368269.4	729.77	132	C
WD-MW02B	1830663.1	366214.0	759.50	166	C
WD-MW03B	1831740.6	376123.5	748.74	144.3	D
WD-MW04B	1832793.3	377772.2	702.41	98.2	D
WD-MW05B	1830801.3	378535.0	695.69	80.4	D
WD-MW06B	1832855.4	376585.5	742.62	140	D
WD-MW07B	1830099.4	376786.4	728.29	NA	D

Notes:
State Plane coordinates are NAD 1983 State Plane Ohio South FIPS 3402 (ft).

AMSL = above mean sea level
FIPS = Federal Information Processing Standards
NA = not available
NAD = North American Datum
OSDC = on-site disposal cell

Table B.2. Monitoring Wells and Piezometers

Location	State Plane Easting	State Plane Northing	Datum (ft AMSL)	OSDC Study Area	Associated Boring Log
WD-PZ01G	1828758.0	368178.2	686.33	A	WD-SB-01
WD-PZ02G	1828963.4	366778.1	689.56	A	WD-SB-05
WD-PZ03G	1828267.5	366383.8	661.28	A	WD-SB-02
WD-PZ04C	1829676.8	365610.4	753.27	A/C	WD-SB-10
WD-PZ05C	1830262.2	368934.9	697.44	C	WD-SB-13
WD-PZ06C	1829950.3	367429.6	757.24	C	WD-SB-14
WD-PZ07C	1829823.6	366631.4	762.43	C	WD-SB-15
WD-PZ08C	1830747.8	377813.5	*731.05*/730.08	D	WD-SB-34
WD-PZ09C	1831783.7	376658.9	*756.34*/755.58	D	WD-SB-36
WD-PZ10C	1830090.3	376782.0	*729.76*/728.86	D	WD-SB-35
WD-PZ11C	1832857.9	376593.8	*745.78*/745.22	D	WD-SB-33
WD-PZ12C	1831733.4	376116.1	*751.34*/750.62	D	WD-MW03B
WD-PZ13C	1832799.0	377781.3	*705.42*/705.27	D	WD-MW04B
WD-PZ14C	1830813.3	378538.3	*698.39*/698.31	D	WD-MW05B
WD-PZ15C	1832842.1	376974.5	*743.89*/743.65	D	WD-SB-67
WD-PZ16C	1830808.4	377434.8	*712.69*/711.77	D	WD-SB-57
WD-PZ17C	1831468.4	377869.4	*708.31*/707.76	D	WD-SB-53
WD-PZ18C	1832279.6	377582.2	*768.48*/767.39	D	WD-SB-37
WD-PZ18CA	1832601.4	377592.7	*714.75*/714.30	D	WD-SB-37
WD-PZ19C	1830929.6	376269.1	*706.28*/705.54	D	WD-SB-44
WD-PZ20C	1829943.2	376126.5	*751.66*/751.22	D	WD-SB-65
WD-PZ23C	1830811.9	376721.7	759.00	D	WD-SB-42
WD-PZ24C	1831628.2	377356.4	754.93	D	WD-SB-46
WD-PZ25C	1832305.0	377872.5	735.33	D	WD-SB-47
WD-PZ26C	1832131.0	378113.6	762.05	D	WD-SB-48
WD-PZ27C	1831473.7	377881.8	708.57	D	WD-SB-53
WD-PZ28C	1833379.4	376956.5	774.00	D	WD-SB-72
WD-MW01B	1830788.7	368269.4	732.10	C	WD-MW01B
WD-MW02B	1830663.1	366214.0	762.04	C	WD-MW02B
WD-MW03B	1831740.6	376123.5	751.51	D	WD-MW03B
WD-MW04B	1832793.3	377772.2	705.76	D	WD-MW04B
WD-MW05B	1830801.3	378535.0	698.44	D	WD-MW05B
WD-MW06B	1832855.4	376585.5	745.38	D	WD-SB-33
WD-MW07B	1830099.4	376786.4	730.79	D	WD-SB-35

Notes:
State Plane coordinates are NAD 1983 State Plane Ohio South FIPS 3402 (ft).
Datum in italics is the initial open-borehole datum elevation (prior to conversion to 10-ft screened piezometer).

FIPS = Federal Information Processing Standards
AMSL = above mean sea level
NAD = North American Datum
OSDC = on-site disposal cell

LOG OF TEST PIT NO. WD-SB-01

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CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

Boring Location: As Shown on Plan

GRAPHIC LOG	DESCRIPTION Approx. Surface Elev.: 785 ft	DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY, in.	SAMPLES BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	TESTS DRY UNIT WT pcf	TESTS UNCONFINED STRENGTH, psf
▩	**FILL**, lean clay, with silt, few shale fragments at 1', brownish-yellow, very stiff			1	SS	24	6-7-7-6			8000*
▩	2.5 782.5									
▩	**FILL**, lean clay, few shale fragments at 1', brownish-yellow, very stiff			2	SS	18	4-4-6-8			7000*
▩		5		1	ST	24	PUSHED			
▩	7.5 777.5									
▨	**LEAN CLAY**, very pale brown, very stiff			3	SS	22	3-4-5-7			5000*
▨		10		4	SS	24	2-3-4-6			5000*
▨				5	SS	24	3-4-7-8			5000*
▨		15		2	ST	22	PUSHED			
▨	17.5 767.5									
▨	**LEAN CLAY**, gray, stiff -oxidized, desiccation cracks at 20.4', 21.6', 22.6' -oxidized zones at 22.6', 23.9'			6	SS	24	2-4-4-6			4000*
	Page 1 of 1	20								

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	∇ 43.0	WD	▼ 26.5 at 17 hrs
WL	▼ 27.5	AB	∇
WL			

Terracon

BORING STARTED			8-26-11
BORING COMPLETED			8-28-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

LOG OF TEST PIT NO. WD-SB-01

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CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: RECOVERY, in.	SAMPLES: BLOWS / 6in. (SPT - N)	TESTS: WATER CONTENT, %	TESTS: DRY UNIT WT pcf	TESTS: UNCONFINED STRENGTH, psf
	<u>LEAN CLAY</u>, gray, stiff -oxidized, desiccation cracks at 20.4', 21.6', 22.6' -oxidized zones at 22.6', 23.9'			7	SS	24	2-3-4-5			4000*
				8	SS	24	3-3-3-6			2000*
	▼ ▽	25		3	ST	24	PUSHED			
				9	SS	24	2-3-4-5			2000*
		30		10	SS	24	2-4-4-6			2000*
		35		4	ST	24	PUSHED			
		40								

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The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ 43.0	WD	▼ 26.5 at 17 hrs
WL	▼ 27.5	AB	▽
WL			

Terracon

BORING STARTED	8-26-11		
BORING COMPLETED	8-28-11		
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF TEST PIT NO. WD-SB-01

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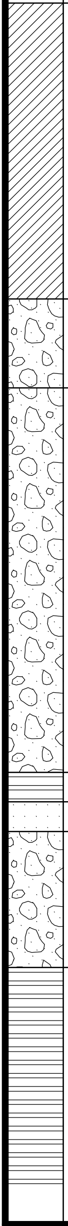
CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**



DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY, in.	SAMPLES BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	TESTS DRY UNIT WT pcf	TESTS UNCONFINED STRENGTH, psf	
LEAN CLAY, gray, stiff -oxidized, desiccation cracks at 20.4', 21.6', 22.6' -oxidized zones at 22.6', 23.9' -parting bedding, thin sand lens at 41.5' ∇ -driller noted hitting gravel at 43' 45 … 740			11	SS	24	3-3-3-6			2000*	
SANDY GRAVEL, coarse, gray, loose -hit water, came up to 27.5' -begin coring at 46.5' 46.5 … 738.5	45		12	SS	6	50/0.4'				
SANDY GRAVEL, with silt, dark gray, very dense -coarsening gravel 0.75-1", lightly oxidized, some weathered shale fragments			1	NQ	32.4	CORED				
53 … 732	50		2	NQ	30	CORED				
SHALE, black, very soft 53.5 … 731.5										
SANDSTONE, Berea, sharp contact, dark greenish-gray, very hard 54 … 731										
SANDY GRAVEL, cemented conglomerate, dark greenish gray 56.3 … 728.7	55		3	NQ	18	CORED				
			4	NQ	60	CORED				RQD=50%
	60									

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The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	∇ 43.0	WD	▼ 26.5 at 17 hrs
WL	▼ 27.5	AB	▼
WL			

Terracon

BORING STARTED			8-26-11
BORING COMPLETED			8-28-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF TEST PIT NO. WD-SB-01

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CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY, in.	SAMPLES BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	TESTS DRY UNIT WT pcf	TESTS UNCONFINED STRENGTH, psf	
	SHALE, sharp contact, trace sulfides, grayish-black, very soft -vertical fracture at 59.1' -multiple breaks from 1/4" to 2" at 56.3' to 58.3' -multiple breaks from 1/4" to 1.5" at 61.9' to 62.2' -breaks at 59', 59.2', 59.8', 60.4', 60.9', 61.2', 62.7', 63.7', 63.9'			5	NQ	60	CORED				RQD=78%
64.6	720.4										
	SANDSTONE, some crossbedding to thinly bedded, horizontal, sharp contact, Berea, light bluish-gray, very hard -break with very thin clay layer at 64.7', 70.7', and 72' -mechanical break at 68.5' -break at 70.1' -clay layer at 72.2'	65		6	NQ	60	CORED				RQD=100%
	-break with very thin clay layer at 72.3', 72.4', 72.5', 74.3', 74.9', 75.6', 75.8' -crossbedding at 74.9', 75.6', 76', 76.3', and 76.4'	70		7	NQ	60	CORED				RQD90%
	-break at 76.3', 76.4', 77.8' -break with very thin clay layer and crossbedding, sandstone at 78.9', 80', 80.1', and 80.4'	75		8	NQ	60	CORED				
	Page 1 of 1	80									

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	∇ 43.0	WD	▼ 26.5 at 17 hrs
WL	▼ 27.5	AB	∇
WL			

BORING STARTED			8-26-11
BORING COMPLETED			8-28-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF TEST PIT NO. WD-SB-01

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CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: RECOVERY, in.	SAMPLES: BLOWS / 6in. (SPT - N)	TESTS: WATER CONTENT, %	TESTS: DRY UNIT WT pcf	TESTS: UNCONFINED STRENGTH, psf
	81 704									
	Boring Completed at 81 ft.									

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ 43.0	WD	▼ 26.5 at 17 hrs
WL	▼ 27.5	AB	▽
WL			

Terracon

BORING STARTED	8-26-11		
BORING COMPLETED	8-28-11		
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-02

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CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

Boring Location: As Shown on Plan

Approx. Surface Elev.: 662 ft

DESCRIPTION	Depth, ft.	Elevation, ft
TOPSOIL, lean clay, plastic, cohesive, yellowish-brown, stiff to very stiff -grading to yellowish-red mottled gray at 2.5' -grading yellowish-brown, soft, with increasing silt at 3.6'	7.5	654.5
LEAN CLAY, with weathered shale fragments, cohesive, yellowish-brown mottled gray, very stiff -grading gray at 9'	10	652
LEAN CLAY, yellowish-brown, stiff -thin sand lens at 10.8' -grading red, medium plastic at 11.5' -grading pale brown with increasing silt, plastic at 12.5'	14	648
GRAVEL WITH SAND AND SILT, poorly graded, sharp contact, visual desiccation cracks, yellowish-red,	17.5	644.5
LEAN CLAY, plastic, cohesive, gray, stiff	20	642

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DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	TYPE	RECOVERY, in.	BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf	
		1	SS	20	4-5-5-6			6000*	
		2	SS	20	3-2-2-3				
5		1	ST		PUSHED				
		3	SS	19	3-4-7-9			7000*	
10		4	SS	21	3-4-5-7			4500*	
		5	SS	22	2-4-7-9			6000*	
15		2	ST	24	PUSHED				
		6	SS	24	2-2-4-5			4000*	
20									

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ N/E	WD	▼
WL	▼ N/E	AB	▽
WL			

Terracon

BORING STARTED			
BORING COMPLETED			
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-02

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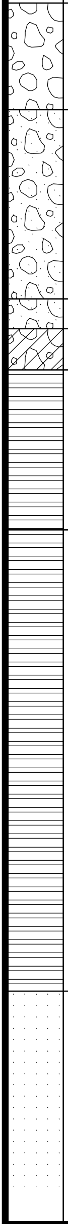
CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**



Depth	DESCRIPTION	Elevation
	GRAVEL, poorly graded, gray to black, medium dense -organic material noted at 21.5'	
21.8	**GRAVEL WITH SAND AND SILT**, poorly graded, gray, medium dense -grading to bluish-gray, dense at 23.2'	640.2
25		637
25.5	**GRAVEL**, poorly graded, rapid dilatency, gray, medium dense	636.5
26.2	**CLAYEY GRAVEL**, with shale fragments, slow dilatency, gray, medium dense	635.8
	SHALE, weathered, laminated, black, very stiff -grayish-black, stiff at 27' -55° fracture at 27.5' and 28.2' -break at 28.2', 28.4', 28.7', 28.9'	
28.9	**SHALE**, laminated, grayish-black, hard, dry -trace sulfides at 29.5' -breaks at 31.7', 34.2' -breaks at 35.4', 35.7', 35.9', 36.5'	633.1
36.7	**SANDSTONE**, fine grained, thinly bedded, trace sulfides, medium bluish-gray, hard -break at 41.2' -crossbedded at 42.9'	625.3

DEPTH, ft.	USCS SYMBOL	SAMPLES: NUMBER	TYPE	RECOVERY, in.	BLOWS / 6in. (SPT - N)	TESTS: WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf	
		7	SS	20	10-14-15-18				
		8	SS	20	19-34-36-39				
25		9	SS	24	16-18-20-44				
		1	NQ	25	CORED				RQD=20%
30		2	NQ	20	CORED				RQD=35%
		3	NQ	60	CORED				RQD=72%
35									
		4	NQ	57	CORED				RQD=91%
40									

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ N/E	WD	▼
WL	▼ N/E	AB	▽
WL			

Terracon

BORING STARTED			
BORING COMPLETED			
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-02

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG | DESCRIPTION | DEPTH, ft.

SANDSTONE, fine grained, thinly bedded, trace sulfides, medium bluish-gray, hard

-break at 41.2'
-crossbedded at 42.9'

44.6 — 617.4

INTERBEDDED SHALE AND SANDSTONE, medium bluish-gray, stiff

45.9 — 616.1

-shale is laminated, stiff
-sandstone has trace sulfides
-sandstone at 36.7'

46.8 — 615.2
47 — 615
47.8 — 614.2

INTERBEDDED SHALE AND SANDSTONE

SANDSTONE, crossbedded

INTERBEDDED SHALE AND SANDSTONE

SANDSTONE, fine grained, thinly bedded, trace sulfides, medium bluish-gray, hard

50.8 — 611.2

SANDSTONE, crossbedded

-break at 51.7' and 52.7', noted thin shale

53 — 609

Boring Completed at 52.7 ft.

Depth scale: 45, 50

	SAMPLES				TESTS			
USCS SYMBOL	NUMBER	TYPE	RECOVERY, in.	BLOWS / 6in. (SPT - N)	WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf	
	5	NQ	60	CORED				RQD=72%
	6	NQ	60	CORED				RQD=94%
	7	NQ	18	CORED				RQD=100%

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft				
WL	▽ N/E	WD	▼	
WL	▼ N/E	AB	▽	
WL				

Terracon

BORING STARTED			
BORING COMPLETED			
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-03**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**10-6-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-7-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION 678.0	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
FILL: MEDIUM STIFF, reddish yellow to yellowish red, slightly mottled, LEAN CLAY (CL), moist			1	SS			6		2.2				
			2	SS			14						
	3.8												
FILL: MEDIUM DENSE, brown, mottled, CLAYEY GRAVEL (GC), fine, little clay, trace silt, and fine sand, moist [Crushed shale fill]	5.5	5	1	ST						27	68	41	
MEDIUM DENSE, brownish yellow, FAT CLAY (CH), with occassional light gray, very fine sand lenses	8.0		3	SS			14						
STIFF, brownish yellow, SANDY SILT (ML), with trace fine gravel, moist	8.8												
MEDIUM STIFF, pale brown, FAT CLAY (CH)	9.5												
STIFF, light yellowish brown, LEAN CLAY (CL), with pockets of very fine sand and occassional silty sand partings		10	4	SS			11		2.5				
			5a	SS			47						Blow counts artificially high
			5b	SS			4						Only 1 blow count

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **28.0** ft.
▼ At Completion (in augers) ft.
▽ At Completion (open hole) ft.
▼ After hours ft.
▼ After hours ft.
▼ Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
BORING # **WD-SB-03**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-6-11**
Date Completed **10-7-11**
Drill Foreman **MS w/ M&W Drilling**
Inspector **P. Sudkamp**
Boring Method **HSA**
Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			2	ST						20	35	18	reading
STIFF, brownish yellow with mottled light brownish gray, LEAN CLAY (CL)	17.0		6	SS			12		2.0				
		20	7	SS			11						
			8	SS			26						
MEDIUM DENSE, reddish brown, SILTY SAND (SM), with sandstone fragments (present as fine to medium gravel)	23.1												
STIFF to VERY STIFF, yellowish brown, LEAN CLAY (CL)	23.8												
		25	3	ST						18	33	15	
MEDIUM DENSE, strong brown, SILTY SAND (SM), very fine to fine, wet	28.0		9	SS		●	25						2" thick sand/gravel seam

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **28.0** ft.
At Completion (in augers) ft.
At Completion (open hole) ft.
After hours ft.
After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-03**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-6-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-7-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			10	SS			23						
Transitions to mottled gray, with trace fine gravel		35	11	SS			15						
Transitions to gray, no gravel													
MEDIUM DENSE, gray, POORLY-GRADED SAND (SP), fine, wet	40.0	40	12	SS			27						
Light brown to grayish red, gravel fragments	44.0		1	RC			37%						Auger refusal at 44'. Start coring

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **28.0** ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-03**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-6-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-7-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
SOFT to MEDIUM, black and grayish black, SHALE, fresh, slightly fractured	45.2												
SOFT to MEDIUM, black to grayish black, with interbedded medium gray, SHALE, slightly weathered, slightly to moderately fractured	47.0		2	RC			51%						
		50											
SOFT to MEDIUM, black to grayish black, with interbedded medium gray, SHALE, slightly weathered to fresh, sound	52.0		3	RC			92%						
		55											
			4	RC			91%						
HARD, light gray with spotted medium gray,	59.3												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **28.0** ft.
▼ At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
▼ After ________ hours ________ ft.
▼ After ________ hours ________ ft.
▨ Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
BORING # **WD-SB-03**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-6-11**
Date Completed **10-7-11**
Drill Foreman **MS w/ M&W Drilling**
Inspector **P. Sudkamp**
Boring Method **HSA**
Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
SANDSTONE, fine to medium grained, fresh, sound	66.6	65	5	RC			92%						
MEDIUM to HARD, gray, sandy SHALE, very fine to fine grained, slightly weathered	67.4		6	RC			77%						
HARD, light gray with spotted medium gray, SANDSTONE, fine to medium grained, fresh, sound	68.2												
MEDIUM to HARD, gray, sandy SHALE, very fine to fine grained, slightly weathered	68.4												
HARD, light gray with spotted medium gray, SANDSTONE, fine to medium grained, fresh, sound	69.5	70											
MEDIUM to HARD, gray, sandy SHALE, very fine to fine grained, moderate to severely weathered, extremely to moderately fractured	70.3												
HARD, light gray with spotted medium gray, SANDSTONE, fine to medium grained, fresh, sound	70.5												Closure: 70 gallons grout, 5 bags pellets
BORING TERMINATED at 70.5 feet													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **28.0** ft.
At Completion (in augers) ft.
At Completion (open hole) ft.
After hours ft.
After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-04**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-7-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-8-11**	Hammer Drop	**30** in.
Drill Foreman	**SA w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil (2 inches)	0.2		1	SS		10		4.5				
STIFF, reddish-yellow, LEAN CLAY (CL), moist												
			2	SS		34		4.0				
	3.8											
VERY SOFT, pale brown, SHALE, weathered, with remnant laminations												
		5	1	ST					10	39	13	
			3	SS		50+						
		10	4	SS		50+						
Sandstone layer												
			5	SS		50+						
Dark reddish brown sandstone layer												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **30.2** ft.
At Completion (in augers) ft.
▽ At Completion (open hole) ft.
After hours ft.
▼ After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-04**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-7-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-8-11**	Hammer Drop	**30** in.
Drill Foreman	**SA w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			6	SS			50+						
	17.0												Auger refusal at 16.5'
SOFT, medium gray, SHALE, laminated			1	RC			36%						Start coring at 17 feet
0.1' thick, dark reddish brown sandstone		20											
0.3' thick, dark reddish brown sandstone													
			2	RC			82%						
0.2' thick, dark reddish brown sandstone		25											
			3	RC			100%						
0.1' thick, sandstone													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **30.2** ft.
At Completion (in augers) ft.
At Completion (open hole) ft.
After hours ft.
After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-04**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-7-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-8-11**	Hammer Drop	**30** in.
Drill Foreman	**SA w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
						●							
0.2' thick, sandstone													
			4	RC			98%						
0.1' thick, sandstone													
		35											
			5	RC			100%						
0.2' thick, sandstone, crossbedded													
		40											
			6	RC			100%						
0.6' thick, sandstone, crossbedded													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **30.2** ft.
At Completion (in augers) ft.
▽ At Completion (open hole) ft.
After hours ft.
▼ After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
BORING # **WD-SB-04**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-7-11**
Date Completed **10-8-11**
Drill Foreman **SA w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**
Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			7	RC			100%						
0.2' thick, sandstone													
		50											
			8	RC			100%						
0.2' thick, sandstone													
		55											
0.1' thick, siltstone													
0.1' thick, sandstone													
			9	RC			100%						
0.1' thick, sandstone													
0.1' thick, sandstone													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **30.2** ft.
At Completion (in augers) ft.
At Completion (open hole) ft.
After hours ft.
After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-04**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-7-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-8-11**	Hammer Drop	**30** in.
Drill Foreman	**SA w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick, sandstone													
			10	RC			100%						
0.2' thick, sandstone		65											
			11	RC			100%						
0.1' thick, sandstone													
BORING TERMINATED at 70 feet	70.0	70											Driller reports losing 255 gallons water during coring

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **30.2** ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ________ hours ________ ft.
After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

LOG OF BORING NO. WD-SB-05

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

Boring Location: As Shown on Plan

Approx. Surface Elev.: 680 ft

DEPTH (stratum)	DESCRIPTION	ELEV.	DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	TYPE	RECOVERY, in.	BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf
0.2	**SILTY TOPSOIL**	679.8			1	SS	24	3-4-5-4			
2.5	**FILL**, lean clay, trace roots, gravel, light brown -slight organic odor	677.5									
5	**LEAN CLAY**, little silt, slightly plastic, orange-brown, stiff	675			2	SS	16	2-5-5-8			5000*
	LEAN CLAY, little silt, trace fine sand, yellow-brown mottled gray, very stiff to hard		5		1	ST	24	PUSHED			
					3	SS	24	5-8-10-14			9000*
12.5		667.5	10		4	SS	24	3-5-7-8			7000*
	LEAN CLAY, trace silt, red-brown mottled gray, speckled black -grading to fat clay, highly plastic -trimmed top 2" for wax seal				5	SS	20	4-6-8-10			
17.5		662.5	15		2	ST	24	PUSHED			
20	**FAT CLAY**, orange-brown, stiff -at 18.3', 30° overturned with fine sand inclusion at 18.4' of 1 mm, light gray, fine sand lens	660			6	SS	24	5-7-7-9			
			20								

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ 33.0	WD	▼
WL	▼ N/E	AB	▽
WL			

BORING STARTED			8-23-11
BORING COMPLETED			8-25-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-05

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CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

Depth	DESCRIPTION	Elev.
	FAT CLAY, trace to little silt, orange-brown, very stiff	
21		659
	-grading lean clay with depth -interbedded fine medium dense silty sand and very stiff fine sand at 21-21.8'	
23.5	**SILT**, trace to little fine to medium gravel, trace clay	656.5
24	**FAT CLAY**, moderate to high plasticity, trace medium gravel, brown, stiff to very stiff	656
25		655
	LEAN GRAVELLY CLAY, little silt, trace to little sand, fine to medium gravel, orange brown	
	LEAN TO FAT CLAY, trace to little silt	
27.5	**LEAN CLAY**, little silt	652.5
27.8	**LEAN CLAY**, some silt, orange-brown, very stiff	652.2
30		650
	GRAVEL, little silt, fine sand	
31		649
	FAT CLAY, little to some silt, trace concretions and silt, trace sandstone fragments, trace fine to medium gravel ▽	
35		645
	CLAYEY SILT, trace fine clay	
37		643
	CLAYEY SILT, trace fine sand, yellow-brown, very stiff	
40		640

Page 1 of 1

		SAMPLES				TESTS		
DEPTH, ft.	USCS SYMBOL	NUMBER	TYPE	RECOVERY, in.	BLOWS / 6in. (SPT - N)	WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf
		7	SS	24	4-6-8-10			
		8	SS	24	3-6-12-13			6000*
25		3	ST	24	PUSHED			
		9	SS	24	4-8-12-12			9000*
30		10	SS	24	6-9-8-12			
		11	SS	24	4-7-7-9			4000*
35		4	ST	19	PUSHED			
		12	SS	24	6-9-12-16			3000*
40								

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ 33.0	WD	▼
WL	▼ N/E	AB	▽
WL			

Terracon

BORING STARTED			8-23-11
BORING COMPLETED			8-25-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-05

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

Depth	DESCRIPTION	Elevation
41	**SANDY SILT**, fine, some fine to medium gravel, sandstone fragments, little clay, reddish-brown, very stiff	639
45	**SILT**, some clay, few fine sand lenses, brown	635
50.5	**SANDY SILT**, trace fine to medium gravel, sandstone fragments, gray, very stiff	629.5
51.5	**SAND**, fine to coarse, some fine gravel, trace silt, gray and brown, dense	628.5
55	**SANDY SILT**, trace clay and gravel, gray, very stiff	625
55.8	**SHALE**, silty, horizontally thinly bedded, light becoming dark gray	624.2
57	**SHALE**, with sandstone fragments, medium to completely fractured, gray -noted soft, dark gray with thin horizontal bedding at 56-57'	623

DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY, in.	SAMPLES BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	TESTS DRY UNIT WT pcf	TESTS UNCONFINED STRENGTH, psf	
		13	SS	24	8-9-13-14			2000*	
45		14	SS	24	6-7-10-16				
50		15	SS	24	4-12-28-24				
55		16	SS	10	25-50/4"				
		1	NQ	7	CORED				RQD=0%
		2	NQ	59	CORED				RQD=75%
60									

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ 33.0	WD	▼
WL	▼ N/E	AB	▽
WL			

BORING STARTED	8-23-11		
BORING COMPLETED	8-25-11		
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-05

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CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG (depth)	DESCRIPTION	Elevation
65.2	**SHALE**, fresh, thin to medium horizontal bedded, black, soft -part open horizontal fractures at 57.3-57.4' -slightly weathered, smooth planar 25° fracture at 58.8-58.9' -fresh, extremely fractured 25°-35° joint with horizontal fracturing at 59.8-60.3' -fresh, horizontal fracture zone at 61.8' -extremely fractured 70° joint, partially to fully healed at 62.4-63' -fresh mechanical break at 63.3' -55° extremely fractured joint with horizontal fractures at 63.8-64.2'	614.8
69.7	**SHALE AND MUDSTONE**, highly to completely weathered, extremely fractured, black, very soft -fresh, tight, smooth planar fractures at 66.5', 66.8', and 67' -becoming hard -extremely fractured, partially healed 70° joint with horizontal and vertical fracturing at 67.3-67.7' -partly weathered, open horizontal fractures at 68.75', 68.9', and 69.5'	610.3
76.6	**SANDSTONE**, transition plane from Sunbury to Galea, thinly bedded, fine grained, gray, medium hard to hard -no fractures from 69.7'-72.3' -slightly weathered (discolored) open to moderately wide 0°-5° fracture at 74.4', 75.1', and 75.4'	603.4
78.8	**CLAYEY SHALE**, highly weathered, extremely fractured, bluish-gray, very soft -fresh fractures at 2" to 3" spacing at 77-77.7' -slightly weathered, open horizontal fracture at 78.35'	601.2

Page 1 of 1

DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	TYPE	RECOVERY, in.	BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf	
		3	NQ	56	CORED				RQD=59%
65									
		4	NQ	62	CORED				RQD=76%
70									
		5	NQ	59	CORED				RQD=84%
75									
		6	NQ	60	CORED				RQD=72%
80									

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ 33.0	WD	▼
WL	▼ N/E	AB	▽
WL			

Terracon

BORING STARTED			8-23-11
BORING COMPLETED			8-25-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-05

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: RECOVERY, in.	SAMPLES: BLOWS / 6in. (SPT - N)	TESTS: WATER CONTENT, %	TESTS: DRY UNIT WT pcf	TESTS: UNCONFINED STRENGTH, psf	
	SILTY SHALE, completely weathered, gray, very soft										
82	-moderately weathered, open, horizontal fracture at 80.2-80.4'	598									
82.2	-0°-15° cross bedding at 80.9-81.8' -15° fresh, tight fracture at 81.2'	597.8		7	NQ	49	CORED				RQD=69%
	SANDSTONE, thinly bedded, fine grained, moderately fractured to sound, gray, medium hard to hard -15° slightly weathered fracture with clay/silt coated surfaces at 82'	85									
86		594									
	CLAYEY SHALE, highly weathered, very soft to soft -fresh, tight, horizontal fracture at 83.5' -15°moderately weathered, moderately wide joint/overturned bedding plane at 84' -fresh, part open to moderately wide, horizontal fractures at 84.25-84.5' -extremely fractured, slightly weathered, horizontal joint, 1" typical fracture spacing at 85.25-85.7' -slightly weathered fracture at 86'										
	Boring Completed at 86 ft.										

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft				BORING STARTED	8-23-11		
WL	▽ 33.0	WD	▼	BORING COMPLETED	8-25-11		
WL	▼ N/E	AB	▽	RIG	Track	FOREMAN	MWD
WL				LOGGED	EM	JOB #	N1115229

Terracon

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

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513-782-6908

TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-06**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**10-8-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-9-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION 711.0	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
STIFF, reddish yellow and brown, SILT (ML), with roots, dry	2.5		1	SS			11			13	38	13	Offset boring 22' ENE from stake.
Light brown, SHALE, fragmented, sandy, highly oxidized	2.8		2	SS			15			12	43	15	Lab test results from bucket sample B006BU03.0-05.0
STIFF, light brown, SANDY SILT with GRAVEL (ML), dry	4.8												
Yellowish red, SHALE, fragmented, sandy	5.0	5											
VERY SOFT, gray to brownish yellow, SHALE, completely weathered, few fine sand partings, dry			3	SS			50/5"						
			4	SS			50/4"						
	10.0												
SOFT, brown and yellowish brown, SHALE, completely weathered, extremely fractured	10.9	10	1	RC			0%						Auger refusal at 10'. Start coring
SOFT, gray to light gray, SHALE, moderately weathered, moderately fractured	12.0												
SOFT, gray to light gray, SHALE, severely weathered, completely fractured	13.0		2	RC			47%						
SOFT to MEDIUM, medium gray, SHALE, fresh to slightly weathered, slightly fractured, very fine grained													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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513-782-6908

TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-06**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-8-11**
Date Completed **10-9-11**
Drill Foreman **MS w/ M&W Drilling**
Inspector **P. Sudkamp**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			3	RC			64%						Lost 20-30 gallons of water per 5' rock core for remainder of boring
SOFT to MEDIUM, greenish gray, SHALE, slightly weathered, slightly fractured, very fine grained	19.4	20											
HARD, very pale orange, SANDSTONE, fresh, fine grained	21.8 21.9		4	RC			81%						
SOFT to MEDIUM, medium gray, SHALE, slightly weathered, slightly fractured, very fine grained	23.0 23.2												
HARD, pale yellowish brown, SANDSTONE, fine grained													
SOFT to MEDIUM, dark gray, SHALE, slightly weathered, slightly fractured, very fine grained		25											
HARD, pale yellowish brown, SANDSTONE, fine grained	26.7 26.8		5	RC			69%						
SOFT to MEDIUM, medium gray, CLAYEY SHALE, slightly weathered, slightly fractured													
HARD, dark yellowish orange, CLAY (possible filled joint)	28.6 28.8												
SOFT to MEDIUM, medium gray, CLAYEY SHALE,													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT- Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-06**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-8-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-9-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
slightly weathered, slightly fractured	30.9												
HARD, dark yellowish orange, CLAY (possible filled joint)	31.1												
SOFT to MEDIUM, medium gray, CLAYEY SHALE, slightly weathered, slightly fractured	32.0		6	RC			100%						
SOFT to MEDIUM, medium gray, CLAYEY SHALE, slightly weathered becoming fresh, sound		35											
	37.2		7	RC			91%						
HARD, dusty yellow, SANDSTONE, fresh, fine grained	37.4												
SOFT to MEDIUM, medium gray, SHALE, slightly weathered, sound, very fine grained	40.0	40											
HARD, dusty yellow becoming light gray, SANDSTONE, fresh, fine grained	40.6												
SOFT to MEDIUM, medium gray, SHALE, slightly weathered, sound, very fine grained, thinly interbedded			8	RC									
0.2' thick: HARD, light gray, SANDSTONE, fresh, fine grained													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC
11121 Canal Rd.
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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-06**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-8-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-9-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick: HARD, dusty yellow and light olive gray, SANDSTONE, fresh, fine grained 0.2' thick: HARD, dusty yellow and light olive gray, SANDSTONE, fresh, fine grained													
0.2' thick: HARD, dusty yellow and light olive gray, SANDSTONE, fresh, fine grained			9	RC			90%						
		50											
0.3' thick: HARD, dusty yellow and light olive gray, SANDSTONE, fresh, fine grained	52.3		10	RC			98%						
SOFT to MEDIUM, light to dark gray, SHALE, slightly weathered, sound, very fine to fine grained, thinly to thickly interbedded													
0.2' thick: HARD, dusty yellow and light olive gray, SANDSTONE, fresh, fine grained	55.0	55	11	RC			100%						
MEDIUM, medium light to medium dark gray, SHALE, sound, fresh, very fine grained, thinly to thickly bedded													
0.2' thick: HARD, dusty yellow and light olive gray, SANDSTONE, fresh, fine grained			12	RC			100%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

Page **4** of **5**

ATC

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
BORING # **WD-SB-06**
PROJECT NAME **PORTS OSDC**
JOB # **072.41944.0001**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-8-11**
Date Completed **10-9-11**
Drill Foreman **MS w/ M&W Drilling**
Inspector **P. Sudkamp**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			13	RC		99%						
0.1' thick: HARD, dusty yellow and light olive gray, SANDSTONE, fresh, fine grained		65										
MEDIUM to SOFT, medium light to medium dark gray, SHALE, slightly weathered, sound, very fine grained, thinly to thickly bedded	67.0		14	RC		100%						
0.1' thick: HARD, dusty yellow and light olive gray, SANDSTONE, fresh, fine grained	70.2	70										
BORING TERMINATED at 70.2 feet												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

LOG OF BORING NO. WD-SB-07

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

Boring Location: As Shown on Plan

Approx. Surface Elev.: 749.4 ft

GRAPHIC LOG (depth, ft.)	DESCRIPTION	Elev., ft
1	**TOPSOIL**, clayey becoming sandy, with gravel and organic matter	748.4
2	**SILT**, trace clay and fine sand, light brown	747.4
4	**SILT**, some fine sand, trace concretions, brown and gray, medium stiff	745.4
8	**FAT CLAY**, trace to little silt, brown and gray, very stiff to hard -noted decomposed horizontally bedded shale, sticky and plastic when wet, crumbled with hard strength	741.4
10	**SHALE**, severely weathered to completely weathered	739.4
12	**SHALE**, oxidized completely to severely weathered fragments, and sandstone lens, gray and brown	737.4
17	**SANDY SHALE**, highly weathered, brown, very soft to soft, with iron staining, thinly bedded -angular fracture at 12.7-13' -bedding at 12.7', 13.1', 13.4', 13.5', 14.5', 15.2', 15.5', 16.1', 16.6', highly fractured -angular fracture 14.1-14.7'	732.4

DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	TYPE	RECOVERY, in.	BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf	
		1	SS	24	2-2-3-6			2000*	
		2	SS	24	4-4-8-9			9000*	
5		3	SS	24	8-13-21-23				
		4	SS	24	15-20-25-32				
10		5	SS	11	8-24-50/5"				
		1	NQ	55	CORED				RQD=62%
15									
		2	NQ	60	CORED				RQD=48%
20									

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ N/E	WD	▼
WL	▼ N/E	AB	▽
WL			

Terracon

BORING STARTED			8-27-11
BORING COMPLETED			8-27-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-07

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CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

Depth	Elevation	DESCRIPTION	SAMPLES NUMBER	TYPE	RECOVERY, in.	BLOWS / 6in. (SPT - N)	WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf	
		SHALE, highly weathered, fissile, thinly bedded, brown, soft to very soft								
22	727.4	-highly fractured at 19.1-19.5' with vertical fractures -some gray mottling with oxidation staining -bedding fractures at 17.2', 18.55', 18.8', 19.9', 20.3', 21.2', and 21.9' -20° fracture at 17.6', 17.9', 18.1' **SHALE**, gray, soft -grading to hard, tan to gray sandstone at 23.3' -vertical bedding to 24' then gray shale thinly bedded, soft to very soft to 25.8' then	3	NQ	60	CORED				RQD=74%
27	722.4	fractured sandstone to 25.95' then medium gray shale -bedding fracture at 22.25', 22.3', 22.8', 23.3', 24.3' -angular at 24', 25', and 25.9-26.2' -highly fractured sandstone at 23.25-23.5' and 25.8' **SHALE**, thinly bedded, highly weathered, gray, very soft	4	NQ	60	CORED				RQD=81%
32	717.4	-vertical fractures at 27-27.25' -70° fracture at 35.535.7' -bedding fractures 27.2', 27.8', 28.2', 28.9', 29.5', 30.5', 31.0', 31.8', 31.9' **SHALE**, gray, very soft -thinly bedded to 33.1', becoming medium shale to 33.6', then hard tan sandstone to 33.7', then medium gray shale to 36.5', then grayish-tan sandstone to 36.6' -bedding fractures at 32.7', 33.3', 33.55',	5	NQ	55	CORED				RQD=68%
37	712.4	33.7', 34.2', 34.5' -angular stair step fracture between 34.8' and 34.9' -crescent fracture at 34.4' and 34.7'	6	NQ	60	CORED				RQD=46%

Depth scale, ft.: 25, 30, 35, 40

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ N/E	WD	▼
WL	▼ N/E	AB	▽
WL			

BORING STARTED	8-27-11		
BORING COMPLETED	8-27-11		
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

LOG OF BORING NO. WD-SB-07

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CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG	DESCRIPTION		DEPTH, ft.	USCS SYMBOL	SAMPLES				TESTS			
					NUMBER	TYPE	RECOVERY, in.	BLOWS / 6in. (SPT - N)	WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf	
42	**SHALE**, weathered, gray, soft -thinly bedded to 37.1', then thin sandstone layer to 37.15', then soft gray shale to 40.3', then gray laminated siltstone/sandstone to 40.8', then soft gray shale to 41.6', then gray siltstone/sandstone to 41.9', then soft gray shale to 42' -bedding fractures at 37.7', 38.2', 39.2', 39.4', 39.9', 40.2', 40.8', 41.4', 41.6', 41.9' -vertical fracture through shale at 38.2'-39.9' -vertical fracture in siltstone/sandstone at 40.9-41.2' from coring	707.4	45		7	NQ	60	CORED				RQD=100%
47	**SHALE**, thinly bedded, highly weathered, gray, soft -hard sandstone lenses at 43-43.1', 43.7-43.85', and 45.1-45.25' -bedding fractures at 43.1', 43.85', 45', and 45.3' -vertical fracture between 42.9-43.7' -highly fractured at 45.3-45.7'	702.4	50		8	NQ	55	CORED				RQD=89%
52	**MUDSTONE**, medium gray -at 47.7 becoming gray shale, soft, thinly bedded to 51', then medium tan sandstone to 51.15', then soft gray shale to 51.6' -bedding fracture at 47.1', 50.95' -mechanical fracture at 50.1'	697.4	55		9	NQ	60	CORED				RQD=100%
57	**SHALE**, thinly bedded, gray, soft -at 55.4' becoming soft gray shale to 57' -mechanical fracture at 55.4-55.4' -higher clay content at 56.2-57', soft outer rind on core	692.4	60		10	NQ	60	CORED				RQD=93%

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft				BORING STARTED	8-27-11		
WL	∇ N/E	WD	▼	BORING COMPLETED	8-27-11		
WL	▼ N/E	AB	∇	RIG	Track	FOREMAN	MWD
WL				LOGGED	EM	JOB #	N1115229

Terracon

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-07

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CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

DESCRIPTION		DEPTH, ft.	USCS SYMBOL	SAMPLES				TESTS			
				NUMBER	TYPE	RECOVERY, in.	BLOWS / 6in. (SPT - N)	WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf	
SHALE, thinly bedded, gray, soft -clay outer rind on core to 60.2' -transitioning into Sunbury shale, dark gray, organic shale -bedding fracture at 57.5', 58.4', 58.65', and 61.45' -mechanical fracture at 59.7' and 60.8'	62 / 687.4										
SHALE, highly organic, Sunbury, thinly bedded, dark gray, medium hard -mechanical fracturing at top probably due to coring to 62.15', and at 66.2-66.3' -bedding fractures at 63.55', 65.45', and 66.3' -mechanical fracture at 64.4'	67 / 682.4	65		11	NQ	55	CORED				RQD=83%
SHALE, highly organic, Sunbury, thinly bedded, dark gray, medium hard -losing water at 25 gal./5 ft. -bedding fracture at 67.2', 67.6', and 71.25' -mechanical fracture at 70.05' -highly fractured at top of core, probably done by core barrel -had to pick up 0.5' of shale to clean out core barrel, at 72'	72 / 677.4	70		12	NQ	60	CORED				RQD=96%
SHALE, highly organic, Sunbury, thinly bedded, dark gray, soft to medium hard -bedding fracture at 72.4', 73.55', 76.8', and 76.85' -mechanical break at 75.4' and 73.7'	77 / 672.4	75		13	NQ	60	CORED				RQD=95%
		80		14	NQ	60	CORED				RQD=100%

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft				
WL	▽ N/E	WD	▼	
WL	▼ N/E	AB	▽	
WL				

BORING STARTED			8-27-11
BORING COMPLETED			8-27-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

LOG OF BORING NO. WD-SB-07

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG	DESCRIPTION		DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY, in.	SAMPLES BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	TESTS DRY UNIT WT pcf	TESTS UNCONFINED STRENGTH, psf	
82	**SHALE**, highly organic, thinly bedded, dark gray, soft to medium, then gray siltstone/sandstone, hard, massive (10" between laminae)	667.4										
87	-bedding fracture at 78.55' and 79.3' (contact between Sunbury and Berea) **SANDSTONE**, massive, gray, hard -medium bedding to 86.6' then soft gray shale/mudstone to 87' -bedding fracture at 4.6' -angular fracture 20° at 4.7' -mechanical break at 81.35'	662.4	85		15	NQ	60	CORED				RQD=92%
90	NOTE: Blew seal on water line to core barrel. Abbreviated core run to 3 ft. **SANDSTONE**, gray, hard -transitioning to soft gray shale at 87.95'	659.4			16	NQ	33	CORED				RQD=60%
92	thinly bedded to 88.3', then hard gray sandstone to 89.45', then thinly bedded soft gray shale to 89.8' -bedding fractures at 87.95', 88.4', 88.65' -angular fractures 60° at 88.3-88.4'	657.4	90		17	NQ	24	CORED				RQD=100%
95	**SANDSTONE**, fine grained, medium bedded, light gray, medium hard to hard -no fractures **SANDY SHALE**, medium gray, soft -transitioning to light gray hard siltstone/sandstone at 92.1 with medium	654.4			18	NQ	34	CORED				RQD=50%
	bedding to 93.0', then becoming thinly bedded to 93.2', then soft gray sandy shale, very muddy to 93.35', then hard gray sandstone, thin laminae with hamtite to 94.45', then soft gray mudstone/shale to 94.6', then hard gray sandstone to 95' -bedding fractures at 92.05', 92.10', 92.75', 92.86', 93.17', 93.32', 93.53', 94.45', 94.58', 94.71', 94.81' Boring Completed at 95 ft.		95									

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ N/E	WD	▼
WL	▼ N/E	AB	▽
WL			

Terracon

BORING STARTED			8-27-11
BORING COMPLETED			8-27-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

ATC
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513-782-6908

TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-08**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION 728.0	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil (2 inches)	0.2		1	SS			7			25	42	13	Elevation estimated
STIFF, yellowish brown, SILT (ML), moderately plastic, moist	2.5												
VERY STIFF, yellowish brown, LEAN CLAY (CL), moderately plastic, slightly fissured, fine to coarse sand lenses, sandstone fragments, dry			2	SS			19		4.5+				
	5.5	5	1	ST									
HARD, brownish yellow, SANDY SILT with GRAVEL (ML), dry [Completely weathered SHALE]			3	SS			39			12	36	11	Lab test results from bucket sample B008BU05.0-09.0
	9.0		4	SS			56						
0.5' thick: Completely weathered, reddish yellow to strong brown, SANDSTONE fragments	9.5												
HARD, brownish yellow, SANDY SILT with GRAVEL (ML), dry [Completely weathered SHALE]	12.0	10											Auger refusal at 11.5'. Start coring
SANDSTONE fragments (washed out)	13.0		1	RC			74%						
VERY SOFT to SOFT, yellowish gray becoming pale yellowish brown, SHALE, moderately to slightly weathered, slightly fractured, very fine grained 0.5' thick: HARD, moderate brown, SANDSTONE,													

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater

● Noted on Drilling Tools ______ ft.
▼ At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
▼ After ______ hours ______ ft.
▼ After ______ hours ______ ft.
▨ Cave Depth ______ ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-08**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-10-11**
Date Completed **10-11-11**
Drill Foreman **MS w/ M&W Drilling**
Inspector **P. Sudkamp**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
slightly weathered													
HARD, moderate brown, SANDSTONE, slightly weathered	16.6		2	RC			77%						
VERY SOFT to SOFT, yellowish gray, medium gray and pale yellowish brown, SHALE, moderately to slightly weathered, moderately fractured to sound, very fine grained, thick to medium bedding 0.6' thick: HARD, moderate brown, SANDSTONE, slightly weathered 0.3' thick: HARD, moderate brown, SANDSTONE, slightly weathered 0.3' thick: HARD, moderate brown, SANDSTONE, slightly weathered	17.5	20											
SHALE becomes predominately medium gray		25	3	RC			92%						
VERY SOFT to SOFT, medium dark gray, SHALE, fresh to slightly weathered, sound, very fine grained 0.1' thick: HARD, light olive gray, SANDSTONE seam, fine grained 0.1' thick: HARD, light olive gray, SANDSTONE	27.0		4	RC			99%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-08**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
seam, fine grained													
0.1' thick: HARD, light olive gray, SANDSTONE seam, fine grained													
SHALE becomes dark gray			5	RC			98%						
0.1' thick: HARD, light olive gray, SANDSTONE seam, fine grained		35											
	37.0												
MEDIUM, grayish black, SHALE, fresh to slightly weathered, sound, very fine grained			6	RC			97%						
1/2" thick: SANDSTONE lens													
1/2" thick: SANDSTONE lens		40											
1/2" thick: SANDSTONE lens													
SHALE becomes medium dark gray			7	RC			100%						
1/2" to 1" thick: SANDSTONE lens													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After ______ hours ______ ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-08**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
1/2" to 1" thick: SANDSTONE lens													
1/2" to 1" thick: SANDSTONE lens													
1/2" to 1" thick: SANDSTONE lens			8	RC			96%						
1/2" to 1" thick: SANDSTONE lens													
0.1' thick: HARD, light olive brown, SANDSTONE seam, fine grained													
0.1' thick: HARD, light olive brown, SANDSTONE seam, fine grained													
0.1' thick: HARD, light olive brown, SANDSTONE seam, fine grained		50											
			9	RC			100%						
0.1' thick: HARD, light olive brown, SANDSTONE seam, fine grained													
0.2' thick: HARD, dusty yellow, SANDSTONE seam, fine grained		55											
0.3' thick: HARD, dusty yellow, SANDSTONE seam, fine grained	56.8												
HARD, light olive brown becoming light olive gray, SANDSTONE, fresh, fine grained	57.2		10	RC			99%						
MEDIUM, dark gray becoming medium dark gray, SHALE, fresh, very fine to fine grained, with medium light gray sand partings													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT- Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-08**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			11	RC			100%						
0.2' thick: Dusty yellow, SANDSTONE seam													
0.2' thick: Dusty yellow, SANDSTONE seam													
		65											
			12	RC			99%						
0.1' thick: Dusty yellow, SANDSTONE seam													
0.2' thick: Light olive gray, SANDSTONE seam													
		70											
0.2' thick: Light olive gray, SANDSTONE seam SHALE becomes medium dark gray			13	RC			100%						
0.1' thick: Light olive gray, SANDSTONE seam													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After ______ hours ______ ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

11121 Canal Rd.
Cincinnati, Ohio 45241
513-771-2112
513-782-6908

TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-08**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick: Light olive gray, SANDSTONE seam	77.0												
MEDIUM, dark gray with gray partings, SHALE, fresh, very fine to fine grained			14	RC			96%						
0.2' thick: Light olive gray, SANDSTONE seam		80											
0.2' thick: Light olive gray, SANDSTONE seam													
			15	RC			99%						
0.1' thick: Light olive gray, SANDSTONE seam													
0.2' thick: Light olive gray, SANDSTONE seam		85											
0.1' thick: Light olive gray, SANDSTONE seam	87.0												
MEDIUM HARD, dark gray to dark greenish gray, SHALE, fresh, sound, very fine grained			16	RC			95%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-08**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.2' thick: Light olive gray, SANDSTONE seam SHALE becomes slightly weathered			17	RC			100%						
MEDIUM to MEDIUM HARD, black, SHALE, fresh, sound, carbonaceous, with pyrite partings and inclusions	93.2												
		95											
SHALE begins to contain less pyrite			18	RC			98%						
		100											
SHALE becomes fresh to slightly weathered			19	RC			100%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
▼ At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
▼ After _______ hours _______ ft.
▼ After _______ hours _______ ft.
▨ Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-08**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-10-11**
Date Completed **10-11-11**
Drill Foreman **MS w/ M&W Drilling**
Inspector **P. Sudkamp**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
	107.0												
MEDIUM HARD, black, SHALE, fresh, sound, with semi-frequent pyrite partings and inclusions			20	RC			100%						
			21	RC			100%						
	112.5												
HARD, medium gray, SANDSTONE, fresh, sound, fine grained, occasional medium dark gray partings and seams													
			22	RC			82%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-08**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-10-11**
Date Completed **10-11-11**
Drill Foreman **MS w/ M&W Drilling**
Inspector **P. Sudkamp**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.2' thick: Medium dark gray, SHALE seam	120.4												
Undulating, interbedded SHALE and SANDSTONE, 1/2" to 3/4" beds.	121.2												
HARD, medium gray, SANDSTONE, fresh, sound, fine grained, occasional medium dark gray partings and seams	122.0		23	RC			98%						
MEDIUM HARD to HARD, medium gray becoming dark greenish gray, SHALE, fresh, sound, fine to very fine grained	123.6												
HARD, medium blueish gray, SHALE, fresh, sound	127.0												
BORING TERMINATED at 127 feet													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
▼ At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
▼ After ______ hours ______ ft.
▼ After ______ hours ______ ft.
▨ Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

LOG OF BORING NO. WD-SB-09

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

Boring Location: As Shown on Plan

Approx. Surface Elev.: 761.75 ft

DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: RECOVERY, in.	SAMPLES: BLOWS / 6in. (SPT - N)	TESTS: WATER CONTENT, %	TESTS: DRY UNIT WT pcf	TESTS: UNCONFINED STRENGTH, psf
<u>LEAN CLAY</u>, cohesive, reddish-yellow, soft			1	SS	17	1-1-2-4			1000*
2.5 — 759.3									
<u>LEAN CLAY</u>, cohesive, light brownish-gray, hard			2	SS	23	2-5-7-10			7000*
4.5 — 757.3									
<u>LEAN CLAY</u>, with weathered shale, very pale brown, hard	5		1	ST	21	PUSHED			
			3	SS	10	21-50/0.3'			
10 — 751.8	10								
<u>SANDY SHALE</u>, highly weathered, grayish-brown, hard			4	SS	11	28-50/0.35'			
12.5 — 749.3									
<u>SANDY SHALE</u>, highly weathered, brownish-gray, laminated -oxidation at 16'			5	SS	12	28-50/0.45'			
	15		6	SS	12	28-50/0.4'			
17.5 — 744.3									
<u>SHALE</u>, highly weathered, brownish-gray, laminated -reddish-yellow at 18'			7	SS	12	28-50/0.4'			
	20								

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ N/E	WD	▼
WL	▼ N/E	AB	▽
WL			

Terracon

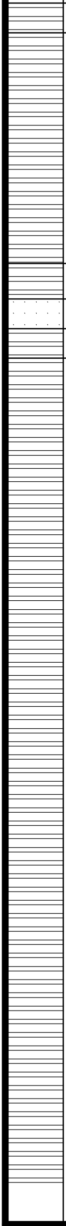
BORING STARTED			8-25-11
BORING COMPLETED			8-25-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-09

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**



DESCRIPTION

20.5 — 741.3

SHALE, laminated, medium gray, soft

-oxidized zones at 20.8', 23.5'
-vertical fracture at 21'
-fractures at 21.3', 21.7' 30° horizontal and vertical, 21.8' 20° with oxidized zone

24.4 — 737.4

25 — 736.8 **SHALE**, highly weathered, yellowish-brown, soft

25.5 — 736.3 **SANDSTONE**, moderate reddish-brown to moderate yellow, hard

-10° fractures at 25', 25.1', and 25.2'

26 — 735.8 **SHALE**, indurated clay, highly weathered, laminated, yellowish-brown, soft

SHALE, laminated, dark gray, soft, with interbedded sandstone 44.1' to 63.2', thinly bedded to cross bedded, gray, hard
-vertical fracture at 26.3' and 43.2'
-45° fracture with iron stain at 26.5' and 28.7'
-breaks at 27.3', 27.8', 32.5', 33.7', 34.9', 35.3', 35.6', 36.4', 36.6', 37.6', 39.3', 40.8'
-75° fracture with iron stain at 29.6'
-10° fracture with iron stain at 30'
-20° fracture at 30.8'
-mechanical break at 35.6'

DEPTH, ft.: 25, 30, 35, 40

USCS SYMBOL	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY, in.	SAMPLES BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	TESTS DRY UNIT WT pcf	TESTS UNCONFINED STRENGTH, psf	
	8	SS	6	50/0.45'				
	1	NQ	48	CORED				RQD=88%
	2	NQ	24	CORED				RQD=80%
	3	NQ	60	CORED				RQD=93%
	4	NQ	60	CORED				RQD=92%
	5	NQ	60	CORED				RQD=98%

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ N/E	WD	▼
WL	▼ N/E	AB	▽
WL			

Terracon

BORING STARTED			8-25-11
BORING COMPLETED			8-25-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-09

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG

DESCRIPTION

SHALE, laminated, dark gray, soft, with interbedded sandstone 44.1' to 63.2', thinly bedded to cross bedded, gray, hard

-breaks at 41.4', 41.5', 41.6', 41.9', 43.1', 43.3', 44.5', 45.9', 49.2', 50.6', 51.3', 51.5', 52', 52.5', 53.7', 53.8', 54.8', 55.1', 55.6', 55.8', 56.1', 57.2', 58.1', 58.5', 60.4'
-break with oxidized zone, reddish-brown at 46.1' to 47'
-vertical fracture, break, iron stain at 47', 48.5', 52.1', 54.9', 55.6', 57.9'
-break, oxidized zone at 47.5' to 47.8', 52'-52.5', 55.6' to 55.8'
-highly weathered clay at 49.7'

Page 1 of 1

DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY, in.	SAMPLES BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	TESTS DRY UNIT WT pcf	TESTS UNCONFINED STRENGTH, psf	
45		6	NQ	60	CORED				RQD=84%
50		7	NQ	60	CORED				RQD=82%
55		8	NQ	60	CORED				RQD=92%
60		9	NQ	58	CORED				RQD=94%

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	∇ N/E	WD	▼
WL	▼ N/E	AB	∇
WL			

Terracon

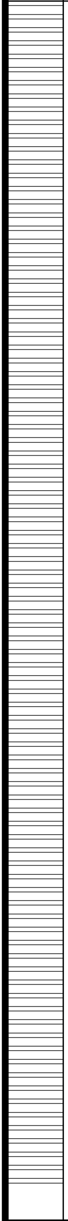
BORING STARTED			8-25-11
BORING COMPLETED			8-25-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-09

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**



DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY, in.	SAMPLES BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	TESTS DRY UNIT WT pcf	TESTS UNCONFINED STRENGTH, psf	
SHALE, laminated, dark gray, soft, with interbedded sandstone 44.1' to 63.2', thinly bedded to cross bedded, gray, hard										
			10	NQ	60	CORED				RQD=100%
-breaks at 64.7', 68.8', 70.7', 72.1', 72.3', 74.7', 75.9', 79.2' -manmade break at 67.7' and 80.4' -0.1' to 0.15' sandstone layers at 64.9', 66.4', 68.7', 70.8' 72.1', 72.3', 74.6', 75.7', 77.4', 79.1'	65									
			11	NQ	60	CORED				RQD=100%
	70									
			12	NQ	60	CORED				RQD=96%
	75									
			13	NQ	60	CORED				RQD=100%
	80									

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	∇ N/E	WD	▼
WL	▼ N/E	AB	∇
WL			

BORING STARTED			8-25-11
BORING COMPLETED			8-25-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-09

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: RECOVERY, in.	SAMPLES: BLOWS / 6in. (SPT - N)	TESTS: WATER CONTENT, %	TESTS: DRY UNIT WT pcf	TESTS: UNCONFINED STRENGTH, psf	
	SHALE, laminated, dark gray, soft, with interbedded sandstone 44.1' to 63.2', thinly bedded to cross bedded, gray, hard										
				14	NQ	60	CORED				RQD=100%
	-0.1' to 0.2' sandstone layers at 81.8', 83.6', 85.8', 87.7', 90.8', 92.9', 93.6', 94.1', 94.9', and 99.8' -manmade breaks at 83.6', 85.1', 85.9' -breaks at 86.45', 87.6', 93.2', 95.1', 96' -highly fractured at 89.6' and 89.8' -vertical fracture at 92.9'	85									
				15	NQ	59	CORED				RQD=93%
		90									
				16	NQ	60	CORED				RQD=100%
		95									
				17	NQ	42	CORED				RQD=94%
	100 661.8	100									

Page 1 of 1

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ N/E	WD	▼
WL	▼ N/E	AB	▽
WL			

BORING STARTED			8-25-11
BORING COMPLETED			8-25-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

LOG OF BORING NO. WD-SB-09

Page 1 of 1

CLIENT **Fluor-B&W Portsmouth, LLC**	ELEVATION REFERENCE **Provided by Project Surveyor**
SITE **Portsmouth Gaseous Diffusion Plant** **Piketon, Ohio**	PROJECT **Fluor B&W Portsmouth-OSDC Lab Testing**

GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY, in.	SAMPLES BLOWS / 6in. (SPT - N)	TESTS WATER CONTENT, %	TESTS DRY UNIT WT pcf	TESTS UNCONFINED STRENGTH, psf	
	Boring Completed at 100 ft.										

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft			
WL	▽ N/E	WD	▼
WL	▼ N/E	AB	▽
WL			

Terracon

BORING STARTED			8-25-11
BORING COMPLETED			8-25-11
RIG	Track	FOREMAN	MWD
LOGGED	EM	JOB #	N1115229

BOREHOLE 99 N1115229 TEST BORING LOGS.GPJ HCNTERRACON021309.GDT 2/17/12

ATC

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513-782-6908

TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-10 (aka WD-PZ04C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-8-11**
Date Completed **6-9-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil (3 inches)	0.3												
MEDIUM STIFF, reddish brown, LEAN CLAY (CL), moist	2.5		1	SS			5						
Light reddish brown, SANDSTONE fragments	5.0		2	SS			19						
SOFT, reddish-yellow, SHALE, weathered, with basal partings and reddish brown sandstone fragments		5	3	SS			50			13	39	13	
	10.0		4	SS			50/0.4'						
Brownish-yellow, SHALE, weathered, friable, fissile	12.5	10	5	SS			50/0.4'			9	38	13	Lab test results from bucket sample Z004BU08.0-12.0
Gray, SHALE, weathered, with red oxidation staining	15.0		6	SS			50/0.3'						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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11121 Canal Rd.
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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-10 (aka WD-PZ04C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-8-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-9-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Light brownish gray, SHALE, weathered, oxidized	17.5		7	SS			50/0.2'						
Brownish gray, SHALE, weathered, crumbly, fissile	20.0		8	SS			50/0.3'						
Gray then brown, SHALE, weathered, crumbly, dry	22.5	20	9	SS			50/0.4'						
Gray, SHALE, fissile, some oxidation staining, wet	25.0		10	SS			50/0.4'						
Gray, SHALE, crumbly, fissile, dry	26.5	25	11	SS			50/0.3'						
Gray, SHALE, weathered, not very competant, with SILTSTONE laminae			1	RC			66%						Auger refusal at 26'. Begin coring.

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-10 (aka WD-PZ04C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-8-11**
Date Completed **6-9-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			2	RC			81%						
SHALE becoming yellowish brown, fissile													
		35											
SHALE becoming gray with red oxidation staining			3	RC			79%						
		40											
SILTSTONE laminae becoming pale orange			4	RC			88%						
SILTSTONE laminae becoming reddish brown SHALE is clay-like consistency													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-10 (aka WD-PZ04C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-8-11**
Date Completed **6-9-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Light gray, SILTSTONE	46.7 47.1		5	RC			80%						
Gray, SHALE, with SILTSTONE laminae													
		50											
			6	RC			96%						
		55											
0.1' thick: Pale orange, SILTSTONE													
			7	RC			90%						
0.1' thick: Pale orange, SILTSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-10 (aka WD-PZ04C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**6-8-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-9-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick: Pale orange, SILTSTONE													
			8	RC			92%						
		65											
	66.5												
Gray, SHALE, with pale orange, SILTSTONE laminae			9	RC			88%						
0.1' thick: Pale orange, SILTSTONE													
		70											
0.2' thick: Pale orange, SILTSTONE													
			10	RC			85%						
0.1' thick: Pale orange, SILTSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
▼ At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
▼ After _______ hours _______ ft.
▼ After _______ hours _______ ft.
▼ Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-10 (aka WD-PZ04C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-8-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-9-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Gray, SHALE, with pale brown, SILTSTONE laminae	76.8		11	RC			100%						
0.2' thick: Pale brown, SILTSTONE		80											
SILTSTONE laminae becoming light gray			12	RC			92%						
0.1' thick: Pale brown, SILTSTONE													
0.1' thick: Light gray, SILTSTONE		85											
			13	RC			100%						
0.2' thick: Pale brown, SILTSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-10 (aka WD-PZ04C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-8-11**
Date Completed **6-9-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick: Pale brown, SILTSTONE													
			14	RC			94%						
		95											
			15	RC			94%						
Gray, SHALE, with pale orange, SILTSTONE laminae	97.1												
		100											
			16	RC			97%						
0.2' thick: Pale orange, SILTSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-10 (aka WD-PZ04C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-8-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-9-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.2' thick: Pale orange, SILTSTONE			17	RC			100%						
0.2' thick: Pale orange, SILTSTONE													
			18	RC			90% +						
			19	RC			99%						
	118.0												
Light gray to medium bluish gray, SILTSTONE	118.5												
Sunbury SHALE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-10 (aka WD-PZ04C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-8-11**
Date Completed **6-9-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			20	RC			100%						
			21	RC			98%						
	130.0												
BORING TERMINATED at 130 feet													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-11**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-5-11**
Date Completed **10-6-11**
Drill Foreman **SA w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil (3 inches)	0.2		1	SS			15						
STIFF, reddish yellow, LEAN CLAY (CL), with sandstone seams, dry	2.5												
HARD, very pale brown, LEAN CLAY (CL), with sandstone seams, dry	4.6		2	SS			35						
VERY SOFT, very pale brown, SHALE, weathered, with remnant laminations 0.2' thick: SANDSTONE seam		5	3	SS			48			9	34	11	Lab test results from bucket sample B011BU05.0-07.0
			4	SS			50/0.2'						
		10	5	SS			50/0.3'						
0.2' thick: SANDSTONE seam			6	SS			50/0.3'						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After **24** hours **35.2** ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-11**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**10-5-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-6-11**	Hammer Drop	**30** in.
Drill Foreman	**SA w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			7	SS			50/0.4'						
			8	SS			50/0.4'						
		20	9	SS			50/0.2'						
	23.0												
VERY SOFT, medium gray, SHALE, weathered, laminated			1	RC			67%						Auger refusal at 23'. Start coring
0.2' thick: Dark yellowish orange, SANDSTONE													
>0.1' thick: Moderate reddish brown, SANDSTONE		25											
			2	RC			62%						
>0.1' thick: SANDSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After **24** hours **35.2** ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-11**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-5-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-6-11**	Hammer Drop	**30** in.
Drill Foreman	**SA w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick: Dark yellowish orange, SANDSTONE													
			3	RC			98%						
0.1' thick: Pale olive, SANDSTONE		35				▽							
0.1' thick: Pale olive, SANDSTONE													
			4	RC			100%						
		40											
			5	RC			82%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
▽ At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
▽ After **24** hours **35.2** ft.
▼ After ______ hours ______ ft.
▨ Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-11**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-5-11**
Date Completed **10-6-11**
Drill Foreman **SA w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
>0.1' thick: Pale olive, SANDSTONE													
0.2' thick: SANDSTONE													
0.1' thick: SANDSTONE													
			6	RC			76%						
0.5' thick: Dark yellowish orange, SANDSTONE, crossbedding													
0.3' thick: Pale olive, SANDSTONE													
0.2' thick: SANDSTONE													
		50											
0.2' thick: SANDSTONE													
			7	RC			72%						
0.2' thick: SANDSTONE													
	53.0												
HARD, pale olive to dark reddish brown, SANDSTONE, thinly bedded with some crossbedding													
	54.4												
VERY SOFT, medium gray, SHALE, weathered, laminated													
		55											
0.2' thick: Moderate reddish brown, SANDSTONE													
			8	RC			100%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT- Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After **24** hours **35.2** ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-11**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-5-11**
Date Completed **10-6-11**
Drill Foreman **SA w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			9	RC			100%						
0.1' thick: SANDSTONE													
		65											
			10	RC			100%						
		70											
			11	RC			100%						
0.1' thick: SANDSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ____ ft.
At Completion (in augers) ____ ft.
At Completion (open hole) ____ ft.
After **24** hours **35.2** ft.
After ____ hours ____ ft.
Cave Depth ____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-11**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**10-5-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-6-11**	Hammer Drop	**30** in.
Drill Foreman	**SA w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			12	RC			100%						
BORING TERMINATED at 80 feet		80											
		85											

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After **24** hours **35.2** ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-12**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**10-4-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-5-11**	Hammer Drop	**30** in.
Drill Foreman	**SE w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil with gravel (5 inches)	0.4		1	SS			8						
FILL: MEDIUM STIFF to STIFF, dark yellowish brown with black staining, LEAN CLAY (CL), moist													
LEAN CLAY becomes yellowish brown			2	SS			9						
LEAN CLAY becomes very dark gray													
		5	1	ST						20	42	21	
	7.5												
VERY STIFF, reddish yellow, LEAN CLAY (CL), moist			3	SS			23			21	41	16	Lab test results from bucket sample B012BU07.5-09.5
	10.0	10											
MEDIUM STIFF, reddish yellow, LEAN CLAY (CL), moist			4	SS			8						
	12.5												
STIFF, reddish yellow to light grayish olive, LEAN CLAY (CL), moist			5	SS			9						
	15.0												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **31.7** ft.
▼ At Completion (in augers) ____ ft.
▽ At Completion (open hole) ____ ft.
▼ After ____ hours ____ ft.
▼ After ____ hours ____ ft.
▨ Cave Depth ____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-12**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-4-11**
Date Completed **10-5-11**
Drill Foreman **SE w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
MEDIUM STIFF to STIFF, reddish yellow, FAT CLAY (CH), moist			2	ST						31	55	30	
			6	SS			10						
		20	7	SS			15						
FAT CLAY becomes pale yellow	21.5												
SOFT, yellow to red, SANDSTONE, highly friable, fine to coarse grained, moist	23.0												
VERY STIFF, pale brown, LEAN CLAY (CL), moist			8	SS			26						
		25	3	ST						20	35	15	
	27.5												
VERY STIFF, olive yellow, SILTY CLAY (CL-ML), moist 0.2' thick: SANDSTONE			9	SS			17						
	30.0												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **31.7** ft.
At Completion (in augers) ft.
▽ At Completion (open hole) ft.
After hours ft.
▼ After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-12**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-4-11**
Date Completed **10-5-11**
Drill Foreman **SE w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
STIFF, pale olive, SILT (ML), moist			10	SS		●	15						
VERY DENSE, yellow, SILTY GRAVEL with SAND (GM), fine to coarse, wet	35.0	35	11	SS			51						Not able to push tube
SOFT, medium gray, SHALE, laminated 0.2' thick: SANDSTONE	38.8	40	1	RC			100%						Auger refusal at 38.5'. Start coring
			2	RC			98%						
0.2' thick: SANDSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools 31.7 ft.
At Completion (in augers) ft.
At Completion (open hole) ft.
After hours ft.
After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-12**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-4-11**
Date Completed **10-5-11**
Drill Foreman **SE w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick: Soft, weathered SHALE/CLAY													
			3	RC			98%						
0.1' thick: SANDSTONE													
0.1' thick: Weathered SHALE/CLAY	48.8												
SOFT, grayish black, SHALE, laminated, sulfide inclusions													
		50											
			4	RC			100%						
		55											
			5	RC			100%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **31.7** ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-12**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-4-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-5-11**	Hammer Drop	**30** in.
Drill Foreman	**SE w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			6	RC									
		65											
			7	RC									
HARD, light bluish gray, SANDSTONE, thinly bedded, with sulfides at contact	68.5												
		70											
BORING TERMINATED at 70.4 feet	70.4												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **31.7** ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-13 (aka WD-PZ05C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**6-9-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-10-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION 694.8	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil (1/2 inch)	0.1		1	SS			10						
STIFF, grayish brown with some orange mottling, SILT (ML), moist	1.0												
HARD, brown, SILT (ML), friable, some rock fragments, evidence of basal parting, very fissile, dry	5.0		2	SS			55						
SOFT or VERY SOFT, SHALE, weathered, basal parting, fissile, oxidation staining, dry	10.0	5	3	SS			50/0.3'						
			4	SS			50/0.3'						
SOFT, gray, SHALE, weathered, basal parting, oxidation staining, dry [Broken down sample tested as LEAN CLAY (CL) per USCS]		10	5	SS			50/0.4'			10	40	16	
			6	SS			50/0.3'						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-13 (aka WD-PZ05C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-9-11**
Date Completed **6-10-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			7	SS			50/0.3'						
Clay and rock fragments	16.5		1	RC									Auger refusal at 16.5'. Start coring
Clay and rock fragments, becoming more weathered SHALE, basal parting	18.5												
		20											
Gray, SHALE, weathered	21.5												
			2	RC			56%						
0.4' thick: Pale orange, SILTSTONE													
		25											
0.2' thick: SILTSTONE													
SHALE becomes medium gray			3	RC			100%						
Gray, SHALE, with light gray laminae	28.8												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-13 (aka WD-PZ05C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-9-11**
Date Completed **6-10-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Gray, SHALE	31.4												
			4	RC			94%						
Gray, SHALE, with medium and light gray laminae	33.4												
		35											
Gray, SHALE	36.3												
Pale orange, SILTSTONE	37.5		5	RC			78%						
Light and medium gray, SILTSTONE, with SHALE laminae	38.5												
		40											
Alternating medium and light gray, SHALE / SILTSTONE laminae, some basal parting	42.0		6	RC			98%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After ________ hours ________ ft.
After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-13 (aka WD-PZ05C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-9-11**
Date Completed **6-10-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.2' thick: Pale orange, SILTSTONE	45.4												
Gray, SHALE, some SILTSTONE laminae													
			7	RC			100%						
		50											
0.2' thick: Pale orange, SILTSTONE													
			8	RC			94%						
0.2' thick: Pale orange, SILTSTONE													
		55											
			9	RC			98%						
0.1' thick: Pale orange, SILTSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-13 (aka WD-PZ05C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**6-9-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-10-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
	60.8												
0.2' thick: Pale orange, SILTSTONE													
SOFT, greenish gray, SHALE													
	62.5		10	RC									
Sunbury SHALE													
		65											
	67.0												
BORING TERMINATED at 67 feet													
		70											

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After ______ hours ______ ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-14 (aka WD-PZ06C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-3-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-7-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil (3 inches)	0.3		1	SS			6		0.5				
Gravel seam (4 inches)	0.6												
MEDIUM STIFF, brownish yellow, LEAN CLAY (CL), trace gravel, moist													
STIFF, brownish yellow, LEAN CLAY (CL), with red oxidation staining, moist	2.8		2	SS			14		4.5+				
Very pale brown, SHALE, weathered, basal partings, dry [Broken down sample tested as LEAN CLAY (CL) per USCS]	5.2	5	3	SS			32		4.5+				No Shelby tube pushed
			4	SS			45		4.5+				
		10	5	SS			50/0.4'		4.5+	13	40	15	Lab test results from bucket sample P006BU08.0-14.0
			6	SS			50/0.4'		4.5+				

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
▼ At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
▼ After ______ hours ______ ft.
▼ After ______ hours ______ ft.
▨ Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-14 (aka WD-PZ06C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-3-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-7-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			7	SS			50/0.3'		4.5+				
	17.5												
Gray, SHALE, weathered, dry			8	SS			50/0.1'		4.5+				
SHALE starts to contain basal partings		20	9	SS			50/0.4'						
			10	SS			63						
		25	11	SS			50/0.3'						
			12	SS			50/0.4'						
	30.0												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
▼ After ______ hours ______ ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-14 (aka WD-PZ06C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-3-11**
Date Completed **6-7-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Gray, SHALE, weathered, fissile, dry			13	SS			50/0.4'						
		35	14	SS			50/0.3'						
		40											
	40.6												
Gray, SHALE, weathered, with fractures along bedding planes, medium laminae			1	RC			54%						Auger refusal at 40.6'. Start coring

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-14 (aka WD-PZ06C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-3-11**
Date Completed **6-7-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			2	RC			79%						
Gray, SHALE, competent	50.0	50											
			3	RC			74%						
		55											
			4	RC			79%						
0.1' thick: Pale orange, SILTSTONE													
0.1' thick: Pale orange, SILTSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-14 (aka WD-PZ06C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-3-11**
Date Completed **6-7-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			5	RC			95%						
0.1' thick: Tan, SILTSTONE													
		65											
0.1' thick: Tan, SILTSTONE			6	RC			100%						
		70											
			7	RC			94%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After ______ hours ______ ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-14 (aka WD-PZ06C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-3-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-7-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			8	RC			92%						
0.2' thick: SILTSTONE laminae													
0.3' thick: SILTSTONE laminae													
0.1' thick: SILTSTONE laminae													
0.6' thick: SILTSTONE laminae		80											
			9	RC			100%						
0.1' thick: Tan, SILTSTONE		85											
			10	RC			84%						
0.5' thick: Gray, SANDSTONE													

Sample Type
- SS - Driven Split Spoon
- ST - Pressed Shelby Tube
- CA - Continuous Flight Auger
- RC - Rock Core
- CU - Cuttings
- CT - Continuous Tube
- SPT - Standard Penetration Test

Depth to Groundwater
- ● Noted on Drilling Tools _______ ft.
- At Completion (in augers) _______ ft.
- ▽ At Completion (open hole) _______ ft.
- ▼ After ________ hours ________ ft.
- ▼ After ________ hours ________ ft.
- Cave Depth ________ ft.

Boring Method
- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- DC - Driving Casing
- MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-14 (aka WD-PZ06C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-3-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-7-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			11	RC		92%						
0.2' thick: Light gray, SILTSTONE												
0.2' thick: SILTSTONE												
		95										
0.5' thick: SILTSTONE												
			12	RC		100%						
0.3' thick: Tan, SILTSTONE												
		100										
			13	RC		100%						
0.6' thick: Gray, SILTSTONE												
0.2' thick: Tan, SILTSTONE	102.6											
Gray, SILTSTONE, with thin SHALE laminae												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-14 (aka WD-PZ06C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-3-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-7-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			14	RC			95%						
0.2' thick: Tan, SILTSTONE with SANDSTONE laminae													
Gray, SHALE	110.9		15	RC			100%						
0.2' thick: Tan, SILTSTONE with SANDSTONE laminae													
0.1' thick: Tan, SILTSTONE with SANDSTONE laminae													
			16	RC			99%						
0.5' thick: Light gray, SILTSTONE, laminated													
Alternating, thin, SILTSTONE and SHALE laminae	118.9												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After ________ hours ________ ft.
After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-14 (aka WD-PZ06C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-3-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-7-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics	Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			17	RC										
Gray green, SILTSTONE with SANDSTONE laminae	121.3													
Sunbury SHALE	123.3													
BORING TERMINATED at 125.9 feet	125.9													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-15 (aka WD-PZ07C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**5-26-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-2-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
SOFT, brown, LEAN CLAY (CL), moist			1	SS			3						
	2.5		2	SS			16						
VERY STIFF, SILT (ML), friable, dry to moist													
		5	1	ST						18	46	17	
	7.3												
Gray, SHALE/MUDSTONE, weathered			3	SS			50						
	10.0	10											
Gray, SHALE, weathered, fissile, friable, dry			4	SS			50/0.3'						
	12.0												
Gray, SHALE, weathered, fissile, not competent, dry			5	SS			50/0.4'						
	15.0												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-15 (aka WD-PZ07C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio** **Piketon, Ohio**	DRAWN BY	**AMC**
		APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**5-26-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-2-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Brownish gray, SHALE, fissile, with some red oxidation staining, dry			6	SS			50/0.3'						
SHALE becoming tan to brown			7	SS			50/0.4'						
SHALE becoming gray 0.3' thick: Red, MUSDTONE/SILTSTONE, massive (non-fissile), dry		20	8	SS			50/0.3'						
Gray, MUDSTONE/SHALE, with basal partings, dry	22.5		9	SS			50/0.4'						
		25	10	SS			50/0.3'						
	28.0		11	SS			50/0.4'						
Gray, SHALE, fissile, dry													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT- Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
▼ At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
▽ After ________ hours ________ ft.
▼ After ________ hours ________ ft.
▨ Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-15 (aka WD-PZ07C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**5-26-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-2-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			12	SS			50/0.2'						
Gray, SHALE, fractured, with red oxidation staining, with basal partings	32.3												Auger refusal at 32.3'. Start coring
			1	RC			42%						
		35											
SHALE becoming more competent with depth			2	RC			40%						
0.3' thick: SANDSTONE													
		40											
Gray, SHALE, sound, with little to some basal parting	41.0		3	RC			100%						

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater

● Noted on Drilling Tools _______ ft.
▼ At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
▼ After _______ hours _______ ft.
▼ After _______ hours _______ ft.
▨ Cave Depth _______ ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-15 (aka WD-PZ07C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**5-26-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-2-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			4	RC			98%						
		50											
			5	RC									
		55											
			6	RC			92%						
0.2' thick: some laminae (possibly SILTSTONE or SANDSTONE)													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-15 (aka WD-PZ07C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**5-26-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-2-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			7	RC			88%						
0.1' thick: Tan to brown, SILTSTONE													
		65											
			8	RC			96%						
0.1' thick: SILTSTONE													
		70											
			9	RC			97%						
0.2' thick: SILTSTONE													
0.1' thick: SILTSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-15 (aka WD-PZ07C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**5-26-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-2-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			10	RC			94%						
0.1' thick: SILTSTONE lens													
0.1' thick: SILTSTONE lens													
		80											
			11	RC			96%						
0.2' thick: SILTSTONE													
0.1' thick: SILTSTONE													
0.1' thick: SILTSTONE													
		85											
			12	RC			98%						
0.2' thick: Tan, SILTSTONE													

Sample Type
- SS - Driven Split Spoon
- ST - Pressed Shelby Tube
- CA - Continuous Flight Auger
- RC - Rock Core
- CU - Cuttings
- CT - Continuous Tube
- SPT - Standard Penetration Test

Depth to Groundwater
- ● Noted on Drilling Tools _______ ft.
- ▼ At Completion (in augers) _______ ft.
- ▽ At Completion (open hole) _______ ft.
- ▼ After _______ hours _______ ft.
- ▼ After _______ hours _______ ft.
- ▼ Cave Depth _______ ft.

Boring Method
- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- DC - Driving Casing
- MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
BORING # **WD-SB-15 (aka WD-PZ07C)**
PROJECT NAME **PORTS OSDC**
JOB # **072.41944.0001**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **5-26-11**
Date Completed **6-2-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			13	RC		100%						
0.2' thick: Storm sequence, Tan SILTSTONE with scour and rip up clast 0.4' thick: Gray, SILTSTONE												
		95										
Gray, SHALE, competent	96.0		14	RC								
0.2' thick: SILTSTONE		100										
0.1' thick: SILTSTONE			15	RC		100%						
0.1' thick: Tan, SILTSTONE												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-15 (aka WD-PZ07C)**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**5-26-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-2-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.2' thick: SILTSTONE													
			16	RC			98%						
0.1' thick: SILTSTONE													
0.2' thick: Very pale brown, SILTSTONE													
0.1' thick: SILTSTONE													
			17	RC			100%						
0.2' thick: Tan, SILTSTONE													
			18	RC			93%						
0.2' thick: Tan, SILTSTONE/SANDSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-15 (aka WD-PZ07C)**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**5-26-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-2-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			19	RC			63%						
Gray, SHALE, transitioning to dusky yellow green SHALE with gravel in matrix	126.0		20	RC			78%						
BORING TERMINATED at 130 feet	130.0												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After ______ hours ______ ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-16**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil (1 inch)	0.1		1	SS		11		3				
STIFF, reddish yellow, LEAN CLAY (CL), dry	1.3											
Gravel fragments	1.8											
VERY SOFT, yellow, SHALE, weathered, remnant laminations												
			2	SS		20			11	42	17	
		5	3	SS		43			13	46	18	Lab test results from bucket sample B016BU05.0-07.0
			4	SS		39						
0.1' thick: Reddish brown, SANDSTONE												
		10	5	SS		50/0.2'						
VERY SOFT, reddish yellow, SHALE, weathered, remnant laminations	10.5		1	RC		0%						Auger refusal at 10.5'. Start coring
			2	RC		56%						
0.1' thick: SANDSTONE												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools 34.1 ft.
At Completion (in augers) ft.
▽ At Completion (open hole) ft.
After hours ft.
▼ After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

Page **1** of **7**

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-16**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-10-11**
Date Completed **10-11-11**
Drill Foreman **M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			3	RC			50%						
0.1' thick: Dark reddish brown, SANDSTONE													
		20											
			4	RC			74%						
VERY SOFT, medium gray, SHALE, weathered, remnant laminations	24.4												
		25											
VERY SOFT, dark yellowish orange, SHALE, weathered, remnant laminations 0.8' thick: Dark reddish brown, SANDSTONE	26.7												
			5	RC			86%						
0.1' thick: SILTSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **34.1** ft.
At Completion (in augers) ft.
At Completion (open hole) ft.
After hours ft.
After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-16**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-10-11**
Date Completed **10-11-11**
Drill Foreman **M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.2' thick: SANDSTONE													
0.2' thick: SANDSTONE													
			6	RC			96%						
						●							
		35											
0.2' thick: SANDSTONE													
			7	RC			100%						
0.1' thick: SANDSTONE													
1.3' thick: SANDSTONE interbedded													
		40											
0.1' thick: SANDSTONE													
			8	RC			100%						
0.1' thick: SANDSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **34.1** ft.
At Completion (in augers) ft.
▽ At Completion (open hole) ft.
After hours ft.
▼ After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-16**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.2' thick: SANDSTONE													
			9	RC			100%						
0.1' thick: SANDSTONE													
		50											
0.6' thick: SILTSTONE interbeds													
			10	RC			100%						
		55											
0.1' thick: SILTSTONE 0.3' thick: SANDSTONE													
0.2' thick: thinly bedded, SILTSTONE and SANDSTONE													
			11	RC			100%						

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater

● Noted on Drilling Tools **34.1** ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
▼ After ______ hours ______ ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-16**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick: SANDSTONE													
			12	RC			100%						
		65											
0.3' thick: SILTSTONE	66.4												
VERY HARD, pale olive, SANDSTONE, thinly bedded													
			13	RC			100%						
VERY SOFT, dark yellowish orange, SHALE, weathered, remnant laminations	68.7												
		70											
0.2' thick: SANDSTONE													
0.1' thick: SANDSTONE													
0.3' thick: SANDSTONE			14	RC			100%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **34.1** ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ________ hours ________ ft.
After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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11121 Canal Rd.
Cincinnati, Ohio 45241
513-771-2112
513-782-6908

TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-16**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
1.0' thick: Multiple SILTSTONE layers													
			15	RC			100%						
0.1' thick: SANDSTONE		80											
0.1' thick: SANDSTONE													
			16	RC			100%						
		85											
0.1' thick: SANDSTONE													
0.1' thick: SANDSTONE													
			17	RC			100%						
0.7' thick: SANDSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **34.1** ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After ________ hours ________ ft.
▼ After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-16**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-10-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-11-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			18	RC			100%						
		95											
0.1' thick: SANDSTONE													
			19	RC			100%						
0.1' thick: SANDSTONE	100.3	100											
BORING TERMINATED at 100.3 feet													Driller reports hole produced about 100 gallons water during coring

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **34.1** ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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ATC

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
BORING # **WD-SB-17**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-8-11**
Date Completed **10-9-11**
Drill Foreman **SA w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**
Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil (1 inch)	0.1		1	SS			15		2.0				
STIFF to VERY STIFF, yellow, LEAN CLAY (CL), dry													
			2	SS			22		2.0				
		5	1	ST						17	44	18	
VERY SOFT, pale brown, SHALE, weathered, remnant laminations	7.5		3	SS			59						
		10	4	SS			64						
0.1' thick: Reddish brown, SANDSTONE			5	SS			64						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After **24** hours **40.2** ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-17**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-8-11**
Date Completed **10-9-11**
Drill Foreman **SA w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			6	SS			50/0.2'						
			7	SS			50/0.3'						
		20	8	SS			50/0.2'						
SOFT, medium gray, SHALE, laminated	20.8		1	RC			0%						Auger refusal at 20.8'. Start coring
			2	RC			78%						
0.3' thick: Highly fractured, SANDSTONE													
0.1' thick: Reddish brown, SANDSTONE													
		25											
VERY HARD, light brown to pale olive, SANDSTONE, thinly bedded	26.3		3	RC			90%						
SOFT, medium gray, SHALE, laminated	28.3												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
▼ After **24** hours **40.2** ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-17**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-8-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-9-11**	Hammer Drop	**30** in.
Drill Foreman	**SA w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			4	RC			100%						
0.3' thick: SANDSTONE													
0.2' thick: SILTSTONE													
0.2' thick: SANDSTONE													
0.2' thick: SANDSTONE													
		35											
0.2' thick: SANDSTONE													
			5	RC			100%						
		40				▼							
			6	RC									
0.1' thick: SANDSTONE													
0.1' thick: SANDSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
▼ At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
▼ After **24** hours **40.2** ft.
▼ After _______ hours _______ ft.
▨ Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-17**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **10-8-11**
Date Completed **10-9-11**
Drill Foreman **SA w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			7	RC			100%						
0.1' thick: SANDSTONE													
		50											
			8	RC			100%						
		55											
			9	RC			100%						
0.1' thick: SANDSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After **24** hours **40.2** ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
BORING # **WD-SB-17**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**10-8-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-9-11**	Hammer Drop	**30** in.
Drill Foreman	**SA w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick: SANDSTONE													
			10	RC			100%						
0.1' thick: SANDSTONE													
		65											
			11	RC			100%						
0.7' thick: SANDSTONE													
		70											
			12	RC			100%						
0.1' thick: SANDSTONE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
▽ At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
▼ After **24** hours **40.2** ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-17**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**10-8-11**	Hammer Wt.	**140** lbs.
Date Completed	**10-9-11**	Hammer Drop	**30** in.
Drill Foreman	**SA w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.2' thick: SANDSTONE			13	RC			74%						
BORING TERMINATED at 80 feet	80.0	80											
		85											

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
▼ After **24** hours **40.2** ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-18**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **8-16-11**
Date Completed **8-17-11**
Drill Foreman **MS w/ M&W Drilling**
Inspector **P. Sudkamp**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION 663.4	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil (4 inches)	0.3		1	SS			8						Slickensides visible
FILL: MEDIUM STIFF, yellowish red, LEAN CLAY (CL), with trace roots, dry													
	3.0		2	SS			13						
STIFF, yellowish red with mottled reddish gray, LEAN CLAY (CL), dry to moist													
	5.0	5	1	ST					1.4	25	52	32	
Brown with mottled gray, FAT CLAY (CH), moist													
	7.0												
MEDIUM STIFF, dusty red, FAT CLAY (CH), moist			3	SS			7						Possible old drainage channel
	10.0	10	4	SS			4		1.0				
SOFT, reddish brown, FAT CLAY (CH), trace wood fragments, moist													
	12.5		5	SS			7						
MEDIUM STIFF, yellowish red with mottled light gray, LEAN CLAY (CL), with interbedded silt seams, moist													

Sample Type
- SS - Driven Split Spoon
- ST - Pressed Shelby Tube
- CA - Continuous Flight Auger
- RC - Rock Core
- CU - Cuttings
- CT - Continuous Tube
- SPT - Standard Penetration Test

Depth to Groundwater
- ● Noted on Drilling Tools **21.5** ft.
- ▼ At Completion (in augers) **19.5** ft.
- ▽ At Completion (open hole) ft.
- ▼ After hours ft.
- ▼ After hours ft.
- ▨ Cave Depth ft.

Boring Method
- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- DC - Driving Casing
- MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-18**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**8-16-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-17-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
	16.0		2	ST					20	42	23	
Yellowish red, SILTY CLAY (CL-ML), moist	17.5											
VERY STIFF, yellowish red with mottled light gray, SILT (ML), dry to moist			6	SS		24						
					⊻							
		20	7	SS	●	12						
	22.5											
MEDIUM DENSE, yellowish-red with mottled and interbedded light gray, SILTY SAND (SM), fine grained, moist to wet			8	SS		15						
		25	3	ST								
	27.5											
Reddish brown, SANDSTONE, slight to moderate weathering, extremely fractured, fine grained			9	SS		50/0.3'						
			1	RC		34%						Weathering may be artificially high due to coring
SANDSTONE becomes light to medium gray	30.0											

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **21.5** ft.
⊻ At Completion (in augers) **19.5** ft.
▽ At Completion (open hole) ______ ft.
▼ After ________ hours ________ ft.
▼ After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-18**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**8-16-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-17-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
MEDIUM HARD, gray, SANDSTONE, fresh	30.7		2	RC			67%						
SOFT to MEDIUM, gray, SILTSTONE/SHALE, with interbedded, fine grained, SANDSTONE	31.8												
MEDIUM, gray, SANDSTONE, fresh, extremely to moderately fractured	35.0	35											
SOFT to MEDIUM, gray, SANDSTONE and SILTY SHALE, moderately weathered	35.8		3	RC			72%						
MEDIUM to MEDIUM HARD, gray, SANDSTONE, fresh, slightly fractured to sound	40.2	40											
SOFT to MEDIUM, gray, SHALE, moderately weathered, extremely fractured	42.3		4	RC			40%						Weathering may be artificially high due to coring
SOFT to MEDIUM, gray, SANDSTONE, fresh, moderately fractured	43.8												
VERY SOFT to MEDIUM, gray, SANDSTONE, slight to moderate weathering, sound, with thinly interbedded, silty, SHALE													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **21.5** ft.
At Completion (in augers) **19.5** ft.
At Completion (open hole) ft.
After hours ft.
After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-18**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**8-16-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-17-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			5	RC			48%						
MEDIUM, gray, SANDSTONE, fresh, fine grained	47.0												
VERY SOFT to MEDIUM, gray, SHALE, slight to moderate weathering, slightly fractured, sandy	48.0												
VERY SOFT to SOFT, gray, SHALE, slight to moderate weathering, extremely fractured, sandy and silty interbeds	50.0	50	6	RC			18%						Weathering may be artificially high due to coring
MEDIUM HARD, gray, SANDSTONE, fresh	51.2												
SHALE, sandy to clayey, slight to moderate weathering, extremely fractured to disintegrated, thinly bedded, friable	52.2												
		55	7	RC			52%						
0.3' thick: MEDIUM HARD, SANDSTONE	57.8												
VERY SOFT to SOFT, gray, SHALE, clayey, extremely fractured													
0.4' thick: MEDIUM HARD, gray, SANDSTONE													
	60.0												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **21.5** ft.
At Completion (in augers) **19.5** ft.
At Completion (open hole) ft.
After hours ft.
After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-18**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **8-16-11**
Date Completed **8-17-11**
Drill Foreman **MS w/ M&W Drilling**
Inspector **P. Sudkamp**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
VERY SOFT to MEDIUM, gray, SHALE, silty to clayey, moderate weathering, moderately to extremely fractured	63.0		8	RC			30%						Weathering may be artificially high due to coring
SOFT to MEDIUM HARD, gray, SHALE, fresh, slightly fractured	63.8												
Gray, SHALE, sandy to clayey, severely to moderately weathered, moderately to extremely fractured	65.0	65											
VERY SOFT to SOFT, gray, SHALE, clayey, fresh to moderately weathered, sound to extremely fractured	70.0	70	9	RC			55%						
BORING TERMINATED at 70 feet													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **21.5** ft.
At Completion (in augers) **19.5** ft.
At Completion (open hole) ft.
After hours ft.
After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-19**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**8-9-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-10-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION 660.4	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil (2.5 inches)	0.3		1	SS			13						
STIFF, reddish brown, FAT CLAY with GRAVEL (CH), dry	2.5												
VERY STIFF, reddish yellow with mottled light gray, FAT CLAY (CH), dry to moist	5.0		2	SS			16		4.0				
Reddish yellow, LEAN CLAY (CL), moist	6.7	5	1	ST						20	35	14	
STIFF, reddish yellow, FAT CLAY (CH), moist		10	3	SS		⊻ ▽	15		3.5				
	15.0		4	SS			17		3.7				

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **22.0** ft.
⊻ At Completion (in augers) **11.3** ft.
▽ At Completion (open hole) **12.3** ft.
▼ After ________ hours ________ ft.
▼ After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-19**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**8-9-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-10-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
MEDIUM STIFF, reddish yellow, SILT with SAND (ML), moist	17.3		2	ST					18	27	5	
STIFF, reddish yellow, FAT CLAY (CH), moist			5	SS		15		3.4				
	22.5	20	6	SS	●	10						
MEDIUM DENSE, gray and brown, POORLY-GRADED GRAVEL with SILT and SAND (GP-GM), wet	24.5		7	SS		50/5"						
MEDIUM, gray SANDSTONE and black SHALE fragments, moderate to severe weathering, extremely fractured, very fine to fine grained	25.5	25	1	RC		25%						Auger refusal at 24.5'. Start coring Probable Sunbury/Berea interface
MEDIUM to MEDIUM HARD, yellowish red with interbedded light gray, SANDSTONE, moderately fractured, very fine to fine grained			2	RC		77%						
0.3' thick: Gray, SHALE/CLAY (possible filled seam)												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **22.0** ft.
At Completion (in augers) **11.3** ft.
At Completion (open hole) **12.3** ft.
After ________ hours ________ ft.
After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-19**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**8-9-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-10-11**	Hammer Drop	**30** in.
Drill Foreman	**MS w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**P. Sudkamp**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
	31.0												
MEDIUM, reddish yellow, SANDSTONE, fresh to slightly weathered, moderately to extremely fractured	31.6		3	RC			46%						
MEDIUM, gray, SHALE, slightly to moderately weathered, extremely fractured, thin to very thin interbedding, very fine grained	33.5												
SOFT to MEDIUM, gray, SANDSTONE, very fine to fine grained, with thinly interbedded, dark gray to black, SHALE/SILTSTONE		35											
			4	RC			51%						
			5	RC			58%						
		40											
SANDSTONE becoming MODERATELY HARD	42.0												
BORING TERMINATED at 42 feet													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **22.0** ft.
At Completion (in augers) **11.3** ft.
At Completion (open hole) **12.3** ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-20**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**8-16-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-16-11**	Hammer Drop	**30** in.
Drill Foreman	**GB w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION 668.6	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
FILL: LOOSE, medium gray, crushed stone			1	SS		5		1.5				
	1.5											
MEDIUM STIFF, reddish yellow, LEAN CLAY (CL), moist												
Becoming sandy			2	SS		5		1.5				
		5	1	ST								
	6.0											
MEDIUM STIFF to STIFF, reddish yellow to yellow, ELASTIC SILT with GRAVEL (MH), moist												
			3	SS		7		1.5	37	53	23	Lab test results from bucket sample B020BU06.0-10.0
		10	4	SS		8		1.5				
			5	SS	≛	6		1.5				

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **19.5** ft.
≛ At Completion (in augers) **13.2** ft.
▽ At Completion (open hole) ______ ft.
⊻ After ______ hours ______ ft.
▼ After ______ hours ______ ft.
▩ Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-20**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**8-16-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-16-11**	Hammer Drop	**30** in.
Drill Foreman	**GB w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			2	ST								
LOOSE, strong brown to reddish yellow, SILTY SAND (SM), fine, oxidized, sub-angular, rapid dilatency	18.0		6	SS		10		1.75				
					●							
		20	7	SS		9						
0.5' thick: MEDIUM STIFF, reddish yellow, SANDY LEAN CLAY (CL)												
			8	SS		10		0.5				
MEDIUM STIFF, reddish yellow, SILT (ML), wet	24.0											
		25	3	ST					28	44	13	
MEDIUM STIFF, gray to brownish gray, LEAN CLAY (CL), moist	27.5		9	SS		8		1.0				
MEDIUM STIFF to STIFF, reddish yellow, LEAN CLAY (CL), oxidized, moist	29.0											
	30.0											

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **19.5** ft.
At Completion (in augers) **13.2** ft.
At Completion (open hole) ______ ft.
After ________ hours ________ ft.
After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-20**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **8-16-11**
Date Completed **8-16-11**
Drill Foreman **GB w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
MEDIUM DENSE, reddish yellow to dark reddish brown, SILTY SAND with GRAVEL (SM), medium to coarse grained, subangular, moist			10	SS			25		3.25				
			11	SS			46		4.5				
	35.2	35											
HARD, grayish yellow, SANDSTONE, thinly bedded, oxidized, dry			12	SS			50/0.2'						Auger refusal at 35.2. Start coring
			1	RC			76%						
SOFT, medium gray, laminated, SHALE, wet, with interbedded, medium gray to gray, SANDSTONE	40.0	40	2	RC			0%						
			3	RC			84%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **19.5** ft.
At Completion (in augers) **13.2** ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-20**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**8-16-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-16-11**	Hammer Drop	**30** in.
Drill Foreman	**GB w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			4	RC			62%						
		50											
			5	RC			27%						
		55											
			6	RC			68%						

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater

● Noted on Drilling Tools **19.5** ft.
At Completion (in augers) **13.2** ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**

PROJECT NAME **PORTS OSDC**

PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-20**

JOB # **072.41944.0001**

DRAWN BY **AMC**

APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **8-16-11**

Date Completed **8-16-11**

Drill Foreman **GB w/ M&W Drilling**

Inspector **CS**

Boring Method **HSA**

Hammer Wt. **140** lbs.

Hammer Drop **30** in.

Spoon Sampler OD **2** in.

Rock Core Dia. **3.8** in.

Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			7	RC			40%						
		65											
			8	RC			10%						
		70											
BORING TERMINATED at 70.5 feet	70.5												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **19.5** ft.
▼ At Completion (in augers) **13.2** ft.
▽ At Completion (open hole) ft.
▼ After hours ft.
▼ After hours ft.
▨ Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-21**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **8-9-11**
Date Completed **8-10-11**
Drill Foreman **GB w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION 669.4	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil/crushed stone blend (12 inches)			1	SS			13						
	1.0												
STIFF, reddish yellow, LEAN CLAY with SAND (CL), moist													Non-woven geotextile at 12 inches
	2.5												
MEDIUM STIFF, reddish yellow, LEAN CLAY with SAND (CL), moist			2	SS			6		1.0				
		5	1	ST									
	7.5												
STIFF to VERY STIFF, reddish yellow to yellow, LEAN CLAY with SAND (CL), moist			3	SS			12		1.5				
		10	4	SS			16		1.0				
LEAN CLAY becomes wet			5	SS		⊻	12		0.5				
						●							

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **15.0** ft.
⊻ At Completion (in augers) **12.6** ft.
▽ At Completion (open hole) ft.
▼ After hours ft.
▼ After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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513-782-6908

TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-21**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**8-9-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-10-11**	Hammer Drop	**30** in.
Drill Foreman	**GB w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			2	ST									
MEDIUM DENSE, reddish yellow, CLAYEY GRAVEL with SILT and SAND (GC), wet	16.0												
			6	SS			22		3.0				
VERY STIFF, reddish yellow to gray, LEAN CLAY (CL), moist	18.5												
LEAN CLAY becomes black		20											
	20.5		7	SS			50/0.4'						
HARD, grayish black, LEAN CLAY (CL) / (SOFT) SHALE, slightly weathered, laminated, noted parting along laminated planes, reduced, dry			1	RC			50%						Auger refusal at 20.4 feet. Start coring
SHALE becomes unweathered			2	RC			60%						
		25											
			3	RC									
2' thick: Sulfides													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **15.0** ft.
At Completion (in augers) **12.6** ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-21**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **8-9-11**
Date Completed **8-10-11**
Drill Foreman **GB w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			4	RC			96%						
1.1' thick: Sulfides													Sulfides most likely marcasite
0.2' thick: Sulfides													
0.1' thick: Sulfides		35											
HARD, medium light gray to light gray, SANDSTONE, fine sand, fine silt, thinly bedded, reduced, dry	36.3		5	RC			96%						
		40											
			6	RC			94%						
0.5' thick: Sulfides and crossbedding													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **15.0** ft.
At Completion (in augers) **12.6** ft.
At Completion (open hole) ft.
After hours ft.
After hours ft.
Cave Depth ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-SB-21**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **8-9-11**
Date Completed **8-10-11**
Drill Foreman **GB w/ M&W Drilling**
Inspector **CS**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Interbedded SHALE and SANDSTONE: Gray, sulfides, laminated, moist	45.5												
HARD, medium light gray to light gray, SANDSTONE, fine sand, fine silt, thinly bedded, reduced, dry	46.5		7	RC			90%						
Interbedded SHALE and SANDSTONE: Gray, sulfides, laminated, moist	48.4												
HARD, medium light gray to light gray, SANDSTONE, fine sand, fine silt, thinly bedded, reduced, dry	49.2	50											
Interbedded SHALE and SANDSTONE: Gray, sulfides, laminated, moist	50.3												
HARD, medium light gray to light gray, SANDSTONE, fine sand, fine silt, thinly bedded, reduced, dry	51.8		8	RC			90%						
0.2' thick: Interbedded SHALE and crossbedded SANDSTONE 0.4' thick: Interbedded SHALE and crossbedded SANDSTONE 1.5' thick: Turbidity sediments		55	9	RC			78%						
Interbedded SHALE and crossbedded SANDSTONE	58.3												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **15.0** ft.
At Completion (in augers) **12.6** ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

Page **4** of **5**

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-SB-21**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**8-9-11**	Hammer Wt.	**140** lbs.
Date Completed	**8-10-11**	Hammer Drop	**30** in.
Drill Foreman	**GB w/ M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**CS**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
	61.5												
HARD, medium light gray to light gray, SANDSTONE, fine sand, fine silt, thinly bedded, dry 0.5' thick: Interbedded SHALE and crossbedded SANDSTONE 0.2' thick: Interbedded SHALE and crossbedded SANDSTONE 0.3' thick: Interbedded SHALE and crossbedded SANDSTONE		65	10	RC			80%						
	66.6												
Interbedded SHALE and crossbedded SANDSTONE			11	RC			39%						
	70.3	70											
BORING TERMINATED at 70 feet													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools **15.0** ft.
At Completion (in augers) **12.6** ft.
At Completion (open hole) ______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

Logo Fluor B&W

BORING NUMBER WD-SB-22

PAGE 1 OF 2

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/30/11 **COMPLETED** 8/30/11
GROUND ELEVATION 687.6 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Collin Sukow **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0				▨		(CL) Clay, brownish yellow (10YR 6/6), stiff, moist, cohesive. Grades to reddish yellow (7.5YR 6/8) at 3.8 ft with gray mottling at 7.9 ft.		
5								
10					10.9		676.7	
				▥		(CL-ML) (Silty?) Clay, pale brown (2.5Y 8/3) to light olive brown (2.5Y 5/4) at 14.1 ft, back to pale brown (2.5Y 8/3)at 15 ft.		
15								
					19.0		668.6	
				▧	19.5	Cuyahoga Formation. Weathered Shale, brownish yellow (10YR 6/8), soft, laminated.	668.1	
20								

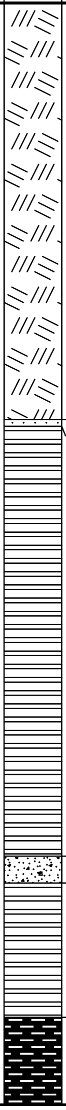
(Continued Next Page)

BORING NUMBER WD-SB-22

PAGE 2 OF 2

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20						Cuyahoga Formation (Competent). Weathered Shale, brownish yellow (10YR 6/8), interbedded sparse sandstone seams throughout. Grades to dark yellowish orange (10YR 6/6) to gray at 21.8 ft, back to dark yellowish orange (10YR 6/6) at 23.8 ft, *(continued)*		
25					26.2		661.4	
					26.3	Sandstone, 0.5 in. thick.	661.3	
30						Shale, dark yellowish orange (10YR 6/6) grading to medium gray (N5) at 26.4 ft, with interbedded sandstone seams, occasional iron oxide staining.		
					32.7		654.9	
					33.1	Sandstone, cross-bedded, iron oxide staining, 5 in. thick.	654.5	
35					35.1	Shale, medium gray (N5), with interbedded sandstone seams, occasional iron oxide staining.	652.5	
					36.4	Sunbury Shale. Shale, grayish black (N2), soft, laminated.	651.2	

Refusal at 19.5 feet.
Bottom of borehole at 36.4 feet.

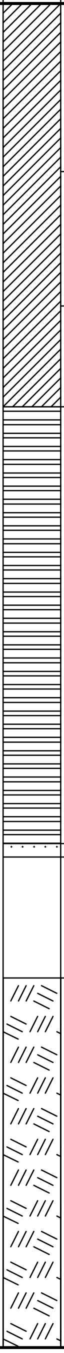
ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-23

PAGE 1 OF 6

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 10/4/11 **COMPLETED** 10/5/11
GROUND ELEVATION 764.81 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Pete Sudkamp **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0						(CL) Sandy Clay, reddish yellow (7.5YR 6/6), some silt, trace sand, and fine gravel, lean, moist, medium stiff.	
					2.5	762.3	
						(CL) (Clay?) with Sandstone fragments, gray, weathered, hard, dry.	
					4.5	760.3	
5						(CL) Clay, lean to FAT, with sand, dry , hard.	
					6.0	758.8	
						Cuyahoga Formation. Shale, brownish yellow to brownish gray (, with partings.	
10							
					12.5	752.3	
					12.7	Sandstone, gray, 2 in. thick. 752.1	
						No Recovery.	
					14.5	750.3	
15						Cuyahoga Formation (Competent). Weathered Shale, reddish brown, fractured, iron oxide staining. Grading to dark gray (N3) and dark reddish gray at 17 ft.	
20							

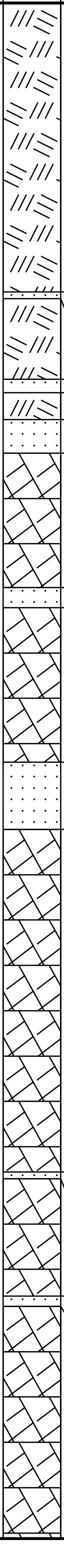
(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-23

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
20					Cuyahoga Formation (Competent). Weathered Shale, reddish brown, fractured, iron oxide staining. Grading to dark gray (N3) and dark reddish gray at 17 ft. *(continued)*		
24.3					Sandstone, gray, 1 in. thick.	740.5	
24.4					Weathered Shale, dark gray (N3), fractured, iron oxide staining.	740.4	
25.6					Sandstone, gray and light brown (5YR 5/6), hard, 2 in. thick.	739.2	
25.8					Weathered Shale, dark gray (N3), fractured, iron oxide staining.	739.0	
26.2					Sandstone, light brown (5YR 5/6), hard, sound, 6 in. thick.	738.6	
26.7					Shale, gray, soft, sound, fractured, iron oxide staining.	738.1	
28.7					Sandstone, light brown (5YR 5/6), hard, 4 in. thick.	736.1	
29.0					Shale, gray, fractured, iron oxide staining.	735.8	
31.3					Sandstone, light brown (5YR 5/6), 12 in. thick.	733.5	
32.3					Shale, gray, fractured, iron oxide staining.	732.5	
37.4					Sandstone, 1 in. thick.	727.4	
37.5					Shale, gray, fractured, iron oxide staining.	727.3	
39.3					Sandstone, 2 in. thick.	725.6	
39.4					Shale, gray, fractured, iron oxide staining.	725.4	



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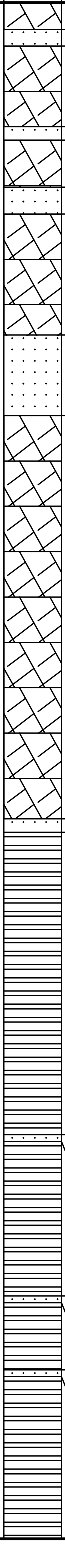
BORING NUMBER WD-SB-23

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					43.3		721.6	
					43.5	Sandstone, 3 in. thick.	721.3	
						Shale, gray, fractured, iron oxide staining.		
					44.7		720.1	
45					44.9	Sandstone, 2.5 in. thick.	719.9	
						Shale, gray, fractured, iron oxide staining.		
					45.6		719.2	
					46.0	Sandstone, 5 in. thick.	718.8	
						Shale, gray, fractured, iron oxide staining.		
					47.8		717.0	
						Sandstone, fractured, 14 in. thick.		
					49.0		715.8	
						Shale, gray, fractured, iron oxide staining.		
50								
55					55.0		709.8	
					55.2	Sandstone, 2.5 in. thick.	709.6	
						Shale, dark gray (N3), medium hard, sound.		
					59.7		705.1	
60					59.8	Sandstone, 1 in. thick.	705.0	
						Shale, dark gray (N3), medium hard, sound.		
					62.1		702.7	
					62.2	Sandstone, iron oxide staining, 1 in. thick.	702.6	
						Shale, dark gray (N3), medium hard, sound.		
					63.2		701.6	
					63.3	Sandstone, light gray (N7), 1 in. thick.	701.5	
						Shale, dark gray (N3), with interbedded sandstone seams.		
65								

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Logo Fluor B&W

BORING NUMBER WD-SB-23

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
					Shale, dark gray (N3), with interbedded sandstone seams. *(continued)*	
					68.6 Sandstone, 1 in. thick. 696.3 68.7 696.2	
70					Shale, dark gray (N3), with interbedded sandstone seams.	
					71.3 Sandstone, hard, 1 in. thick. 693.5 71.4 693.4	
75					Shale, dark gray (N3), with interbedded sandstone seams.	
					79.4 Sandstone, light gray (N7), hard, 2.5 in. thick. 685.4 79.6 685.2	
80 85					Shale, dark gray (N3), with interbedded sandstone seams.	
					86.9 680 Sandstone. Sandstone, light gray (N7 to N6), hard, fine-grained. 678.0	

(Continued Next Page)

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-23

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION			WELL DIAGRAM
					88.7	Shale, gray to dark gray (N3), with interbedded sandstone seams, medium hard, sound.	676.1	
90								
					90.8	Sandstone, light gray (N7), fine-grained, 3.5 in. thick.	674.0	
					91.1	Shale, gray to dark gray (N3), with interbedded sandstone seams.	673.7	
					94.1	Sandstone, light gray (N7), fine-grained, 1 in. thick.	670.7	
					94.2	Shale, gray to dark gray (N3), with interbedded sandstone seams.	670.6	
95								
					95.5	Sandstone, light gray (N7), fine-grained, 1 in. thick.	669.3	
					95.6	Shale, gray to dark gray (N3), with interbedded sandstone seams.	669.2	
100								
					102.5	Sandstone, 2.5 in. thick.	662.4	
					102.7	Shale, gray to dark gray (N3), with interbedded sandstone seams.	662.2	
105								
					105.1	Sandstone, 1 in. thick.	659.7	
					105.2	Shale, gray to dark gray (N3), with interbedded sandstone seams.	659.6	
					105.8	Sandstone, 1 in. thick.	659.0	
					105.9	Shale, gray to dark gray (N3), with interbedded sandstone seams, medium hard, sound.	658.9	
110								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-23

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
				113.4	Shale, gray to dark gray (N3), with interbedded sandstone seams, medium hard, sound. *(continued)* 651.5	
				113.5	Sandstone, 2 in. thick. 651.3	
				114.6	Shale, gray to dark gray (N3), with interbedded sandstone seams, medium hard, sound. 650.2	
115				114.8	Sandstone, 2.5 in. thick. 650.0	
				115.9	Shale, gray to dark gray (N3), with interbedded sandstone seams, medium hard, sound. 649.0	
				116.0	Sandstone, 2 in. thick. 648.8	
				117.9	Shale, gray to dark gray (N3), with interbedded sandstone seams, medium hard, sound. 647.0	
				118.0	Sandstone, 2 in. thick. 646.8	
				119.4	Shale, gray to dark gray (N3), with interbedded sandstone seams, medium hard, sound. 645.4	
				119.7	Sandstone, 3 in. thick. 645.2	
120 125				126.4	Shale, gray to dark gray (N3), with interbedded sandstone seams, medium hard, sound. 638.4	
				127.0	Sunbury Shale. Shale, black (N1), medium hard, sound. 637.8	

Refusal at 14.5 feet.
Bottom of borehole at 127.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-24

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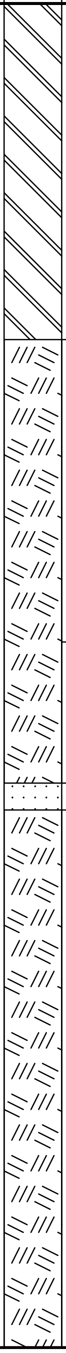
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/26/11 **COMPLETED** 9/28/11
GROUND ELEVATION 747.37 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Pete Sudkamp **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION			WELL DIAGRAM
0						Clay, tan, lean to FAT clay, dry to moist, little to trace silt, roots, fine sand. Grading to light brown at 2.5 ft., shale fragments encountered.		
5					5.0		742.4	
						Cuyahoga Formation. Weathered Shale, gray and brown, soft, iron oxide staining.		
					9.5		737.9	
10						Cuyahoga Formation (Competent). Weathered Shale, gray and brown, soft.		
					11.6		735.8	
					12.0	Sandstone, brown, hard, iron oxide staining, 5 in. thick.	735.4	
						Weathered Shale, brown and gray, with interbedded sandstone seams, very soft, thick-bedded, fractured.		
15								
20								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-24

CLIENT Fluor B&W Portsmouth **PROJECT NAME** OSDC Geotechnical Investigation

PROJECT NUMBER **PROJECT LOCATION** Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20						Weathered Shale, brown and gray, with interbedded sandstone seams, very soft, thick-bedded, fractured. *(continued)*		
					22.7		724.7	
					22.9	Sandstone, gray, fractured, iron oxide staining, 2.5 in. thick.	724.5	
25						Weathered Shale, brown and gray, with interbedded sandstone seams, very soft, thick-bedded, fractured.		
					28.8		718.6	
					29.2	Sandstone, 5 in. thick.	718.2	
30						Weathered Shale, brown and gray, with interbedded sandstone seams, very soft, thick-bedded, fractured.		
					31.2		716.2	
					31.5	Sandstone, 3.5 in. thick.	715.9	
					31.9	Weathered Shale, brown and gray, with interbedded sandstones.	715.5	
					32.2	Sandstone, two beds, 1 in. thick and 2 in. thick.	715.2	
35						Weathered Shale, brown and gray, with interbedded sandstones.		
					39.2		708.2	
					39.3	Sandstone, 2 in. thick.	708.1	
40					40.2	Weathered Shale, brown and gray, with interbedded sandstones.	707.2	
					40.3	Sandstone, 1 in. thick.	707.1	
					40.7	Weathered Shale, brown and gray, with interbedded sandstones.	706.7	
					40.9	Sandstone, 2 in. thick.	706.5	
						Weathered Shale, brown and gray, with interbedded sandstones.		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-24

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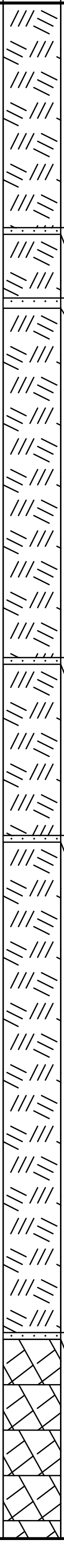
CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Weathered Shale, brown and gray, with interbedded sandstones. *(continued)*		
45								
					46.2 46.3	Sandstone, 1 in. thick.	701.2 701.1	
						Weathered Shale, brown and gray, with interbedded sandstones.		
					47.3 47.4	Sandstone, 2 in. thick.	700.1 700.0	
						Weathered Shale, brown and gray, with interbedded sandstones.		
50								
					52.6 52.7	Sandstone, 1 in. thick.	694.8 694.7	
						Weathered Shale, brown and gray, with interbedded sandstones.		
55								
					55.3 55.4	Sandstone, 1 in. thick.	692.1 692.0	
						Weathered Shale grading to Shale, brown and gray to gray, with interbedded sandstones, soft to medium, sound.		
60								
					62.7 62.8	Sandstone, 1 in. thick.	684.7 684.6	
						Shale, gray, with interbedded sandstones, fractured.		
65								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-24

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
					Shale, gray, with interbedded sandstones, fractured. *(continued)*		
70				70.4		677.0	
					680 Sandstone. Sandstone, gray, sound.		
				72.2		675.2	
					Shale, gray, with interbedded sandstones, fractured.		
				74.2		673.2	
				74.5	Sandstone, gray, sound, 3.5 in. thick.	672.9	
75					Shale, gray, with interbedded sandstones, fractured.		
				78.7		668.7	
				78.9	Sandstone, 2 in. thick.	668.5	
					Shale, gray, with interbedded sandstones.		
80							
85				85.5		661.9	
				85.7	Sandstone, 2.5 in. thick.	661.7	
					Shale, gray, with interbedded sandstones.		
				88.0		659.4	
				88.1	Sandstone, 1 in. thick.	659.3	
				88.4		659.0	

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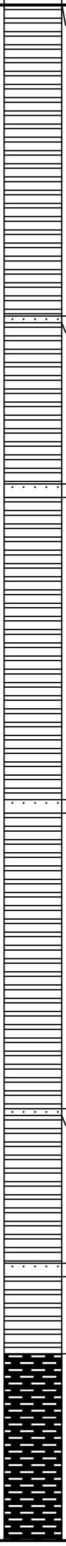
Logo Fluor B&W

BORING NUMBER WD-SB-24

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
				88.6	Shale, gray, with interbedded sandstones. Sandstone, 2 in. thick. Shale, gray, with interbedded sandstones, medium, sound. *(continued)*	658.8	
90							
				93.2	Sandstone, 1 in. thick.	654.2	
				93.3	Shale, gray, with interbedded sandstones, medium, sound.	654.1	
95							
				95.7	Sandstone, 2.5 in. thick.	651.7	
				95.9	Shale, gray, with interbedded sandstones, medium, sound.	651.5	
100							
				100.4	Sandstone, 2.5 in. thick.	647.0	
				100.6	Shale, gray, with interbedded sandstones.	646.8	
105				105.0	Sandstone, 1 in. thick.	642.4	
				105.1	Shale, gray, with interbedded sandstones.	642.3	
				107.3	Sandstone, 2.5 in. thick.	640.1	
				107.5	Shale, gray, with interbedded sandstones.	639.9	
				108.7	Sunbury Shale. Shale, black (N1), medium sound.	638.7	
110							

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Logo Fluor B&W

BORING NUMBER WD-SB-24

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION	WELL DIAGRAM
						Sunbury Shale. Shale, black (N1), medium sound. *(continued)*	
115							
120							
125							
					128.7	618.7	
						Berea Sandstone. Sandstone, gray, hard, sound, fine-grained.	
130							

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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BORING NUMBER WD-SB-24

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

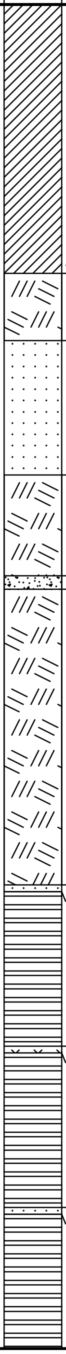
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
135						Berea Sandstone. Sandstone, gray, hard, sound, fine-grained. *(continued)*		
					137.8		609.6	
						Shale, gray, medium hard, thinly bedded.		
					138.4		609.0	
						Sandstone, gray, hard, sound, fine-grained.		
140								
					140.9		606.5	
						Silty Shale.		
					141.2		606.2	
						Sandstone, gray, hard, sound, fine-grained.		
					144.3		603.1	

Refusal at 9.5 feet.
Bottom of borehole at 144.3 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-25

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/31/11 **COMPLETED** 8/31/11
GROUND ELEVATION 686.74 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Collin Sukow **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES Partly cloudy.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0					(CL) Clay, pale brown (2.5Y 7/4), lean, hard, moist, with occasional sandstone fragments.		
				4.0		682.7	
					Cuyahoga Formation (Competent). Weathered Shale, pale brown (5YR 5/2), soft, laminated.		
5				5.0		681.7	
					680 Sandstone. Sandstone, moderate reddish brown (10R 4/6), hard, thinly bedded.		
				7.0		679.7	
					Weathered Shale, pale brown (5YR 5/2) grading to gray at 7.6 ft, moderate reddish brown (10R 4/6) at 8.3 ft, soft, moist.		
				8.5		678.2	
				8.7	Sandstone, moderate reddish brown (10R 4/6), hard, cross-bedded, thin, thickness unknown.	678.0	
10					Weathered Shale, pale brown (5YR 5/2), grading to light gray (N7) at 9.3 ft, with interbedded sandstone seams, soft, laminated, occasional fractures and iron oxide staining.		
				13.1		673.6	
				13.2	Sandstone, iron oxide staining, 1 in. thick.	673.5	
					Shale, light gray (N7), with interbedded sandstone seams, occasional fractures and iron oxide staining.		
15				15.5		671.2	
				15.6	Siltstone, cross-bedded, 1 in. thick.	671.1	
					Shale, light gray (N7) grading to medium gray (N5) at 17 ft, with interbedded sandstone seams, occasional fractures and iron oxide staining.		
				17.9		668.8	
				18.0	Sandstone, 1 in. thick.	668.7	
					Shale, medium gray (N5), with interbedded sandstones and siltstone seams.		
20							

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Logo Fluor B&W

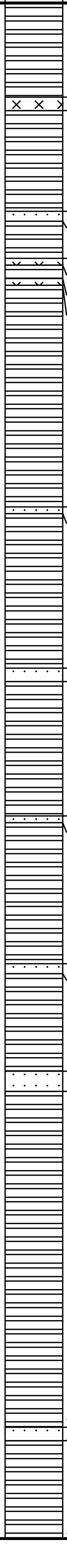
BORING NUMBER WD-SB-25

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	MATERIAL DESCRIPTION	ELEVATION	WELL DIAGRAM
20				Shale, medium gray (N5), with interbedded sandstones and siltstone seams. *(continued)*		
21.4					665.3	
21.6				Siltstone, 2.5 in. thick.	665.1	
				Shale, medium gray (N5), with interbedded sandstones and siltstone seams.		
23.1					663.6	
23.3				Sandstone, 2 in. thick.	663.5	
23.8				Shale, medium gray (N5), with interbedded sandstones and siltstone seams.	662.9	
23.9				Siltstone, 1 in. thick.	662.8	
24.1				Shale, medium gray (N5), with interbedded sandstones and siltstone seams.	662.6	
24.2				Siltstone, 1 in. thick.	662.5	
25				Shale, medium gray (N5), with interbedded sandstones and siltstone seams.		
27.5					659.2	
27.6				Sandstone, 1 in. thick.	659.1	
				Shale, medium gray (N5), with interbedded sandstones and siltstone seams.		
29.9					656.8	
30.1				Sandstone, 2.5 in. thick.	656.6	
				Shale, medium gray (N5), with interbedded sandstones and siltstone seams.		
32.1					654.6	
32.2				Sandstone, 1 in. thick.	654.5	
				Shale, medium gray (N5), with interbedded sandstones and siltstone seams.		
34.3					652.4	
34.5				Sandstone, 2 in. thick.	652.3	
35				Shale, medium gray (N5), with interbedded sandstones and siltstone seams.		
35.9					650.8	
36.2				Sandstone, 3.5 in. thick.	650.5	
40				Shale, medium gray (N5), with interbedded sandstones and siltstone seams.		
41.2					645.5	
41.4				Sandstone, 2.5 in. thick.	645.3	
				Shale, medium gray (N5), with interbedded sandstones and siltstone seams.		
42.9					643.8	

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Logo Fluor B&W

BORING NUMBER WD-SB-25

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
45				▤ 47.0	Sunbury Shale. Shale, grayish black (N2), soft, sharp contact.	639.7	

Refusal at 4.0 feet.
Bottom of borehole at 47.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-26

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/28/11 **COMPLETED** 9/28/11
GROUND ELEVATION 702.83 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Collin Sukow **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES Partly cloudy, mild.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0				▨	7.5	(CL) Clay, reddish yellow (7.5YR 7/8), lean, hard, moist. Grading to very pale brown (10YR 8/3), dry, at 2.5 ft.	695.3	
5								
				///⚞	8.4	Cuyahoga Formation. Weathered Shale, very pale brown to yellow, very soft, remnant laminations.	694.4	
				∴	8.5	Sandstone, reddish yellow, thickness unknown.	694.3	
10				///⚞	18.0	Weathered Shale, very pale brown to yellow, with interbedded sandstone seams.	684.8	
15								
20				∴		Cuyahoga Formation (Competent); 680 Sandstone. Sandstone, reddish brown, hard, fine-grained, thinly bedded.		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-26

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					20.1	Weathered Shale, very pale brown to yellow grading to medium gray (N5) at 20.6 ft, with interbedded sandstone seams, soft, laminated.	682.7	
					22.2	Sandstone, reddish brown to gray, 3.5 in. thick.	680.6	
25					22.5	Weathered Shale, medium gray (N5), with interbedded sandstone seams, occasional iron oxide staining.	680.3	
					26.2	Sandstone, fractured?, thickness unknown.	676.6	
					26.3	Weathered Shale, medium gray (N5), with interbedded sandstone seams, occasional iron oxide staining.	676.5	
					29.0	Sandstone, 1 in. thick.	673.8	
30					29.1	Weathered Shale, medium gray (N5), with interbedded sandstone seams, occasional iron oxide staining.	673.7	
					33.2	Sandstone, 2.5 in. thick.	669.6	
					33.4	Shale, transition from weathered shale?, medium gray (N5), with interbedded sandstone seams, occasional iron oxide staining.	669.4	
					34.6	Sandstone, 1 in. thick.	668.2	
35					34.7	Shale, medium gray (N5), with interbedded sandstone seams, occasional iron oxide staining.	668.1	
					38.6	Sandstone, 1 in. thick.	664.2	
40					38.7	Shale, medium gray (N5), with interbedded sandstone seams, occasional iron oxide staining.	664.1	
					40.5	Sandstone, 1 in. thick.	662.3	
					40.6	Shale, medium gray (N5), with interbedded sandstone seams, occasional iron oxide staining.	662.2	

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Fluor B&W

BORING NUMBER WD-SB-26

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					43.4		659.4	
					43.6	Sandstone, 2.5 in. thick.	659.2	
45						Shale, medium gray (N5), with interbedded sandstone seams, occasional iron oxide staining.		
					45.6		657.2	
					45.7	Sandstone, 1 in. thick.	657.1	
						Shale, medium gray (N5), with interbedded sandstone seams, occasional iron oxide staining.		
					47.5		655.3	
					47.7	Sandstone, 2.5 in. thick.	655.1	
50						Shale, medium gray (N5), grading to grayish blue green at 50.8 ft, with interbedded sandstone seams.		
					54.3		648.5	
					54.5	Sandstone, 2.5 in. thick.	648.3	
55						Shale, medium gray (N5) to grayish blue green (5BG 5/2) at 50.8 ft, then pale green (10G 6/2) at 54.2 ft, with interbedded sandstone seams.		
					56.0		646.8	
						Sunbury Shale. Shale, grayish black (N2), soft, laminated, gradational contact.		
					56.9		645.9	

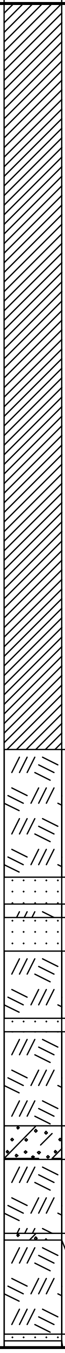
Refusal at 18.0 feet.
Bottom of borehole at 57.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-27

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/23/11 **COMPLETED** 9/24/11
GROUND ELEVATION 738.25 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Collin Sukow **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES Overcast, mild.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0 5 10					11.1	(CL) Clay, yellow (2.5Y 7/8), lean, medium, cohesive, moist, grading to reddish yellow at 10 ft, with occasional reddish brown (5YR 4/4) sandstone float.	727.2	
					13.0	Cuyahoga Formation. Weathered Shale, reddish yellow, soft, remnant laminations.	725.3	
					13.4	Cuyahoga Formation (Competent). Sandstone, dark reddish brown (10R 3/4), very hard, thinly bedded.	724.9	
					13.6	Weathered Shale, very pale brown, very soft, laminated.	724.7	
					14.1	Sandstone, dark reddish brown (10R 3/4), very hard, turbidite?, 6 in. thick.	724.2	
15					15.1	Weathered shale, very pale brown to light olive gray (5Y 6/1), soft, laminated.	723.2	
					15.3	Sandstone, dark reddish brown (10R 3/4), 2.5 in. thick.	723.0	
					16.7	Weathered shale, very pale brown to light olive gray (5Y 6/1), soft, laminated.	721.6	
					17.2	Sandstone, fractured, iron oxide staining, 6 in. thick.	721.1	
					18.3	Weathered shale, very pale brown to light olive gray (5Y 6/1), soft, laminated.	720.0	
					18.4	Sandstone, fractured, iron oxide staining, 1 in. thick.	719.9	
					19.8	Weathered shale, very pale brown to light olive gray (5Y 6/1), soft, laminated.	718.5	
20								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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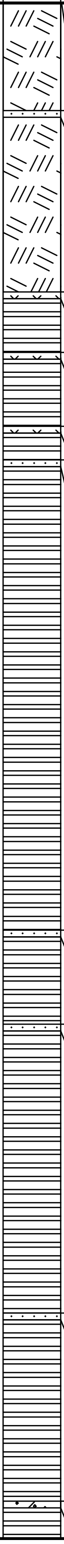
Logo Fluor B&W

BORING NUMBER WD-SB-27

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS (N VALUE) | ENVIRONMENTAL DATA | GRAPHIC LOG | MATERIAL DESCRIPTION | WELL DIAGRAM

Depth scale: 20, 25, 30, 35, 40



Depth	Material Description	Elevation
19.9	Sandstone, reddish brown, 1 in. thick.	718.4
	Weathered shale, very pale brown to light olive gray (5Y 6/1), soft, laminated. *(continued)*	
21.6		716.7
21.7	Sandstone, reddish brown, iron oxide staining, 1 in. thick.	716.6
	Weathered shale, very pale brown to light olive gray (5Y 6/1), soft, laminated.	
24.3		714.0
24.4	Siltstone, reddish brown, 1 in. thick.	713.9
	Shale, medium bluish gray (5B 5/1), soft, laminated.	
25.2		713.1
25.3	Siltstone, reddish brown, 1 in. thick.	713.0
	Shale, medium bluish gray (5B 5/1), soft, laminated.	
26.3		712.0
26.4	Siltstone, reddish brown, iron oxide staining, 1 in. thick.	711.9
26.8	Shale, medium bluish gray (5B 5/1), soft, laminated.	711.5
26.9	Sandstone, light gray (N7), 1 in. thick.	711.4
	Shale, medium bluish gray (5B 5/1), soft, laminated.	
33.8		704.5
33.9	Sandstone, 1 in. thick.	704.4
	Shale, medium bluish gray (5B 5/1), soft, laminated.	
35.2		703.1
35.3	Sandstone, 1 in. thick.	703.0
	Shale, medium bluish gray (5B 5/1), laminated.	
39.5		698.8
39.6	Sandstone, 1 in. thick.	698.7
	Shale, medium bluish gray (5B 5/1), laminated.	
42.3		696.0
42.4	Sandstone, fractured, 1 in. thick.	695.9

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-27

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, medium bluish gray (5B 5/1), laminated. *(continued)*		
45								
					45.8 45.9	Sandstone, 1 in. thick.	692.5 692.4	
						Shale, medium bluish gray (5B 5/1), laminated.		
50								
					53.7 53.8	Sandstone, 1 in. thick.	684.6 684.5	
						Shale, medium bluish gray (5B 5/1), laminated.		
					54.7 54.8	Sandstone, 1 in. thick.	683.6 683.5	
55						Shale, medium bluish gray (5B 5/1), laminated.		
					57.4	680 Sandstone. Sandstone, yellow to reddish brown, very hard, thinly bedded, weathered shale at upper contact.	680.9	
					59.4	Shale, medium bluish gray (5B 5/1), laminated.	678.9	
60								
					62.7 63.0	Sandstone, 3.5 in. thick.	675.6 675.3	
						Shale, medium bluish gray (5B 5/1), laminated.		
65								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-27

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION			WELL DIAGRAM
					66.0 66.1	Sandstone, 1 in. thick.	672.3 672.2	
						Shale, medium bluish gray (5B 5/1), laminated.		
					67.5 67.7	Sandstone, 2.5 in. thick.	670.8 670.6	
						Shale, medium bluish gray (5B 5/1), laminated.		
70								
					70.6 70.7	Sandstone, 1 in. thick.	667.7 667.6	
						Shale, medium bluish gray (5B 5/1), laminated.		
					73.8 74.0	Sandstone, 2.5 in. thick.	664.5 664.3	
						Shale, medium bluish gray (5B 5/1), laminated.		
					74.7 74.9	Sandstone, 2.5 in. thick.	663.6 663.4	
75						Shale, medium bluish gray (5B 5/1), laminated.		
					76.2 76.3	Sandstone, cross-bedded, 1 in. thick.	662.1 662.0	
						Shale, medium bluish gray (5B 5/1), laminated.		
					77.2 77.4	Sandstone, 2.5 in. thick.	661.1 660.9	
						Shale, medium bluish gray (5B 5/1), laminated.		
80								
					82.9 83.1	Sandstone, 2.5 in. thick.	655.4 655.2	
						Shale, medium bluish gray (5B 5/1), laminated.		
85								
					85.8 86.0	Sandstone, 2.5 in. thick.	652.5 652.3	
						Shale, medium bluish gray (5B 5/1), laminated.		

(Continued Next Page)

BORING NUMBER WD-SB-27

PAGE 5 OF 5

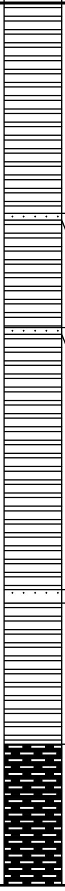
Logo Fluor B&W

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
					Shale, medium bluish gray (5B 5/1), laminated. *(continued)*		
90							
				91.7		646.6	
				91.8	Sandstone, 1 in. thick.	646.5	
					Shale, medium bluish gray (5B 5/1), laminated.		
				93.4		644.9	
				93.5	Sandstone, 1 in. thick.	644.8	
					Shale, medium bluish gray (5B 5/1), laminated.		
95							
				97.3		641.0	
				97.5	Sandstone, 2.5 in. thick.	640.8	
					Shale, medium bluish gray (5B 5/1), laminated.		
				99.6		638.7	
100					Sunbury Shale. Shale, grayish black (N2), soft, laminated, sulfide (pyrite) inclusions, sharp contact.		
				101.7		636.6	

Refusal at 13.0 feet.
Bottom of borehole at 101.7 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-28

PAGE 1 OF 5

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/25/11 **COMPLETED** 9/25/11
GROUND ELEVATION 751.84 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Collin Sukow **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES Partly cloudy, mild.
AFTER DRILLING ---

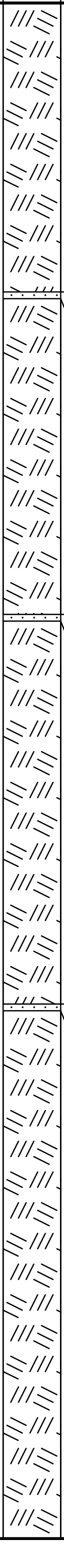
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					(CL) Clay, reddish yellow (5YR 6/6), lean, medium dense, moist, cohesive, with occasional yellowish red (5YR 5/8) sandstone float.	
5						
7.5					744.3	
					Cuyahoga Formation. Weathered Shale, very pale brown (5YR 5/2) grading to reddish yellow to light brown (5YR 5/6) at 12.5 ft, soft, remnant lamination.	
10						
14.3					737.5	
					Cuyahoga Formation (Competent). Weathered Shale, yellow to gray, with numerous interbedded thin sandstone seams, very soft, laminated.	
15						
19.2					732.6	
19.3					Sandstone, reddish yellow, iron oxide staining, 1 in. thick. 732.5	
20						

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-28

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20						Weathered Shale, yellow to gray, with numerous interbedded thin sandstone seams, laminated. *(continued)*		
					24.3 24.4	Sandstone, 1 in. thick.	727.5 727.4	
25						Weathered Shale, yellow to gray grading to medium gray (N5) Shale at 26.9 ft, with numerous interbedded thin sandstone seams, laminated.		
					29.1 29.2	Sandstone, 1 in. thick.	722.7 722.6	
30						Weathered Shale, medium gray (N5), with numerous interbedded thin sandstone seams, laminated.		
35					34.9 35.0	Sandstone, 1 in. thick.	716.9 716.8	
						Weathered Shale, medium gray (N5), with numerous interbedded thin sandstone seams, laminated.		
40								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-28

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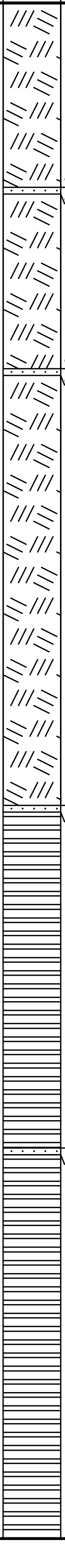
CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
					Weathered Shale, medium gray (N5), with numerous interbedded thin sandstone seams, laminated. *(continued)*	
45						
				45.6		706.2
				45.7	Sandstone, 1 in. thick.	706.1
					Weathered Shale, medium gray (N5), with numerous interbedded thin sandstone seams, laminated.	
				48.3		703.5
				48.4	Sandstone, 1 in. thick.	703.4
					Weathered Shale, medium gray (N5), with numerous interbedded thin sandstone seams, laminated.	
50						
				54.8		697.0
55				54.9	Sandstone, 1 in. thick.	696.9
					Shale (estimated transition from weathered shale), medium gray (N5), with interbedded thin sandstone seams.	
				59.9		691.9
60				60.0	Sandstone, 1 in. thick.	691.8
					Shale, medium gray (N5), with interbedded thin sandstone seams.	
65						

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-28

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
66.8					Shale, medium gray (N5), with interbedded thin sandstone seams. *(continued)*	685.0	
67.0					Sandstone, 2.5 in. thick.	684.8	
70.6					Shale, medium gray (N5), with interbedded thin sandstone seams. Weathered Shale, yellow, at 70.4 ft, soft, moist.	681.2	
72.6					680 Sandstone. Sandstone, reddish yellow, very hard, fractured, iron oxide staining.	679.2	
74.8					Shale, medium gray (N5), with interbedded thin sandstone seams.	677.0	
75.0					Sandstone, 2.5 in. thick.	676.8	
78.2					Shale, medium gray (N5), with interbedded thin sandstone seams.	673.6	
78.3					Sandstone, 1 in. thick.	673.5	
79.4					Shale, medium gray (N5), with interbedded thin sandstone seams.	672.4	
79.5					Sandstone, 1 in. thick.	672.3	
85.5					Shale, medium gray (N5), with interbedded thin sandstone seams.	666.3	
85.7					Sandstone, 2.5 in. thick.	666.1	
86.2					Shale, medium gray (N5), with interbedded thin sandstone seams.	665.6	
86.4					Sandstone, 2.5 in. thick.	665.4	
87.7					Shale, medium gray (N5), with interbedded thin sandstone seams.	664.1	
88.1					Sandstone, cross-bedded, 5 in. thick.	663.7	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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BORING NUMBER WD-SB-28

PAGE 5 OF 5

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
				89.1	Shale, medium gray (N5), with interbedded thin sandstone seams. *(continued)*	662.7	
				89.2	Sandstone, 1 in. thick.	662.6	
				89.6	Shale, medium gray (N5), with interbedded thin sandstone seams.	662.2	
				89.7	Sandstone, 1 in. thick.	662.1	
90				94.1	Shale, medium gray (N5), with interbedded thin sandstone seams.	657.7	
				94.3	Sandstone, 2.5 in. thick.	657.5	
95				96.8	Shale, medium gray (N5), with interbedded thin sandstone seams.	655.0	
				97.0	Sandstone, 1 in. thick.	654.8	
				99.3	Shale, medium gray (N5), with interbedded thin sandstone seams.	652.5	
				99.5	Sandstone, 2.5 in. thick.	652.3	
100 105				105.1	Shale, medium gray (N5), with interbedded thin sandstone seams.	646.7	
				105.2	Sandstone, 1 in. thick.	646.6	
				105.9	Shale, medium gray (N5), with interbedded thin sandstone seams.	645.9	
				106.0	Sandstone, 1 in. thick.	645.8	
				108.2	Shale, medium gray (N5), with interbedded thin sandstone seams. Grading to pale olive (10Y 6/2) at 106.8 ft.	643.6	
				108.4	Sandstone, 2.5 in. thick.	643.4	
				110.0	Shale, pale olive (10Y 6/2), with interbedded sandstone seams.	641.8	
110				110.9	Sunbury Shale. Shale, grayish black (N2), soft, laminated, gradual contact.	640.9	

Refusal at 14.3 feet.
Bottom of borehole at 110.9 feet.

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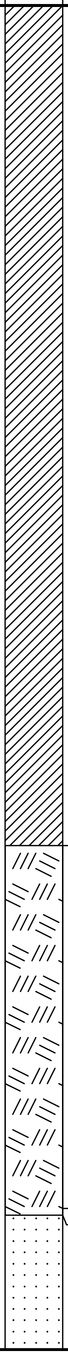
Logo Fluor B&W

BORING NUMBER WD-SB-29

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/29/11 **COMPLETED** 8/29/11
GROUND ELEVATION 699.13 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Collin Sukow **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0						(CL) Clay, pale brown (2.5Y 7/3) to reddish yellow (7.5Y 6/8), lean, very stiff, moist, a few weathered shale fragments. Grading to pale brown (2.5Y 8/4) with gray mottling at 7.5 ft.		
5								
10					12.5		686.6	
						Cuyahoga Formation. Weathered Shale, pale brown (5YR 5/2), very soft, dry, fissile.		
15					17.9		681.2	
					18.0	Cuyahoga Formation (Competent). Weathered Shale.	681.1	
						680 Sandstone. Sandstone, light brown (5YR 5/6), medium dense, thinly bedded, sharp contact.		
20								

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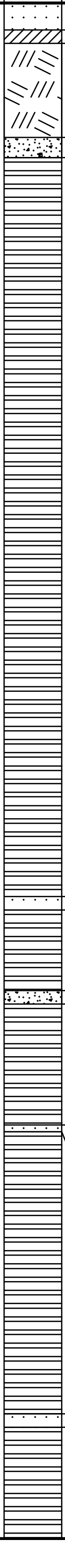
ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-29

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					20.4 20.6	(CL) Clay, light brown, lean, medium, moist.	678.7 678.5	
					22.0	Weathered Shale, pale brown (5YR 5/2) grading to medium gray (N5) Shale at 20.6 ft, laminated.	677.1	
					22.3	Sandstone, medium gray (N5), hard, thinly bedded, cross-bedded, 3.5 in. thick.	676.8	
25 30					33.3	Shale, gray, laminated.	665.8	
					33.5	Sandstone, thinly bedded, 2.5 in. thick.	665.6	
					34.7	Shale, gray, laminated.	664.4	
35					34.9	Sandstone, thinly bedded, cross-bedded, 2.5 in. thick.	664.2	
					36.7	Shale, gray, laminated.	662.4	
					36.8	Sandstone, 1 in. thick.	662.3	
40					41.0	Shale, gray, laminated.	658.1	
					41.2	Sandstone, 2.5 in. thick.	657.9	
						Shale, gray, laminated.		

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-29

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
					Shale, gray, laminated. *(continued)*	
				44.1 44.3	Sandstone, 2.5 in. thick. 655.0 654.8	
45				46.0	Shale, gray, laminated. 653.1	
				46.2	Sandstone, 2.5 in. thick. 652.9	
				48.2	Shale, gray, laminated. 650.9	
				48.4	Sandstone, 2.5 in. thick. 650.7	
50				52.7	Shale, gray, laminated. 646.4	
				53.0	Sandstone beds, 2 in. and 1 in. thick. 646.1	
55				55.1	Shale, gray, laminated, weathered zone at 55 ft. 644.0	
				55.6	Sandstone, 6 in. thick. 643.5	
				56.6	Shale, pale yellowish green. 642.5	
60 65					Sunbury Shale. Shale, grayish black (N2), soft, laminated, traces of sulfides throughout.	

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-29

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
				▨	66.2 632.9	

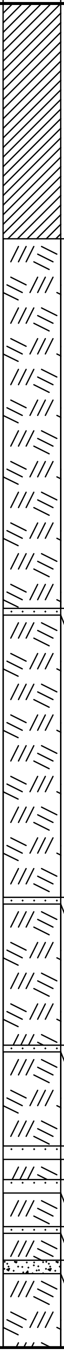
Refusal at 17.9 feet.
Bottom of borehole at 66.2 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-30

PAGE 1 OF 7

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/21/11 **COMPLETED** 9/22/11
GROUND ELEVATION 751.84 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Collin Sukow **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES Mid 70s. Mostly clear, mild.
AFTER DRILLING ---

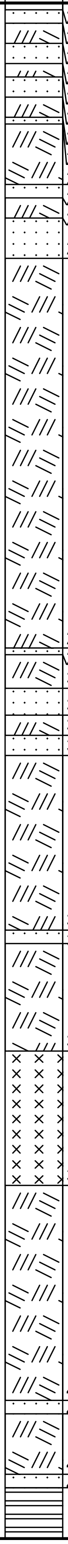
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0						(CL) Clay, very pale brown (10YR 7/3), lean, very stiff, most, cohesive, grading to brownish yellow (10YR 6/8) at 1 ft, reddish yellow (7.5YR 6/8) at 2.5 ft.		
					3.5		748.3	
5						Cuyahoga Formation. Weathered Shale, yellow (10YR 7/8), very soft, remnant laminations. Grading to very pale brown at 7.5 ft.		
					9.0		742.8	
					9.1	Sandstone, reddish brown, 1 in. thick.	742.7	
10						Weathered Shale, very pale brown.		
					13.3		738.5	
					13.4	Sandstone, reddish brown, 1 in. thick.	738.4	
15						Weathered Shale, very pale brown.		
					15.5		736.3	
					15.6	Sandstone, reddish brown, 1 in. thick.	736.2	
						Weathered Shale, very pale brown.		
					17.0		734.8	
					17.2	Cuyahoga Formation (Competent). Sandstone, light brown (5YR 5/6), hard, thinly bedded.	734.6	
					17.5	Weathered Shale, yellowish gray (5Y 8/1), soft, laminated.	734.3	
					17.7	Sandstone, yellowish gray (5Y 8/1), 2.5 in. thick.	734.1	
					18.2	Weathered Shale, yellowish gray (5Y 8/1), soft, laminated.	733.6	
					18.3	Sandstone, light brown (5YR 5/6), 1 in. thick.	733.5	
					18.7	Weathered Shale, yellowish gray (5Y 8/1), soft, laminated.	733.1	
					18.9		732.9	
20								

(Continued Next Page)

BORING NUMBER WD-SB-30

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	Depth	MATERIAL DESCRIPTION	Elevation	WELL DIAGRAM
20					20.1 20.3 20.6 20.9 21.1 21.4 21.7 21.8 22.7 22.9 23.2 23.8	Sandstone, light brown (5YR 5/6), cross-bedded, 2.5 in. thick. Weathered Shale, yellowish gray (5Y 8/1) grading to medium gray (N5) at 19.6 ft. *(continued)* Sandstone, light brown (5YR 5/6) to yellowish brown, 2.5 in. thick. Weathered Shale, medium gray (N5). Sandstone, medium gray (N5) to light brown (5YR 5/6), 3.5 in. thick. Weathered Shale, medium gray (N5). Sandstone, medium gray (N5), 3.5 in. thick. Weathered Shale, medium gray (N5). Sandstone, 1 in. thick. Weathered Shale, medium gray (N5). Sandstone, light brown (5YR 5/6), 2.5 in. thick. Weathered Shale, medium gray (N5). 720 Sandstone. Sandstone, light brown (5YR 5/6), hard, turbidite? Bed, with clay inclusions.	731.7 731.5 731.2 730.9 730.7 730.4 730.1 730.0 729.1 728.9 728.6 728.0	
25					29.6	Weathered Shale, yellow, very soft, laminated, grading to gray at 24.1 ft, soft.	722.2	
30					29.7	Sandstone, 1 in. thick.	722.1	
					30.2	Weathered Shale, gray.	721.6	
					30.6 30.9 31.2	Sandstone beds, 2 in. thick each, separated by thin Shale bed.	721.2 720.9 720.6	
					33.8	Weathered Shale, gray, with occasional interbedded thin sandstone seams. Sandstone, 3.5 in. thick. Weathered Shale, gray, with occasional interbedded thin sandstone seams.	718.0	
					34.0	Sandstone, 2.5 in. thick.	717.8	
35					35.6	Weathered Shale, gray, with occasional interbedded thin sandstone seams.	716.2	
					37.6	Siltstone, 2ft thick layer of Shale with numerous thin siltstone interbeds.	714.2	
40					40.8	Weathered Shale, gray, with occasional interbedded thin sandstone seams.	711.0	
					41.0	Sandstone, 2.5 in. thick.	710.8	
					41.9	Weathered Shale transition to Shale (estimated), gray, with infrequent interbedded thin sandstone seams.	709.9	
					42.1	Sandstone, 2.5 in. thick.	709.7	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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BORING NUMBER WD-SB-30

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	MATERIAL DESCRIPTION	Elevation
	Shale, gray, with infrequent interbedded thin sandstone seams. *(continued)*	
43.6		708.2
43.8	Sandstone, 2 in. thick.	708.1
	Shale, gray, with infrequent interbedded thin sandstone seams.	
45		
45.4		706.4
45.6	Sandstone, 2 in. thick.	706.3
	Shale, gray, with infrequent interbedded thin sandstone seams.	
47.6		704.2
47.7	Sandstone, 1 in. thick.	704.1
	Shale, gray, with infrequent interbedded thin sandstone seams.	
50		
54.5		697.3
54.6	Sandstone, 1 in. thick.	697.2
	Shale, gray, with infrequent interbedded thin sandstone seams.	
55		
57.9		693.9
58.0	Sandstone, 1 in. thick.	693.8
	Shale, gray.	
60		
61.2		690.6
61.3	Sandstone, 1 in. thick.	690.5
	Shale, gray.	
62.7		689.1
62.8	Sandstone, 1 in. thick.	689.0
	Shale, gray.	
65		
65.0		686.8
65.1	Sandstone, 1 in. thick.	686.7

WELL DIAGRAM

(Continued Next Page)

Logo Fluor B&W

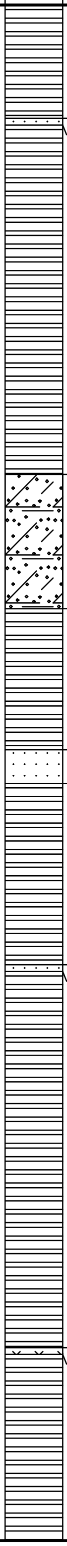
BORING NUMBER WD-SB-30

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, gray. Shale, gray. *(continued)*		
					67.4 67.5	Sandstone, 1 in. thick.	684.4 684.3	
						Shale, gray.		
70								
					72.7	680 Sandstone. Sandstone, light brown (5YR 5/6), hard, thinly bedded, fractured, iron oxide staining and fracture infilling.	679.1	
					74.7	Shale, gray.	677.1	
75								
					76.8	Sandstone, 6 in. thick.	675.0	
					77.3	Shale, gray.	674.5	
80					80.0 80.1	Sandstone, 1 in. thick.	671.8 671.7	
						Shale, gray.		
85								
					85.7 85.8	Siltstone, 1 in. thick.	666.1 666.0	
						Shale, gray.		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-30

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	MATERIAL DESCRIPTION	
88.7	Sandstone, 2.5 in. thick.	663.1
88.9	Shale, gray.	662.9
89.4	Siltstone, cross-bedded, 1 in. thick.	662.4
89.5	Shale, gray.	662.3
90.0	Siltstone, cross-bedded, 1 in. thick.	661.8
90.1	Shale, gray.	661.7
91.9	Siltstone, cross-bedded, 1 in. thick.	659.9
92.0	Shale, gray.	659.8
92.2	Sandstone, 1 in. thick.	659.6
92.3	Shale, gray.	659.5
92.8	Siltstone, 1 in. thick.	659.0
92.9	Shale, gray.	658.9
96.8	Sandstone, 2.5 in. thick.	655.0
97.0	Shale, gray.	654.8
97.4	Siltstone, 1 in. thick.	654.4
97.5	Shale, gray.	654.3
98.1	Sandstone, 1 in. thick.	653.7
98.2	Shale, gray.	653.6
99.6	Sandstone, 2.5 in. thick.	652.2
99.8	Shale, gray.	652.0
102.1	Sandstone, 1 in. thick.	649.7
102.2	Shale, gray.	649.6
104.2	Sandstone, 2.5 in. thick.	647.6
104.4	Shale, gray, grading to grayish blue green at 111 ft.	647.4

(Continued Next Page)

Logo Fluor B&W

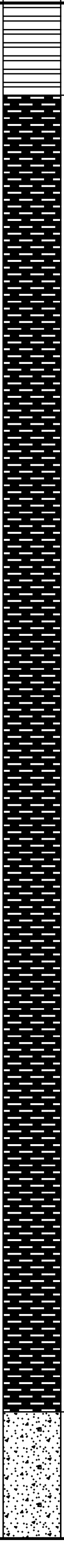
BORING NUMBER WD-SB-30

CLIENT Fluor B&W Portsmouth

PROJECT NUMBER

PROJECT NAME OSDC Geotechnical Investigation

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
					Shale, gray, grading to grayish blue green at 111 ft. *(continued)*	
				112.8	Sunbury Shale. Shale, grayish black (N2), soft, laminated, sulfide (pyrite) inclusions, gradual contact.	639.0
115						
120						
125						
130						
				132.4	Berea Sandstone. Sandstone, greenish gray (5GY 6/1), very hard, thinly bedded, sharp contact. Occasional cross-bedding, at 141.6 and 146.5 ft.	619.4

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-30

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION	WELL DIAGRAM
135 140 145					148.0	Berea Sandstone. Sandstone, greenish gray (5GY 6/1), very hard, thinly bedded, sharp contact. Occasional cross-bedding, at 141.6 and 146.5 ft. *(continued)* 603.8	

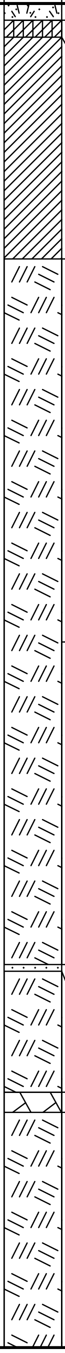
Refusal at 17.0 feet.
Bottom of borehole at 148.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-31

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/30/11 **COMPLETED** 8/31/11
GROUND ELEVATION 744.51 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Pete Sudkamp **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---



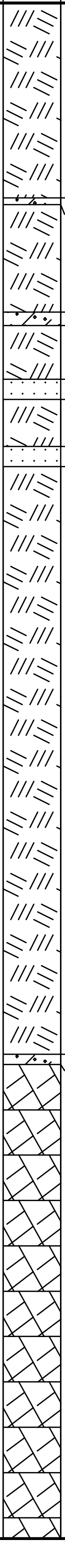
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0				0.3	Topsoil, black organic, cry.	744.3	
				0.5	(CL-ML) Silty Clay, light brown, trace roots, light organic odor.	744.0	
				3.8	(CL) Clay, light brown (7.5YR 6/3 or 6/4), lean, trace silt, sand, and roots, medium stiff, dry. Becomes hard with depth.	740.7	
5				9.5	Cuyahoga Formation. Weathered Shale, brown to light brown (5YR 5/6), laminated, dry, crumbly, fractured at depth. Sandy Shale at 8-8.5 ft.	735.0	
10				14.3	Cuyahoga Formation (Competent). Weathered Shale, brown, soft, fractured.	730.2	
				14.4	Sandstone, 1 in. thick.	730.1	
15				16.2	Weathered Shale, brown, soft, fractured. Grading to brown and gray at 17 ft, gray with brown seams at 20 ft, iron oxide staining.	728.3	
				16.5	720 Sandstone. Sandy Shale, fractured.	728.0	
20					Weathered Shale, brown and gray at 17 ft, gray with brown seams at 20 ft, iron oxide staining.		

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-31

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20						Weathered Shale, brown and gray at 17 ft, gray with brown seams at 20 ft, iron oxide staining. *(continued)*		
					22.9 23.0	Weathered Sandstone, soft to medium-hard, fractured, 1 in. thick.	721.6 721.5	
						Weathered Shale, gray, iron oxide staining.		
25					24.6 24.8	Weathered Sandstone, fractured, iron oxide staining, 2.5 in. thick.	719.9 719.7	
					25.6	Weathered Shale, gray, fractured, iron oxide staining.	718.9	
					25.9	Sandstone, moderately hard, 3.5 in. thick.	718.6	
					26.6	Weathered Shale, gray, fractured, iron oxide staining.	717.9	
					26.9	Sandstone, moderately hard, 3.5 in. thick.	717.6	
30						Weathered Shale, gray, fractured, iron oxide staining, grading to Shale at 32ft, gray, fractured to sound, with occasional interbedded sandstone seams.		
35					35.7 35.8	Sandstone, fractured, 2 in. thick.	708.9 708.7	
40						Shale, gray, soft, sound, fractured, with occasional interbedded sandstone seams.		

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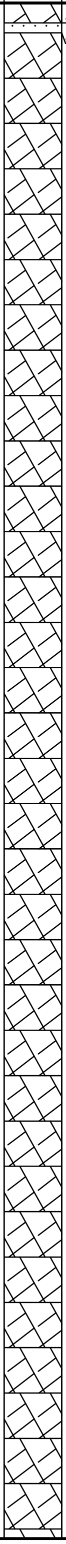
Logo Fluor B&W

BORING NUMBER WD-SB-31

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					43.2		701.4	
					43.3	Sandstone, 2 in. thick.	701.2	
						Shale, gray, fractured.		
45								
50								
55								
60								
65								



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Logo Fluor B&W

BORING NUMBER WD-SB-31

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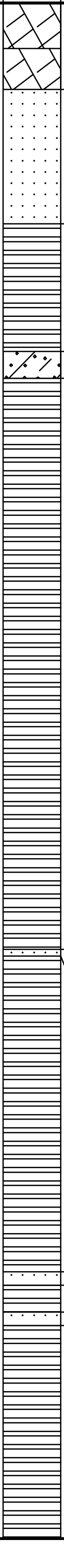
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

Depth scale (ft): 70, 75, 80, 85



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	Elevation	WELL DIAGRAM
					Shale, gray, fractured. *(continued)*		
67.0					680 Sandstone. Sandstone, light gray (N7), moderately hard.	677.5	
69.0					Shale, gray to dark gray (N3), medium hard?	675.5	
70.9					Sandstone, light gray (N7), moderately hard, fractured at base.	673.6	
71.3					Shale, medium gray (N5), with interbedded fine siltstone and sandstone seams, sound.	673.2	
79.8					Sandstone, 1 in. thick.	664.7	
79.9					Shale, medium gray (N5), with interbedded fine siltstone and sandstone seams.	664.6	
84.6					Sandstone, 2 in. thick.	659.9	
84.8					Shale, medium gray (N5), with interbedded fine siltstone and sandstone seams.	659.7	
85.2					Sandstone, 2 in. thick.	659.3	
85.4					Shale, medium gray (N5), with interbedded fine siltstone and sandstone seams.	659.1	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-31

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, medium gray (N5), with interbedded fine siltstone and sandstone seams. *(continued)*		
					89.6		654.9	
90					89.9	Sandstone, 3.5 in. thick.	654.6	
						Shale, medium gray (N5), with interbedded fine siltstone and sandstone seams.		
					94.7		649.8	
95					95.0	Sandstone, medium to medium hard, 3.5 in. thick.	649.5	
						Shale, medium gray (N5), with interbedded fine siltstone and sandstone seams.		
					95.8		648.7	
					96.0	Sandstone, 2 in. thick? Fracture above sandstone.	648.5	
						Shale, gray, with interbedded fine siltstone and sandstone seams, medium to medium-hard, sound.		
100								
105								
					105.7		638.8	
						Sunbury Shale. Shale, black (N1) to dark gray (N3) and medium gray (N5), sound. Occasional sulfide (pyrite) inclusions.		
110								

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Logo Fluor B&W

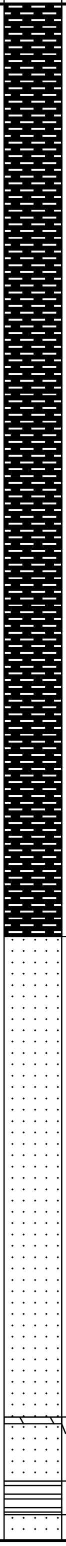
BORING NUMBER WD-SB-31

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
115 120 125					125.3	Sunbury Shale. Shale, black (N1) to dark gray (N3) and medium gray (N5), sound. Occasional sulfide (pyrite) inclusions. *(continued)*	619.2	
130					132.5	Berea Sandstone. Sandstone, gray, medium-hard to hard, fine-grained, sound.	612.1	
					132.6	Shale, fractured.	612.0	
					133.4	Sandstone, gray, hard, fine-grained.	611.1	
					133.9	Shale, slightly weathered, sound.	610.6	
						Sandstone, gray, hard, fine-grained.		

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Logo Fluor B&W

BORING NUMBER WD-SB-31

CLIENT Fluor B&W Portsmouth
PROJECT NUMBER
PROJECT NAME OSDC Geotechnical Investigation
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
135				136.0	Sandstone, gray, hard, fine-grained. *(continued)*	608.5	
				136.4	Shale, slightly weathered, thinly bedded, fractured.	608.1	
				138.8	Sandstone, gray, hard, fine-grained.	605.7	
				139.0	Shale, weathered.	605.5	
140				140.3	Sandstone, gray, hard, fine-grained.	604.2	

Refusal at 9.5 feet.
Bottom of borehole at 140.3 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-32

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DATE STARTED 9/25/11 **COMPLETED** 9/25/11

GROUND ELEVATION 721.85 ft MSL **HOLE SIZE** 4.25 in.

DRILLING CONTRACTOR M&W Drilling

GROUND WATER LEVELS:

DRILLING METHOD Split Spoon/Auger

AT TIME OF DRILLING ---

LOGGED BY Pete Sudkamp **CHECKED BY** Jim Fleck

AT END OF DRILLING ---

NOTES None.

AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0					0.5	Topsoil, vegetative matter.	721.4	
				▨	2.0	(CL) Clay, lean, trace silt, sand, and gravel (shale fragments), roots, moist to dry, stiff.	719.9	
5				▨	7.5	(CL) Clay, lean, trace silt and sand, dry, very stiff, crumbly, grading to light gray (7.5YR 7/1) at 5 ft.	714.4	
10				///⋝	12.5	Cuyahoga Formation. Weathered Shale, fractured, a few sand lenses with iron oxide staining.	709.4	
15				▨	15.0	(CL) Clay, brownish gray, lean, dry, hard, weathered, fissile, with clayey to silty shale fragments.	706.9	
20				///⋝		Cuyahoga Formation (Competent). Weathered Shale, brown, soft to very soft, fractured. Grading to gray, slightly weathered shale with moderate fracturing at 19.3 ft, iron oxide staining.		

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Logo Fluor B&W

BORING NUMBER WD-SB-32

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

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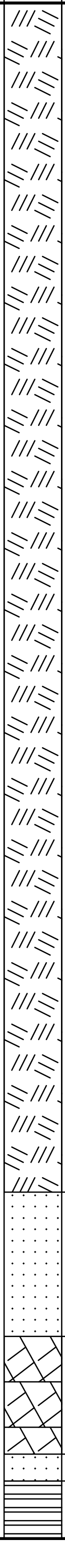
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20						Cuyahoga Formation (Competent). Weathered Shale, brown, soft to very soft, fractured. Grading to gray, slightly weathered shale with moderate fracturing at 19.3 ft, iron oxide staining. *(continued)*		
25								
30								
35					37.7		684.2	
						680 Sandstone. Sandstone, hard, sound, iron oxide staining.		
					39.9		682.0	
40						Shale, gray, medium hard, fractured, some iron oxide staining.		
					41.6		680.3	
					42.0	Sandstone, gray, hard, 5 in. thick.	679.9	
						Shale, gray, medium to medium-hard.		

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ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-32

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, gray, medium to medium-hard. *(continued)*		
45								
					47.3 47.4	Sandstone, 1 in. thick.	674.6 674.5	
						Shale, gray, medium to medium-hard.		
50								
					50.3 50.5	Sandstone, 2.5 in. thick.	671.6 671.4	
						Shale, gray, with interbedded siltstone and sandstone seams.		
					52.0 52.2	Sandstone, 2.5 in. thick.	669.9 669.7	
						Shale, gray, with interbedded siltstone and sandstone seams.		
55								
					56.1 56.2	Sandstone, 1 in. thick.	665.8 665.7	
						Shale, gray, with interbedded siltstone and sandstone seams.		
					59.5 59.7	Sandstone, 2.5 in. thick.	662.4 662.2	
60						Shale, gray, with interbedded siltstone and sandstone seams.		
					62.0 62.2	Sandstone, 2.5 in. thick.	659.9 659.7	
						Shale, gray, with interbedded siltstone and sandstone seams.		
					64.3 64.5	Sandstone, 1 in. thick.	657.6 657.4	
65						Shale, gray, with interbedded siltstone and sandstone seams.		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-32

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
				66.5	Shale, gray, with interbedded siltstone and sandstone seams. *(continued)* 655.4	
				66.8	Sandstone, 1.5 in. thick. 655.1	
70				74.8	Shale, gray, with interbedded siltstone and sandstone seams. 647.1	
75				77.0	Sunbury Shale. Shale, black (N1), medium, sound. 644.9	

Refusal at 15.0 feet.
Bottom of borehole at 77.0 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-33

PAGE 1 OF 6

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/10/11 **COMPLETED** 9/14/11
GROUND ELEVATION 742.62 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Pete Sudkamp **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						
2.0					(CL) Clay, brown (10YR 5/3 or 4/3), lean, moist, soft, some silt, traced fine sand, trace to little roots and sandstone fragments. 740.6	
6.0					Gravelly Clay, brown (10YR 5/3 or 4/3), lean, with fine to medium gravel (sandstone and shale fragments), little silt, trace to medium sand. 736.6	
11.0					Cuyahoga Formation. Weathered Sandy Shale, gray and brown, dry, very soft, thin bedding, crumbly. 731.6	
12.5					Cuyahoga Formation (Competent), Inferred. Washout, only shale fragments recovered. 730.1	
14.4					Weathered Shale, brown, very soft, fractured. 728.2	
14.9					Sandstone, brown, soft, 6 in. thick. 727.7	
20.0					Weathered Sandy Shale, gray and brown, soft to very soft, fractured. 722.6	

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-33

PAGE 2 OF 6

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft) 20	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					21.0	Sandstone, brown, hard, iron oxide staining, 12 in. thick.	721.6	
					23.2	Weathered Sandy Shale, gray and brown, soft to very soft, fractured.	719.4	
					23.7	720 Sandstone. Sandstone, brown, hard, 6 in. thick.	718.9	
25					26.0	Shale, gray, with interbedded sandstones, 4-6 in. thickness typical, decreasing in thickness below 26 ft to 0.5-1 in.	716.6	
30 35 40					41.4	Shale, gray, medium hard, sound.	701.2	
					41.5	Sandstone, 1 in. thick.	701.1	
					42.7	Shale, gray, medium hard, sound.	700.0	

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-33

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
					42.8	Sandstone, 1 in. thick.	699.9	
						Shale, gray, medium hard, sound. *(continued)*		
45								
50								
					50.6		692.0	
					50.7	Sandstone, 1 in. thick.	691.9	
						Shale, gray.		
55								
					58.8		683.8	
					59.0	Sandstone, 2 in. thick.	683.7	
						Shale, gray, medium hard, sound.		
60								
65								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-33

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

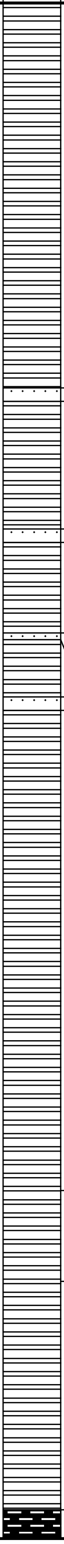
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
66.3					Shale, gray, medium hard, sound. *(continued)*	676.3	
68.4					680 Sandstone. Sandstone, gray, hard, sound, vf to fine-grained.	674.2	
70							
70.6					Shale, gray, medium hard, sound.	672.0	
71.0					Sandstone, gray, hard, sound, vf to fine-grained.	671.6	
74.2					Shale, gray, medium hard, sound.	668.4	
74.4					Sandstone, 2.5 in. thick.	668.2	
74.7					Shale, gray, medium hard, sound.	668.0	
75							
75.8					Sandstone, 13 in. thick.	666.9	
80							
83.0					Shale, gray.	659.6	
83.2					Sandstone, 2.5 in. thick.	659.4	
85							
85.6					Shale, gray.	657.0	
85.7					Sandstone, 1 in. thick.	656.9	
87.6					Shale, gray.	655.0	
87.7					Sandstone, 1 in. thick.	654.9	
					Shale, gray.		

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-33

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
					Shale, gray. *(continued)*		
94.3						648.3	
94.5					Sandstone, 2.5 in. thick.	648.1	
					Shale, gray, with interbedded fine sandstone seams, medium hard, sound.		
96.4						646.2	
96.6					Sandstone, 2.5 in. thick.	646.0	
					Shale, gray, hard, sound.		
98.0						644.7	
98.1					Sandstone, 1 in. thick.	644.6	
					Shale, gray, hard, sound.		
98.9						643.7	
99.1					Sandstone, 2.5 in. thick.	643.5	
					Shale, gray, hard, sound.		
106.3						636.4	
					Shale, gray, soft, sound, slightly weathered.		
107.6						635.0	
					Shale, gray, hard, sound.		
111.0						631.6	

Depth scale: 90, 95, 100, 105, 110

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-33

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION	WELL DIAGRAM
				▨		Sunbury Shale. Shale, black (N1), medium hard to hard, sound, some pyrite inclusions. *(continued)*	
115				▨			
120				▨			
125				▨	126.0	616.6	

Refusal at 11.0 feet.
Bottom of borehole at 126.0 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-34

PAGE 1 OF 4

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/26/11 **COMPLETED** 9/27/11
GROUND ELEVATION 728.05 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Collin Sukow **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES Overcast, rain.
AFTER DRILLING ---

DEPTH (ft) 0	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
				3.4	(CL) Clay, reddish yellow (7.5YR 7/8), lean, very stiff, moist, cohesive. Grades to very pale brown at 3.2 ft.	724.7	
				3.6	Cuyahoga Formation. Sandstone, brownish yellow (10YR 6/6), 2.5 in. thick.	724.5	
				4.2	(CL) Clay.	723.9	
				4.3	Sandstone, brownish yellow, 2 in. thick.	723.8	
5				7.5	(CL) Clay.	720.6	
				8.7	Weathered Shale, very pale brown (10YR 7/3), very soft, remnant laminations.	719.4	
				8.8	Sandstone, brownish yellow (10YR 6/6), no thickness identified.	719.3	
10				10.4	Weathered Shale, very pale brown (5YR 5/2), very soft, laminations.	717.7	
				10.5	Sandstone, yellow, 1 in. thick.	717.6	
				11.4	Weathered Shale, very pale brown (5YR 5/2), very soft, laminations.	716.7	
				13.2	Cuyahoga Formation (Competent). Weathered Shale, very pale brown, soft, laminations.	714.9	
				13.3	Sandstone, red, iron oxide staining, 1 in. thick.	714.8	
				14.3	Weathered Shale, very pale brown (5YR 5/2), laminations.	713.8	
				14.4	Sandstone, red, iron oxide staining, 1 in. thick.	713.7	
				14.8	Weathered Shale, very pale brown (5YR 5/2), laminations.	713.3	
15				14.9	Sandstone, red, iron oxide staining, 1 in. thick.	713.2	
				16.1	Weathered Shale, very pale brown (5YR 5/2), laminations.	712.0	
				16.2	Sandstone, red, iron oxide staining, 1 in. thick.	711.9	
				18.4	Weathered Shale, very pale brown (5YR 5/2), laminations.	709.7	
				18.5	Sandstone, red, iron oxide staining, 1 in. thick.	709.6	
20					Weathered Shale, very pale brown (5YR 5/2).		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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BORING NUMBER WD-SB-34

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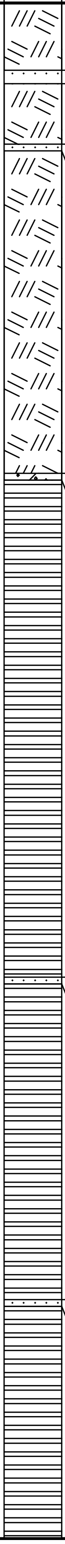
Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					21.0	Weathered Shale, very pale brown (5YR 5/2). *(continued)*	707.1	
					21.2	Sandstone, red, iron oxide staining, 2 in. thick.	706.9	
					22.1	Weathered Shale, very pale brown (5YR 5/2), with interbedded fine sandstone seams.	706.0	
					22.2	Sandstone, red, iron oxide staining, 1 in. thick.	705.9	
25					27.0	Weathered Shale, very pale brown (5YR 5/2), with interbedded fine sandstone seams. Grading to medium gray (N5) Shale at 25.3 ft.	701.1	
					27.1	Sandstone, red, fractured, iron oxide staining, 1 in. thick.	701.0	
30					34.5	Shale, medium gray (N5).	693.6	
					34.6	Sandstone, gray, iron oxide staining, 1 in. thick.	693.5	
35					39.3	Shale, medium gray (N5).	688.8	
					39.4	Sandstone, 1 in. thick.	688.7	
40						Shale, medium gray (N5).		

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Logo Fluor B&W

BORING NUMBER WD-SB-34

CLIENT Fluor B&W Portsmouth

PROJECT NUMBER

PROJECT NAME OSDC Geotechnical Investigation

PROJECT LOCATION Remediation Area IV-B

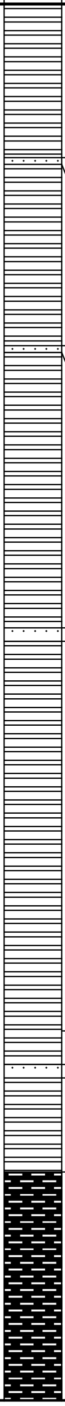
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, medium gray (N5). *(continued)*		
45								
					45.6	680 Sandstone. Sandstone, red, fine-grained, thinly bedded, hard, weathered shale at upper contact.	682.5	
					47.5	Shale, medium gray (N5).	680.6	
					49.5		678.6	
					49.8	Sandstone, fractured, 3.5 in. thick.	678.3	
50						Shale, medium gray (N5).		
					54.0		674.1	
					54.2	Sandstone, 2 in. thick.	673.9	
55						Shale, medium gray (N5).		
					57.6		670.5	
					57.7	Sandstone, 1 in. thick.	670.4	
						Shale, medium gray (N5).		
60								
					63.5		664.6	
					63.6	Sandstone, 1 in. thick.	664.5	
						Shale, medium gray (N5).		
65								

(Continued Next Page)

BORING NUMBER WD-SB-34

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	TOP DEPTH (ft)	MATERIAL DESCRIPTION	ELEVATION	WELL DIAGRAM
					Shale, medium gray (N5). *(continued)*		
				68.0		660.1	
				68.1	Sandstone, 1 in. thick.	660.0	
70					Shale, medium gray (N5).		
				70.8		657.3	
				70.9	Sandstone, 1 in. thick.	657.2	
					Shale, medium gray (N5).		
75				75.0		653.1	
				75.2	Sandstone, 2 in. thick.	652.9	
80					Shale, medium gray (N5), with interbedded sandstone seams.		
				81.0	Shale, grayish blue green.	647.1	
				81.5		646.6	
				81.7	Sandstone, 2 in. thick.	646.4	
					Shale, grayish blue green.		
				83.1	Sunbury Shale. Shale, grayish black (N2), soft, laminated, gradual contact.	645.0	
85							
				86.5		641.6	

Refusal at 11.4 feet.
Bottom of borehole at 86.5 feet.

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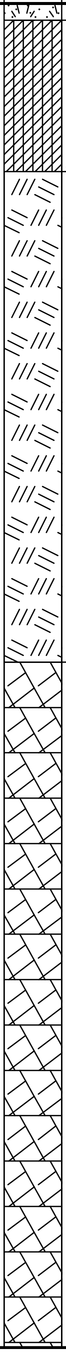
Logo Fluor B&W

BORING NUMBER WD-SB-35

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/23/11 **COMPLETED** 9/24/11
GROUND ELEVATION 727.23 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Pete Sudkamp **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0					0.3	Organic forest bed.	727.0	
					2.5	(CL-ML) Silty Clay, light brown (7.5YR 6/3 or 6/4), stiff, trace fine sand, some shale fragments.	724.7	
5					9.8	Cuyahoga Formation. Weathered Shale and Silty Clay, light brown (5YR 5/6) with gray mottling, trace sand. Grading to Weathered Shale, gray, at 5 ft.	717.4	
10						Cuyahoga Formation (Competent). Shale, brown, very soft, fractured, interbedded sandstone seams at 12 ft, occasional iron oxide staining.		
15								
20								

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Logo Fluor B&W

BORING NUMBER WD-SB-35

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20						Cuyahoga Formation (Competent). Shale, brown, very soft, fractured, interbedded sandstone seams at 12 ft, occasional iron oxide staining. *(continued)*		
25								
30								
35								
					37.0	Shale, gray.	690.2	
40					40.0	680 Sandstone. Silty Sandstone, red-brown, medium hard?, moderately fractured.	687.2	
					42.0	Shale, gray, medium hard, sound, fractured.	685.2	

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BORING NUMBER WD-SB-35

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, gray, medium hard, sound, fractured. *(continued)*		
45					44.7 45.0	Sandstone, gray, hard, 3.5 in. thick.	682.6 682.3	
50						Shale, gray, medium hard, sound, fractured.		
55					55.0 55.2	Sandstone, 2.5 in. thick.	672.2 672.0	
						Shale, gray, medium hard, sound, fractured.		
					58.8 59.0	Sandstone, 2.5 in. thick.	668.4 668.2	
60						Shale, gray, with interbedded sandstone seams, fractured.		
					62.3 62.4	Sandstone, 1 in. thick.	664.9 664.8	
65						Shale, gray, with interbedded sandstone seams, fractured.		

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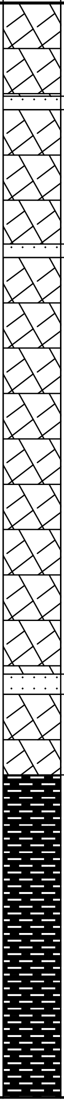
Logo Fluor B&W

BORING NUMBER WD-SB-35

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					67.1	Shale, gray, with interbedded sandstone seams, fractured. *(continued)*	660.1	
					67.3	Sandstone, 2.5 in. thick.	659.9	
					69.3	Shale, gray, with interbedded sandstone seams, fractured.	657.9	
					69.5	Sandstone, 2.5 in. thick.	657.7	
70 75					75.7	Shale, gray, with interbedded sandstone seams, fractured.	651.5	
					76.0	Sandstone, 3.5 in. thick.	651.2	
					77.2	Shale, gray, with interbedded sandstone seams, fractured.	650.0	
80					82.0	Sunbury Shale. Shale, black (N1), medium hard, sound.	645.2	

Refusal at 9.8 feet.
Bottom of borehole at 82.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-36

CLIENT Fluor B&W Portsmouth	**PROJECT NAME** OSDC Geotechnical Investigation
PROJECT NUMBER	**PROJECT LOCATION** Remediation Area IV-B
DATE STARTED 9/20/11 **COMPLETED** 9/22/11	**GROUND ELEVATION** 752.48 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling	**GROUND WATER LEVELS:**
DRILLING METHOD Split Spoon/Auger	**AT TIME OF DRILLING** ---
LOGGED BY Bill Reid **CHECKED BY** Allison Lake	**AT END OF DRILLING** ---
NOTES None.	**AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0							
0.5					(CL) Sandy Clay, light brown (7.5YR 6/3 or 6/4), lean, trace silt and roots, medium stiff.	752.0	
2.0					Clay, light reddish brown (5YR 6/3 or 6/4), lean to FAT, some sandstone fragments and roots, medium stiff.	750.5	
8.1					(CL-ML) Clay, light reddish brown (5YR 6/3 or 6/4) and gray, mottled, some roots and sandstone fragments, little sand and silt, slightly moist, crumbly. Weathered Shale lens at 8.1 ft.	744.4	
10.0					(CH) Clay, light reddish brown (5YR 6/3 or 6/4), FAT.	742.5	
12.0					Cuyahoga Formation. Weathered Shale, light reddish brown, fissile, grading to light brown (5YR 5/6), iron oxide staining throughout.	740.5	
14.4					Cuyahoga Formation (Competent). Weathered Shale, brown.	738.1	
14.8					Sandstone, gray, 5 in. thick.	737.7	
15.8					Weathered Shale/Mudstone, brownish gray (5YR 4/1).	736.7	
16.5					Sandstone, brown.	736.0	
16.9					Weathered Shale, brown.	735.6	
17.0					Sandstone, brown, 1.5 in. thick.	735.5	
17.9					Weathered Shale, brown.	734.6	
18.3					Sandstone, reddish brown, 5 in. thick.	734.2	
18.7					Weathered Shale, brown.	733.8	
18.9					Sandstone, 2.5 in. thick.	733.6	
19.3					Weathered Shale, gray.	733.2	
19.5					Sandstone, reddish brown, 2.5 in. thick.	733.0	
20							

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Logo Fluor B&W

BORING NUMBER WD-SB-36

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
20					Weathered Shale, gray, fissile. *(continued)*	
					21.1 731.4	
					Sandstone, reddish brown, 5 in. thick.	
					21.5 731.0	
					Weathered Shale, gray, fissile.	
					21.8 730.7	
					Sandstone, reddish brown, 2.5 in. thick.	
					22.0 730.5	
					Weathered Shale, gray, iron oxide staining, grading to Shale, gray, fractured.	
					23.1 729.4	
					Sandstone, tan, 3 in. thick.	
					23.3 729.2	
					Shale, gray, fractured.	
25						
					25.6 726.9	
					Sandstone, tan and gray, 2 in. thick.	
					25.7 726.8	
					Shale, gray, soft, slightly weathered, fractured.	
					28.7 723.8	
					Sandstone, tan, medium hard, 3 in. thick.	
					29.0 723.5	
					Shale, gray, soft, slightly weathered, fractured.	
					29.7 722.8	
					720 Sandstone. Sandstone, fractured, 2.5 in. thick.	
30					29.9 722.6	
					Siltstone/Sandstone, gray, 2.5 in. thick.	
					30.1 722.4	
					Shale, gray, slightly weathered, with interbedded fine sandstone seams, fractured. Grading to Shale, gray, less weathered.	
35						
					35.4 717.1	
					Sandstone, tan, 8 in. thick.	
					36.0 716.5	
					Shale, gray, fractured.	
					36.5 716.0	
					Sandstone, tan, 5 in. thick.	
					36.9 715.6	
					Shale, gray, fractured, laminated.	
					37.1 715.4	
					Sandstone, tan, 5 in. thick.	
					37.5 715.0	
					Shale, gray, fractured, laminated.	
					38.2 714.3	
					Sandstone, tan, 2.5 in. thick.	
					38.4 714.1	
					Shale, gray, medium hard, sound, thinly bedded.	
40						

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-36

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, gray, medium hard, sound, thinly bedded. *(continued)*		
45								
					48.2		704.3	
					48.3	Silty Sandstone, 1 in. thick.	704.2	
						Shale, gray, medium hard, sound, thinly bedded.		
50								
					52.5		700.0	
					52.6	Sandstone, 2 in. thick.	699.9	
						Shale, gray, medium hard, sound, thinly bedded.		
55								
60								
					63.5		689.0	
					63.6	Sandstone, 1 in. thick, infilled with shale.	688.9	
						Shale, gray, medium hard, sound, with interbedded thin sandstone seams.		
65								

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-36

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

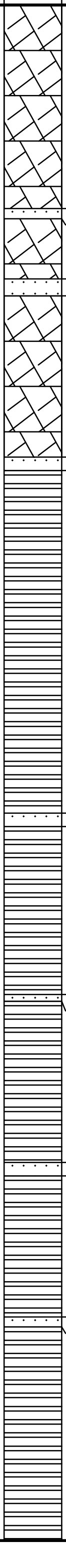
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
					Shale, gray, medium hard, sound, with interbedded thin sandstone seams. *(continued)*		
67.3					Sandstone, 2 in. thick.	685.2	
67.4					Shale, gray, medium hard, sound, with interbedded thin sandstone seams.	685.1	
70							
75							
76.8					680 Sandstone. Sandstone, gray, hard, fresh, sound, fine-grained.	675.7	
78.9					Shale, gray, medium hard, sound, with interbedded thin sandstone seams.	673.6	
80							
80.9					Sandstone, gray, medium hard, sound, very fine-grained, 5 in. thick.	671.6	
81.4					Shale, gray, fractured.	671.1	
85							
85.7					Sandstone, 2 in. thick.	666.8	
85.8					Shale, gray, fractured.	666.7	

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-36

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
90						Shale, gray, fractured. *(continued)*		
					91.6 91.8	Sandstone, 2 in. thick.	660.9 660.7	
						Shale, gray, fractured.		
					92.7 92.9	Sandstone, 3 in. thick.	659.8 659.6	
95						Shale, gray, with interbedded sandstone seams, fractured.		
					95.3 95.5	Sandstone, 2.5 in. thick.	657.2 657.0	
100						Shale, gray, with interbedded sandstone seams.		
					100.6 100.8	Sandstone, 2.5 in. thick.	651.9 651.7	
						Shale, gray, medium hard, sound.		
					103.3 103.4	Sandstone, 1 in. thick.	649.2 649.1	
105						Shale, gray, medium hard, sound.		
					105.8 106.0	Sandstone, 2.5 in. thick.	646.7 646.5	
						Shale, gray, medium hard, sound.		
					108.1 108.3	Sandstone, 2 in. thick.	644.4 644.2	
110						Shale, gray, medium hard, sound.		

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-36

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					112.7	Shale, gray, medium hard, sound. *(continued)*	639.8	
					112.9	Sandstone, 2 in. thick.	639.6	
					114.0	Shale, gray, medium hard, sound.	638.5	
115					116.7	Shale, gray?, soft to medium.	635.8	
120					120.0	Sunbury Shale. Shale, greenish gray (5GY 6/1) to black with depth, fresh.	632.5	

Refusal at 12.0 feet.
Bottom of borehole at 120.0 feet.

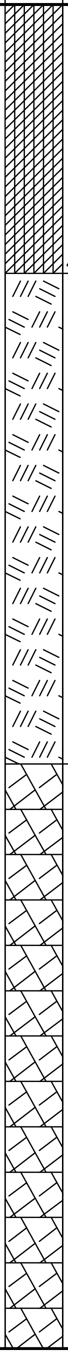
ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-37

PAGE 1 OF 5

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/7/12 **COMPLETED** 8/7/12
GROUND ELEVATION 713.45 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 93 deg F. Sunny. 41% humidity. Wind West @1mph.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					(CL-ML) Silty Clay, very pale brown (10YR 7/4), dry, very stiff, some laminated shale (float) at 0-2 ft, some fine sand at 2-4 ft.	
				4.0	709.5	
5					Cuyahoga Formation. Weathered Shale, very pale brown (10YR 7/4), laminated, dry, very stiff, some crushed sandstone layers of < 1 in., shale changes to pale yellowish brown (10YR 6/2) to moderate brown (5YR 4/4) with depth	
10				11.3	702.2	
15					Cuyahoga Formation (Competent). Shale, moderate yellowish brown, highly fractured, minor siltstone/sandstone seam in from 15.3 to 16.3 ft.	
20						

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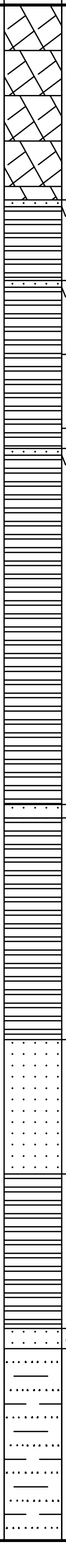
ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

BORING NUMBER WD-SB-37

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	Depth	MATERIAL DESCRIPTION	Elev.	WELL DIAGRAM
20						Cuyahoga Formation (Competent). Shale, moderate yellowish brown, highly fractured, minor siltstone/sandstone seam in from 15.3 to 16.3 ft. *(continued)*		
					22.9	Sandstone, 1 in. thick.	690.6	
					23.0	Shale, moderate yellowish brown (10YR 5/4).	690.5	
					24.1	Sandstone, 1 in. thick.	689.4	
					24.2	Shale, moderate yellowish brown (10YR 5/4).	689.3	
25					25.2	Shale, moderate yellowish brown (10YR 5/4), with fine siltstone seams.	688.3	
					26.3	Shale, medium gray (N5), fractures along shale bedding planes.	687.2	
					26.6	Sandstone, 1 in. thick.	686.9	
					26.7	Shale, medium gray (N5), fractures along shale bedding planes.	686.8	
30								
					31.9	Sandstone, 2 in. thick.	681.6	
					32.1	Shale, medium gray (N5).	681.4	
35					35.4	680 Sandstone. Sandstone, moderate brown (5YR 4/4).	678.1	
					37.4	Shale, medium gray (N5), with very fine siltstone seams.	676.1	
					39.7	Sandstone, medium light gray (N6), 3 in. thick.	673.8	
40					40.0	Shale, medium gray (N5), siltstone seams in intervals throughout.	673.5	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-37

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
45 50						Shale, medium gray (N5), siltstone seams in intervals throughout. *(continued)*		
					51.4 51.5	Siltstone, 1 in. thick.	662.1 662.0	
55 60						Shale, medium gray (N5), with siltstone seams.		
					60.1 60.2	Siltstone, 1.5 in. thick.	653.4 653.3	
						Shale, medium gray (N5), with siltstone seams.		
					64.1 64.3	Siltstone, 2 in. thick.	649.4 649.2	
65						Shale, medium gray (N5), with siltstone seams.		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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BORING NUMBER WD-SB-37

Logo Fluor B&W

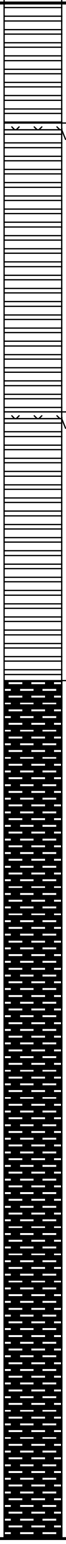
CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
					Shale, medium gray (N5), with siltstone seams. *(continued)*	
67.5					Siltstone, 1 in. thick. (646.0)	
67.6					Shale, medium gray (N5), with siltstone seams. (645.9)	
70						
71.8					Siltstone, 1 in. thick. (641.7)	
71.9					Shale, medium gray (N5), with siltstone seams. (641.6)	
75						
75.8					Sunbury Shale. Shale, dark gray (N3), with pyrite nodules, decreasing with depth until 94 ft. At 94 ft, sharp increase in pyrite content. (637.7)	
80						
85						



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Fluor B&W

BORING NUMBER WD-SB-37

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
90 95					96.0	Sunbury Shale. Shale, dark gray (N3), with pyrite nodules, decreasing with depth until 94 ft. At 94 ft, sharp increase in pyrite content. *(continued)*	617.5	
					96.3	Berea Sandstone. Sandstone, pale olive (10Y 6/2), fine-grained, with very fine bedding planes.	617.2	

Refusal at 11.3 feet.
Bottom of borehole at 96.3 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-38

PAGE 1 OF 5

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 7/26/12 **COMPLETED** 9/29/12
GROUND ELEVATION 772.71 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 92 deg F. Mostly sunny with chance of thunderstorms. 73% humidity. Wind S at 2 mph.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0						(CL-ML) Silty Clay, reddish yellow (7.5YR 6/6), dry, medium dense, mottled iron oxide staining.		
					2.0		770.7	
						(CL-ML) Silty Clay, strong brown (7.5YR 5/6), grading to clay with trace silt at depth, dry, medium dense. Weathered reddish brown sandstone float at 3.7 to 3.9 ft.		
					4.0		768.7	
5						Cuyahoga Formation. Weathered Shale, reddish yellow, laminated, dry, hard.		
					6.0		766.7	
						(CL-ML) Silty Clay, reddish yellow (7.5YR 6/6), with weathered strong brown sandstone at 6.5 ft, 2 in. thick.		
					7.0		765.7	
10						Weathered reddish yellow shale, grading to grayish orange (10YR 7/4) at 8 ft, laminated, dry, dense.		
15								
					18.8		753.9	
20								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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BORING NUMBER WD-SB-38

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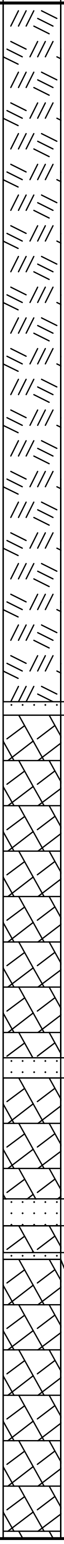
Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NUMBER
PROJECT NAME OSDC Geotechnical Investigation
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20 25						Cuyahoga Formation (Competent). Weathered shale, grayish orange (10YR 7/4), becoming more competent and fractured with depth, dark yellowish brown (10YR 4/2) at 26 ft. *(continued)*		
30					30.4 30.6	Sandstone, 2 in. thick.	742.3 742.1	
						Shale, dark yellowish brown (10YR 4/2), fractured.		
35					35.7 36.0	Sandstone lenses, each 2 in. thick.	737.0 736.7	
						Shale, olive gray (5Y 4/1), fractured.		
					37.8 38.2	Sandstone lenses, each 2 in. thick.	734.9 734.5	
					38.6	Shale, olive gray (5Y 4/1), fractured.	734.1	
					38.7	Sandstone, moderate brown (5YR 4/4), 1.5 in. thick.	734.0	
40						Shale, olive gray (5Y 4/1), fractured, grading to medium gray (N5) at 41.4 ft.		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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BORING NUMBER WD-SB-38

Logo Fluor B&W

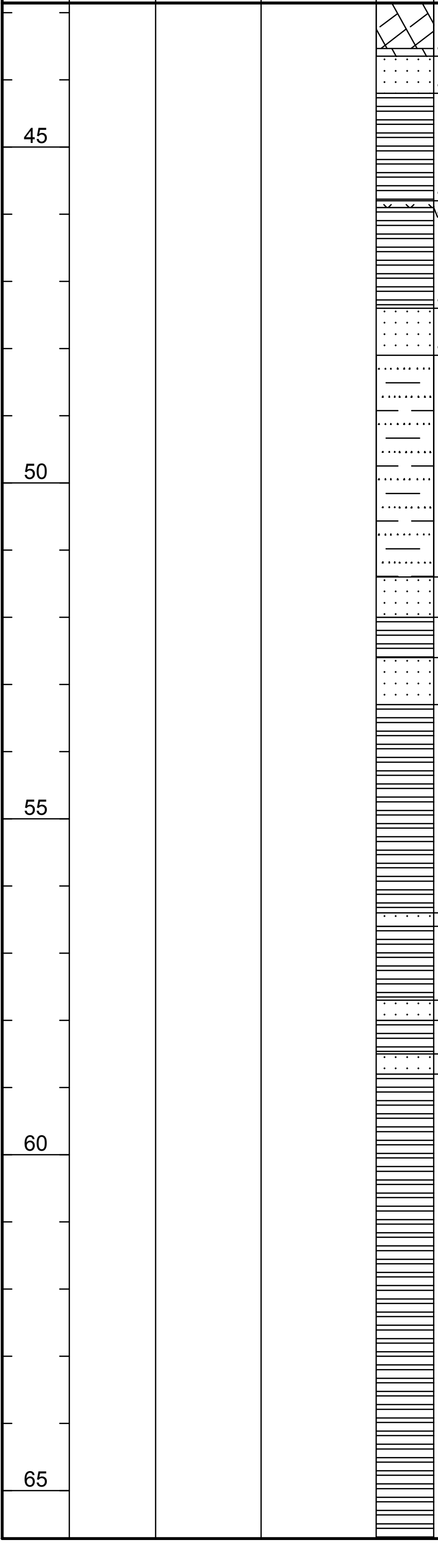
CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft) | SAMPLE TYPE NUMBER | BLOW COUNTS (N VALUE) | ENVIRONMENTAL DATA | GRAPHIC LOG | MATERIAL DESCRIPTION | WELL DIAGRAM



GRAPHIC LOG	MATERIAL DESCRIPTION	
43.7	Shale, olive gray (5Y 4/1), fractured, grading to medium gray (N5) at 41.4 ft. *(continued)*	729.1
44.2	Sandstone, grading to red swirled pattern.	728.5
45.8	Shale, medium gray (N5), grading to siltstone at 45.8 ft.	726.9
45.9	Siltstone, 1 in. thick.	726.8
47.4	Shale, medium dark gray (N4), with very thin sandstone lens at 46.45 ft.	725.3
48.1	Sandstone, reddish brown to light gray (N7).	724.6
51.4	Shale, medium gray (N5), with fine siltstone seams throughout.	721.3
52.0	720 Sandstone. Sandstone, dark reddish brown (10R 3/4), very hard, fine-grained.	720.7
52.6	Shale, with interbedded siltstone seams.	720.1
53.3	Sandstone, dark reddish brown (10R 3/4).	719.4
56.4	Shale, with interbedded siltstone seams.	716.3
56.6	Sandstone, 2 in. thick.	716.1
57.7	Shale, with interbedded siltstone seams.	715.0
58.0	Sandstone, 3.5 in. thick.	714.7
58.5	Shale, with interbedded siltstone seams.	714.2
58.8	Sandstone, 3.5 in. thick.	713.9
	Shale, with interbedded siltstone seams.	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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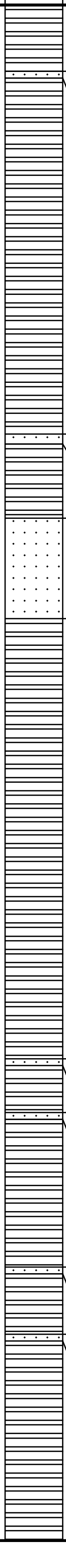
Logo Fluor B&W

BORING NUMBER WD-SB-38

CLIENT Fluor B&W Portsmouth
PROJECT NUMBER
PROJECT NAME OSDC Geotechnical Investigation
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
					Shale, with interbedded siltstone seams. *(continued)*		
				66.7		706.0	
				66.8	Sandstone, 1 in. thick.	705.9	
					Shale, with interbedded siltstone seams.		
70							
				72.1		700.6	
				72.3	Sandstone, 1.5 in. thick.	700.5	
					Shale, with interbedded siltstone seams.		
				73.4		699.4	
					Sandstone, 1.5 ft. thick?		
75				74.9		697.9	
					Shale, with interbedded siltstone seams.		
80							
				81.4		691.3	
				81.5	Sandstone, 1 in. thick.	691.2	
				82.2	Shale, with interbedded siltstone seams.	690.5	
				82.3	Sandstone, 1 in. thick.	690.4	
					Shale, with interbedded siltstone seams.		
				84.5		688.2	
85				84.6	Sandstone, 1 in. thick.	688.1	
					Shale, with interbedded siltstone seams.		
				85.5		687.2	
				85.6	Sandstone, 1 in. thick.	687.1	
					Shale, with interbedded siltstone seams.		

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Logo

Fluor B&W

BORING NUMBER WD-SB-38

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					89.1	Shale, with interbedded siltstone seams. *(continued)*	683.7	
					89.2	Sandstone, 1.5 in. thick.	683.5	
90					91.9	Shale, with interbedded siltstone seams.	680.9	
					92.0	Sandstone, 1 in. thick.	680.8	
95					96.1	Shale, with interbedded siltstone seams.	676.6	
					98.3	680 Sandstone. Sandstone, light olive gray (5Y 6/1) to dark yellowish orange (10YR 6/6), fractured, iron oxide staining in fractures and on bedding surfaces.	674.4	
100					100.4	Shale, with interbedded siltstone seams.	672.3	
					100.7	Sandstone, 4 in. thick.	672.0	
					103.1	Shale, with interbedded siltstone seams.	669.6	

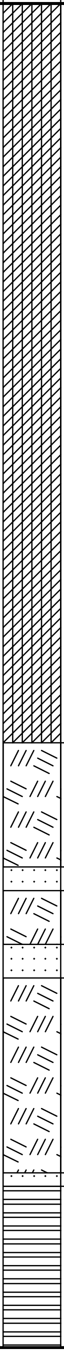
Refusal at 18.8 feet.
Bottom of borehole at 103.1 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-39

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/15/12 **COMPLETED** 8/16/12
GROUND ELEVATION 780.35 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 82 deg F. Drizzle, clouds and sun. 94% humidity. Wind N@1mph.
AFTER DRILLING ---



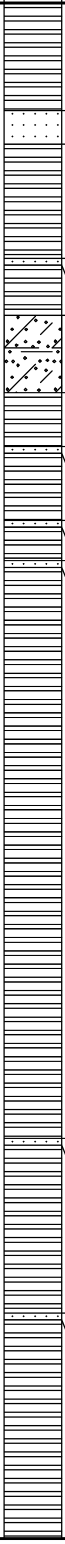
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0 5 10					11.0	(CL-ML) Silty Clay, yellowish brown (10YR 5/4), dry, medium stiff, grading to brownish yellow at (10YR 6/6) at 4 ft., some laminated shale float at 14 in. Gray mottling at 5 ft. Moist at 4 ft.	769.4	
					12.9	Cuyahoga Formation. Weathered Shale, grayish-orange, laminated, dry, very stiff to hard. Occasional sandstone fragments.	767.5	
					13.2	Sandstone lens.	767.2	
					14.0	Cuyahoga Formation (Competent). Weathered shale with interbedded siltstone seams.	766.4	
					14.5	Sandstone, 6 in. thick.	765.9	
15					17.4	Weathered shale with interbedded siltstones and sandstones, moderate yellowish brown (10YR 5/4) to medium dark gray (N4).	763.0	
					17.6	Sandstone, 2 in. thick.	762.8	
20						Shale.		

(Continued Next Page)

BORING NUMBER WD-SB-39

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
20					Shale. *(continued)*		
21.6					Sandstone, 4.5 in. thick.	758.8	
22.1					Shale.	758.3	
23.8					Sandstone, 1 in. thick.	756.6	
23.9					Shale.	756.5	
24.7					Sandstone, fractured.	755.7	
25.8					Shale, medium dark gray (N4), fresh.	754.6	
26.6					Sandstone, 1 in. thick.	753.8	
26.7					Shale, medium dark gray (N4).	753.7	
27.7					Sandstone, 1 in. thick.	752.7	
27.8					Shale, medium dark gray (N4).	752.6	
28.3					Sandstone, 1.5 in. thick.	752.1	
28.4					Shale with interbedded siltstone seams, medium dark gray (N4).	752.0	
36.9					Sandstone, 1 in. thick.	743.5	
37.0					Shale with interbedded siltstone seams.	743.4	
39.5					Sandstone, 1 in. thick.	740.9	
39.6					Shale with interbedded siltstone seams.	740.8	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-39

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

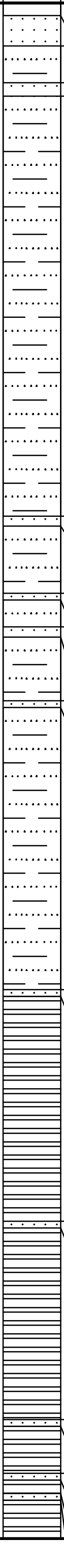
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION			WELL DIAGRAM
					43.2		737.2	
					43.3	Sandstone, 1 in. thick.	737.1	
45						Shale with interbedded siltstone seams. Siltstone seams increase with depth.		
					46.5		733.9	
					46.7	Sandstone, 1 in. thick.	733.7	
					46.9	Shale with numerous interbedded siltstone seams.	733.5	
					47.2	Sandstone, 4 in. thick.	733.2	
						Shale with numerous interbedded siltstone seams.		
					48.8		731.6	
					49.1	Sandstone, 3.5 in. thick.	731.3	
					49.7	Shale with numerous interbedded siltstone seams.	730.7	
					49.9	Sandstone, 2 in. thick.	730.5	
50						Shale with numerous interbedded siltstone seams.		
					54.5		725.9	
					54.7	Sandstone, 2 in. thick.	725.7	
55					54.9	Shale with numerous interbedded siltstone seams.	725.5	
					55.8	Sandstone, 2 in. thick. Shale lens, 1 in. thick. Sandstone bed, 7 in. thick.	724.6	
					56.5	Shale with numerous interbedded siltstone seams.	723.9	
					56.6	Sandstone, 1 in. thick.	723.8	
					56.9	Shale with numerous interbedded siltstone seams.	723.5	
					57.2	Sandstone lenses, 1 in. thick, 2 in. thick.	723.2	
					57.4	Shale with numerous interbedded siltstone seams.	723.0	
					57.5	Sandstone, 1 in. thick.	722.9	
					58.8	Shale with numerous interbedded siltstone seams.	721.6	
					58.9	Sandstone, 1 in. thick.	721.5	
60					60.1	Shale with numerous interbedded siltstone seams.	720.3	
					60.5	Sandstone, 5 in. thick.	719.9	
						Shale with numerous interbedded siltstone seams.		
					62.4		718.0	
						720 Sandstone. Sandstone.		
					63.2		717.2	
					63.8	Shale with numerous interbedded siltstone seams.	716.6	
						Sandstone.		
65					64.6		715.8	
						Shale with numerous interbedded siltstone seams.		
					65.3		715.1	
					65.5	Sandstone, 2 in. thick.	714.9	

(Continued Next Page)

BORING NUMBER WD-SB-39

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					65.9	Shale with numerous interbedded sandstone seams. *(continued)*	714.5	
					66.4		714.0	
					66.9	Sandstone lenses, 1 in. and 3 in. thick.	713.5	
					67.1	Shale with numerous interbedded sandstone seams.	713.3	
						Sandstone, 3 in. thick.		
						Shale with numerous interbedded sandstone seams.		
70								
					73.4		707.0	
					73.5	Sandstone, 2 in. thick.	706.9	
						Shale with numerous interbedded sandstone sand siltstone seams.		
					74.5		705.9	
					74.6	Sandstone, 1 in. thick.	705.8	
75					75.0		705.4	
					75.2	Shale with numerous interbedded sandstone sand siltstone seams.	705.2	
					76.1	Sandstone, 2 in. thick.	704.3	
					76.2	Shale with numerous interbedded sandstone sand siltstone seams.	704.2	
						Sandstone, 1 in. thick.		
						Shale with interbedded sandstone seams.		
80								
					80.4		700.0	
					80.5	Sandstone, 1 in. thick.	699.9	
						Shale with a few interbedded siltstone seams.		
					83.9		696.5	
					84.0	Sandstone, 1 in. thick.	696.4	
						Shale with a few interbedded siltstone seams.		
85								
					86.8		693.6	
					86.9	Sandstone, 1 in. thick.	693.5	
					87.6	Shale with a few interbedded siltstone seams.	692.8	
					87.7	Sandstone, 1 in. thick.	692.7	
					87.9		692.5	
					88.0	Shale with a few interbedded siltstone seams.	692.4	

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Logo Fluor B&W

BORING NUMBER WD-SB-39

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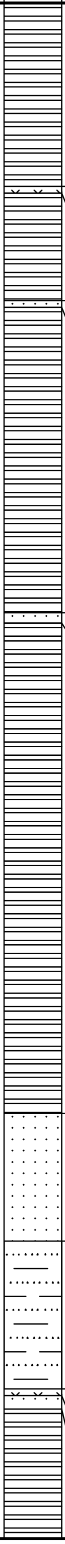
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
					Sandstone, 1 in. thick. Shale with a few interbedded siltstone seams. *(continued)*	
90						
91.3 91.4					689.1 Siltstone, 1 in. thick. 689.0 Shale with a few interbedded siltstone seams.	
93.0 93.1					687.4 Sandstone, 1 in. thick. 687.3 Shale with a few interbedded siltstone seams.	
95						
97.7 97.8					682.7 Sandstone, 1.5 in. thick. 682.6 Shale with interbedded siltstone seams.	
100						
105						
105.1					675.3 680 Sandstone. Sandstone, medium light gray (N6).	
107.0					673.4 Shale, medium dark gray (N4), with interbedded siltstone seams throughout.	
109.2 109.3 109.5					671.2 Siltstone, 1 in. thick. 671.1 Sandstone, 3 in. thick. 670.9 Shale with a few interbedded siltstone seams.	
110						

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-39

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION	WELL DIAGRAM
				▤	113.0	Shale with a few interbedded siltstone seams. *(continued)* 667.4	

Refusal at 13.2 feet.
Bottom of borehole at 113.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-40

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/28/12 **COMPLETED** 8/29/12
GROUND ELEVATION 747.54 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 80 deg F. Partly Sunny. 65% humidity. Wind NNE @3mph.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				2.0	(SC-SM) Silty Sandy Clay, very pale brown (10YR 7/4), dry, soft to medium dense. 745.5	
5				6.0	(CL-ML) Silty Clay, very pale brown (10YR 7/4) to yellowish red (5YR 5/8), dry, medium dense to stiff. 741.5	
10				10.6	Cuyahoga Formation. Weathered Shale, pale brown (5YR 5/2), dry, laminated, very stiff to hard, some sandstone lenses. 736.9	
				13.4	Cuyahoga Formation (Competent). Weathered Shale, moderate yellowish brown (10YR 5/4), highly fractured. 734.1	
				13.5	Sandstone lens, 1 in. thick. 734.0	
				14.8	Weathered Shale, fractured, with interbedded siltstone layers. 732.7	
15				14.9	Sandstone, 1 in. thick? 732.6	
				16.1	Interbedded Shale, Siltstone, and Fat Clay. 731.4	
				17.2	Weathered Shale, olive gray (5Y 4/1),with interbedded sandstone lenses? 730.3	
				17.3	Sandstone, 1 in. thick? 730.2	
				17.6	Shale with Sandstone lenses? 729.9	
				18.0	Sandstone, fractured. 729.5	
				18.7	Shale? 728.8	
				19.1	Sandstone, 1 in. thick, Shale, Sandstone, 2 in. thick, fractured. 728.4	
20					Shale?	

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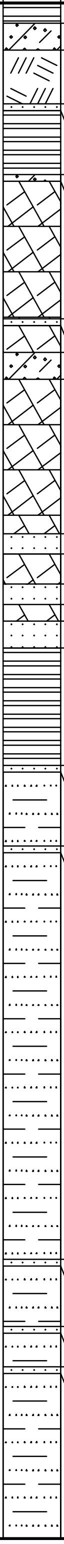
BORING NUMBER WD-SB-40

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	MATERIAL DESCRIPTION	
20.3		727.2
20.7	Sandstone, fractured, iron oxide staining.	726.8
21.5	Weathered Shale, olive gray (5Y 4/1) to medium gray (N5), becoming more competent, highly fractured.	726.0
21.6	Sandstone, 1 in. thick.	725.9
22.6	Shale.	725.0
22.7	Sandstone, 1 in. thick, fractured, iron oxide staining.	724.9
24.7	Shale, fractured.	722.8
24.8	Sandstone, 1 in. thick.	722.7
25.2	Shale, fractured.	722.3
25.6	720 Sandstone. Sandstone, fractured, iron oxide staining.	721.9
27.9	Shale, medium gray (N5), fractured.	719.6
28.2	Sandstone, 4 in. thick.	719.3
28.7	Shale, medium gray (N5), fractured.	718.9
29.0	Sandstone, 4 in. thick.	718.6
29.2	Shale, medium gray (N5), fractured.	718.3
29.6	Sandstone, 5 in. thick.	717.9
31.4	Shale, medium gray (N5).	716.2
31.5	Sandstone, 1 in. thick.	716.1
32.6	Shale, medium gray (N5), with numerous interbedded siltstone seams.	715.0
32.7	Sandstone, 1 in. thick.	714.9
38.7	Shale, medium gray (N5), with numerous interbedded siltstone seams.	708.8
38.8	Sandstone, 1 in. thick.	708.7
39.7	Shale, medium gray (N5), with numerous interbedded siltstone seams.	707.8
39.8	Sandstone, 1 in. thick.	707.7
40.3	Shale, medium gray (N5), with numerous interbedded siltstone seams.	707.2
40.4	Sandstone, 1.5 in. thick.	707.1
	Shale, medium gray (N5), with numerous interbedded siltstone seams.	

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Logo Fluor B&W

BORING NUMBER WD-SB-40

CLIENT Fluor B&W Portsmouth **PROJECT NAME** OSDC Geotechnical Investigation

PROJECT NUMBER **PROJECT LOCATION** Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
45.7					Shale, medium gray (N5), with numerous interbedded siltstone seams. *(continued)* 701.8	
45.8					Sandstone, 1 in. thick. 701.7	
47.0					Shale, medium gray (N5), with interbedded siltstone seams. 700.5	
47.1					Sandstone, 1 in. thick. 700.4	
50.9					Shale, medium gray (N5), with interbedded siltstone seams. 696.6	
51.1					Sandstone, 2 in. thick. 696.4	
55.1					Shale, medium gray (N5), with interbedded siltstone seams. 692.4	
55.2					Sandstone, 1 in. thick. 692.3	
63.2					Shale, medium gray (N5), with interbedded siltstone seams. 684.3	
63.3					Sandstone, 1 in. thick. 684.2	
					Shale, medium gray (N5), with interbedded siltstone seams.	

Depth scale: 45, 50, 55, 60, 65

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-40

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
				▤	67.1	Shale, medium gray (N5), with interbedded siltstone seams. *(continued)*	680.5	
				⠿	67.2	Sandstone, 1 in. thick.	680.4	
70				▤	70.7	Shale, medium gray (N5), with interbedded siltstone seams.	676.8	
				⠿	72.7	680 Sandstone. Sandstone, medium light gray (N6), competent, fine-grained.	674.8	
75				▤	75.0	Shale, medium gray (N5), with interbedded siltstone seams.	672.6	
				⠿	75.3	Sandstone, 4 in. thick.	672.3	
				▤	78.2	Shale, medium gray (N5), with interbedded siltstone seams.	669.3	

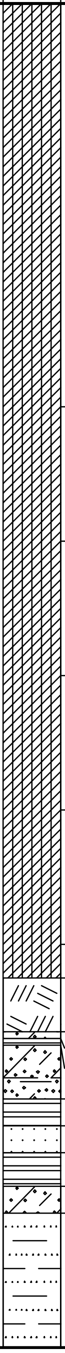
Refusal at 10.6 feet.
Bottom of borehole at 78.2 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-41

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 7/18/12 **COMPLETED** 7/18/12
GROUND ELEVATION 779.88 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 60% chance of thunderstorms.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0						(CL-ML) Silty Clay, reddish yellow (7/.5YR 6/8), some sand, medium stiff, damp, red mottling giving way to yellow mottling with depth.		
5								
					6.0		773.9	
						(CL-ML) Silty Clay with some Sand, light gray (10YR 7/1), dry stiff, with siltstone fragment (float) at 7.9 ft, brownish yellow, laminated.		
					8.0		771.9	
						(CL-ML) Silty Clay, olive yellow (2.5Y 6/6), dry, stiff to very stiff, some siltstone fragments (float), zone of brown silty clay at 8 to 8.3 ft, some weak laminations.		
10					10.0		769.9	
						(CL-ML) Silty Clay, light olive brown (2.5Y 5/4), damp, stiff to very stiff, fine laminated seams of siltstone at 11.8 and 12 ft.		
					12.0		767.9	
						(CL-ML) Silty Clay with Weathered Shale, light yellow brown (2.5Y 6/4), very stiff, dry, trace bedding laminations in clay.		
					14.0		765.9	
					14.5	(CL-ML) Silty Clay, brownish yellow (10YR 6/8), grading to Weathered Shale at 14.5 ft.	765.4	
15					15.3	Cuyahoga Formation. Weathered Shale, light gray (N7), with laminations, dry, weak partings.	764.6	
					15.4		764.5	
					15.5	Cuyahoga Formation (Competent). Sandstone, light brown (5YR 5/6), highly fractured.	764.4	
					16.3		763.6	
					16.7	Shale.	763.2	
					17.1	Sandstone beds, 1 in. thick, 8 in. thick, with fine shale between beds. Fractured, iron oxide staining.	762.8	
					17.6		762.3	
					18.0	Shale, pale yellowish brown (10YR 6/2) to gray.	761.9	
						Sandstone, fine-grained?		
						Shale, pale yellowish brown (10YR 6/2) to gray, laminated. Interval not clear.		
						Sandstone, fractured.		
20								

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-41

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft) 20	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					20.9	Shale, light olive gray (5Y 6/1), finely bedded, with lenses of sandstone and siltstone throughout. *(continued)*	759.0	
					21.3	Sandstone, medium brown, fine-grained?	758.6	
					23.3	Shale, dark yellowish orange (10YR 6/6) grading to medium dark gray (N4), then dark yellowish orange (10YR 6/6).	756.6	
					23.8	Sandstone, grayish orange pink (10R 8/2) to brown, fractured.	756.1	
					24.6	Shale, medium dark gray (N4).	755.3	
					24.8	Sandstone.	755.1	
25					25.1	Shale, medium dark gray (N4), laminated.	754.8	
					25.3	Sandstone, 10R3/4.	754.6	
					27.4	Shale, medium light gray (N6), fractured, cobble at 26.3 ft.	752.5	
					29.5	Sandstone, with wavy bedding (turbidite like), bedding alternates between gray and brown. 2.1 ft thick?	750.4	
30					30.8	Shale, light olive gray (5Y 6/1).	749.1	
					30.9	Sandstone, pale olive gray (10Y 6/2), 1 in. thick.	749.0	
					32.9	Shale, light olive gray (5Y 6/1).	747.0	
					34.0	Sandstone, light olive gray (5Y 6/1), 1.5 in. thick.	745.9	
35 40					40.1	Shale, olive black (5Y 2/1) (fresh break), fractured in first 4 in.	739.8	
					40.8	Sandstone, olive black (5Y 2/1).	739.1	
					41.5	Shale, medium dark gray (N4).	738.4	
					41.6	Siltstone, 1 in. thick.	738.3	
					42.0	Shale, medium dark gray (N4).	737.9	
					42.4	Sandstone, light olive gray (5Y 6/1), fine-grained?	737.5	
					42.9		737.0	

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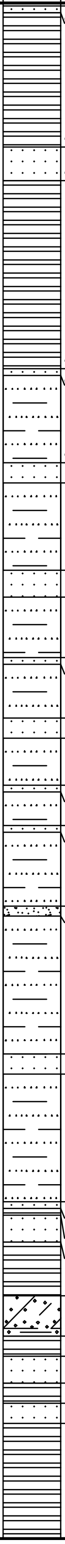
Logo Fluor B&W

BORING NUMBER WD-SB-41

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION			WELL DIAGRAM
					43.0	Shale, medium dark gray (N4), with interbedded fine siltstones. *(continued)*	736.9	
						Sandstone, 1 in. thick?		
45					45.0	Shale, medium dark gray (N4), with interbedded fine siltstones.	734.9	
					45.5	Sandstone lenses, thickness unknown.	734.4	
					48.3	Shale, dark gray (N3), with thin interbedded sandstones from 47 to 47.3 ft. Bottom depth questionable.	731.6	
					48.4	Sandstone, thickness unknown.	731.5	
					49.7	Shale, dark gray (N3), with interbedded sandstones.	730.2	
50					50.0	Sandstone, light olive gray (5Y 6/1).	729.9	
					51.3	Shale, dark gray (N3), with interbedded sandstones.	728.6	
					51.7	Sandstone, light olive gray (5Y 6/1).	728.2	
					52.6	Shale, dark gray (N3), with fine sandstone and siltstone seams throughout.	727.3	
					52.7	Sandstone, 1 in. thick.	727.2	
					53.5 53.8	Shale, dark gray (N3), with fine sandstone and siltstone seams throughout.	726.4 726.1	
						Sandstone, 3 in. thick.		
					54.5 54.6 55.1	Shale, dark gray (N3), with fine sandstone and siltstone seams throughout.	725.4 725.3 724.8	
55					55.2	Sandstone, 1 in. thick.	724.7	
					56.3	Shale, dark gray (N3), with fine sandstone and siltstone seams throughout.	723.6	
					56.5	Sandstone, 1 in. thick.	723.4	
						Shale, dark gray (N3), with light olive gray (5Y 6/1) siltstone seams throughout.		
						Sandstone, cross-bedded.		
					58.5	Shale, dark gray (N3), with light olive gray (5Y 6/1) siltstone seams throughout.	721.4	
					58.8	720 Sandstone. Sandstone with interbedded shale.	721.1	
60					60.7	Shale, dark gray (N3), with light olive gray (5Y 6/1) siltstone seams throughout.	719.2	
					60.8	Sandstone, 1 in. thick.	719.1	
					60.9	Shale lens, 1 in. thick?	719.0	
					61.3 62.1	Sandstone, light brownish gray (5YR 6/1). Thickness questionable, 8 in.	718.6 717.8	
					62.7 63.0	Shale with interbedded sandstone lenses. Sandstone cross-bedded at 61.9 ft?	717.2 716.9	
					63.4	Sandstone, fractured.	716.5	
					63.7 64.0	Shale with interbedded sandstone lenses.	716.2 715.9	
						Sandstone, light brown (5YR 5/6).		
65						Shale with interbedded sandstone lenses.		
						Sandstone.		
						Shale with interbedded sandstone lenses.		

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Logo Fluor B&W

BORING NUMBER WD-SB-41

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					65.9 66.0	Sandstone, 1 in. thick?	714.0 713.9	
						Shale with interbedded sandstone lenses.		
					67.5 67.6	Sandstone, 1 in. thick?	712.4 712.3	
						Shale with interbedded sandstone lenses.		
					68.8 68.9	Sandstone, 1 in. thick?	711.1 711.0	
70						Shale with interbedded sandstones and siltstones.		
					71.8 71.9	Sandstone, 1 in. thick.	708.1 708.0	
						Shale with interbedded sandstones and siltstones.		
					73.0 73.1	Sandstone, 1 in. thick.	706.9 706.8	
						Shale with interbedded sandstones and siltstones.		
					74.0 74.1	Sandstone, 1 in. thick.	705.9 705.8	
75						Shale with interbedded sandstones and siltstones.		
					76.0		703.9	

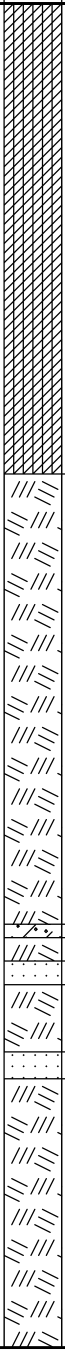
Refusal at 15.3 feet.
Bottom of borehole at 76.3 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-42

PAGE 1 OF 4

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/27/12 **COMPLETED** 8/28/12
GROUND ELEVATION 757.46 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 86 deg F. Cloudy. 71% humidity. Wind SSW @5mph.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0				7.0	(CL-ML) Silty Clay, yellow (2.5Y 8/6), dry, medium stiff, with weathered shale laminations. Organics in top 2 in. Clay grades to pale yellow (2.5Y 7/3)with depth.	750.5	
5				13.7	Cuyahoga Formation. Weathered Shale, light gray (N7), laminated, dry, stiff to very stiff. Occasional fractures and iron oxide staining.	743.8	
10				13.9	Cuyahoga Formation (Competent). Weathered Sandstone, light olive gray (5Y 6/1), fractured.	743.6	
				14.3	Weathered Shale, light olive gray (5Y 6/1).	743.2	
				14.6	Sandstone, reddish brown swirl patterns in light olive gray (5Y 6/1) matrix.	742.9	
15				15.6	Weathered Shale, light olive gray (5Y 6/1).	741.9	
				16.0	Sandstone, reddish brown swirl patterns in light olive gray (5Y 6/1) matrix.	741.5	
20					Weathered Shale, light olive gray (5Y 6/1) to medium gray (N5), laminated, with occasional siltstone seams, iron oxide staining, and fractures.		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-42

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

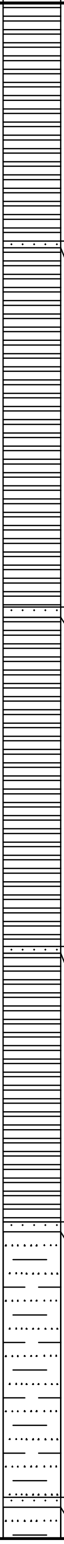
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	MATERIAL DESCRIPTION		WELL DIAGRAM
20						
21.0				Sandstone, moderate brown (5YR 4/4), with cross-bedding structure darker than matrix.	736.5	
23.2				Shale, medium gray (N5), with interbedded siltstone and sandstone seams throughout.	734.3	
23.9				Sandstone, 2 in. thick.	733.6	
24.0				Shale, medium gray (N5), with interbedded siltstone and sandstone seams.	733.5	
25						
30						
30.2				Siltstone, 1 in. thick.	727.3	
30.3				Shale, medium gray (N5), with interbedded siltstone and sandstone seams.	727.2	
32.2				Sandstone, 2 in. thick.	725.3	
32.4				Shale, medium gray (N5), with interbedded siltstone and sandstone seams.	725.1	
33.2				Sandstone, 3 in. thick.	724.3	
33.5				Shale, medium gray (N5), with interbedded siltstone and sandstone seams.	724.0	
35						
35.2				Sandstone, 3 in. thick.	722.3	
35.5				Shale, medium gray (N5), with interbedded siltstone and sandstone seams.	722.0	
37.2				Sandstone, 4 in. thick.	720.3	
37.5				Shale, medium gray (N5), with interbedded siltstone and sandstone seams.	720.0	
38.0				Sandstone, 7 in. thick, fractured.	719.5	
38.6				Shale, medium gray (N5), with interbedded siltstone and sandstone seams.	718.9	
39.7				Sandstone, 2 in. thick.	717.8	
39.9				Shale, medium dark gray (N4), with a few very fine siltstone seams.	717.6	
40						

(Continued Next Page)

BORING NUMBER WD-SB-42

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
45					Shale, medium dark gray (N4), with a few very fine siltstone seams. *(continued)*	
46.4 46.5					Sandstone, 1 in. thick. 711.1 711.0	
					Shale, medium dark gray (N4), with a few very fine siltstone seams.	
50						
51.9 52.0					Sandstone, 1.5 in. thick. 705.6 705.5	
					Shale, medium dark gray (N4), with a few very fine siltstone seams.	
55						
56.9 57.0					Sandstone, 1 in. thick. 700.6 700.5	
					Shale, medium dark gray (N4), with a few very fine siltstone seams.	
60						
61.0 61.2					Sandstone, light olive gray (5Y 6/1), 1.5 in. thick. 696.5 696.3	
					Shale with numerous interbedded siltstone seams.	
65						
65.1 65.3					Sandstone, 1.5 in. thick. 692.4 692.2	

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Logo Fluor B&W

BORING NUMBER WD-SB-42

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
				66.4	Shale, medium dark gray (N4), with numerous interbedded siltstone seams. *(continued)*	691.1	
				66.5	Sandstone, 1 in. thick.	691.0	
				68.3	Shale, medium dark gray (N4), with numerous interbedded siltstone seams.	689.2	
				68.4	Sandstone, 1 in. thick.	689.1	
70				71.6	Shale, medium dark gray (N4), with numerous interbedded siltstone seams.	685.9	
				71.7	Sandstone, 1 in. thick.	685.8	
75				75.6	Shale, medium dark gray (N4), with numerous interbedded siltstone seams.	681.9	
				78.0	680 Sandstone. Sandstone, light olive gray (5Y 6/1) with cross-bedding.	679.5	
				79.8	Shale, medium dark gray (N4), with numerous interbedded siltstone seams.	677.7	
80				80.2	Sandstone, 5 in. thick.	677.3	
				83.5	Shale, medium dark gray (N4), with numerous interbedded siltstone seams.	674.0	

Refusal at 13.7 feet.
Bottom of borehole at 83.5 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-43

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/21/12 **COMPLETED** 8/21/12
GROUND ELEVATION 684.28 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
2.0					(CL-ML) Silty Clay, yellowish red (5YR 5/8) with yellowish gray mottling, dry, medium stiff. Weathered sand and sandstone throughout.	682.3	
3.0					Cuyahoga Formation. Weathered Sandstone, yellowish red (5YR 5/8), dry, medium stiff.	681.3	
3.9					Weathered Shale, light gray (N7), with fat clay. Damp, medium stiff to stiff.	680.4	
6.0					Cuyahoga Formation (Competent); 680 Sandstone. Sandstone, moderate reddish brown (10R 4/6), competent, fine-grained.	678.3	
7.9					Weathered Shale, yellowish gray (5Y 8/1), laminated, fractured.	676.4	
8.5					Sandstone, moderate reddish brown (10R 4/6).	675.8	
16.0					Weathered Shale, medium dark gray (N4), laminated, with a few sandstone seams.	668.3	
17.5					Shale, medium dark gray (N4), with fine to very fine siltstone seams.	666.8	
17.6					Sandstone, 1 in. thick.	666.7	
19.0					Shale, medium dark gray (N4), with fine to very fine siltstone seams.	665.3	
19.1					Sandstone, 1.5 in. thick.	665.2	
19.6						664.7	
19.8					Shale, medium dark gray (N4), with fine to very fine	664.5	

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Logo Fluor B&W

BORING NUMBER WD-SB-43

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	Depth	MATERIAL DESCRIPTION	Elevation	WELL DIAGRAM
20						siltstone seams.		
						Sandstone, 2 in. thick.		
						Shale, medium dark gray (N4), with fine to very fine siltstone seams. *(continued)*		
					22.0		662.3	
					22.1	Sandstone, 1 in. thick.	662.2	
					22.7	Shale, medium dark gray (N4), with fine to very fine siltstone seams.	661.6	
					22.9		661.4	
					23.5	Sandstone, 1.5 in. thick.	660.8	
					23.7	Shale, medium dark gray (N4), with fine to very fine siltstone seams.	660.6	
						Sandstone, 1.5 in. thick.		
25						Shale, medium dark gray (N4), with fine to very fine siltstone seams.		
					27.0		657.3	
					27.1	Sandstone, 1 in. thick.	657.2	
						Shale, medium dark gray (N4), with fine to very fine siltstone seams.		
					29.6		654.7	
30					29.8	Sandstone, 2 in. thick.	654.5	
						Shale, medium dark gray (N4), with fine to very fine siltstone seams.		
					31.9		652.4	

Refusal at 3.9 feet.
Bottom of borehole at 30.9 feet.

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Logo Fluor B&W

BORING NUMBER WD-SB-44

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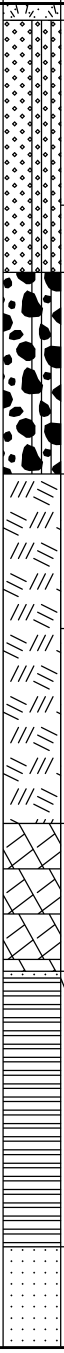
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/8/12 **COMPLETED** 8/9/12
GROUND ELEVATION 703.23 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY William Reid **CHECKED BY** Allison Lake
AT END OF DRILLING ---
NOTES 75 deg F. Partly cloudy.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0					0.3	Topsoil, light brownish gray (10YR 6./2) with roots, dry.	703.0	
					3.0	(SW-SM) Silt, Sand, Rock Fragments, brownish yellow (10YR 6/6) to yellowish brown (10YR 5/6).	700.2	
					4.0	(SW-SM) Silt, Sand, Rock Fragments, strong brown (7.5YR 5/6) with some gray mottling.	699.2	
5					7.0	(GW-GM) Clay, Silt, and Gravel with some sand and rock fragments, reddish yellow (7.5YR 6/6). Oxidation staining on rock fragments. Friable, dry.	696.2	
					9.3	Cuyahoga Formation. Weathered Shale, light brownish gray (5YR 6/1) with basal partings and laminae. Dry, crumbly, fissile, some iron oxide staining.	693.9	
10					12.2	Cuyahoga Formation (Competent). Weathered Shale, gray to medium gray (N5), iron oxide staining, fractured.	691.0	
					14.4	Shale, gray, soft, with sandstone seams, fractured.	688.8	
					14.5	Sandstone, 1 in. thick.	688.7	
15					18.5	Shale, gray, soft, occasional fractures. Transitions to light gray (N7) with depth.	684.7	
20					20.0	Sandstone, light gray (N7), 1 in. thick.	683.2	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-44

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
20							
				23.7	Shale, gray to medium and light gray, laminated, occasional fractures, occasional sandstone and siltstone seams.	679.5	
25				25.9	680 Sandstone. Sandstone, greenish gray (5GY 6/1) to moderate to dark yellowish brown (10YR 4/2) with depth. Base of Sandstone is greenish gray (5GY 6/1). Iron oxide staining common.	677.3	
				27.8	Shale, medium gray (N5).	675.4	
				28.4	Sandstone, light gray (N7) to greenish gray (5GY 6/1), thickness questionable.	674.9	
30				31.2	Shale, medium gray (N5).	672.0	
				32.5	Sandstone, pale yellowish brown (10YR 6/2), thickness questionable.	670.7	
				33.6	Shale, medium gray (N5).	669.6	

Refusal at 9.3 feet.
Bottom of borehole at 33.4 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-45

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/21/12 **COMPLETED** 8/22/12
GROUND ELEVATION 692.13 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---

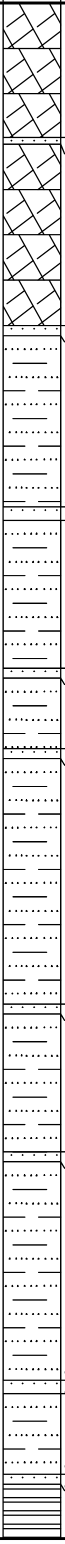
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0					2.0	(CL-ML) Sandy Silty Clay, very pale brown (10YR 7/4), with some weathered sandstone, dry, medium stiff, iron oxide stained.	690.1	
5					7.0	(CL-ML) Silty Clay with some sand, very pale brown (10YR 7/4), dry, medium stiff, with weathered shale fragments.	685.1	
10					11.5	Cuyahoga Formation. Weathered Shale, pale brown (5YR 5/2), laminated bedding, dry, stiff to very stiff, with occasional sandstone seam. Transitions to yellowish brown (10YR 3/8) with depth.	680.6	
					13.4	Cuyahoga Formation (Competent); 680 Sandstone. Sandstone, dark reddish brown (10R 3/4) to pale olive (10Y 6/2), iron oxide stained.	678.7	
15					15.4	Weathered Shale, laminated, fractured.	676.7	
					15.9	Sandstone.	676.2	
20						Shale, medium dark gray (N4), with interbedded siltstone seams, laminated, fractured, iron oxide stained.		

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-45

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
20					Shale, medium dark gray (N4), with interbedded siltstone seams, laminated, fractured, iron oxide stained. *(continued)*		
				22.0		670.1	
				22.1	Sandstone, 1 in. thick.	670.0	
					Shale, medium dark gray (N4), with interbedded siltstone seams, laminated, fractured, iron oxide stained.		
				24.8		667.3	
25				25.0	Sandstone, 1.5 in. thick.	667.2	
					Shale, medium dark gray (N4), with numerous interbedded siltstone seams.		
				27.5		664.6	
				27.7	Sandstone, 2 in. thick.	664.4	
					Shale, medium dark gray (N4), with numerous interbedded siltstone seams.		
				29.9		662.2	
30				30.1	Sandstone, 1.5 in. thick.	662.1	
					Shale, medium dark gray (N4), with numerous interbedded siltstone seams.		
				31.1		661.0	
				31.3	Sandstone, 1.5 in. thick.	660.9	
					Shale, medium dark gray (N4), with numerous interbedded siltstone seams.		
				34.9		657.2	
35				35.1	Sandstone, 1.5 in. thick.	657.1	
					Shale, medium dark gray (N4), with numerous interbedded siltstone seams.		
				37.1		655.0	
				37.3	Sandstone, 1.5 in. thick.	654.9	
					Shale, medium dark gray (N4), with numerous interbedded siltstone seams.		
40				40.5		651.6	
				40.7	Sandstone, 2 in. thick.	651.4	
					Shale, medium dark gray (N4), with numerous interbedded siltstone seams.		
				41.9		650.2	
				42.1	Sandstone, 1.5 in. thick.	650.1	
					Shale, greenish gray (5GY 6/1), finely bedded.		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-45

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
45						Shale, greenish gray (5GY 6/1), finely bedded. *(continued)*		
					48.9	Sandstone, 3 in. thick.	643.2	
50					49.2	Shale, greenish gray (5GY 6/1), finely bedded.	642.9	
55 60 65					50.5	Sunbury Shale. Shale, grayish black (N2), common pyrite inclusions.	641.6	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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BORING NUMBER WD-SB-45

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					67.5	Sunbury Shale. Shale, grayish black (N2), common pyrite inclusions. *(continued)*	624.6	
70					71.8	Berea Sandstone. Sandstone, medium light gray (N6), fine-grained, well-cemented, competent, contact an unconformity?	620.3	

Refusal at 11.5 feet.
Bottom of borehole at 71.8 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-46

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DATE STARTED 8/20/12 **COMPLETED** 8/20/12

GROUND ELEVATION 752.57 ft MSL **HOLE SIZE** 4.25 in.

DRILLING CONTRACTOR M&W Drilling

GROUND WATER LEVELS:

DRILLING METHOD Split Spoon/Auger

AT TIME OF DRILLING ---

LOGGED BY William Reid **CHECKED BY** Allison Lake

AT END OF DRILLING ---

NOTES 60 deg F. Partly cloudy.

AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				0.8	(ML) Silt with some clay, sand, and gravel, trace rock fragments, brownish yellow (10YR 6/6) to yellowish brown (10YR 5/6), friable. 751.8	
				3.8	(CL-ML) Clay with some silt, trace sand and rock fragments, yellowish brown (10YR 5/6). 748.8	
				4.0	Weathered Shale, brownish gray (5YR 4/1). 748.6	
5				6.0	(CH) Fat Clay. 746.6	
10				12.0	Cuyahoga Formation. Weathered Shale, pale yellowish brown (10YR 6/2), dry, soft. 740.6	
15				15.0	Cuyahoga Formation (Competent). Weathered Shale, moderate yellowish brown (10YR 5/4), soft, with siltstone laminae, iron oxide staining. 737.6	
				15.2	Siltstone, 2 in. thick, dark yellowish orange (10YR 6/6). 737.4	
				16.1	Weathered Shale, dark yellowish brown (10YR 4/2), soft. 736.5	
				17.1	Sandstone, dark yellowish orange (10YR 6/6). 735.5	
				17.4	Weathered Shale, dark yellowish brown (10YR 4/2). 735.2	
				17.7	Sandstone, dark yellowish orange (10YR 6/6). 734.9	
				18.7	Weathered Shale, dark yellowish brown (10YR 4/2). 733.9	
				18.9	Weathered Sandstone. 733.7	
				19.1	Weathered Shale. 733.5	
				19.2	Sandstone, dark yellowish orange (10YR 6/6). 733.4	
20				19.3	733.3	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

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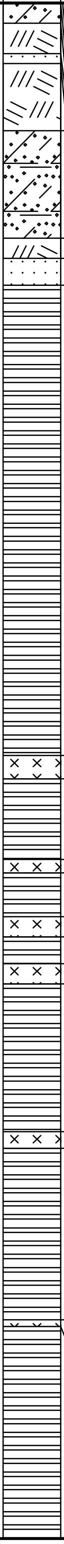
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					19.7	Weathered Shale.	732.9	
					20.0	Sandstone, dark yellowish orange (10YR 6/6), hard.	732.6	
					20.3		732.3	
					20.8	Weathered Shale.	731.8	
					20.9	Sandstone, dark yellowish orange (10YR 6/6). Highly fractured.	731.7	
					21.9		730.7	
						Weathered Shale, medium gray (N5).		
						Sandstone, dark yellowish orange (10YR 6/6).		
						Weathered Shale, medium gray (N5).		
					23.5	Sandstone, dark yellowish orange (10YR 6/6) to pale yellowish brown (10YR 6/2), extremely fractured.	729.1	
					23.8		728.8	
					24.2	Weathered Shale, medium gray (N5).	728.4	
25						720 Sandstone. Sandstone, dark yellowish orange (10YR 6/6).		
						Shale, medium gray (N5) to medium dark gray (N4), with light gray siltstone laminae.		
30					31.2		721.4	
					31.6	Siltstone, light gray (N7), laminated.	721.0	
						Shale, medium dark gray (N4), with siltstone laminae.		
					32.8		719.8	
					33.0	Siltstone, light gray (N7).	719.6	
					33.6	Shale, medium dark gray (N4), with siltstone laminae.	719.0	
					33.9	Siltstone, light gray (N7), fractured.	718.7	
					34.3	Shale, medium dark gray (N4), with siltstone laminae.	718.3	
					34.6	Siltstone, light gray (N7).	718.0	
35						Shale, medium dark gray (N4), soft.		
					36.8		715.8	
					37.1	Siltstone, medium light gray (N6).	715.5	
						Shale, medium dark gray (N4), with siltstone laminae.		
					39.6		713.0	
40					39.7	Siltstone, 1 in. thick.	712.9	
						Shale, medium dark gray (N4).		
					42.9		709.7	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-46

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					43.0	Sandstone, pale yellowish brown (10YR 6/2). *(continued)*	709.6	
						Shale, medium dark gray (N4).		
					43.9		708.7	
					44.0	Sandstone, pale yellowish brown (10YR 6/2).	708.6	
						Shale, medium dark gray (N4).		
					44.9		707.7	
45					45.0	Siltstone, medium gray (N5).	707.6	
						Shale, medium dark gray (N4).		
					49.7		702.9	
50					50.0	Sandstone, dark yellowish brown (10YR 4/2). Questionable depth = 55 feet?	702.6	
						Shale, medium dark gray (N4).		
55								
60								
					64.1		688.5	
					64.2	Sandstone, dark yellowish brown (10YR 4/2).	688.4	
						Shale, medium dark gray (N4) to dark gray, a few thin siltstone and sandstone interbeds.		
65								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-46

CLIENT Fluor B&W Portsmouth **PROJECT NAME** OSDC Geotechnical Investigation
PROJECT NUMBER ______ **PROJECT LOCATION** Remediation Area IV-B

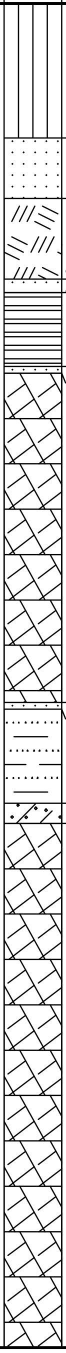
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
70 75					75.2	Shale, medium dark gray (N4) to dark gray, a few thin siltstone and sandstone interbeds. *(continued)*	677.4	
					77.2	680 Sandstone. Sandstone, dark yellowish brown (10YR 4/2), hard.	675.4	
					78.4	Shale, medium dark gray (N4).	674.2	
					78.8	Sandstone, dark yellowish brown (10YR 4/2).	673.8	
80					83.2	Shale, medium dark gray (N4), with thin siltstone interbeds.	669.4	
					83.3	Siltstone, dark yellowish brown (10YR 4/2).	669.3	
85					85.0	Shale, medium dark gray (N4), with thin siltstone interbeds.	667.6	

Refusal at 12.0 feet.
Bottom of borehole at 85.0 feet.

Fluor B&W

BORING NUMBER WD-SB-47

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/9/12 **COMPLETED** 8/9/12
GROUND ELEVATION 733.03 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 89 def F. Partly cloudy. Chance of thunderstorms. 88% humidity. Wind NW @ 3 mph
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				2.0	(ML) Clayey Silt, with weathered Sandstone at 0.5 ft. Sandstone is strong brown (7.5YR 5/8) 731.0	
				2.9	Cuyahoga Formation. Weathered Sandstone, reddish yellow (7.5YR 6/8). 730.1	
				4.1	Weathered Shale, very pale yellowish brown (10YR 6/2), laminated, dry, hard to very stiff. 728.9	
				4.3	Cuyahoga Formation (Competent). Sandstone, moderate brown (5YR 4/4), 2 in. thick. 728.7	
5				5.4	Shale, dark yellowish orange (10YR 6/6) to light olive gray (5Y 6/1). 727.6	
				5.5	Sandstone. 727.5	
10				10.4	Shale, light olive gray (5Y 6/1), iron oxide staining, fractured. 722.6	
				10.5	Weathered Sandstone. 722.5	
				11.9	Shale, light olive gray (5Y 6/1), with interbedded sandstone and siltstone seams, iron oxide staining. 721.1	
				12.2	Sandstone, red, fractured, turbidite-like. 720.8	
15 20					Shale, medium light gray (N6), with some red sandstone and siltstone interbeds, highly fractured, iron oxide staining.	

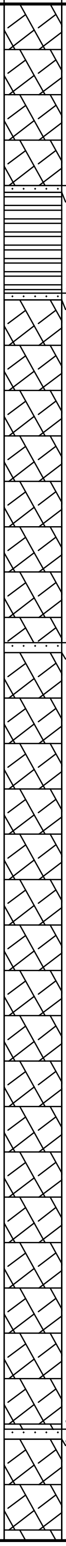
(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-47

PAGE 2 OF 3

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
20					Shale, medium light gray (N6), with some red sandstone and siltstone interbeds, highly fractured, iron oxide staining. *(continued)*	
				22.7 22.8	Sandstone, 1 in. thick. 710.3 710.2	
					Shale, medium light gray (N6), with sandstone and siltstone interbeds.	
				24.3 24.4	Sandstone, 1 in. thick. 708.7 708.6	
25					Shale, medium dark gray (N4), fractured, iron oxide staining.	
				29.5 29.7	Sandstone, 1.5 in. thick. 703.5 703.4	
30					Shale, medium dark gray (N4), with very fine interbedded siltstone seams, fractured, iron oxide staining.	
35						
40						
				41.2 41.4	Sandstone, 1.5 in. thick. 691.8 691.7	
					Shale, medium dark gray (N4), with very fine interbedded siltstone seams, fractured, iron oxide staining.	

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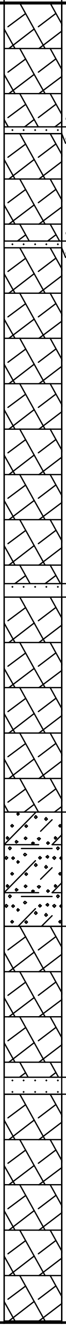
Logo Fluor B&W

BORING NUMBER WD-SB-47

PAGE 3 OF 3

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					44.7	Shale, medium dark gray (N4), with very fine interbedded siltstone seams, fractured, iron oxide staining. *(continued)*	688.3	
45					44.8	Sandstone, 1 in. thick.	688.2	
					46.4	Shale, medium dark gray (N4), with very fine interbedded siltstone seams, fractured, iron oxide staining.	686.6	
					46.5	Sandstone, 1 in. thick.	686.5	
50					51.5	Shale, medium dark gray (N4), with very fine interbedded siltstone seams, fractured, iron oxide staining.	681.5	
					51.7	Sandstone, light gray (N7), 2 in. thick.	681.3	
					54.9	Shale, medium dark gray (N4), with very fine interbedded siltstone seams, fractured, iron oxide staining.	678.1	
55					56.6	680 Sandstone. Sandstone, medium light gray (N6), fractured, iron oxide staining.	676.4	
					58.9	Shale, medium dark gray (N4), with very fine interbedded siltstone seams, fractured, iron oxide staining.	674.2	
					59.1	Sandstone, 3 in. thick.	673.9	
60					62.5	Shale, medium dark gray (N4), with very fine interbedded siltstone seams, fractured, iron oxide staining.	670.5	



Refusal at 4.1 feet.
Bottom of borehole at 62.5 feet.

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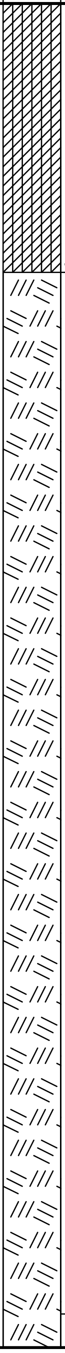
Logo Fluor B&W

BORING NUMBER WD-SB-48

PAGE 1 OF 4

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 7/23/12 **COMPLETED** 8/23/12
GROUND ELEVATION 759.6 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 80 deg F. Partly cloudy to overcast. 68% humidity. Wind WSW @mph
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION	WELL DIAGRAM
0						(CL-ML) Silty Clay, reddish yellow (5YR 7/6), medium stiff, dry, grading to very pale brown (10YR 7/4) at 2.5 ft, to decomposed shale.	
					4.0	755.6	
						Cuyahoga Formation. Weathered Shale, grayish orange (10YR 7/4), laminated, firm to medium dense.	
5							
10							
15							
					19.5	740.1	
20							

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-48

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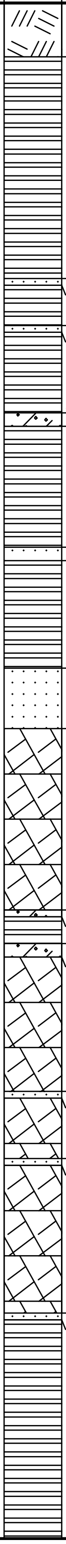
CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					20.8	Cuyahoga Formation (Competent). Weathered Shale, grayish orange (10YR 7/4), mottled with reddish brown iron oxide staining. *(continued)*	738.8	
					24.1	Shale, light olive gray (5Y 6/1), with interbedded sandstone and siltstone seams, iron oxide staining.	735.5	
					24.2	Sandstone, 1 in. thick, iron oxide staining.	735.4	
					24.8	Shale, light olive gray (5Y 6/1), with interbedded sandstone and siltstone seams, iron oxide staining.	734.8	
25					24.9	Sandstone? 1 in. thick? iron oxide staining.	734.7	
					26.1	Shale, dark yellowish orange (10YR 6/6).	733.5	
					26.3	Sandstone, 2 in. thick, pale reddish brown (10R 5/4), fractured, swirled bedding.	733.3	
					28.1	Shale, dark yellowish orange (10YR 6/6), with interbedded fine sandstone seams.	731.5	
					28.3	Sandstone, 2 in. thick.	731.3	
30					29.9	Shale with interbedded fine sandstone seams.	729.7	
					30.8	720 Sandstone. Sandstone.	728.8	
					33.5	Shale with interbedded fine sandstone and siltstone seams, fractured.	726.1	
					33.6	Sandstone, fractured (vugs).	726.0	
					34.0	Shale with interbedded fine sandstone and siltstone seams.	725.6	
35					34.2	Sandstone, highly fractured.	725.4	
					36.2	Shale, medium dark gray (N4), fractured.	723.4	
					36.3	Sandstone, 1 in. thick?	723.3	
					37.2	Shale, medium dark gray (N4), fractured.	722.4	
					37.3	Sandstone, 1 in. thick?	722.3	
					39.5	Shale, medium dark gray (N4), fractured.	720.1	
40					39.6	Sandstone? 1 in. thick?	720.0	
						Shale, medium dark gray (N4), with minor siltstone seams, occasional fractures.		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-48

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	MATERIAL DESCRIPTION		WELL DIAGRAM
				Shale, medium dark gray (N4), with minor siltstone seams, occasional fractures. *(continued)*		
46.5 46.7				Sandstone, 1.5 in. thick.	713.1 713.0	
				Shale, medium dark gray (N4), with minor siltstone seams, occasional fractures.		
48.5 48.6				Sandstone, 1 in. thick.	711.1 711.0	
				Shale, medium dark gray (N4), with minor siltstone seams, occasional fractures.		
49.1 49.3				Sandstone, 2 in. thick.	710.5 710.3	
				Shale, medium dark gray (N4), with minor siltstone seams, occasional fractures.		
50.2 50.3				Sandstone, 1 in. thick.	709.4 709.3	
				Shale, medium dark gray (N4), with minor siltstone seams, occasional fractures.		
53.7 53.8				Siltstone, 1 in. thick.	705.9 705.8	
				Shale, medium dark gray (N4), with minor siltstone seams, occasional fractures.		
54.7 54.9				Sandstone, 2 in. thick.	704.9 704.7	
				Shale, medium dark gray (N4), with minor siltstone seams, occasional fractures.		
55.7 55.8				Sandstone, 1 in. thick.	703.9 703.8	
				Shale, medium dark gray (N4), with minor siltstone seams, occasional fractures.		
58.0 58.1				Siltstone, 1 in. thick.	701.6 701.5	
				Shale, medium dark gray (N4), with minor siltstone seams, occasional fractures.		
61.1 61.3				Sandstone, 2 in. thick.	698.5 698.3	
				Shale, medium dark gray (N4), with numerous siltstone seams.		
63.8 64.0				Sandstone, 1.5 in. thick.	695.8 695.7	
				Shale, medium dark gray (N4), with numerous siltstone seams.		

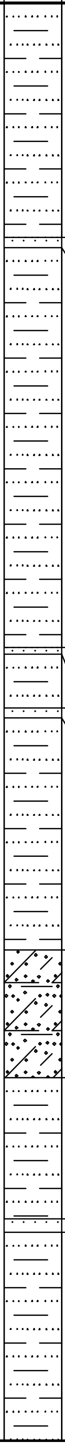
(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-48

CLIENT Fluor B&W Portsmouth **PROJECT NAME** OSDC Geotechnical Investigation

PROJECT NUMBER **PROJECT LOCATION** Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, medium dark gray (N4), with numerous siltstone seams. *(continued)*		
					69.2		690.4	
70					69.4	Sandstone, 1.5 in. thick.	690.3	
						Shale, medium dark gray (N4), with numerous siltstone seams.		
75					75.3		684.3	
					75.4	Sandstone, 1 in. thick.	684.2	
					76.2	Shale, medium dark gray (N4), with numerous siltstone seams.	683.4	
					76.4	Sandstone, 1.5 in. thick.	683.3	
						Shale, medium dark gray (N4), with numerous siltstone seams.		
80					79.8	680 Sandstone. Sandstone, fractured, secondary mineralization noted in fractures, iron oxide staining pervasive.	679.8	
					81.7	Shale, medium dark gray (N4), with numerous siltstone seams.	677.9	
					83.8		675.8	
					84.0	Sandstone, 3 in. thick.	675.6	
85						Shale, medium dark gray (N4), with numerous siltstone seams.		
					87.1		672.5	

Refusal at 19.5 feet.
Bottom of borehole at 87.1 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-49

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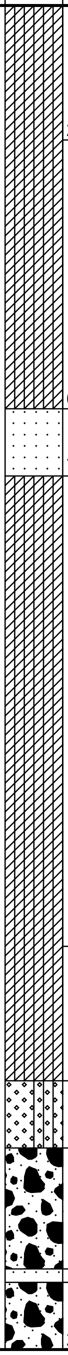
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/5/12 **COMPLETED** 9/5/12
GROUND ELEVATION 669.22 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 89 deg F. Clouds and sun. 93% humidity. Wind NNW @ 1mph.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	MATERIAL DESCRIPTION		WELL DIAGRAM
0				(CL-ML) Silty Clay, reddish brown (5YR 5/4), moist, medium dense, some gray mottling, low plasticity, root to a depth of 2 ft.		
				2.0	667.2	
				(CL-ML) Minford Silt? Silty Clay, brown (7.5YR 5/3), moist, medium dense, some gray mottling.		
5						
				6.0	663.2	
				Cuyahoga Formation. Weathered Sandstone, dark red (10R 3/6), with silty clay and angular gravel pieces.		
				7.0	662.2	
				(CL-ML) Silty Clay, yellowish brown (10YR 5/6), most, medium stiff to stiff, with angular gravel at depth. Gravel, red, sandstone fragments?		
10						
				14.0	655.2	
				(CL-ML) Silty Clay, light gray (2.5Y 7/1) with yellow brown mottling, with very fine sand, grading to sand and silt with depth, moist, medium plastic, medium dense, very fine.		
15						
				16.0	653.2	
				(SW-SM) Silty sand, light gray (2.5Y 7/2) with yellow brown mottling, very fine-grained.		
				17.0	652.2	
				(GW) Gallia Sand. Silty, gravelly sand, brown (7.5YR 4/4) to strong brown (7.5YR 5/6) with depth, gravel is pea-sized. Moist, soft, very fine.		
				18.8	650.4	
				19.0 Weathered Sandstone, brownish yellow, float?	650.2	
				(GW) Silty, gravelly sand, yellowish brown (10YR 5/6), gravel is pea-sized. Moist, soft, very fine.		
20				20.0	649.2	

Bottom of borehole at 20.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-50

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/15/12 **COMPLETED** 8/15/12
GROUND ELEVATION 694.82 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY William Reid **CHECKED BY** Allison Lake
AT END OF DRILLING ---
NOTES 75 deg F. Cloudy, light rain.
AFTER DRILLING ---

DEPTH (ft) 0	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					0.3	Topsoil, 3 in.	694.6	
					1.5	(ML) Silt with Sand, Rock, and Clay, light yellowish brown (10YR 6/6), grading to Clay, very pale brown (10YR 7/4) with depth.	693.3	
					3.0	(CL-ML) Silt and Clay, light gray (10YR 7/1) and yellowish brown (10YR 5/4) mottled, some sand.	691.8	
					4.0	(CL) Clay with some Silt, light gray (10YR 7/1). Grading to Weathered Shale, gray, at 3.8 ft.	690.8	
5					6.0	Weathered Shale, pale yellowish brown (10YR 6/2), dry, crumbly, iron oxide staining near bottom of core, shale not very fissile.	688.8	
					7.0	Cuyahoga Formation. Weathered Shale, pale yellowish brown (10YR 6/2).	687.8	
					7.8	Cuyahoga Formation (Competent); 680 Sandstone. Sandstone, moderate brown (5YR 4/4), fractured, wash-out from 7.8-9 feet.	687.0	
					9.0	Wash Out Zone. Balance of 680 Sandstone?	685.8	
10					10.8	Weathered Shale, dark yellowish orange (10YR 6/6).	684.1	
					11.0	Sandstone, moderate brown (5YR 4/4), hard.	683.8	
15					19.6	Weathered Shale, dark yellowish orange (10YR 6/6) grading to medium dark gray (N4) at 12.1 ft. Iron oxide staining, fractured.	675.2	
20					19.8	Siltstone.	675.1	

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Logo Fluor B&W

BORING NUMBER WD-SB-50

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
20				21.5	Shale, medium dark gray (N4). *(continued)* 673.3	
				21.7	Sandstone, moderate brown, thickness unknown. 673.2	
				24.3	Shale, medium dark gray (N4), fractured. 670.5	
				24.5	Siltstone, 2 in. thick, dark yellowish brown (10YR 4/2). 670.3	
25				25.4	Shale, medium dark gray (N4). 669.4	
				25.6	Siltstone. 669.2	
				27.2	Shale, medium dark gray (N4), fractured. 667.6	
				27.3	Siltstone, 1 in. thick. 667.5	
				28.8	Shale, medium light gray (N6) and medium dark gray (N4), laminated, fractured. 666.0	
30				30.0	Siltstone. 664.8	

Refusal at 7.0 feet.
Bottom of borehole at 30.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-51

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/2/12 **COMPLETED** 8/2/12
GROUND ELEVATION 695.07 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					(CL-ML) Silty Clay, light yellowish brown (10YR 6/4), moist, soft, some organics. Stiff to very stiff.	
8.0					687.1	
8.2					Cuyahoga Formation. Weathered Sandstone, very dusky red (10R 2/2). 686.9	
					Weathered Shale, dark gray (N3) grading to dark yellowish orange (10YR 6/6) with depth. Laminated, fractured, iron oxide staining, very stiff and hard, dry.	
11.6					683.5	
					Cuyahoga Formation (Competent); 680 Sandstone. Sandstone, moderate brown (5YR 3/4).	
13.6					681.5	
					Shale, grayish orange (10YR 7/4) grading to medium gray (N5), with interbedded very thin siltstone seams.	
15.8					679.3	
					Sandstone, grayish orange (10YR 7/4) with swirling patterns, iron oxide staining?	
16.6					678.5	
					Shale, medium gray (N5), with interbeds of fine siltstone and sandstone.	
20						

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-51

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					20.8	Shale, medium gray (N5), with interbeds of fine siltstone and sandstone. *(continued)*	674.3	
					20.9	Sandstone, tan.	674.2	
25					27.5	Shale, medium gray (N5), with fine interbeds of sandstone.	667.6	
					27.8	Sandstone, 3 in. thick.	667.3	
					29.0	Shale, medium gray (N5), with fine interbeds of sandstone.	666.1	
					29.2	Sandstone, 2 in. thick.	665.9	
30					30.1	Shale, medium gray (N5), with fine interbeds of sandstone.	665.0	

Refusal at 11.6 feet.
Bottom of borehole at 30.1 feet.

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Logo Fluor B&W

BORING NUMBER WD-SB-52

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/6/12 **COMPLETED** 9/6/12
GROUND ELEVATION 666.64 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0					0.8	(CL-ML) Silty Clay, pale yellow (2.5Y 7/3), dry stiff.	665.9	
					1.2	Weathered Sandstone, brownish yellow (10YR 6/8)	665.4	
					2.0	(CL-ML) Silty Clay, yellow (10YR 7/8) with gray mottling, dry.	664.6	
5					8.0	(CL-ML) Silty Clay, strong brown (7.5YR 5/8), with some very fine sand, dry to damp, very stiff. Grading to reddish yellow (7.5YR 6/8) and light olive gray (5Y 6/3) with depth. Very stiff, damp, mottled.	658.6	
					8.4	Cuyahoga Formation. Weathered Shale, light yellowish brown (2.5Y 6/3), laminated, dry, hard.	658.2	
					8.6	Sandstone, strong brown (7.5YR 4/6), 2 in. thick.	658.0	
10					10.0	Weathered Shale, light yellowish brown (2.5Y 6/3).	656.6	

Bottom of borehole at 10.0 feet.

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Logo Fluor B&W

BORING NUMBER WD-SB-53

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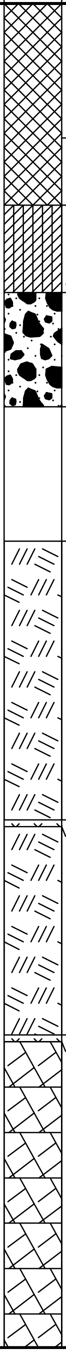
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/23/12 **COMPLETED** 8/23/12
GROUND ELEVATION 706.31 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY William Reid **CHECKED BY** Allison Lake
AT END OF DRILLING ---
NOTES 64 deg F, expected 90. Partly cloudy.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					Fill. Gravel. Rock stuck in tube.	
2.0					704.3	
					Fill? Clay, very pale brown (10YR 7/3), with some silt.	
3.0					703.3	
					(CL-ML) Silt and Clay, yellowish brown (10YR 6/6), moist, some gravel, dry.	
4.3					702.0	
5					(GW) Gallia Sand? Sandstone gravel (cobbles), yellowish red (5YR 4/6).	
6.0					700.3	
					No Recovery.	
8.0					698.3	
10					Cuyahoga Formation (Competent). Weathered Shale, light gray (N7), soft, some iron oxide staining, fractured.	
12.2					694.2	
12.3					Siltstone, moderate yellowish brown (10YR 5/4), 1 in. thick. 694.1	
15					Weathered Shale, medium gray (N5) to medium dark gray (N4) with depth, fractured, soft.	
15.4					691.0	
15.5					Siltstone, moderate yellowish brown (10YR 5/4), 1 in. thick, fractured. 690.9	
20					Shale, medium dark gray (N4), with a few fine siltstone seams, fractured.	

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Logo Fluor B&W

BORING NUMBER WD-SB-53

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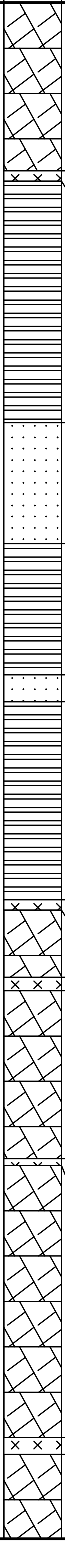
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
20					Shale, medium dark gray (N4), with a few fine siltstone seams, fractured. *(continued)*	
					22.5 683.8	
					Siltstone, medium light gray (N6), 1.5 in. thick.	
					22.7 683.7	
					Shale, medium dark gray (N4), soft.	
25						
					26.3 680.1	
					680 Sandstone. Sandstone, medium light gray (N6).	
					28.1 678.3	
					Shale, medium dark gray (N4).	
30					30.0 676.3	
					Sandstone, medium light gray (N6), hard.	
					30.4 675.9	
					Shale, medium dark gray (N4).	
					33.4 673.0	
					Siltstone, olive gray (5Y 4/1), 1.5 in. thick.	
					33.5 672.8	
					Shale, medium dark gray (N4), fractured.	
					34.5 671.8	
					Siltstone, olive gray (5Y 4/1), 2 in. thick.	
35					34.7 671.6	
					Shale, medium dark gray (N4), fractured.	
					37.2 669.1	
					Siltstone, medium dark gray (N4)? 1 in. thick.	
					37.3 669.0	
					Shale, medium dark gray (N4), with interbedded fine siltstones, fractured.	
40						
					41.4 665.0	
					Siltstone, olive gray (5Y 4/1).	
					41.6 664.7	
					Shale, medium dark gray (N4), fractured.	

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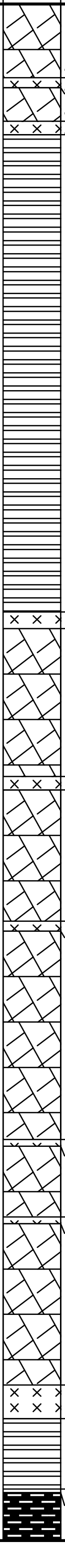
Logo Fluor B&W

BORING NUMBER WD-SB-53

CLIENT Fluor B&W Portsmouth
PROJECT NUMBER
PROJECT NAME OSDC Geotechnical Investigation
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
					Shale, medium dark gray (N4), fractured. *(continued)*		
				44.0		662.4	
				44.1	Siltstone, olive gray (5Y 4/1).	662.2	
				44.6	Shale, medium dark gray (N4), fractured.	661.7	
45				44.8	Siltstone, olive gray (5Y 4/1).	661.5	
					Shale, medium dark gray (N4), with interbedded fine siltstones, fractured.		
50							
				51.9		654.4	
				52.2	Siltstone, olive gray (5Y 4/1).	654.2	
					Shale, medium dark gray (N4), fractured.		
				54.4		652.0	
55				54.6	Siltstone, olive gray (5Y 4/1).	651.8	
					Shale, medium dark gray (N4), fractured.		
				56.5		649.8	
				56.7	Siltstone, olive gray (5Y 4/1).	649.7	
					Shale, medium dark gray (N4), fractured.		
				59.8		646.6	
60				59.9	Siltstone, olive gray (5Y 4/1).	646.5	
					Shale, medium dark gray (N4), fractured.		
				60.9		645.4	
				61.0	Siltstone, olive gray (5Y 4/1).	645.3	
					Shale, medium dark gray (N4), with interbedded siltstone, fractured. Log indicates 68.4.		
				63.4		642.9	
				63.9	Siltstone, olive gray (5Y 4/1), with solution voids filled with shale fragments and lithified mud. Log indicates 68.9.	642.4	
					Shale, medium dark gray (N4).		
65				65.0		641.4	
				65.0	Siltstone, olive gray (5Y 4/1).	641.3	
					Sunbury Shale. Shale, black (N1), fresh.		



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Logo Fluor B&W

BORING NUMBER WD-SB-53

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CLIENT Fluor B&W Portsmouth

PROJECT NUMBER

PROJECT NAME OSDC Geotechnical Investigation

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
				▨	66.0 640.3	

Refusal at 8.0 feet.
Bottom of borehole at 66.0 feet.

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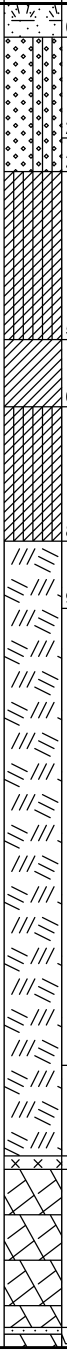
BORING NUMBER WD-SB-54

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/22/12 **COMPLETED** 8/22/12
GROUND ELEVATION 710.77 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY William Reid **CHECKED BY** Allison Lake
AT END OF DRILLING ---
NOTES 72 deg F. Partly cloudy.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0				0.5	Topsoil, very pale brown (10YR 7/3).	710.3	
				2.0	(SW-SM) Sand, silt, and gravel with small rock fragments, yellowish brown (10YR 5/6).	708.8	
				2.5	(SW-SM) Sand and silt, very pale brown (10YR 7/3), some gravel.	708.3	
5				5.0	(CL-ML) Silt and clay, yellowish brown (10YR 6/6), dry, some gravel, trace sand. Moisture content increases with depth.	705.8	
				6.0	(CL) Clay, light yellowish brown (10YR 6/6), some silt, weathered shale in bottom of spoon.	704.8	
				8.0	(CL-ML) Silt and Clay, some gravel, then weathered moderate yellowish brown (10YR 5/4) and medium bluish gray (5B 5/1) mottled shale.	702.8	
				9.0	Cuyahoga Formation. Weathered Shale, moderate yellowish brown (10YR 5/4), soft.	701.8	
10 15				15.8	Cuyahoga Formation (Competent). Weathered Shale, moderate yellowish brown (10YR 5/4), soft, fractured.	695.0	
				17.2	Weathered Shale, medium gray (N5), soft, fractured.	693.6	
				17.4	Siltstone, mix of moderate brown (5YR 4/4) and medium gray (N5), layered.	693.4	
				19.7	Shale, medium dark gray (N4), fractured.	691.1	
20				19.8		691.0	

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Logo Fluor B&W

BORING NUMBER WD-SB-54

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					20.5	Sandstone, moderate brown (5YR 4/4).	690.3	
					20.8	Shale, medium dark gray (N4), fractured. *(continued)*	690.0	
						Sandstone, medium gray (N5).		
25					27.5	Shale, medium dark gray (N4), with interbedded siltstone seams, fractured.	683.3	
					27.6	Sandstone, laminated bedding.	683.2	
30					31.5	Shale, medium dark gray (N4), fractured.	679.3	
					32.9	680 Sandstone. Sandstone, light olive gray (5Y 6/1). Fracture at 31 to 31.5 ft, infilled with completely weathered shale.	677.9	
35					34.8	Shale, medium dark gray (N4), fractured.	676.0	
					35.2	Sandstone, light olive gray (5Y 6/1).	675.6	
40					40.0	Shale, medium dark gray (N4), with interbedded siltstone seams, fractured.	670.8	

Refusal at 9.0 feet.
Bottom of borehole at 40.0 feet.

BORING NUMBER WD-SB-55

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Logo Fluor B&W

CLIENT Fluor B&W Portsmouth	**PROJECT NAME** OSDC Geotechnical Investigation
PROJECT NUMBER	**PROJECT LOCATION** Remediation Area IV-B
DATE STARTED 7/31/12 **COMPLETED** 8/1/12	**GROUND ELEVATION** 675.58 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling	**GROUND WATER LEVELS:**
DRILLING METHOD Split Spoon/Auger	**AT TIME OF DRILLING** ---
LOGGED BY Jay Parker **CHECKED BY** William Reid	**AT END OF DRILLING** ---
NOTES 89 deg F. 42% humidity. Wind S @3mph.	**AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0					2.0	(ML) Sandy Silt, reddish yellow (7.5YR 6/6), dry, firm to stiff, mottled with red clay.	673.6	
					4.0	(CL-ML) Silty Clay, reddish yellow (7.5YR 6/6), with red mottled areas, dry, stiff, trace sand, sandstone gravel fragments.	671.6	
5					6.0	(CL-ML) Silty Clay, strong brown (7.5YR 6/8), mottled with light gray (7.5YR 7/1), dry, stiff, some sandstone gravel fragments.	669.6	
					7.9	Cuyahoga Formation. Weathered Shale, grayish orange (10YR 7/4), laminated, iron oxide staining.	667.7	
					8.0	Sandstone.	667.6	
10					12.8	Weathered Shale, grayish orange (10YR 7/4), laminated, iron oxide staining.	662.8	
15					16.2	Cuyahoga Formation (Competent). Weathered Shale, grayish orange, heavily fractured.	659.4	
					16.3	Sandstone, 1 in. thick.	659.3	
20						Shale, medium gray (N5), interbedded sandstones and siltstones throughout, fractured.		

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Logo Fluor B&W

BORING NUMBER WD-SB-55

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CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20				▨		Shale, medium gray (N5), interbedded sandstones and siltstones throughout, fractured. *(continued)*		
					23.1		652.5	
25				■		Sunbury Shale. Shale, medium dark gray (N4), no fractures, grading to very black shale.		
30					30.0		645.6	

Refusal at 12.8 feet.
Bottom of borehole at 30.6 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-56

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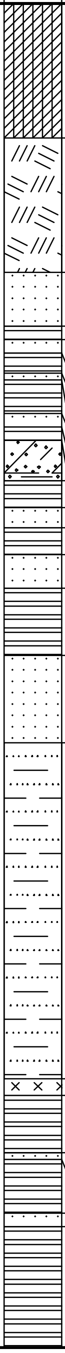
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 7/16/12 **COMPLETED** 7/17/12
GROUND ELEVATION 730.5 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0					(CL-ML) Silty Clay, very pale brown (10YR 7/3), mottled with yellowish brown, dry, medium stiff.		
				2.0		728.5	
					Weathered Shale, yellow (10YR 7/8), dry, medium stiff, laminated, and silty clay.		
				4.0		726.5	
					Cuyahoga Formation (Competent); 720 Sandstone.		
				4.8	Sandstone, dark reddish brown (10R 3/4) grading to light	725.7	
5				5.0	brown (5YR 5/6), dense, fine-grained.	725.5	
				5.2	Shale, pale yellowish brown (10YR 6/2), laminated.	725.3	
				5.5		725.0	
				5.6	Sandstone, light brown (5YR 5/6), 2 in. thick.	724.9	
				6.1	Shale, pale yellowish brown (10YR 6/2), laminated.	724.4	
				6.3		724.2	
				6.5	Sandstone, pale yellowish brown (10YR 6/2), 1 in. thick.	724.0	
				7.1	Shale, pale yellowish brown (10YR 6/2).	723.4	
				7.5	Sandstone, pale yellowish brown (10YR 6/2).	723.0	
				7.8	Shale, pale yellowish brown (10YR 6/2), laminated.	722.7	
				8.2	Sandstone, pale yellowish brown (10YR 6/2), fine-grained,	722.3	
				8.7	fractured, iron oxide staining.	721.8	
					Shale, pale yellowish brown (10YR 6/2), laminated.		
				9.7	Sandstone, light brown (5YR 5/6), fine-grained?	720.8	
10					Shale, pale yellowish brown (10YR 6/2), laminated.		
					Sandstone, pale yellow gray, fine-grained?		
				11.0	Shale, pale yellowish brown (10YR 6/2), laminated.	719.5	
					Sandstone, yellowish gray (5Y 8/1), 0.5 in. thick.		
					Shale, pale yellowish brown (10YR 6/2), with fine siltstone seams throughout, laminated, fractured with depth. Shale grades to brownish gray (5YR 4/1) with depth.		
15							
				16.0		714.5	
				16.3	Siltstone.	714.3	
					Shale, brownish gray (5YR 4/1), laminated.		
				17.1		713.4	
				17.2	Sandstone, 1-2 in. thick.	713.3	
				18.0	Shale, brownish gray (5YR 4/1), laminated.	712.5	
				18.2	Sandstone, 1-2 in. thick.	712.3	
					Shale, brownish gray (5YR 4/1) grading to medium dark gray (N4) at 21 ft, interbedded fine seams of siltstone starting at 21 ft.		
20							

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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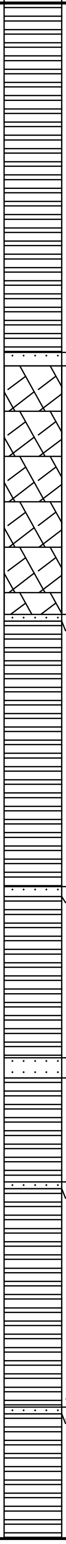
Logo Fluor B&W

BORING NUMBER WD-SB-56

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20						Shale, brownish gray (5YR 4/1) grading to medium dark gray (N4) at 21 ft, interbedded fine seams of siltstone starting at 21 ft. *(continued)*		
25					25.2 25.4	Sandstone, medium dark gray (N4), 2.5 in. thick.	705.3 705.1	
						Shale, medium dark gray (N4), with interbedded fine seams of siltstone and sandstone, fractured?		
					29.1 29.2	Sandstone, 1 in. thick.	701.4 701.3	
30						Shale, medium dark gray (N4), with interbedded fine seams of siltstone and sandstone.		
					33.2 33.3	Sandstone, light greenish gray (5GY 8/1), 1.5 in. thick.	697.4 697.2	
						Shale, medium dark gray (N4), with interbedded fine seams of siltstone and sandstone.		
35					35.7 36.0	Sandstone, light greenish gray (5GY 8/1), 4 in. thick.	694.8 694.5	
						Shale, medium dark gray (N4), with interbedded fine seams of siltstone.		
					37.6 37.7	Sandstone, 1 in. thick.	693.0 692.9	
						Shale, medium dark gray (N4), with interbedded fine seams of siltstone.		
40					40.9 41.0	Sandstone, 1.5 in. thick.	689.6 689.5	
						Shale, medium dark gray (N4), with interbedded fine seams of siltstone.		

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-56

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
45					46.0	Shale, medium dark gray (N4), with interbedded fine seams of siltstone. *(continued)*	684.5	

Refusal at 4.0 feet.
Bottom of borehole at 46.0 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-57

PAGE 1 OF 4

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/13/12 **COMPLETED** 8/14/12
GROUND ELEVATION 710.57 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY William Reid **CHECKED BY** Allison Lake
AT END OF DRILLING ---
NOTES 80 deg F. Partly cloudy.
AFTER DRILLING ---

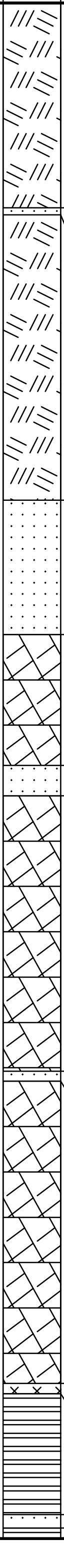
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0				2.0	(ML) Silt, yellowish brown (10YR 5/8) with pale brown (10YR 6/3) mottling beginning at 16 in., trace sand, crumbly.	708.6	
5				6.0	(CL-ML) Silt and Clay, yellowish brown (10YR 5/8)with some pale brown mottling, crumbly, slightly plastic, moist.	704.6	
				8.0	(CL) Clay with some silt and rock fragments, yellowish brown (10YR 5/6), iron oxide staining along entire core.	702.6	
10				10.0	(CL-ML) Silt, Clay, and Gravel, brownish yellow (10YR 6/6), with some sandstone fragments, some iron oxide staining, slightly plastic, increasing with depth.	700.6	
				12.0	Clay and Gravel with some silt and sand, light yellowish brown (10YR 6/4) with brownish yellow (10YR 6/6) mottling, becoming brownish yellow (10YR 6/6) at 11 ft. Some gray mottling at 11.5 ft. Iron oxide staining on gravel.	698.6	
				14.7	Cuyahoga Formation. Weathered Shale, brownish yellow (10YR 6/6) grading to dark yellowish brown (10YR 4/2), dry. light brownish gray (5YR 6/1) clay last 3 in.	695.9	
15				19.6	Cuyahoga Formation (Competent). Weathered Shale, moderate yellowish brown (10YR 5/4), fissile.	691.0	
				19.7		690.9	
20					Sandstone, dark yellowish orange (10YR 6/6).		

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-57

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20						Weathered Shale, moderate yellowish brown (10YR 5/4) grading to medium gray (N5) at 21 ft, fractured. *(continued)*		
					23.1		687.5	
					23.2	Sandstone, medium gray (N5), 1 in. thick.	687.4	
25						Weathered Shale, medium gray (N5), soft, grading to moderate yellowish brown (10YR 5/4) shale at 26.7 ft, fractured.		
					27.4		683.2	
						680 Sandstone. Sandstone, moderate brown (5YR 4/4) grading to medium light gray (N6).		
					29.4		681.2	
30						Shale, medium dark gray (N4), fractured.		
					31.4		679.2	
					31.8	Sandstone, medium gray (N5).	678.8	
35						Shale, medium dark gray (N4), fractured.		
					35.9		674.7	
					36.1	Sandstone or Siltstone, 2 in. thick?	674.5	
40						Shale, medium dark gray (N4), medium hard, fractured.		
					40.6		670.0	
					40.7	Sandstone, brownish gray (5YR 4/1).	669.9	
						Shale, medium dark gray (N4).		
					42.5		668.1	
					42.7	Sandstone?	667.9	

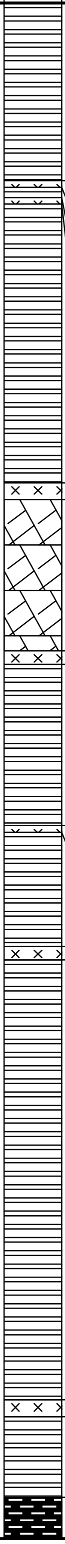
(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-57

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION	WELL DIAGRAM
					Shale, medium dark gray (N4). *(continued)*		
45.5					Siltstone, 1 in. thick.	665.1	
45.6					Shale, medium dark gray (N4).	665.0	
45.8					Siltstone, brownish gray (5YR 4/1), 1 in. thick.	664.8	
45.9					Shale, medium dark gray (N4), with interbedded siltstone seams.	664.7	
50.0					Siltstone, brownish gray (5YR 4/1).	660.6	
50.3					Shale, medium dark gray (N4), medium hard, fractured.	660.3	
52.5					Siltstone, brownish gray (5YR 4/1).	658.1	
52.7					Shale, medium dark gray (N4).	657.9	
55.1					Siltstone, brownish gray (5YR 4/1).	655.5	
55.2					Shale, medium dark gray (N4).	655.4	
56.9					Siltstone, brownish gray (5YR 4/1).	653.7	
57.1					Shale, medium dark gray (N4), with interbedded siltstone seams, hard.	653.5	
63.7					Siltstone, brownish gray (5YR 4/1).	646.9	
63.9					Shale, medium bluish gray (5B 5/1).	646.7	
65.1					Sunbury Shale. Shale, medium black.	645.5	



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Logo Fluor B&W

BORING NUMBER WD-SB-57

CLIENT Fluor B&W Portsmouth **PROJECT NAME** OSDC Geotechnical Investigation

PROJECT NUMBER **PROJECT LOCATION** Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
				68.0	Sunbury Shale. Shale, medium black. *(continued)* 642.6	

Refusal at 14.7 feet.
Bottom of borehole at 68.0 feet.

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Logo Fluor B&W

BORING NUMBER WD-SB-58

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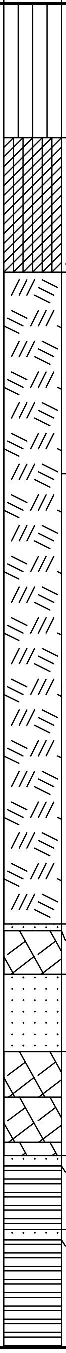
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/9/12 **COMPLETED** 8/13/12
GROUND ELEVATION 685.77 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY William Reid **CHECKED BY** Allison Lake
AT END OF DRILLING ---
NOTES Partly cloudy.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					(ML) Silt, some clay and rock fragments, light gray (10YR 7/1) , iron oxide staining. 2.0 683.8	
					(CL-ML) Silt, clay, and rock fragments, light gray (10YR 7/1), trace sand, iron oxide staining. Weathered gray shale in bottom of spoon. 4.0 681.8	
5					Cuyahoga Formation. Weathered Shale, gray to light gray (N7) with depth, fissile, iron oxide staining. 7.0 678.8	
10					Cuyahoga Formation (Competent). Weathered Shale, light brown (5YR 5/6) grading to pale yellowish brown (10YR 6/2) (8.4 ft) to medium light gray (N6) (13 ft), soft in places, occasional fractures, iron oxide staining on fractures. 13.7 672.1	
					Sandstone, light brown (5YR 5/6) and gray?, laminated. 13.8 672.0	
					Shale, medium gray (N5), with interbedded siltstone and sandstone seams, fractured. 14.5 671.3	
15					Sandstone or Siltstone, olive gray (5Y 4/1). 15.6 670.2	
					Shale, medium gray (N5), fractured. 17.2 668.6	
					Sandstone, brownish gray (5YR 4/1). 17.3 668.5	
					Shale, medium gray (N5), laminated. 18.3 667.5	
					Sandstones or Siltstone, brownish gray (5YR 4/1). 18.4 667.4	
20					Shale, medium gray (N5).	

(Continued Next Page)

BORING NUMBER WD-SB-58

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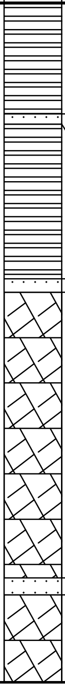
Fluor B&W

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
20					Shale, medium gray (N5). *(continued)*		
				21.7	Sandstone or Siltstone, brownish gray (5YR 4/1).	664.1	
				21.8	Shale, medium gray (N5), medium hard.	664.0	
				24.1	Sandstone, brownish gray (5YR 4/1), hard.	661.7	
25				24.3	Shale, gray to medium light gray (N6), fractured.	661.5	
				28.6	Sandstone, brownish gray (5YR 4/1).	657.2	
				28.8	Shale, medium dark gray (N4), medium hard, fractured.	657.0	
30				30.1		655.7	

Refusal at 7.0 feet.
Bottom of borehole at 30.1 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-59

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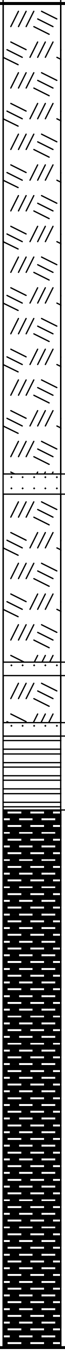
CLIENT	Fluor B&W Portsmouth	**PROJECT NAME**	OSDC Geotechnical Investigation
PROJECT NUMBER		**PROJECT LOCATION**	Remediation Area IV-B
DATE STARTED 8/8/12	**COMPLETED** 8/8/12	**GROUND ELEVATION** 673.43 ft MSL	**HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR	M&W Drilling	**GROUND WATER LEVELS:**	
DRILLING METHOD	Split Spoon/Auger	**AT TIME OF DRILLING**	---
LOGGED BY Jay Parker	**CHECKED BY** William Reid	**AT END OF DRILLING**	---
NOTES	Rainy.	**AFTER DRILLING**	---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0						Cuyahoga Formation. Weathered Shale, yellow (10YR 7/6), dry, laminated, a few pieces of weathered sandstone. Grading to light yellowish brown (10YR 6/4) with gray mottling with depth. Stiff to hard with depth.		
5					7.0		666.4	
					7.3	Weathered Sandstone, brownish yellow (10YR 6/2), crumbled, moist, iron oxide staining.	666.1	
					9.8	Weathered Shale, light brownish gray (5YR 6/1), laminated, dry, hard.	663.6	
10					10.0	Weathered Sandstone, brownish yellow (10YR 6/8), iron oxide staining.	663.4	
					10.7	Weathered Shale, light brownish gray (5YR 6/1), laminated, dry, hard.	662.7	
					10.9	Weathered Sandstone, brownish yellow (10YR 6/8), crumbled, 2 in. thick.	662.5	
					12.0	Shale, grayish brown (5YR 3/2).	661.4	
						Sunbury Shale? Shale, brown (10YR 5/3) (12 ft) to dark grayish brown (5YR 3/2) (14 ft) to very dark grayish brown (5YR 3/2) (18 ft). Laminated, iron oxide staining, stiff to very stiff, dry, becoming very crumbly at 18 ft.		
15								
20								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-59

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					22.0	Sunbury Shale? Shale, brown (10YR 5/3) (12 ft) to dark grayish brown (5YR 3/2) (14 ft) to very dark grayish brown (5YR 3/2) (18 ft). Laminated, iron oxide staining, stiff to very stiff, dry, becoming very crumbly at 18 ft. *(continued)*	651.4	
25 30					31.0	Shale, olive black (5Y 2/1), pyrite inclusions.	642.4	

Refusal at 22.0 feet.
Bottom of borehole at 31.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-60

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/9/12 **COMPLETED** 9/9/12
GROUND ELEVATION 635.65 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0				▩	2.0	Asphalt, gravel.	633.7	
5 10				▨	10.0	(CL-ML) Silty Clay with some sand, yellowish brown (10YR 5/6), medium plasticity, damp to moist, dense.	625.7	

Bottom of borehole at 10.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-61

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/6/12 **COMPLETED** 8/6/12
GROUND ELEVATION 657.47 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES Hot.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0				▥	1.0	(ML) Sandy Silt with some clay, light yellowish brown (2.5Y 6/3), dry, medium dense.	656.5	
5				▨	8.0	(CL-ML) Silty Clay, light yellowish brown (2.5Y 6/4 and 2.5Y 6/3), mottled with light gray, damp to moist with depth, stiff.	649.5	
10				▨	10.0	(CL-ML) Silty Clay, olive yellow (2.5Y 6/6), soft, wet to saturated.	647.5	

Bottom of borehole at 10.0 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-62

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CLIENT Fluor B&W Portsmouth		**PROJECT NAME** OSDC Geotechnical Investigation	
PROJECT NUMBER		**PROJECT LOCATION** Remediation Area IV-B	
DATE STARTED 8/1/12	**COMPLETED** 8/1/12	**GROUND ELEVATION** 690.5 ft MSL	**HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling		**GROUND WATER LEVELS:**	
DRILLING METHOD Split Spoon/Auger		**AT TIME OF DRILLING** ---	
LOGGED BY Jay Parker	**CHECKED BY** William Reid	**AT END OF DRILLING** ---	
NOTES Hot. Clear skies.		**AFTER DRILLING** ---	

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0				3.0	(ML) Sandy Silt, strong brown (7.5YR 5/6), dry, soft to medium. Fine sand. 687.5	
5 10				11.8	(CL-ML) Silty Clay, light yellowish brown (2.5Y 6/3), dry, faint laminations, stiff. Grading to olive yellow (2.5Y 6/6) at 6 ft and very stiff to hard at 8 ft. Red decomposed sandstone clast at 7 ft. 678.7	
				14.2	Cuyahoga Formation. Weathered Shale. 676.3	
				14.3	Sandstone, 1 in. thick. 676.2	
				14.6	Weathered Shale. 675.9	
15				16.2	Cuyahoga Formation (Competent). Weathered Shale, moderate yellowish brown (10YR 5/4), highly fractured. 674.3	
				16.3	Sandstone, 1 in. thick. 674.2	
				16.6	Weathered Shale, moderate yellowish brown (10YR 5/4), highly fractured. 673.9	
				16.7	Sandstone, 1 in. thick. 673.8	
20					Weathered Shale, moderate yellowish brown (10YR 5/4), interbedded sandstone seam, highly fractured.	

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-62

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
20					20.3	670.2	
					20.6 Sandstone, red, 1 in. thick.	669.9	
					Shale, medium dark gray (N4), laminated		
					22.8	667.7	
					23.1 Sandstone.	667.4	
					Shale, medium dark gray (N4), laminated		
25					24.9	665.6	
					25.1 Sandstone.	665.4	
					25.8 Shale, medium dark gray (N4), laminated	664.7	
					26.1 Sandstone.	664.4	
					Shale, medium dark gray (N4), laminated		
					27.2	663.3	
					27.3 Sandstone, 1 in. thick.	663.2	
					Shale, medium dark gray (N4), with interbedded siltstone seams.		
30					30.0	660.5	

Refusal at 14.6 feet.
Bottom of borehole at 30.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

BORING NUMBER WD-SB-63

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Logo Fluor B&W

CLIENT Fluor B&W Portsmouth	**PROJECT NAME** OSDC Geotechnical Investigation
PROJECT NUMBER	**PROJECT LOCATION** Remediation Area IV-B
DATE STARTED 8/6/12 **COMPLETED** 8/9/12	**GROUND ELEVATION** 738.67 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling	**GROUND WATER LEVELS:**
DRILLING METHOD Split Spoon/Auger	**AT TIME OF DRILLING** ---
LOGGED BY Jay Parker **CHECKED BY** William Reid	**AT END OF DRILLING** ---
NOTES None.	**AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0					Cuyahoga Formation. Weathered Shale, reddish yellow (5YR 6/6) to light yellowish brown (2.5Y 6/3) (2 ft), laminated, dry, medium dense.		
				3.3 3.4	Sandstone, strong brown (7.5YR 5/8), 1 in. thick.	735.4 735.3	
5					Weathered Shale, light yellowish brown (2.5Y 6/3) to light gray (N7) (6ft), laminated, dry, hard.		
				6.6 6.7	Sandstone, 1 in. thick.	732.1 732.0	
					Weathered Shale, light gray (N7), laminated, dry, hard.		
				7.8 7.9	Sandstone, 1 in. thick.	730.9 730.8	
10					Weathered Shale, light gray (N7), laminated, dry, hard.		
				11.9 12.0	Sandstone, 1 in. thick.	726.8 726.7	
15					Weathered Shale, light gray (N7) to pale yellow (14 ft), laminated, dry, hard.		
				16.8	Cuyahoga Formation (Competent). Weathered Shale, dark yellowish brown (10YR 4/2), fractured, iron oxide staining.	721.9	
				17.5 17.6	Sandstone, 1 in. thick.	721.2 721.1	
				18.5 18.6	Weathered Shale, dark yellowish brown (10YR 4/2), iron oxide staining, fractured.	720.2 720.1	
				19.4 19.5	Sandstone, 1 in. thick.	719.3 719.2	
20					Weathered Shale, dark yellowish brown (10YR 4/2), iron		

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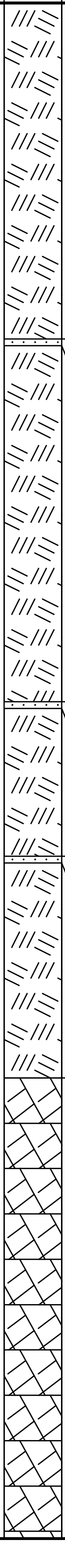
Logo Fluor B&W

BORING NUMBER WD-SB-63

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

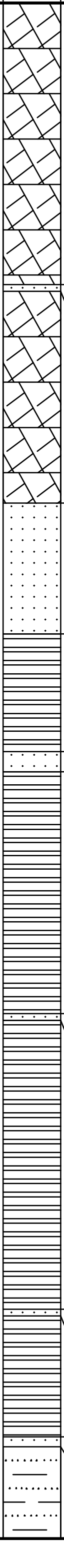
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
20					oxide staining, fractured. Sandstone, 1 in. thick. Weathered Shale, dark yellowish brown (10YR 4/2), with interbedded sandstone seams, iron oxide staining, fractured. *(continued)*	
25					25.0 — 713.7	
					25.1 Sandstone, 1 in. thick. 713.6 Weathered Shale, dark yellowish brown (10YR 4/2), with interbedded sandstone and siltstone seams, iron oxide staining, fractured.	
30					30.4 — 708.3	
					30.5 Sandstone, 1 in. thick. 708.2 Weathered Shale, dark yellowish brown (10YR 4/2), with interbedded sandstone and siltstone seams, iron oxide staining, fractured.	
					32.7 — 706.0	
					32.8 Sandstone, 1 in. thick. 705.9 Weathered Shale, dark yellowish brown (10YR 4/2), with interbedded sandstone and siltstone seams, iron oxide staining, fractured.	
35					36.0 — 702.7	
					Shale, dark gray (N3), with interbedded sandstone and siltstone seams, fractured, iron oxide staining.	
40						

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-63

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, dark gray (N3), with interbedded sandstone and siltstone seams, fractured, iron oxide staining. *(continued)*		
45								
					47.1	Sandstone, 1 in. thick.	691.6	
					47.2	Shale, dark gray (N3), with interbedded siltstone seams, fractured.	691.5	
50								
					50.3	680 Sandstone. Sandstone, moderate reddish brown (10R 4/6).	688.4	
					52.3	Shale, dark gray (N3), with interbedded siltstone seams.	686.4	
					54.0	Sandstone, medium light gray (N6), 3.5 in. thick.	684.7	
					54.3	Shale, dark gray (N3), with interbedded siltstone seams.	684.4	
55								
					57.9	Sandstone, 1 in. thick.	680.8	
					58.0	Shale, dark gray (N3), with interbedded siltstone seams.	680.7	
60								
					62.3	Sandstone, 1 in. thick.	676.4	
					62.4	Shale, dark gray (N3), with interbedded siltstone seams.	676.3	
					64.2	Sandstone, 1.5 in. thick.	674.5	
					64.4	Shale, dark gray (N3), with numerous interbedded siltstone seams.	674.3	
65								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-63

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					67.3	Shale, dark gray (N3), with numerous interbedded siltstone seams. *(continued)*	671.4	
					67.5	Sandstone, 1.5 in. thick.	671.2	
					69.2	Shale, dark gray (N3), with numerous interbedded siltstone seams.	669.5	
					69.3	Sandstone, 1 in. thick.	669.4	
70					71.4	Shale, dark gray (N3), with numerous interbedded siltstone seams.	667.3	
					71.6	Sandstone, 1.5 in. thick.	667.1	
					73.4	Shale, dark gray (N3), with numerous interbedded siltstone seams.	665.3	

Refusal at 16.8 feet.
Bottom of borehole at 73.4 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-64

PAGE 1 OF 3

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 7/12/12 **COMPLETED** 7/16/12
GROUND ELEVATION 750.49 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 86 deg F. 39% humidity. Wind SSE @6mph.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0					(CL-ML) Silty Clay, very pale brown (10YR 7/4) grading to brownish yellow (10YR 5/6) with depth, trace sand (fine), dry, soft, crumbly.		
2.0						748.5	
					Cuyahoga Formation. Weathered Shale and Silty Clay, yellow (10YR 7/8) , fissile, iron oxide staining in thin beds. dark yellowish orange (10YR 6/6) at 4 ft, light brown (5YR 5/6) at 5.5 ft, dark yellowish orange (10YR 6/6) at 6 ft, pale yellowish brown (10YR 6/2) at 9.5 ft. Laminated starting at 7.5 ft.		
10.5						740.0	
					Cuyahoga Formation (Competent). Shale, moderate yellowish brown (10YR 5/4), laminated, iron oxide staining.		
11.0						739.5	
					Sandstone, moderate reddish brown (10R 4/6).		
11.2						739.3	
					Shale, moderate yellowish brown (10YR 5/4), laminated, iron oxide staining.		
11.4						739.1	
					Sandstone, moderate yellowish brown (10YR 5/4), turbidite?		
11.8						738.7	
					Shale, moderate yellowish brown (10YR 5/4), laminated, iron oxide staining.		
13.0						737.5	
					Sandstone, moderate yellowish brown (10YR 5/4), laminated.		
13.1						737.4	
					Shale, moderate yellowish brown (10YR 5/4), laminated, iron oxide staining, grading to moderate gray at 14.5 ft, fractured.		
16.1						734.4	
					Sandstone, moderate reddish brown (10R 4/6), turbidite laminations?		
16.2						734.3	
					Shale, moderate gray, finely bedded.		
16.5						734.0	
					Sandstone, moderate reddish brown (10R 4/6).		
16.6						733.9	
					Shale, moderate gray, finely bedded.		
20.0						730.5	

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BORING NUMBER WD-SB-64

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					20.4	Sandstone, light brown (5YR 5/6), hard, fine-grained.	730.1	
					20.6	Shale, moderate gray, finely bedded.	729.9	
					21.1	Sandstone, light brown (5YR 5/6), hard.	729.4	
					21.4	Shale, moderate gray, finely bedded.	729.1	
					21.9 22.3	720 Sandstone. Sandstone, pale yellowish brown (10YR 6/2).	728.6 728.2	
					22.4	Shale, moderate gray, finely bedded.	728.1	
					23.0	Sandstone, light brown (5YR 5/6), fine-medium grained.	727.5	
						Shale, moderate gray, finely bedded.		
					23.8	Sandstone, light brown (5YR 5/6).	726.7	
					24.3 24.4	Shale, light olive gray (5Y 6/1), finely bedded (laminated).	726.2 726.1	
25					24.8 25.2	Sandstone, light brown (5YR 5/6).	725.7 725.3	
						Shale, light olive gray (5Y 6/1), finely bedded (laminated).		
					25.9	Sandstone, light brown (5YR 5/6), interbedded.	724.6	
					26.1	Shale, light olive gray (5Y 6/1), laminations decreasing with depth.	724.4	
					27.0 27.1	Sandstone, medium light gray (N6), fine-medium grained, hard.	723.5 723.4	
						Shale, medium dark gray (N4)		
					28.2 28.3	Sandstone.	722.3 722.2	
					28.8	Shale, medium dark gray (N4), laminated.	721.7	
					29.1	Sandstone.	721.4	
						Shale, medium dark gray (N4), laminated.		
30						Sandstone, fractured, iron oxide staining.		
					30.2	Shale, medium dark gray (N4), laminated.	720.3	
					30.4	Sandstone, fractured, iron oxide staining.	720.1	
						Shale, medium dark gray (N4), with interbedded siltstone seams.		
35					35.6 35.8		714.9 714.7	
						Siltstone, light brown (5YR 5/6), hard, very fine-grained, 2 in. thick.		
					36.5 36.6	Shale, medium dark gray (N4), with interbedded siltstone seams.	714.0 713.9	
					37.3 37.4	Sandstone.	713.2 713.1	
						Shale, medium dark gray (N4), with interbedded siltstone seams.		
						Sandstone.		
						Shale, medium dark gray (N4), with interbedded siltstone seams.		
40					40.5 40.6		710.0 709.9	
						Sandstone.		
						Shale, medium dark gray (N4), laminations absent.		
					42.3 42.4		708.2 708.1	
						Sandstone, 1 in. thick.		

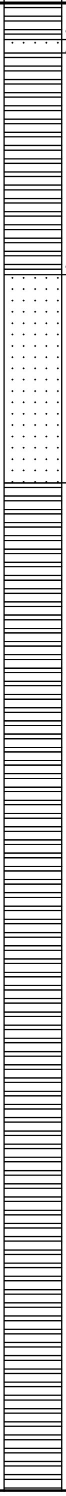
(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-64

PAGE 3 OF 3

CLIENT Fluor B&W Portsmouth **PROJECT NAME** OSDC Geotechnical Investigation
PROJECT NUMBER **PROJECT LOCATION** Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
					Shale, medium dark gray (N4). *(continued)*		
43.4					Sandstone, pale yellowish brown (10YR 6/2), 2 in. thick.	707.1	
43.6					Shale, medium dark gray (N4), with interbedded sandstone seams.	706.9	
46.9					Sandstone, pale yellowish brown (10YR 6/2), 1 in. thick.	703.6	
50.0					Shale, medium dark gray (N4), with interbedded sandstone and siltstone seams throughout. All interbeds under 1 in. in thickness.	700.5	
65.0						685.5	

Depth scale: 45, 50, 55, 60, 65

Refusal at 10.7 feet.
Bottom of borehole at 65.0 feet.

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Logo Fluor B&W

BORING NUMBER WD-SB-65

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/15/12 **COMPLETED** 8/16/12
GROUND ELEVATION 748.87 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY William Reid **CHECKED BY** Allison Lake
AT END OF DRILLING ---
NOTES Sunny. 80s.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					(CL-ML) Silt and Clay, light yellowish brown (2.5Y 6/3) to brownish yellow (10YR 6/6) with depth, trace sand, dry, crumbly.	
				3.5	745.4	
					Weathered Shale, light brownish gray (5YR 6/1) to dark yellowish brown (10YR 4/2), dry, crumbly, fissile.	
5						
				6.0	742.9	
					Cuyahoga Formation. Augered through, no recovery.	
				8.0	740.9	
				8.1	Cuyahoga Formation (Competent). Sandstone, light brown (5YR 5/6), hard. 740.8	
				8.3	Weathered Shale, light gray (N7). 740.6	
				8.5	Sandstone, light brown (5YR 5/6). 740.4	
					Shale, light gray (N7) grading to dark yellowish orange (10YR 6/6) at 10 ft.	
10						
				11.2	737.7	
				11.4	Sandstone. 737.5	
				12.1	Weathered Shale. 736.8	
				12.6	Sandstone or Siltstone, upper/lower units separated by 0.5 in. shale. 736.3	
					Weathered Shale, medium light gray (N6) to medium gray (N5) at 12.4 ft, exhibiting increasing weathering effects with depth, fractured.	
15						
				15.6	733.3	
				15.9	Sandstone, dark yellowish brown (10YR 4/2). 733.0	
					Weathered Shale, medium gray (N5), severely weathered, fractured.	
				18.0	730.9	
				18.1	Sandstone, light brown (5YR 5/6). 730.8	
					Weathered Shale, medium gray (N5), with interbedded sandstone seams, fractured.	
				19.2	729.7	
					Sandstone, dark yellowish orange (10YR 6/6)	
				19.7	729.2	
20				20.0	728.9	

(Continued Next Page)

BORING NUMBER WD-SB-65

Logo Fluor B&W

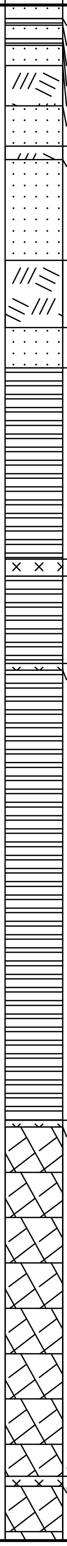
CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
20						
25						
30						
35						
40						



Depth	Elevation
20.2	728.7
20.3	728.6
20.5	728.4
20.6	728.3
20.9	728.0
21.5	727.4
22.1	726.8
22.3	726.6
23.8	725.1
24.8	724.1
25.4	723.5
28.3	720.6
28.5	720.4
29.8	719.1
29.9	719.0
36.6	712.3
36.7	712.2
41.9	707.0
42.1	706.8

Shale, medium gray (N5).

Sandstone, dark yellowish orange (10YR 6/6). *(continued)*

Shale, medium gray (N5).

Sandstone, dark yellowish orange (10YR 6/6).

Shale, medium gray (N5).

720 Sandstone. Sandstone, dark yellowish orange (10YR 6/6).

Weathered Shale (clay), medium gray (N5).

Sandstone, dark yellowish orange (10YR 6/6), two beds, with 0.5 in. shale bed in-between.

Weathered Shale, gray.

Sandstone, moderate reddish brown (10R 4/6).

Weathered Shale, olive gray (5Y 4/1) grading to medium dark gray (N4), with interbedded sandstone seams, fractured.

Sandstone, moderate yellowish brown (10YR 5/4), soft?, void with infill of shale and sandstone.

Shale, medium light gray (N6) to medium gray (N5) and medium dark gray (N4) at 26.55 ft.

Siltstone, medium gray (N5).

Shale, medium dark gray (N4), hard.

Siltstone, medium gray (N5).

Shale, medium dark gray (N4), with interbedded siltstone seams, hard.

Siltstone, grayish brown (5YR 3/2).

Shale, medium dark gray (N4) grading to dark gray (39 ft), with interbedded siltstone seams, fractured.

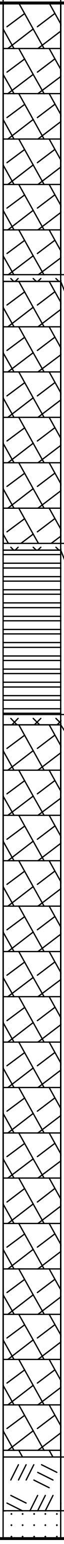
Siltstone, brownish gray (5YR 4/1).

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-65

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
45						Shale, medium dark gray (N4) to dark gray (44 ft), with interbedded siltstone seams, fractured. *(continued)*		
					46.9		702.0	
					47.0	Siltstone, medium light gray (N6).	701.9	
50						Shale, dark gray to medium dark gray (N4) (49.2 ft), with light gray (N7) laminations, fractured.		
					50.9		698.0	
					51.0	Siltstone, brownish gray (5YR 4/1).	697.9	
						Shale, medium dark gray (N4), laminated.		
					53.5		695.4	
					53.6	Siltstone, light gray (N7).	695.3	
55 60						Shale, medium dark gray (N4), laminated, fractured.		
					64.5		684.4	
65					65.3	Shale, dark yellowish orange (10YR 6/6), appears weathered.	683.6	

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Logo Fluor B&W

BORING NUMBER WD-SB-65

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					67.2	680 Sandstone. Sandstone, dark yellowish brown (10YR 4/2), hard, some iron oxide staining. *(continued)*	681.7	
					68.9	Shale, dark gray (N3).	680.0	
					69.4	Sandstone, medium gray (N5), hard.	679.5	
70					74.5	Shale, medium dark gray (N4), with interbedded siltstone seams, hard.	674.4	
75					74.6	Siltstone, brownish gray (5YR 4/1), 1.5 in. thick?	674.3	
					77.2	Shale, medium dark gray (N4), with interbedded siltstone seams.	671.7	
					77.3	Siltstone, dark yellowish brown (10YR 4/2).	671.6	
					79.0	Shale, medium dark gray (N4), with interbedded siltstone seams.	669.9	

Refusal at 8.0 feet.
Bottom of borehole at 79.0 feet.

Logo

Fluor B&W

BORING NUMBER WD-SB-66

PAGE 1 OF 1

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/28/12 **COMPLETED** 8/28/12
GROUND ELEVATION 675.18 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 90 deg F. Sunny.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0				▨	1.0	(CL-ML) Silty Sandy Clay, brownish yellow (10YR 6/8), dry, stiff, grades to weathered shale, laminated.	674.2	
				///	4.9	Cuyahoga Formation. Weathered Shale, mottled brownish yellow (10YR 6/8) with decomposed shale, strong brown (7.5YR 5/6), mottled with light gray (N7) silty clay, laminated.	670.3	
5					5.0	Sandstone, strong brown (7.5YR 5/6), decomposed.	670.2	
				///	10.0	Weathered Shale, pale yellow (2.5Y 7/3), laminated, dry, dark brown (10YR 3/3) siltstone in shoe at 9 ft.	665.2	
10								

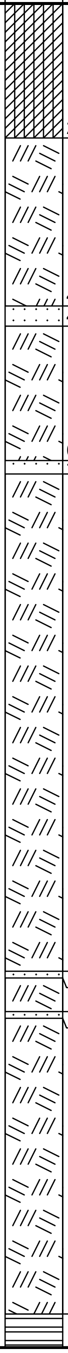
Refusal at 10.0 feet.
Bottom of borehole at 10.0 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-67

PAGE 1 OF 4

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/13/12 **COMPLETED** 8/14/12
GROUND ELEVATION 742.55 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 87 deg F. Partly sunny. 55% humidity. Wind SSW @2mph.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0					2.0	(CL-ML) Silty clay, reddish yellow (7.5YR 6/6), dry, medium dense to dense, fine sandstone bed at 10 in., grades to mottled light gray (10YR 7/2) at 18 in.	740.6	
					4.5	Cuyahoga Formation. Weathered Shale, light gray (N7), decomposed, laminated, residual soil, dry, dense, mottled with tans at depth.	738.1	
5					4.8	Weathered Sandstone, strong brown, 4 in. thick.	737.8	
					6.8	Weathered Shale, brownish yellow, laminated, to light gray (N7) with depth, dense, dry.	735.8	
					7.0	Weathered Sandstone, 2 in. thick.	735.6	
10					14.4	Weathered Shale, light gray (N7), siltstone seams, decomposed laminated layers. Shale grades to olive yellow with depth, then to pale, yellowish brown, dry, very dense.	728.2	
					14.5	Sandstone.	728.1	
15					15.0	Weathered Shale, pale yellowish brown (10YR 6/2).	727.6	
					15.1	Sandstone.	727.5	
					19.5	Weathered Shale, reddish brown, laminated, dry, dense. Shale grades to light gray (N7) and grayish orange pink (10YR 7/4), in 6 in. laminated bedding.	723.1	
20								

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Logo Fluor B&W

BORING NUMBER WD-SB-67

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CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
20				21.1	Cuyahoga Formation (Competent); 720 Sandstone. Shale, medium gray (N5), with numerous interbedded fine to very fine seams of siltstones throughout. *(continued)*	721.5	
				21.7	Sandstone, light gray (N7) and reddish brown with siltstone seam at 21.25 ft.	720.9	
				23.6	Shale, medium gray (N5), with siltstone seams.	719.0	
				23.8	Sandstone, 1.5 in. thick.	718.8	
				23.9	Shale, medium gray (N5), with siltstone seams.	718.7	
25				25.8	Sandstone, medium gray (N5) with dark gray bedding, fresh.	716.8	
				26.5	Shale, medium gray (N5), with interbedded fine siltstone seams.	716.1	
				26.7	Sandstone, 2 in. thick.	715.9	
				27.1	Shale, medium gray (N5), with interbedded fine siltstone seams.	715.5	
				27.5	Sandstone lenses, 4 in. thick and 1.5 in. thick.	715.1	
				28.9	Shale, medium gray (N5), with interbedded fine siltstone seams.	713.7	
				29.0	Sandstone, 1 in. thick.	713.6	
30				34.6	Shale, medium gray (N5), with interbedded fine siltstone seams.	708.0	
35				34.8	Siltstone, 1.5 in. thick.	707.8	
				37.2	Shale, medium gray (N5), with interbedded fine siltstone seams.	705.4	
				37.3	Siltstone, 0.5 in. thick.	705.3	
40				41.7	Shale, medium gray (N5), with interbedded fine siltstone seams.	700.9	
				41.8	Sandstone, 1.5 in. thick.	700.8	
				42.9	Shale, medium gray (N5), with interbedded fine siltstone seams.	699.7	

(Continued Next Page)

BORING NUMBER WD-SB-67

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NUMBER
PROJECT NAME OSDC Geotechnical Investigation
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					43.0	Sandstone, 1 in. thick.	699.6	
					44.1	Shale, medium gray (N5), with interbedded fine siltstone seams.	698.5	
					44.4	Sandstone, 1 in. thick.	698.2	
45					47.8	Shale, medium gray (N5), with interbedded fine siltstone seams.	694.8	
					47.9	Sandstone, 1 in. thick.	694.7	
50 55					59.1	Shale, medium dark gray (N4), with fine seams of siltstone and sandstone, more common with depth.	683.5	
					59.2	Sandstone, 1 in. thick.	683.4	
60					63.1	Shale, medium dark gray (N4), with fine seams of siltstone and sandstone.	679.5	
					63.2	Sandstone, 1.5 in. thick.	679.4	
65						Shale, medium dark gray (N4), with fine seams of siltstone and sandstone.		

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-67

PAGE 4 OF 4

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
					Shale, medium dark gray (N4), with fine seams of siltstone and sandstone. *(continued)* 66.8 — 675.8	
					680 Sandstone. Sandstone, light gray (N7), fractured. 68.8 — 673.8	
70					Shale, medium dark gray (N4), with fine seams of siltstone and sandstone. 71.6 — 671.0	
					Sandstone, 3 in. thick. 71.8 — 670.8	
					Shale, medium dark gray (N4), with fine seams of siltstone and sandstone. 72.8 — 669.8	
					Sandstone, 1 in. thick. 72.9 — 669.7	
					Shale, medium dark gray (N4), with fine seams of siltstone and sandstone. 74.2 — 668.4	

Refusal at 19.5 feet.
Bottom of borehole at 74.3 feet.

Logo Fluor B&W

BORING NUMBER WD-SB-68

PAGE 1 OF 1

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 8/8/12 **COMPLETED** 8/8/12
GROUND ELEVATION 679.93 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES Drizzle.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0				///⋜		Cuyahoga Formation. Weathered Shale, light gray (N7), laminated, dry, medium stiff. Grades to olive yellow at 1 ft, pale yellow at 2 ft. Mottled with light gray (N7) between 2 to 4 ft.		
					4.0		675.9	
5						Shelby Tube.		
					6.0		673.9	
				☰		Shale, pale yellow, slightly weathered, laminated, dry to moist, grading to light gray (N7) at 8 ft, very stiff, dry.		
10					10.0		669.9	

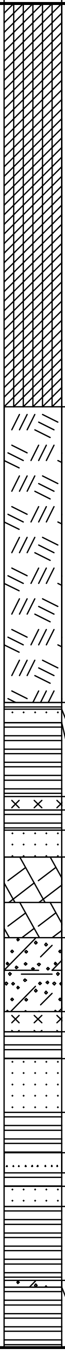
Bottom of borehole at 10.0 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-69

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 7/11/12 **COMPLETED** 7/11/12
GROUND ELEVATION 743.47 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 84 deg F. Partly cloudy. 68% humidity. Wind ENE @8mph.
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0						(CL-ML) Silty Clay, mottled reddish yellow (7.5YR 5/6), fine, dry, stiff. Grades to brownish yellow (10YR 6/6) at 2ft, mottled with reddish yellow clay. Grades to reddish yellow (7.5YR 6/6) at 6 ft, float of weathered shale encountered from 6 to 8 ft.		
5					6.0		737.5	
						Cuyahoga Formation. Weathered Shale, grayish orange (10YR 7/4) to dark yellowish orange (10YR 6/6) (10 ft), fine, crumbly, highly fractured.		
10					10.4		733.1	
					10.5	Cuyahoga Formation (Competent). Shale, moderate brown (5YR 4/4).	733.0	
					10.7		732.8	
						Sandstone, moderate brown (5YR 4/4).		
					11.8	Shale, moderate brown (5YR 4/4).	731.7	
					12.0		731.5	
					12.3	Siltstone, moderate brown (5YR 4/4), 2 in. thick.	731.2	
					12.7	Shale, moderate brown (5YR 4/4), vertical fracture.	730.8	
						Sandstone, pale brown (5YR 5/2), laminated.		
						Shale, pale brown (5YR 5/2), laminated, fractured.		
					13.9		729.6	
						Sandstone, moderate brown (5YR 4/4), fine to medium-grained, competent, not fractured.		
15					15.0		728.5	
					15.3	Siltstone.	728.2	
					15.7	Shale, pale brown (5YR 5/2), with interbedded siltstone seams.	727.8	
					16.5	720 Sandstone. Sandstone, moderate brown (5YR 4/4) to medium brown, medium dense to hard, fine to medium-grained.	727.0	
					17.1		726.4	
					17.4		726.1	
					17.6	Shale?	725.9	
					17.9	Sandstone, yellowish gray (5Y 8/1) with interbedded shale.	725.6	
						Shale?		
					19.0	Sandstone, medium brown.	724.5	
					19.1	Shale with interbedded sandstone seams?	724.4	
20					20.0	Sandstone, fractured.	723.5	

(Continued Next Page)

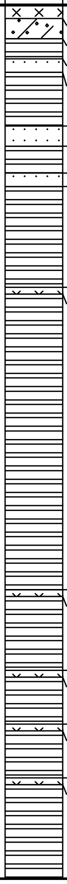
Logo Fluor B&W

BORING NUMBER WD-SB-69

PAGE 2 OF 2

CLIENT Fluor B&W Portsmouth **PROJECT NAME** OSDC Geotechnical Investigation

PROJECT NUMBER **PROJECT LOCATION** Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	Depth	MATERIAL DESCRIPTION	Elevation	WELL DIAGRAM
20					20.2	Shale.	723.3	
					20.5	Siltstone.	723.0	
					20.8		722.7	
					21.0	Sandstone, fractured.	722.5	
					21.8	Shale.	721.7	
					22.1	Sandstone.	721.4	
					22.5 22.7	Shale, medium gray (N5) to light brown (5YR 5/6), laminated.	721.0 720.8	
						Sandstone, light olive gray (5Y 6/1).		
					24.2	Shale, light brown (5YR 5/6) to light olive gray (5Y 6/1), mottled, laminated.	719.3	
					24.3	Sandstone.	719.2	
25						Shale, light brown (5YR 5/6) to light olive gray (5Y 6/1), mottled, laminated.		
						Siltstone, medium light gray (N6), 1 in. thick.		
						Shale, light brown (5YR 5/6) to light olive gray (5Y 6/1), mottled, laminated, grading to medium gray (N5) to medium dark gray (N4) at 26.2 ft, laminated.		
					28.7		714.8	
					28.8	Siltstone, medium light gray (N6), 1 in. thick.	714.7	
30					29.9	Shale, medium gray (N5) to medium dark gray (N4), laminated.	713.6	
					30.0	Siltstone, medium light gray (N6), 1 in. thick.	713.5	
					30.7 30.8	Shale, medium gray (N5) to medium dark gray (N4), laminated.	712.8 712.7	
					31.5 31.6	Siltstone, medium light gray (N6), 1 in. thick.	712.0 711.9	
						Shale, medium gray (N5) to medium dark gray (N4), laminated.		
						Siltstone, medium light gray (N6), 1 in. thick.		
					33.0	Shale, medium gray (N5) to medium dark gray (N4), laminated.	710.5	

Refusal at 10.5 feet.
Bottom of borehole at 33.0 feet.

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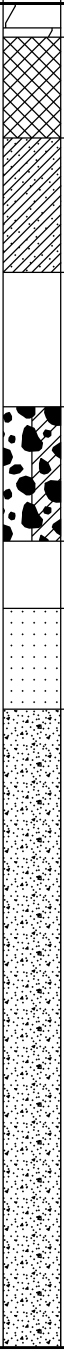
Logo Fluor B&W

BORING NUMBER WD-SB-70

PAGE 1 OF 2

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 7/31/12 **COMPLETED** 7/31/12
GROUND ELEVATION 642.05 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Jay Parker **CHECKED BY** William Reid
AT END OF DRILLING ---
NOTES 91 deg F. Chance of thunderstorms in PM. 86% humidity. Wind 0 mph
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0					0.5	Asphalt.	641.6	
					2.0	Gravel, road base.	640.1	
					4.0	Minford Silt. Sandy Clay with some silt and pebbles, yellowish brown (10YR 5/8). Trace red sandstone gravel. Moist, medium stiff, fine sands.	638.1	
5					6.0	No Recovery.	636.1	
					8.0	(GW-GC) Gallia Sand. Sandy, Gravelly Clay, mottled yellowish brown (10YR 5/8) to yellow (10YR 7/8). Iron staining on gravel? Fine sand, dry to moist, hard, trace of sandstone gravel.	634.1	
					9.0	No Recovery.	633.1	
10					10.5	Berea Sandstone. Weathered Sandstone, yellowish gray (5Y 8/1), highly weathered.	631.6	
15						Sandstone, medium light gray (N6), fine-grained, cross-bedded, dark manganese oxide staining throughout?		
20								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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Logo Fluor B&W

BORING NUMBER WD-SB-70

PAGE 2 OF 2

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					21.7	Sandstone, medium light gray (N6), fine-grained, cross-bedded, dark manganese oxide staining throughout? *(continued)*	620.4	
					22.0	Shale.	620.1	
					23.3	Sandstone, medium light gray (N6), fine-grained, cross-bedded.	618.8	
					23.5	Shale.	618.6	
					24.1	Sandstone, medium light gray (N6), fine-grained, cross-bedded.	618.0	
					24.3	Shale.	617.8	
					24.7	Sandstone, medium light gray (N6), fine-grained, cross-bedded.	617.4	
25					24.9	Shale.	617.2	
					27.0	Sandstone, medium light gray (N6), fine-grained, cross-bedded.	615.1	
					28.9	Shale, thinly laminated.	613.2	
30					30.0	Sandstone, medium light gray (N6), fine-grained, cross-bedded.	612.1	

Refusal at 10.7 feet.
Bottom of borehole at 30.3 feet.

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-SB-71

PAGE 1 OF 5

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DATE STARTED 8/16/12 **COMPLETED** 8/20/12

GROUND ELEVATION 771.45 ft MSL **HOLE SIZE** 4.25 in.

DRILLING CONTRACTOR M&W Drilling

GROUND WATER LEVELS:

DRILLING METHOD Split Spoon/Auger

AT TIME OF DRILLING ---

LOGGED BY Jay Parker **CHECKED BY** William Reid

AT END OF DRILLING ---

NOTES 85 deg F. Mostly sunny. 42% humidity. Wind SW @8mph.

AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0						(CL-ML) Silty Clay, brownish yellow (10YR 6/8), dry, laminated shale bedding, soft to medium, grades to strong brown (7.5YR 5/6) (2ft), dry to damp, with some sand and weathered sandstone, moderately dense.		
					4.0		767.5	
5						Shelby Tube.		
					6.0		765.5	
						Cuyahoga Formation. Weathered Shale, gray (10YR 6/1), dry hard, moderately to sparsely laminated, some interbedded sandstone seams with depth, grading to dark yellowish orange (10YR 6/6) to pale yellowish brown (10YR 6/2) at 10 ft.		
10								
15								
					16.0		755.5	
					16.2	Sandstone, 2 in. thick.	755.3	
						Weathered Shale, pale yellowish brown (10YR 6/2), few to no laminations, hard, dry.		
					17.9		753.6	
						Cuyahoga Formation (Competent). Weathered Shale, pale olive (10Y 6/2), alternating interbedded sandstones, fractured, with iron oxide staining from 18.6 to 19 ft.		
20								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:26 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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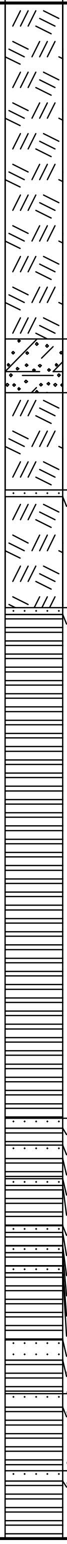
Logo Fluor B&W

BORING NUMBER WD-SB-71

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION			WELL DIAGRAM
20						Cuyahoga Formation (Competent). Weathered Shale, pale olive (10Y 6/2), alternating interbedded sandstones, fractured, with iron oxide staining from 18.6 to 19 ft. *(continued)*		
25					25.0		746.5	
						Sandstone, highly fractured, iron oxide staining.		
					25.8		745.7	
						Weathered Shale, pale olive (10Y 6/2).		
					27.3		744.2	
					27.4	Sandstone, 1 in. thick.	744.1	
						Weathered Shale, grayish olive green.		
					29.0		742.5	
					29.1	Sandstone, 1 in. thick.	742.4	
30						Shale, grayish olive green grading to medium dark gray (N4) at 32 ft, interbedded with siltstone and sandstone seams.		
35								
					36.6		734.9	
					36.8	Sandstone, 2 in. thick.	734.7	
					37.0	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	734.5	
					37.2		734.3	
					37.5		734.0	
					37.6	Sandstone, 2 in. thick.	733.9	
					38.2	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	733.3	
					38.3		733.2	
					38.5		733.0	
					38.6	Sandstone, 1 in. thick.	732.9	
					38.8	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	732.7	
40					38.9		732.6	
					39.9		731.6	
					40.2	Sandstone, 1 in. thick.	731.3	
					40.7	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	730.8	
					40.9		730.6	
					41.9	Sandstone, 1 in. thick.	729.6	
					42.0	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	729.5	

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-SB-71

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Sandstone, 1 in. thick.		
					43.6 43.7	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	727.9 727.8	
						Sandstone, 4 in. thick.		
45					44.9 45.0	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	726.6 726.5	
					45.4	Sandstone, 2 in. thick.	726.1	
					45.9	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	725.6	
						Sandstone, 2 in. thick.		
					47.0 47.4 47.7	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams. *(continued)*	724.5 724.1 723.8	
					47.8	Sandstone, 1 in. thick.	723.7	
					48.2	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	723.3	
					49.3	Sandstone, 1 in. thick.	722.2	
50					50.0	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	721.5	
					50.2	Sandstone, 6 in. thick.	721.3	
					50.4 50.5	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	721.1 721.0	
						Sandstone, 5 in. thick.		
					51.9 52.1	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	719.6 719.4	
					52.6 52.7	Sandstone, 0.5 in. thick.	718.9 718.8	
						Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.		
						Sandstone, 13 in. thick.		
					54.7	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	716.8	
55					54.8	Sandstone, 3 in. thick.	716.7	
					55.6 55.8	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	715.9 715.7	
					56.2	Sandstone, 1 in. thick.	715.3	
					56.6 56.9 57.0	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	714.9 714.6 714.5	
						Sandstone, 2 in. thick.		
					57.9 58.1	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	713.6 713.4	
					58.4 58.8	720 Sandstone. Sandstone, 1 in. thick.	713.1 712.7	
						Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.		
						Sandstone, 1 in. thick.		
60					60.2 60.4	Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	711.3 711.1	
						Sandstone, 2 in. thick.		
						Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.		
						Sandstone, 5 in. thick.		
						Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.		
						Sandstone, 1 in. thick.		
						Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.		
						Sandstone, 3 in. thick.		
65						Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.		

(Continued Next Page)

Logo Fluor B&W

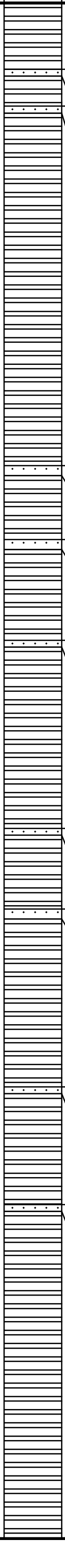
BORING NUMBER WD-SB-71

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
					Sandstone, 5 in. thick.	
					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	
					Sandstone, 2 in. thick.	
					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams. *(continued)*	
				66.7 66.8	Sandstone, 1 in. thick. 704.8 704.7	
					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	
				67.3 67.4	Sandstone, 1 in. thick. 704.2 704.1	
70					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	
				72.6 72.8	Sandstone, 2 in. thick. 698.9 698.7	
					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	
				73.7 73.9	Sandstone, 2 in. thick. 697.8 697.6	
75					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	
				75.2 75.3	Sandstone, 1 in. thick. 696.3 696.2	
					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	
				78.0 78.1	Sandstone, 1 in. thick. 693.5 693.4	
					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	
				79.2 79.4	Sandstone, 2 in. thick. 692.3 692.1	
80					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	
				81.9 82.0	Sandstone, 1 in. thick. 689.6 689.5	
					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	
				83.6 83.7	Sandstone, 1 in. thick. 687.9 687.8	
85					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.	

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Logo Fluor B&W

BORING NUMBER WD-SB-71

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
90					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams. *(continued)*		
				92.5		679.0	
				92.6	Sandstone, 1 in. thick.	678.9	
95					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.		
				97.1		674.4	
					680 Sandstone. Sandstone, light olive gray (5Y 6/1).		
				99.1		672.4	
100					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.		
				101.3		670.2	
				101.6	Sandstone, light olive gray (5Y 6/1), 4 in. thick.	669.9	
					Shale, medium dark gray (N4),with interbedded siltstone and sandstone seams.		
				104.6		666.9	

Refusal at 17.9 feet.
Bottom of borehole at 104.6 feet.

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-MW01B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-13-11**
Date Completed **6-15-11**
Drill Foreman **M&W Drilling**
Inspector **F. Morris / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Topsoil	0.2		1	SS		5		1.0				
MEDIUM STIFF, mottled orange and red, with minor iron staining, CLAY, trace roots, moist	2.5											
STIFF, pale yellow, SILT, dry			2	SS		14		4.3				
	6.0	5	3	SS		36						
SILTSTONE, pale yellow, HARD, friable, weathered, stained, dry, with interbedded SHALE			4	SS		58						
	10.0											
SHALE, pale yellow with manganese oxide staining, thinly bedded, fissile, grading to SILTSTONE, dry		10	5	SS		50/0.4'						
0.3' thick, SILTSTONE, yellow, weathered			6	SS		50/0.3'						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After ________ hours ________ ft.
▼ After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-MW01B**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-13-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-15-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**F. Morris / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.3' thick, SILTSTONE, pale yellow, weathered, thin bedded			7	SS			50/0.4'						
-SHALE becomes light brownish gray													
SHALE, dark yellowish orange, weathered	20.0	20	1	RC			59%						
SHALE, gray to dark yellowish orange, weathered	21.7		2	RC			74%						
0.4' thick, SANDSTONE, light brown													
0.9' thick, SANDSTONE, vertically fractured		25											
SHALE, gray	25.9												
0.1' thick, SANDSTONE, yellow orange, fractured			3	RC			92%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-MW01B**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-13-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-15-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**F. Morris / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			4	RC			92%						
0.3' thick, SILTSTONE, pale orange													
		35											
0.1' thick, SILTSTONE, pale orange													
			5	RC			99%						
		40											
			6	RC			99%						
0.1' thick, SILTSTONE, pale orange													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After ______ hours ______ ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-MW01B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-13-11**
Date Completed **6-15-11**
Drill Foreman **M&W Drilling**
Inspector **F. Morris / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick, SILTSTONE, pale orange												
0.1' thick, SILTSTONE, pale orange			7	RC		100%						
0.1' thick, SILTSTONE, pale orange												
		50										
0.1' thick, SILTSTONE, pale orange												
0.1' thick, SILTSTONE, pale orange												
			8	RC		100%						
0.1' thick, SILTSTONE, pale orange												
		55										
			9	RC								
0.1' thick, SILTSTONE, pale orange												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-MW01B**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-13-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-15-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**F. Morris / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.2' thick, SILTSTONE, pale orange													
			10	RC			100%						
0.3' thick, SILTSTONE, light gray													
0.2' thick, SILTSTONE, light gray		65											
			11	RC			98%						
		70											
0.2' thick, SILTSTONE, pale orange													
			12	RC			96%						
0.2' thick, SILTSTONE, grayish orange													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After ______ hours ______ ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-MW01B**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-13-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-15-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**F. Morris / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick, SILTSTONE, pale orange													
0.3' thick, SILTSTONE, grayish orange													
			13	RC			92%						
0.1' thick, SILTSTONE, light gray													
		80											
			14	RC			99%						
0.2' thick, SILTSTONE, pale orange													
		85											
0.2' thick, SHALE, pale orange			15	RC			97%						
0.1' thick, SILTSTONE, pale orange													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
BORING # **WD-MW01B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**6-13-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-15-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**F. Morris / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick, SILTSTONE, pale orange													
0.2' thick, SILTSTONE, pale orange			16	RC			100%						
0.1' thick, SILTSTONE, pale orange													
		95											
			17	RC			98%						
0.5' thick, SILTSTONE, light gray	99.7												
SHALE, greenish-gray		100											
	100.9												
SHALE, dark grayish black (Sunbury Formation)													
			18	RC			100%						

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-MW01B**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-13-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-15-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**F. Morris / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			19	RC			100%						
		110											
			20	RC									
		115											
			21	RC			96%						

Sample Type
- SS - Driven Split Spoon
- ST - Pressed Shelby Tube
- CA - Continuous Flight Auger
- RC - Rock Core
- CU - Cuttings
- CT - Continuous Tube
- SPT - Standard Penetration Test

Depth to Groundwater
- ● Noted on Drilling Tools _______ ft.
- At Completion (in augers) _______ ft.
- ▽ At Completion (open hole) _______ ft.
- After _______ hours _______ ft.
- ▼ After _______ hours _______ ft.
- Cave Depth _______ ft.

Boring Method
- HSA - Hollow Stem Augers
- CFA - Continuous Flight Augers
- DC - Driving Casing
- MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**

PROJECT NAME **PORTS OSDC**

PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-MW01B**

JOB # **072.41944.0001**

DRAWN BY **AMC**

APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**6-13-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-15-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**F. Morris / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics	Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
	120.5													
SANDSTONE, light gray, fine-grained (Berea Formation)														
			22	RC				99%						
		125												
			23	RC				93%						
0.4' thick, SHALE, light gray														
0.3' thick, SHALE, gray		130												
BORING TERMINATED at 131.7	131.7													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-MW02B**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-12-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-14-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION SURFACE ELEVATION 755.5	Stratum Depth	Depth Scale	Sample No.	Sample Type	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
MEDIUM STIFF, brown, SILT and CLAY, with trace sand, friable, moist	1.2		1	SS		7		3.5				
MEDIUM STIFF, reddish brown, CLAY, some silt, friable, moist	1.7											
VERY STIFF, brownish yellow, SILT and CLAY, little rock fragments, trace sand, moist	3.7		2	SS		17		3.25				
SOFT, pale brown, SHALE, weathered, friable	7.5	5	1	ST								
SOFT, gray, SHALE, weathered, with basal partings, dry			3	SS		50/0.4'		3.0				
-begin red oxidation mottling		10	4	SS		50/0.4'		4.25				
			5	SS		50/0.4'		3.5				

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-MW02B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-12-11**
Date Completed **6-14-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			6	SS			50/0.3'		3.0				
-becomes light brown	17.8		7	SS			50/0.3'						
Gray, SHALE													
0.2' thick, SANDSTONE, light brown			1	RC			54%						
		20											
0.3' thick, SILTSTONE, yellowish orange 0.3' thick, SILTSTONE, tan 0.1' thick, SILTSTONE 0.3' thick, SILTSTONE, brown			2	RC			56%						
0.7' thick, SILTSTONE, gray, cross-bedded													
0.2' thick, SILTSTONE													
		25											
0.3' thick, SILTSTONE, gray													
0.2' thick, SILTSTONE, gray	26.3												
Light brown, SILTSTONE			3	RC			95%						
Gray, SILTSTONE	27.3												
Gray, SHALE	28.5												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-MW02B**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-12-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-14-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick, SILTSTONE, pale orange													
			4	RC			96%						
0.2' thick, SILTSTONE/SHALE laminae, light gray		35											
			5	RC			97%						
0.3' thick, SILTSTONE, pale orange 0.2' thick, SILTSTONE/SHALE laminae, light gray 0.1' thick, SILTSTONE, light gray													
		40											
			6	RC			94%						
0.1' thick, SILTSTONE, pale orange													
	43.4												
Gray, SILTSTONE													
	44.7												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

ATC

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-MW02B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-12-11**
Date Completed **6-14-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
Gray, SHALE 0.2' thick, SILTSTONE													
			7	RC			99%						
0.2' thick, SILTSTONE, light gray													
		50											
0.1' thick, SILTSTONE, gray													
			8	RC			97%						
	52.3												
Yellow-brown, SANDSTONE, grading into gray, SILTSTONE	52.8												
Gray, SHALE													
0.2' thick, SILTSTONE, gray	53.9												
Light gray grading to pale orange, SILTSTONE	54.6												
Gray, SHALE		55											
0.2' thick, SILTSTONE, light gray													
0.4' thick, SILTSTONE, pale orange													
			9	RC			94%						
0.1' thick, SILTSTONE, tan to gray													
0.4' thick, SILTSTONE/SHALE laminae													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
▼ At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
▼ After _______ hours _______ ft.
▼ After _______ hours _______ ft.
▨ Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
BORING # **WD-MW02B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-12-11**
Date Completed **6-14-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**
Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.4' thick, SILTSTONE, pale orange	61.3												
Light and medium gray, interbedded, SILTSTONE/SHALE laminae			10	RC			100%						
0.1' thick, SILTSTONE/SHALE laminae, pale orange	65.2	65											
Gray, SHALE													
			11	RC			100%						
0.1' thick, SILTSTONE, pale orange													
0.1' thick, SILTSTONE, pale orange													
		70											
			12	RC			97%						
0.1' thick, SILTSTONE, pale orange													
0.1' thick, SILTSTONE, pale orange													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-MW02B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**6-12-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-14-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
0.1' thick, SILTSTONE, pale orange			13	RC			99%						
		80											
0.1' thick, SILTSTONE, pale orange			14	RC			100%						
0.1' thick, SILTSTONE, pale orange													
0.1' thick, SILTSTONE, pale orange		85											
			15	RC			97%						
Light and medium gray, SILTSTONE/SHALE, interbedded	87.4												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
▽ At Completion (open hole) ______ ft.
After ______ hours ______ ft.
▼ After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
BORING # **WD-MW02B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-12-11**
Date Completed **6-14-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
	91.3												
Gray, SHALE			16	RC			100%						
0.8' thick, SILTSTONE, pale orange, grading into SANDSTONE, light gray		95											
			17	RC			94%						
		100											
0.2' thick, SILTSTONE, pale orange													
			18	RC			94%						
0.1' thick, SILTSTONE, pale orange													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After ________ hours ________ ft.
▼ After ________ hours ________ ft.
Cave Depth ________ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-MW02B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-12-11**
Date Completed **6-14-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			19	RC			100%						
0.2' thick, SILTSTONE, light gray													
		110											
			20	RC			100%						
0.1' thick, SILTSTONE, light gray													
0.2' thick, SILTSTONE, pale orange													
		115											
			21	RC			96%						
0.2' thick, SILTSTONE, pale orange													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT	**Fluor B&W Portsmouth**	BORING #	**WD-MW02B**
PROJECT NAME	**PORTS OSDC**	JOB #	**072.41944.0001**
PROJECT LOCATION	**Piketon, Ohio**	DRAWN BY	**AMC**
	Piketon, Ohio	APPROVED BY	

DRILLING and SAMPLING INFORMATION

Date Started	**6-12-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-14-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			22	RC			100%						
0.2' thick, SILTSTONE, pale orange													
		125											
0.2' thick, SILTSTONE, pale orange													
			23	RC			90%						
		130											
Light olive green, SHALE	131.0												
			24	RC			94%						
0.8' thick, SILTSTONE, gray-green													
Grayish-black, SHALE (Sunbury Formation)	133.5												

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
▽ At Completion (open hole) _______ ft.
After _______ hours _______ ft.
▼ After _______ hours _______ ft.
Cave Depth _______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-MW02B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-12-11**
Date Completed **6-14-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**

Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			25	RC			100%						
		140											
			26	RC			90%						
		145											
			27	RC			92%						

<u>Sample Type</u>
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

<u>Depth to Groundwater</u>
● Noted on Drilling Tools _______ ft.
At Completion (in augers) _______ ft.
At Completion (open hole) _______ ft.
After _______ hours _______ ft.
After _______ hours _______ ft.
Cave Depth _______ ft.

<u>Boring Method</u>
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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ATC
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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio
BORING # **WD-MW02B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started **6-12-11**
Date Completed **6-14-11**
Drill Foreman **M&W Drilling**
Inspector **B. Reid / A. Lake**
Boring Method **HSA**
Hammer Wt. **140** lbs.
Hammer Drop **30** in.
Spoon Sampler OD **2** in.
Rock Core Dia. **3.8** in.
Shelby Tube OD **3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
			28	RC			100%						
Light gray to greenish-gray, SANDSTONE, fine-grained (Berea Formation)	153.0												
		155											
			29	RC									
		160											
0.3' thick, SHALE, medium gray													
			30	RC									
0.2' thick, SHALE, medium gray, with pyrite 0.3' thick, SILTSTONE, light gray 0.1' thick, SHALE lens													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ______ ft.
At Completion (in augers) ______ ft.
At Completion (open hole) ______ ft.
After ______ hours ______ ft.
After ______ hours ______ ft.
Cave Depth ______ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

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TEST BORING LOG

CLIENT **Fluor B&W Portsmouth**
PROJECT NAME **PORTS OSDC**
PROJECT LOCATION **Piketon, Ohio**
Piketon, Ohio

BORING # **WD-MW02B**
JOB # **072.41944.0001**
DRAWN BY **AMC**
APPROVED BY

DRILLING and SAMPLING INFORMATION

Date Started	**6-12-11**	Hammer Wt.	**140** lbs.
Date Completed	**6-14-11**	Hammer Drop	**30** in.
Drill Foreman	**M&W Drilling**	Spoon Sampler OD	**2** in.
Inspector	**B. Reid / A. Lake**	Rock Core Dia.	**3.8** in.
Boring Method	**HSA**	Shelby Tube OD	**3** in.

TEST DATA

SOIL CLASSIFICATION (continued)	Stratum Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Groundwater	Standard Penetration Test, bpf or Rock Quality Designation, %	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content %	Liquid Limit (LL)	Plasticity Index (PI)	Remarks
	166.3												
BORING TERMINATED at 166.3													

Sample Type
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube
SPT - Standard Penetration Test

Depth to Groundwater
● Noted on Drilling Tools ____ ft.
At Completion (in augers) ____ ft.
At Completion (open hole) ____ ft.
After ____ hours ____ ft.
After ____ hours ____ ft.
Cave Depth ____ ft.

Boring Method
HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

Logo Fluor B&W

BORING NUMBER WD-MW-03

CLIENT Fluor B&W Portsmouth	**PROJECT NAME** OSDC Geotechnical Investigation
PROJECT NUMBER	**PROJECT LOCATION** Remediation Area IV-B
DATE STARTED 8/31/11 **COMPLETED** 9/9/11	**GROUND ELEVATION** 748.74 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling	**GROUND WATER LEVELS:**
DRILLING METHOD Split Spoon/Auger	**AT TIME OF DRILLING** ---
LOGGED BY Collin Sukow **CHECKED BY** Jim Fleck	**AT END OF DRILLING** ---
NOTES 78 deg F. Partly cloudy.	**AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0				▨		(CL) Clay, pinkish white (2.5YR 8/2), lean, hard, with occasional sandstone fragments.		
5								
					7.5		741.2	
				///⚌		Cuyahoga Formation. Weathered Shale, very pale brown, very soft, residual laminations.		
10								
15								
20					20.0		728.7	

(Continued Next Page)

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

Logo Fluor B&W

BORING NUMBER WD-MW-03

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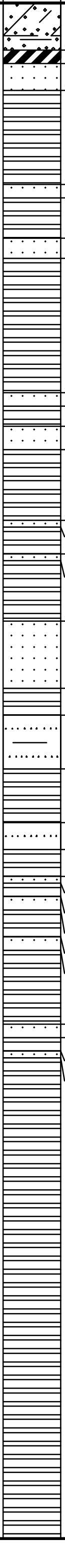
CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
20					20.7	Cuyahoga Formation (Competent). Sandstone, reddish brown, hard, highly fractured.	728.0	
					20.9	(CH) Clay, gray, soft, wet, highly plastic.	727.8	
					21.3	Sandstone, greenish gray (5GY 6/1), hard, thinly bedded, fine-grained, 5 in. thick.	727.4	
					22.7	Shale, medium light gray (N6), soft, laminated, with interbedded thing sandstone beds from 21.2 to 22.3 ft.	726.0	
					22.9	Sandstone, greenish gray (5GY 6/1), hard, thinly bedded, fine-grained, 2.5 in. thick.	725.8	
					23.5 23.8	Shale, medium light gray (N6).	725.2 724.9	
						Sandstone, greenish gray (5GY 6/1), hard, thinly bedded, fine-grained, 3.5 in. thick.		
25					25.8	Shale, medium gray (N5).	722.9	
					26.0	Sandstone, reddish brown, 2.5 in. thick.	722.7	
					26.3 26.7	Shale, medium gray (N5).	722.4 722.1	
						Sandstone, gray, 4 in. thick.		
					27.7	Shale, medium gray (N5).	721.0	
					27.8	Sandstone, gray, 1 in. thick.	720.9	
					28.2 28.3	Shale, medium gray (N5).	720.5 720.4	
						Sandstone, gray, 1 in. thick.		
					29.2	Shale, medium gray (N5).	719.5	
30					30.2	720 Sandstone. Sandstone, reddish brown, 12 in. thick.	718.5	
					30.6	Shale, medium gray (N5).	718.1	
					31.4	Multiple Sandstone lenses interbedded in Shale, typical thickness of sandstone layers is 1 in.	717.3	
					32.2	Shale, medium gray (N5).	716.5	
					32.6 33.0	Sandstone lenses, greenish gray (5GY 6/1), top 1 in. and bottom 2.5 in. thick, fractured, separated by Shale.	716.1 715.7	
					33.1 33.3	Shale, medium gray (N5).	715.6 715.4	
					33.5	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	715.2	
					33.9 34.1	Shale, medium gray (N5).	714.8 714.6	
						Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.		
35					35.2	Shale, medium gray (N5).	713.5	
					35.4 35.6	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	713.3 713.1	
					35.7	Shale, medium gray (N5).	713.0	
						Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.		
						Shale, medium gray (N5).		
						Sandstone, greenish gray (5GY 6/1), 1 in. thick.		
						Shale, medium gray (N5), with occasional interbedded thin sandstone seams.		
40								

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Fluor B&W

BORING NUMBER WD-MW-03

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					43.0 43.1	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	705.7 705.6	
						Shale, medium gray (N5).		
45					44.4 44.6	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	704.3 704.1	
						Shale, medium gray (N5).		
50					50.7 50.9	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	698.0 697.8	
					51.4	Shale, medium gray (N5).	697.3	
					51.5	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	697.2	
						Shale, medium gray (N5), with occasional interbedded thin sandstone seams.		
55					54.7 54.8	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	694.0 693.9	
						Shale, medium gray (N5), with occasional interbedded thin sandstone seams.		
					58.6 58.7	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	690.1 690.0	
60						Shale, medium gray (N5).		
					63.0 63.1	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	685.7 685.6	
					63.6	Shale, medium gray (N5).	685.1	
					63.7	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	685.0	
65						Shale, medium gray (N5).		

(Continued Next Page)

Logo Fluor B&W

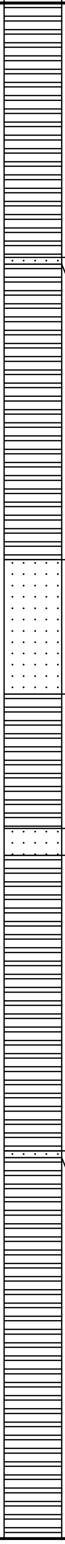
BORING NUMBER WD-MW-03

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, medium gray (N5). *(continued)*		
					69.5		679.2	
70					69.6	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	679.1	
						Shale, medium gray (N5).		
					74.0		674.7	
75						680 Sandstone. Sandstone, greenish gray (5GY 6/1).		
					76.0		672.7	
						Shale, medium gray (N5).		
					78.0		670.7	
					78.4	Sandstone, greenish gray (5GY 6/1), 5 in. thick.	670.3	
80						Shale, medium gray (N5).		
					82.8		665.9	
					82.9	Sandstone, greenish gray (5GY 6/1), thickness not identified.	665.8	
85						Shale, medium gray (N5), with occasional interbedded thin sandstone seams.		

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Logo Fluor B&W

BORING NUMBER WD-MW-03

CLIENT Fluor B&W Portsmouth **PROJECT NAME** OSDC Geotechnical Investigation

PROJECT NUMBER **PROJECT LOCATION** Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, medium gray (N5), with occasional interbedded thin sandstone seams. *(continued)*		
					89.0		659.7	
						Shale, medium gray (N5).		
					89.8		658.9	
90						Sandstone, greenish gray (5GY 6/1), 1 in. thick.		
					90.4		658.3	
					90.6	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	658.1	
					91.2	Shale, medium gray (N5).	657.5	
					91.4	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	657.3	
						Shale, medium gray (N5).		
					92.4		656.3	
					92.6	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	656.1	
					93.1	Shale, medium gray (N5).	655.6	
					93.3	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	655.4	
						Shale, medium gray (N5).		
95								
					98.2		650.5	
					98.3	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	650.4	
						Shale, medium gray (N5).		
100								
					100.2		648.5	
					100.4	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	648.3	
						Shale, medium gray (N5).		
					101.6		647.1	
					101.8	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	646.9	
						Shale, medium gray (N5).		
					102.9		645.8	
					103.1	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	645.6	
						Shale, medium gray (N5).		
105								
					105.4		643.3	
					105.6	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	643.1	
						Shale, medium gray (N5), with occasional interbedded thin sandstone seams.		
					108.8		639.9	
					108.9	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	639.8	
						Shale, medium gray (N5).		
					109.7		639.0	
110					109.8	Sandstone, greenish gray (5GY 6/1), 1 in. thick.	638.9	
						Shale, medium gray (N5).		

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Logo Fluor B&W

BORING NUMBER WD-MW-03

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
				112.3	Shale, medium gray (N5). *(continued)*	636.4	
				112.6	Sandstone, greenish gray (5GY 6/1), 3.5 in. thick.	636.1	
				113.0	Shale, medium gray (N5).	635.7	
				113.2	Sandstone, greenish gray (5GY 6/1), 2.5 in. thick.	635.5	
				113.5	Shale, medium gray (N5).	635.2	
				113.6	Sandstone, light gray (N7) to strong brown, fine to medium-grained, 1 in. thick.	635.1	
115 120 125 130				133.5	Sunbury Shale. Shale, grayish black (N2), soft, laminated, with sulfide inclusions scattered throughout.	615.2	
					Berea Sandstone. Sandstone, greenish gray (5GY 6/1), hard, fine-grained, thinly bedded, sharp contact.		

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Logo Fluor B&W

BORING NUMBER WD-MW-03

CLIENT Fluor B&W Portsmouth

PROJECT NAME OSDC Geotechnical Investigation

PROJECT NUMBER

PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
135 140					141.3	Berea Sandstone. Sandstone, greenish gray (5GY 6/1), hard, fine-grained, thinly bedded, sharp contact. *(continued)*	607.4	
					141.9	Silty? Shale, greenish gray (5GY 6/1), medium hard, thinly bedded.	606.8	
					142.8	Sandstone, greenish gray (5GY 6/1), hard, fine-grained, thinly bedded.	605.9	
					143.2	Silty? Shale, greenish gray (5GY 6/1), medium hard, thinly bedded, sulfide inclusion.	605.5	
					144.3	Sandstone, greenish gray (5GY 6/1), hard, fine-grained, thinly bedded.	604.4	

Refusal at 20.0 feet.
Bottom of borehole at 144.3 feet.

Logo Fluor B&W

BORING NUMBER WD-MW-04B

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/12/11 **COMPLETED** 9/13/11
GROUND ELEVATION 702.41 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Collin Sukow **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES 72 deg F. Clear, mild.
AFTER DRILLING ---

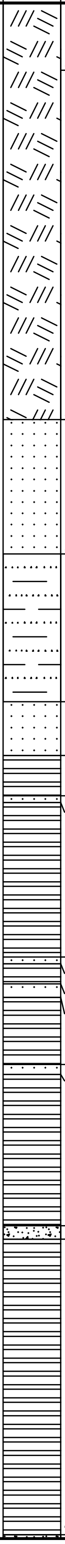
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0					(CL) Clay, reddish yellow (7.5YR 7/6), with some silt, stiff, cohesive, plastic, grading to very pale brown at 3 ft.		
5							
					7.5	694.9	
					Cuyahoga Formation. Weathered Shale, very pale brown, with interbedded fine reddish brown sandstone seams, very hard, residual laminations.		
10							
15							
					15.8	686.6	
					Sandstone, reddish brown, 1 in. thick.		
					15.9	686.5	
					Weathered Shale, very pale brown, grading to dark grayish brown (5YR 3/2) at 21 ft.		
20							

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-MW-04B

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
20							
21.0					Weathered Shale, very pale brown, grading to dark grayish brown (5YR 3/2) at 21 ft. *(continued)*	681.4	
25 / 26.2					Cuyahoga Formation (Competent). Weathered Shale, pale olive (10Y 6/2), very soft, laminated, some fractures and iron oxide staining.	676.2	
28.2					680 Sandstone. Sandstone, light brown (5YR 5/6), hard, fine-grained, thinly bedded.	674.2	
30 / 30.4					Shale, dark gray (N3), soft, with interbedded fine siltstone and sandstone seams, laminated.	672.0	
31.2					Sandstone, medium bluish gray (5B 5/1), hard, fine-grained, thinly bedded, 10 in. thick.	671.2	
31.8					Shale, dark gray (N3).	670.6	
31.9					Sandstone, 1 in. thick.	670.5	
34.2					Shale, dark gray (N3).	668.2	
34.3					Sandstone, 1 in. thick.	668.1	
34.6					Shale, dark gray (N3).	667.8	
34.8 / 35					Sandstone, 2.5 in. thick.	667.6	
35.8					Shale, dark gray (N3).	666.6	
36.0					Sandstone, 2 in. thick.	666.5	
38.2					Shale, dark gray (N3).	664.2	
38.4					Sandstone, cross-bedded, 2.5 in. thick.	664.0	
40 / 42.8					Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	659.6	

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BORING NUMBER WD-MW-04B

PAGE 3 OF 5

Logo Fluor B&W

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					43.0 43.4	Sandstone, cross-bedded, 2.5 in. thick. *(continued)*	659.4 659.0	
					44.0	Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	658.4	
					44.5	Multiple Siltstone layers.	657.9	
45					44.6 45.0 45.1	Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	657.8 657.4 657.3	
					45.4	Sandstone, cross-bedded, 1 in. thick.	657.0	
					45.6 46.1 46.2	Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	656.9 656.3 656.2	
						Sandstone, 1 in. thick.		
						Shale, dark gray (N3), with interbedded siltstone and sandstone seams.		
						Sandstone. 2 in. thick.		
					48.9	Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	653.5	
					49.0	Sandstone, 1 in. thick.	653.4	
50						Shale, dark gray (N3), with interbedded siltstone and sandstone seams.		
						Sandstone, 1 in. thick.		
					51.0 51.1	Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	651.4 651.3	
					51.7	Sandstone, 1 in. thick.	650.7	
					51.8	Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	650.6	
						Sandstone, cross-bedded, 1 in. thick.		
					53.8	Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	648.6	
					54.0	Sandstone. 2.5 in. thick.	648.4	
55					55.1	Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	647.3	
					55.3	Sandstone. 2 in. thick.	647.2	
					56.4	Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	646.0	
					56.6	Sandstone. 2.5 in. thick.	645.8	
					57.4 57.5	Shale, dark gray (N3), with interbedded siltstone and sandstone seams.	645.0 644.9	
						Siltstone, 1 in. thick.		
60					60.2	Shale, dark gray (N3).	642.2	
					60.4	Sandstone. 2.5 in. thick.	642.0	
					62.1	Shale, dark gray (N3).	640.3	
					62.3	Sandstone. 2.5 in. thick.	640.1	
					62.8 62.9	Shale, dark gray (N3).	639.6 639.5	
						Sandstone, 1 in. thick.		
					64.3	Shale, dark gray (N3).	638.1	
					64.4	Sandstone, 1 in. thick.	638.0	
65						Shale, dark gray (N3).		

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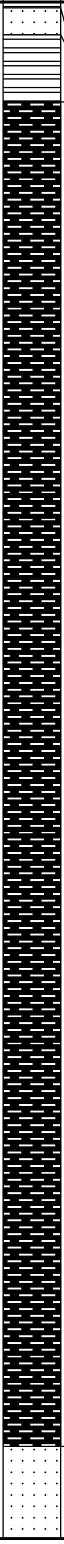
Logo Fluor B&W

BORING NUMBER WD-MW-04B

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
65.8					Sandstone, 5 in. thick. (636.6)	
66.2					Shale, dark gray (N3). (636.2)	
67.2					Sunbury Shale. Shale, grayish black (N2), soft, laminated, gradual contact, with sulfide inclusions. (635.2)	
70						
75						
80						
85						
87.2					Berea Sandstone. Sandstone, medium bluish gray (5B 5/1), hard, fine-grained, medium to thinly bedded. (615.2)	

(Continued Next Page)

Logo Fluor B&W

BORING NUMBER WD-MW-04B

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
90						Berea Sandstone. Sandstone, medium bluish gray (5B 5/1), hard, fine-grained, medium to thinly bedded. *(continued)*		
					91.6		610.8	
					91.7	Shale, dark greenish gray (5GY 4/1).	610.7	
						Sandstone, medium bluish gray (5B 5/1), hard, fine-grained.		
95					94.8		607.6	
					95.1	Shale.	607.3	
						Sandstone, medium bluish gray (5B 5/1), hard, fine-grained.		
					96.9		605.5	
					97.2	Siltstone, dark greenish gray (5GY 4/1), with sulfide inclusions.	605.2	
					98.2	Sandstone, medium bluish gray (5B 5/1), hard, fine-grained.	604.2	

Refusal at 21.0 feet.
Bottom of borehole at 98.2 feet.

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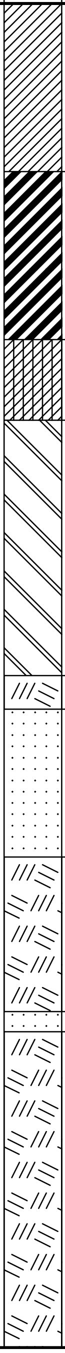
Logo Fluor B&W

BORING NUMBER WD-MW-05

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B
DATE STARTED 9/7/11 **COMPLETED** 9/9/11
GROUND ELEVATION 695.69 ft MSL **HOLE SIZE** 4.25 in.
DRILLING CONTRACTOR M&W Drilling
GROUND WATER LEVELS:
DRILLING METHOD Split Spoon/Auger
AT TIME OF DRILLING ---
LOGGED BY Pete Sudkamp **CHECKED BY** Jim Fleck
AT END OF DRILLING ---
NOTES None.
AFTER DRILLING ---



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
0					2.5	(CL) Clay, brown with gray mottling, lean, moist becoming dry after 6 in., soft becoming medium stiff after 6 in., trace silt.	693.2	
					5.0	(CH) Clay, light brown, FAT, dry, very stiff, trace to little silt, slight to medium plastic, laminated, silt decreasing with depth.	690.7	
5					6.2	(CL-ML) Silty Clay, light brown, dry, laminated.	689.5	
					10.0	Clay, light brown, lean to FAT, dry, hard, trace to little silt, a few fine sand lenses.	685.7	
10					10.5	Cuyahoga Formation (Competent). Weathered Shale, gray.	685.2	
					12.7	680 Sandstone. Sandstone, brown, sound, very fine-grained, iron oxide staining.	683.0	
					15.0	Weathered Shale, gray and brown, sound, very soft to soft, thinly bedded.	680.7	
15					15.3	Sandstone, 3.5 in. thick.	680.4	
						Weathered Shale, gray, moderately fractured.		
20								

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Logo Fluor B&W

BORING NUMBER WD-MW-05

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
20					Weathered Shale, gray, moderately fractured. *(continued)*		
29.2 29.4					Sandstone, light gray (N7), very fine-grained, 2.5 in. thick.	666.5 666.3	
					Shale, gray, infrequent fractures.		
35.2 35.4					Sandstone, 2.5 in. thick.	660.5 660.3	
					Shale, gray, infrequent fractures.		
38.4 38.6					Sandstone, very fine-grained with calcite mineralized fracture.	657.3 657.1	
					Shale, gray, infrequent fractures.		
40.5 40.8					Sandstone, 3.5 in. thick.	655.2 654.9	
					Shale, gray, infrequent fractures.		
42.3 42.5					Sandstone, 2.5 in. thick.	653.4 653.2	

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Logo Fluor B&W

BORING NUMBER WD-MW-05

CLIENT Fluor B&W Portsmouth
PROJECT NAME OSDC Geotechnical Investigation
PROJECT NUMBER
PROJECT LOCATION Remediation Area IV-B

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
						Shale, gray, infrequent fractures. *(continued)*		
45					45.0	Sandstone, 1 in. thick.	650.7	
					45.1	Shale, gray, infrequent fractures.	650.6	
					49.0	Sunbury Shale. Shale, black (N1), sound, thickly bedded, scattered pyrite inclusions throughout.	646.7	
50								
55								
60								
65								

ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

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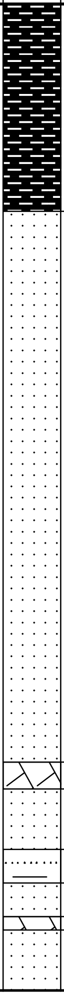
Logo Fluor B&W

BORING NUMBER WD-MW-05

CLIENT Fluor B&W Portsmouth **PROJECT NAME** OSDC Geotechnical Investigation

PROJECT NUMBER **PROJECT LOCATION** Remediation Area IV-B



DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG		MATERIAL DESCRIPTION		WELL DIAGRAM
					68.8	Sunbury Shale. Shale, black (N1), sound, thickly bedded, scattered pyrite inclusions throughout. *(continued)*	626.9	
70 75					77.0	Berea Sandstone. Sandstone, light gray (N7) to gray, hard, very fine-grained.	618.7	
					77.4	Shale, gray, silty, fractured.	618.3	
					78.3	Sandstone, gray, medium hard, very fine-grained.	617.4	
					78.8	Shale and Sandstone Interbeds, fractured.	616.9	
					79.3	Sandstone, gray, medium hard, very fine-grained.	616.4	
					79.5	Shale, fractured, crumbly.	616.2	
80					80.4	Sandstone, gray, medium hard, very fine-grained.	615.3	

Refusal at 10.5 feet.
Bottom of borehole at 80.4 feet.

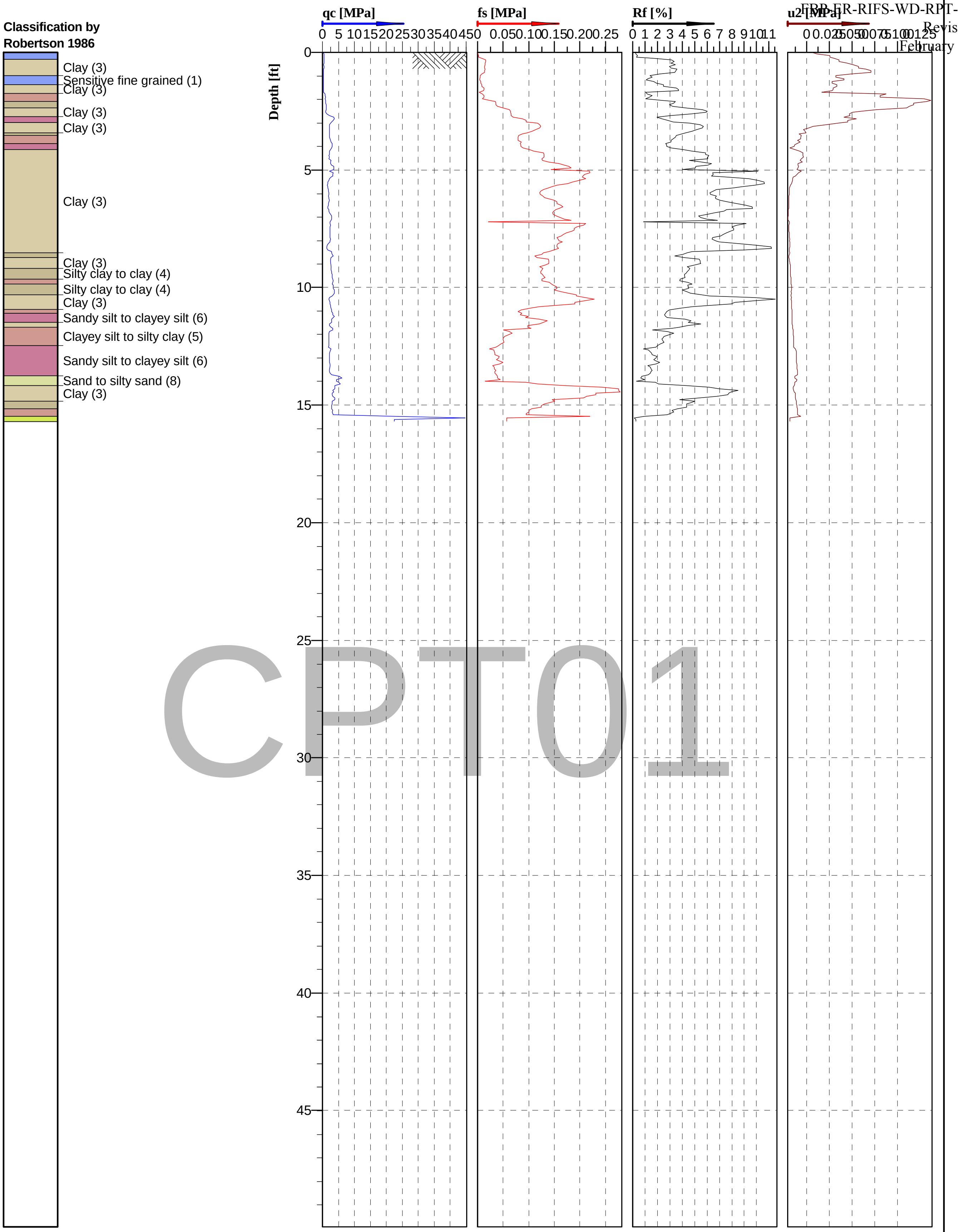
ENVIRONMENTAL BH - GINT STD US.GDT - 3/20/13 14:25 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\GINT_OSDC.GPJ

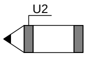
Table B.3. Cone Penetration Test Locations

Location	State Plane Easting	State Plane Northing	Ground Surface (ft AMSL)	Depth (ft below ground surface)	OSDC Study Area
WD-CPT-01	1828613	366543	678.05	15.7	A
WD-CPT-02	1828628	365384	679.48	20.5	A
WD-CPT-03	1828831	367424	676.43	39	A
WD-CPT-04	1828848	365872	681.17	31.9	A
WD-CPT-05	1829449	368121	731.42	14.4	A/C
WD-CPT-06A	1829404	367199	716.89	8	A/C
WD-CPT-07	1829400	366901	704.15	7.3	A/C
WD-CPT-08	1829401	366643	722.38	6.8	A/C
WD-CPT-09	1829447	365892	745.88	6.8	A/C
WD-CPT-10	1829566	368486	715.98	9.7	C
WD-CPT-11	1830177	367886	715.17	10.7	C
WD-CPT-12	1829760	366905	735.78	8.9	C
WD-CPT-13	1829721	366307	728.48	4.5	C
WD-CPT-14	1830106	378247	728.64	8.1	D
WD-CPT-15	1831342	378822	737.55	3	D
WD-CPT-16	1832264	378548	723.10	9.1	D
WD-CPT-17	1831984	378171	754.72	7.9	D
WD-CPT-18	1831046	377591	719.43	10.8	D
WD-CPT-19	1830819	376797	757.98	10.4	D
WD-CPT-20	1831056	376113	727.40	3.9	D
WD-CPT-21	1832342	376893	780.48	9.3	D

Notes:
State Plane coordinates are NAD 1983 State Plane Ohio South FIPS 3402 (ft).

AMSL = above mean sea level
FIPS = Federal Information Processing Standards
NAD = North American Datum
OSDC = on-site disposal cell





Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT01
Project ID:	Client: M&W Drilling	Date: 10/26/2011	Scale: 1 : 70
Project: DS19997		Page: 1/1	Fig:
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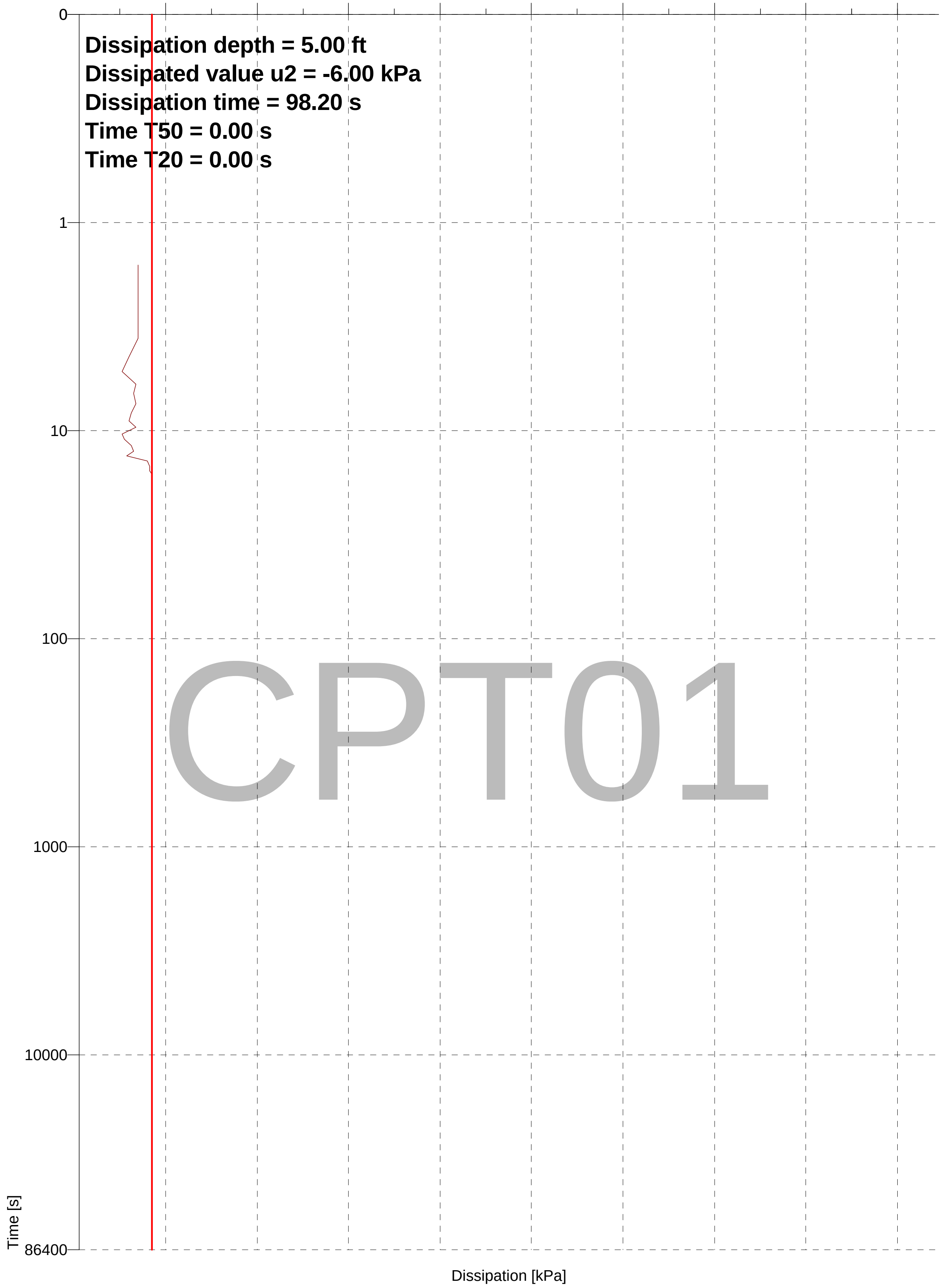

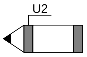

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT01
Project ID:	Client: M&W Drilling	Date: 10/26/2011	Scale: 1 : 70
Project: DS19997		Page: 1/1	Fig:
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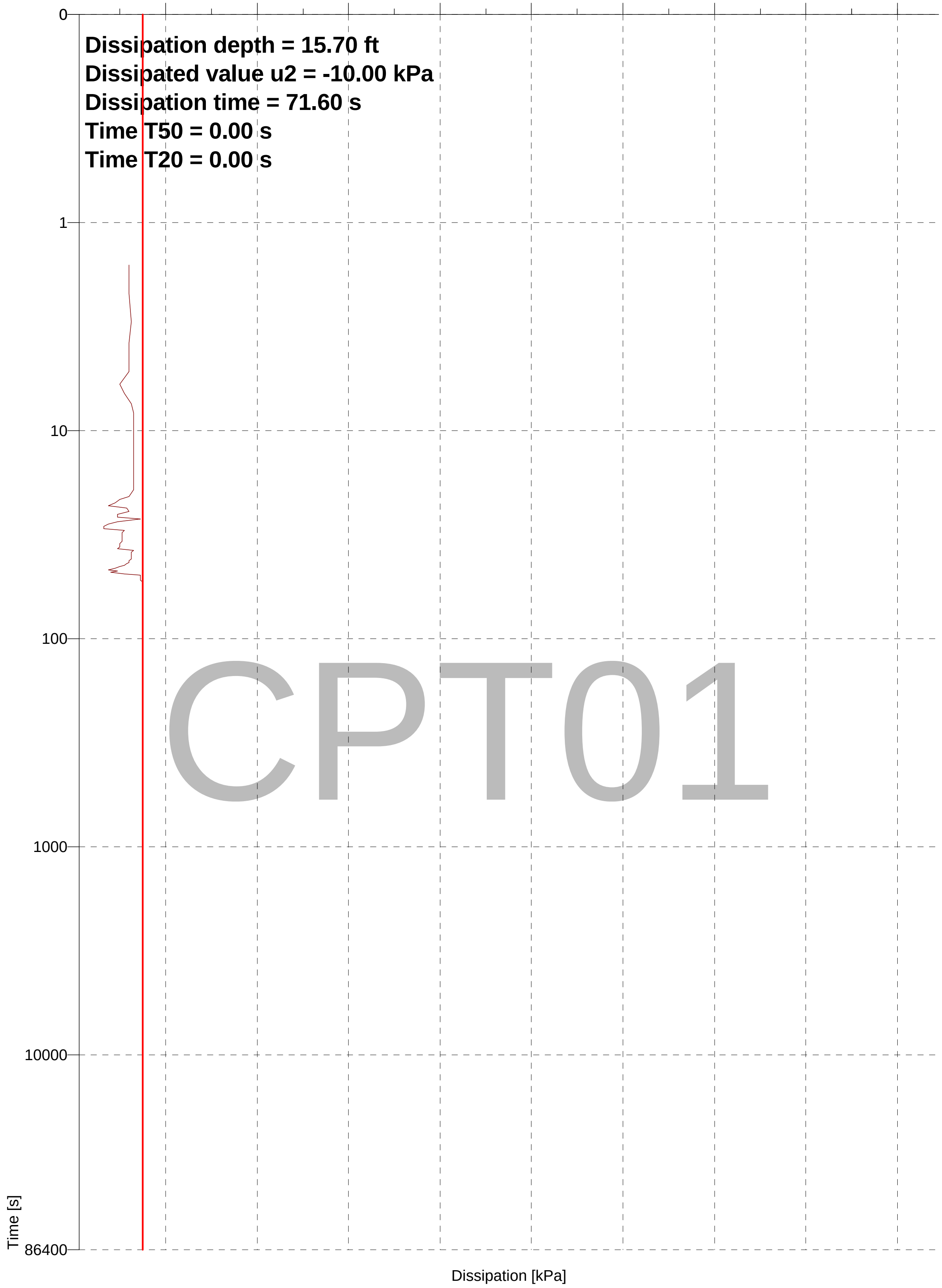

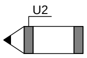

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT01
Project ID:	Client: M&W Drilling	Date: 10/26/2011	Scale: 1 : 70
Project: DS19997		Page: 1/1	Fig:
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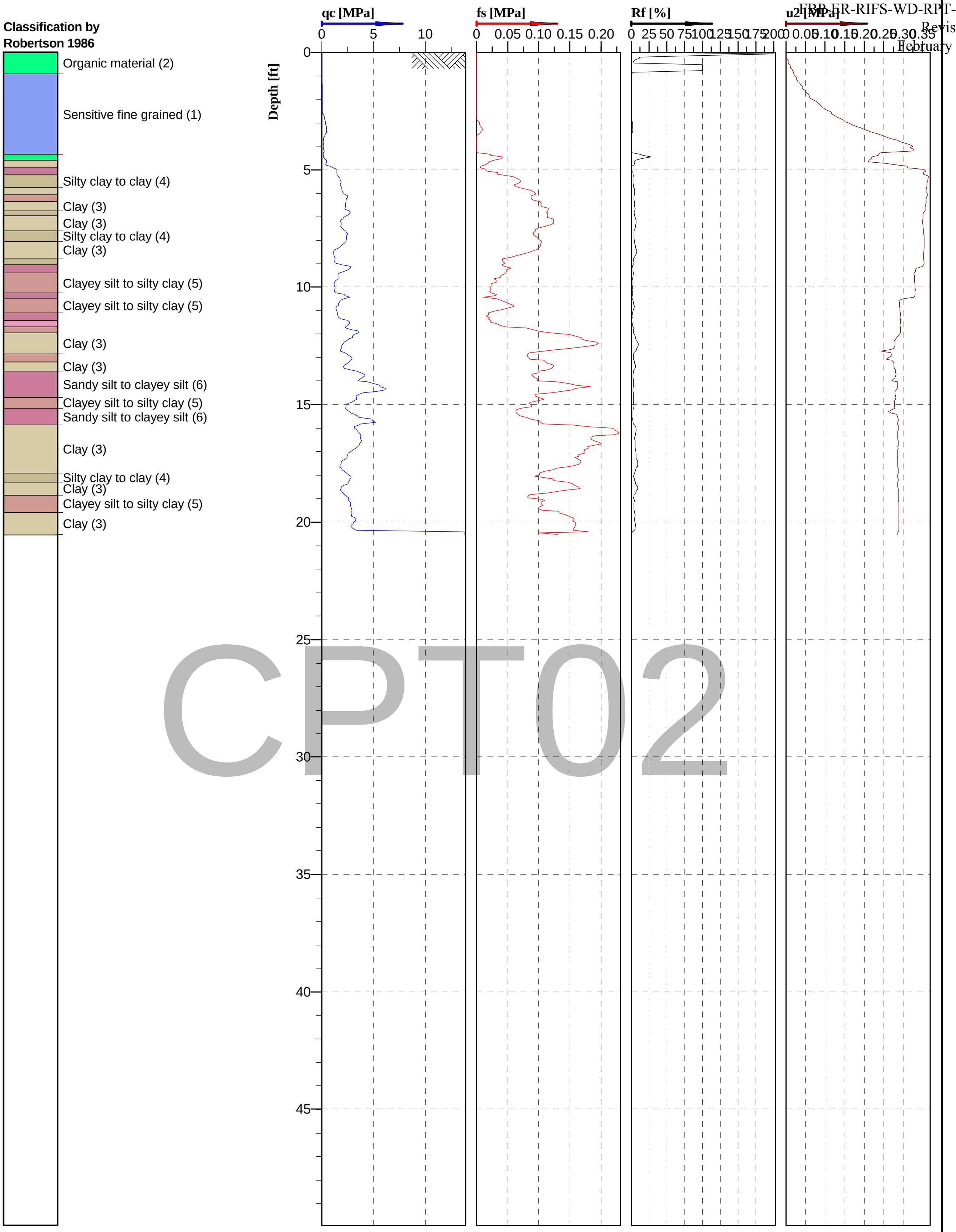

U2

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT02
Project ID:	Client: M&W Drilling	Date: 10/26/2011	Scale: 1 : 70
Project: DS19997		Page: 1/1	Fig:
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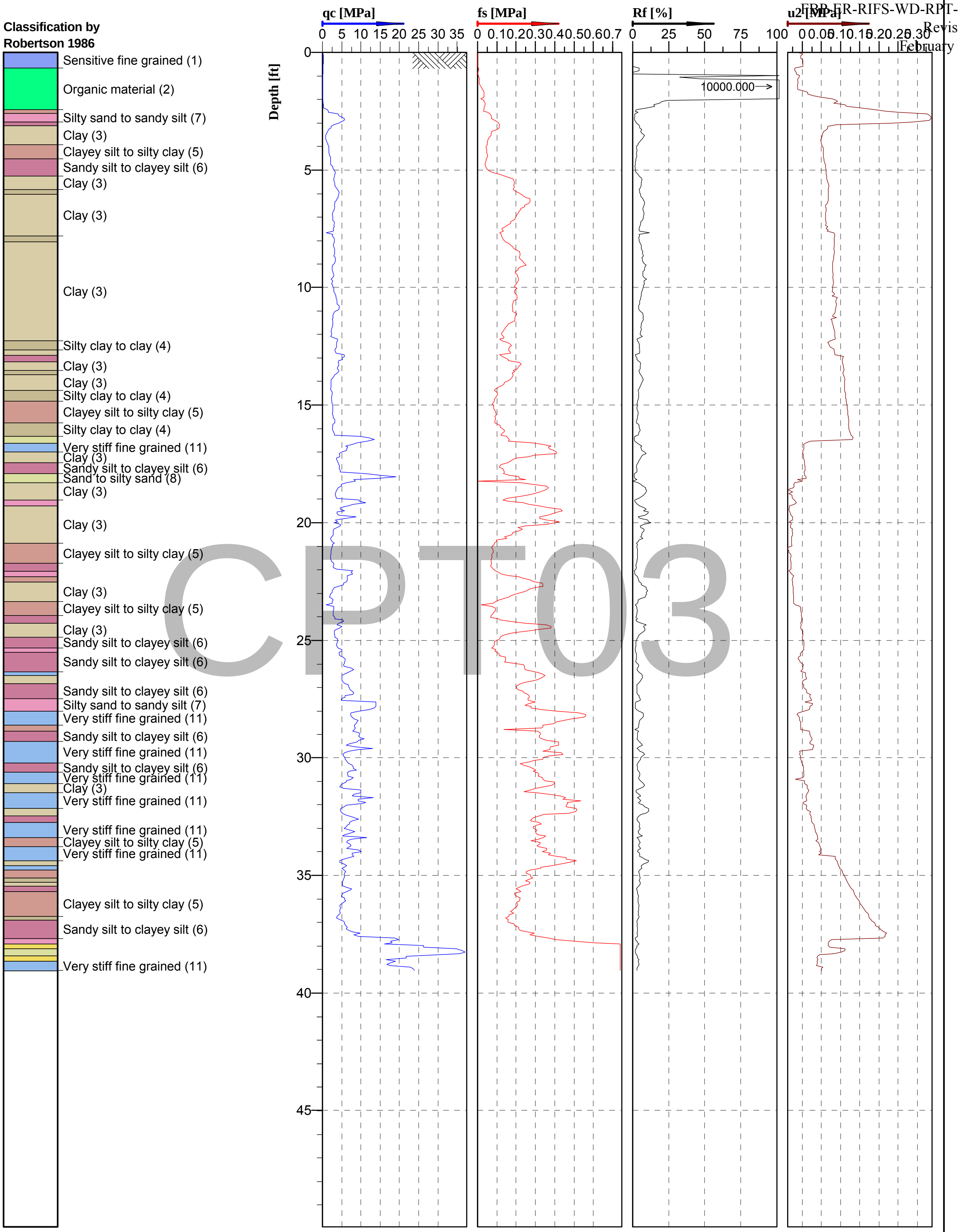
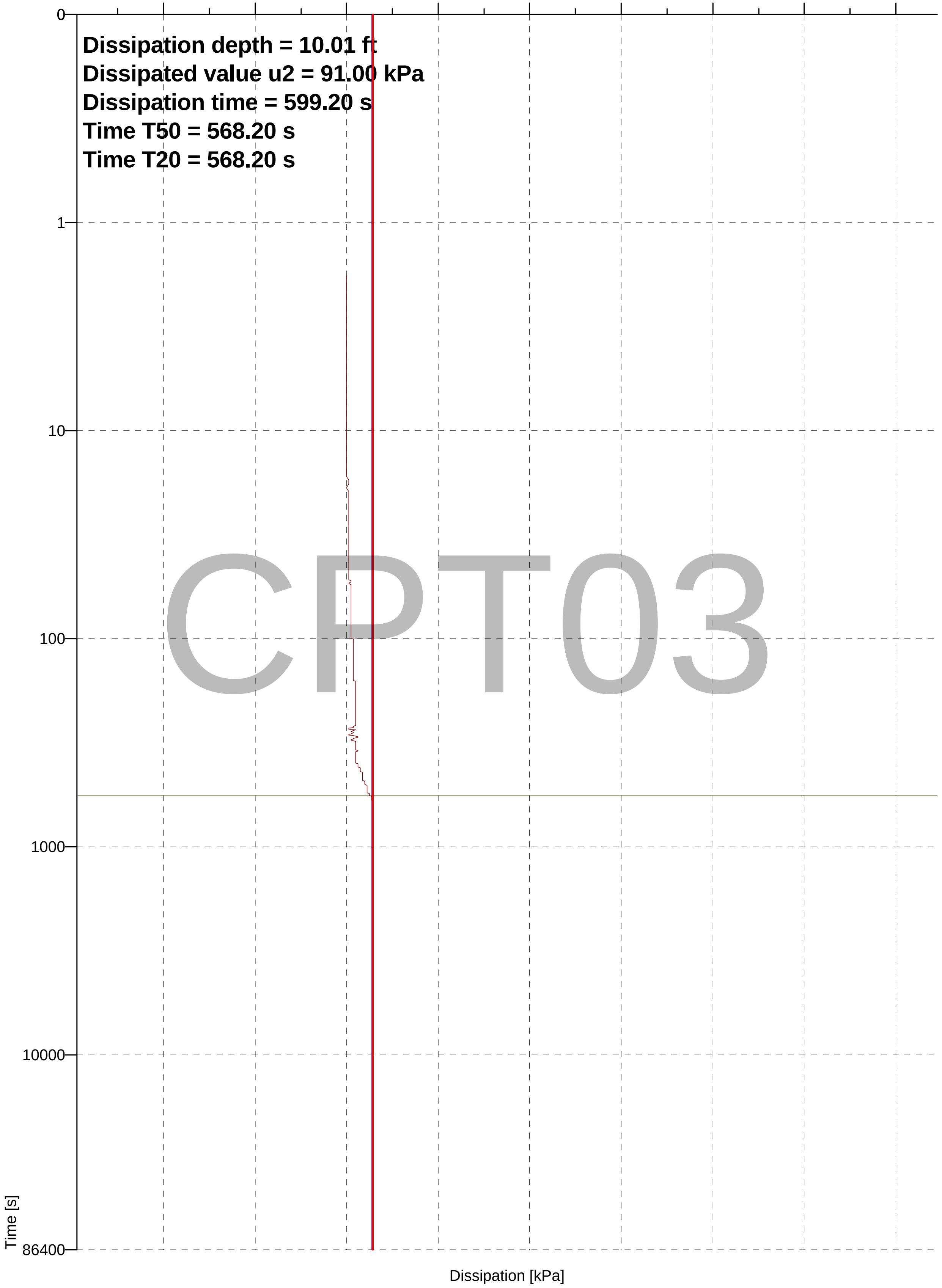


Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT03
Project ID:	Client: M&W Drilling	Date: 10/26/2011	Scale: 1 : 70
Project: DS19997		Page: 1/1	Fig:
		File: cpt03.cpd	

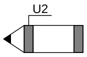
U2

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150



Dissipation depth = 10.01 ft
Dissipated value u2 = 91.00 kPa
Dissipation time = 599.20 s
Time T50 = 568.20 s
Time T20 = 568.20 s

ZEBRA



Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT03
Project ID:	Client: M&W Drilling	Date: 10/26/2011	Scale: 1 : 70
Project: DS19997		Page: 1/1	Fig:
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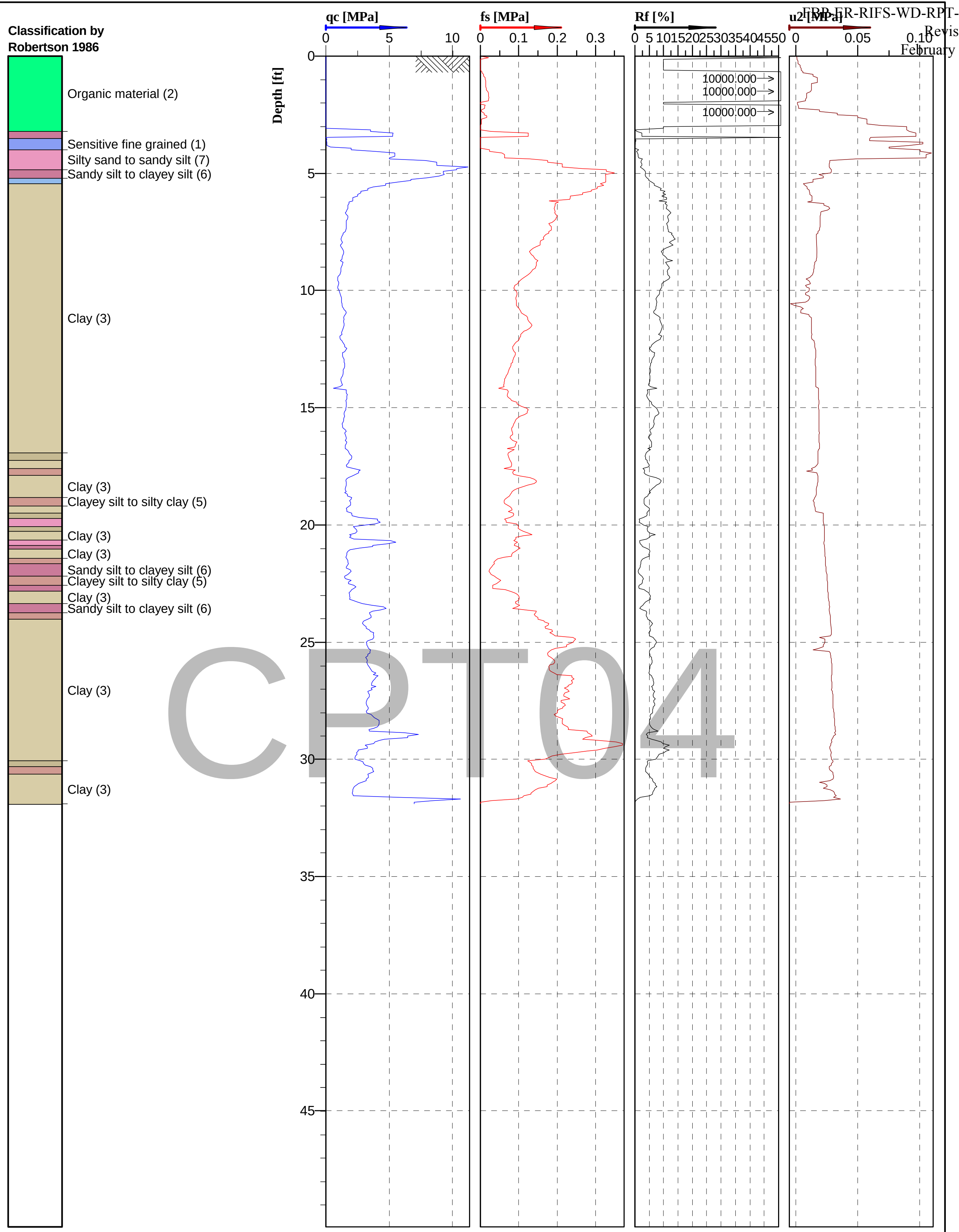
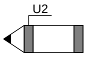
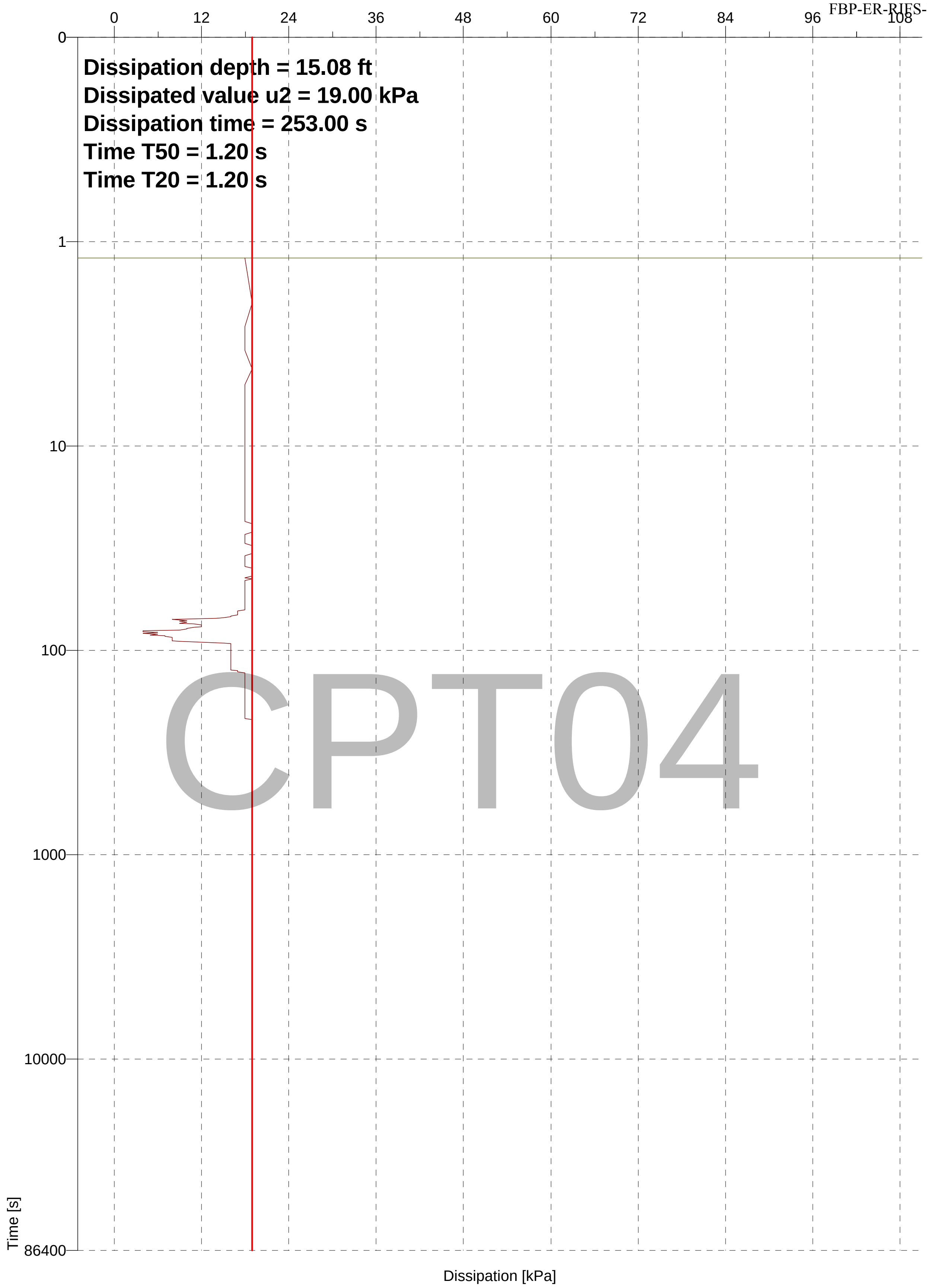


ZEBRA



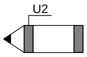
Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT04
Project ID:	Client: M&W Drilling	Date: 10/26/2011	Scale: 1 : 70
Project: DS19997		Page: 1/1	Fig:
		File: cpt04.cpd	



Dissipation depth = 15.08 ft
Dissipated value u2 = 19.00 kPa
Dissipation time = 253.00 s
Time T50 = 1.20 s
Time T20 = 1.20 s

ZEBRA



Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT04
Project ID:	Client: M&W Drilling	Date: 10/26/2011	Scale: 1 : 70
Project: DS19997		Page: 1/1	Fig:
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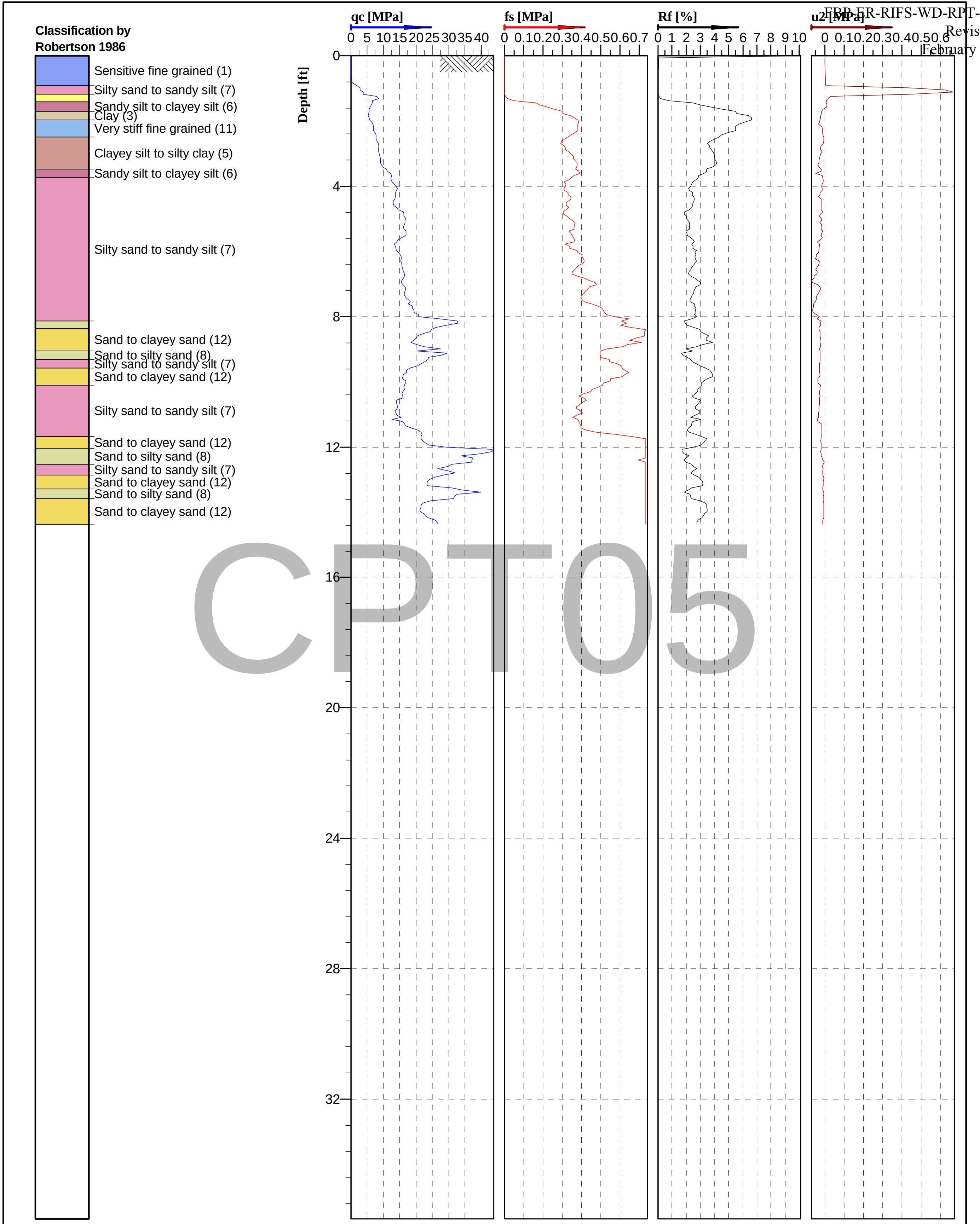

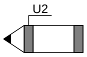

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT05
Project ID:	Client: M&W Drilling	Date: 10/28/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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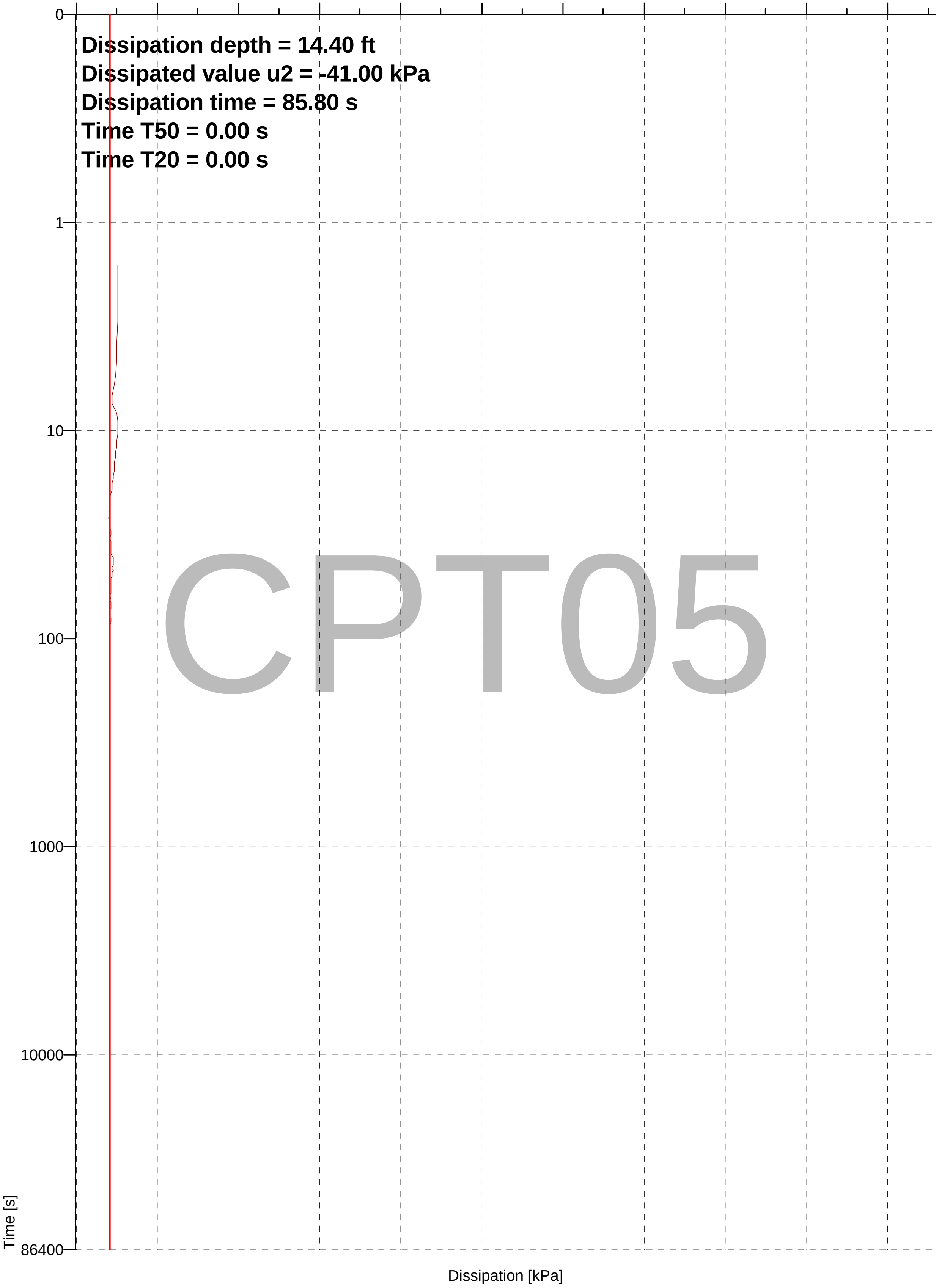

Dissipation depth = 14.40 ft
Dissipated value u2 = -41.00 kPa
Dissipation time = 85.80 s
Time T50 = 0.00 s
Time T20 = 0.00 s

ZEBRA

U2

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT05
Project ID:	Client: M&W Drilling	Date: 10/28/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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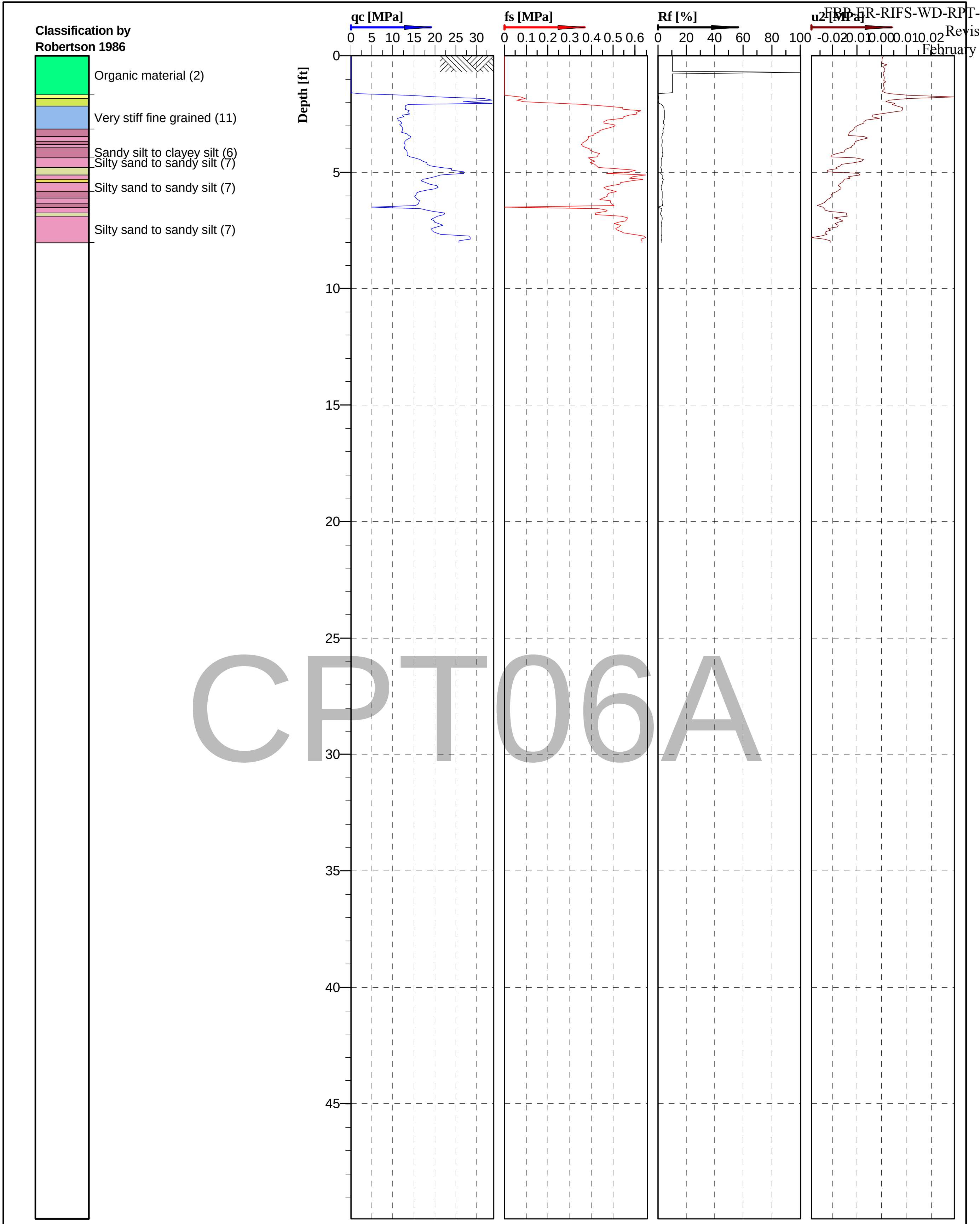

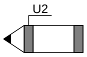

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT06A
Project ID:	Client: M&W Drilling	Date: 10/27/2011	Scale: 1 : 70
Project: DS1997		Page: 1/1	Fig:
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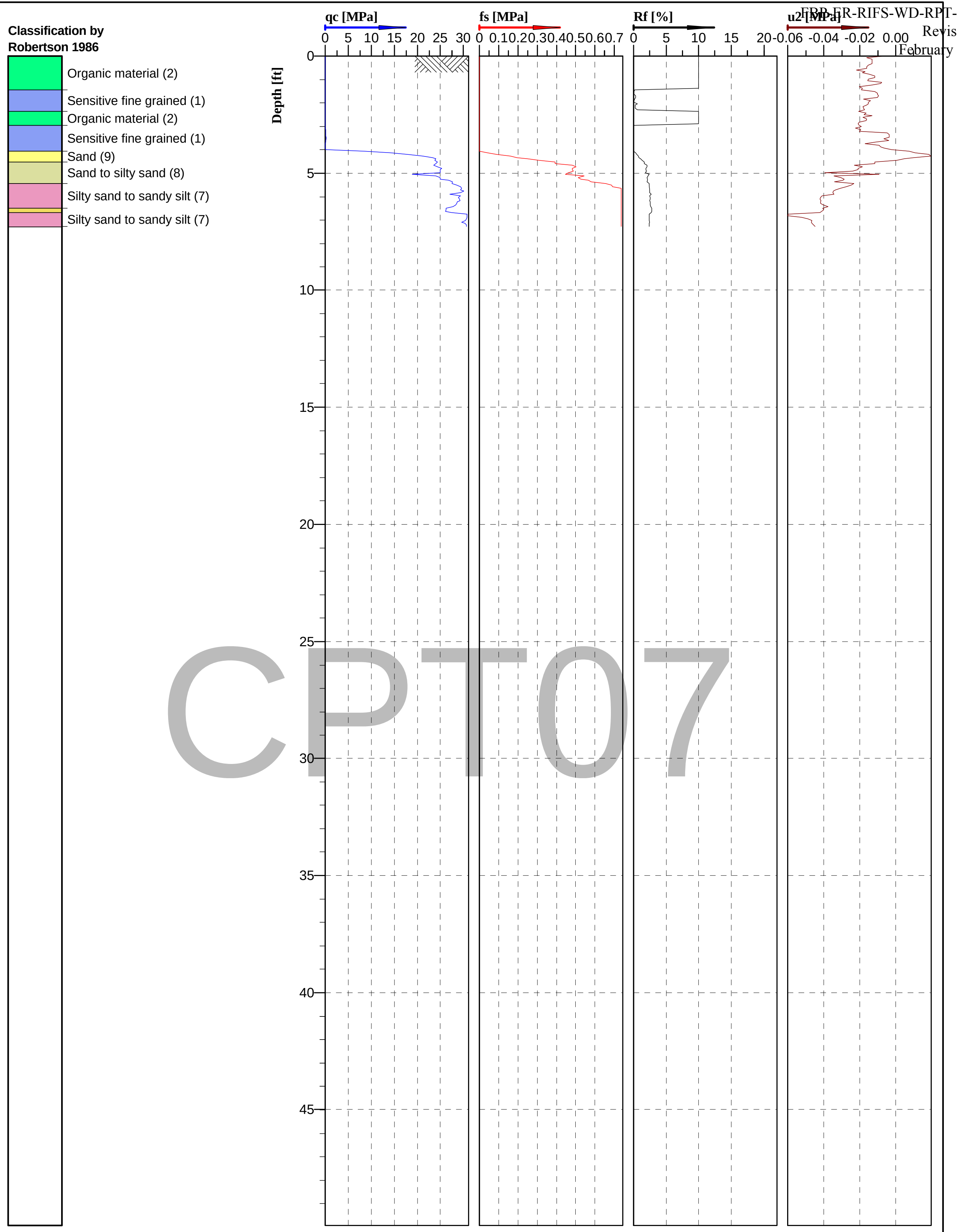

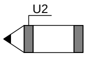

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, OH	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT07
Project ID:	Client: M&W Drilling	Date: 10/27/2011	Scale: 1 : 70
Project: DS1997		Page: 1/1	Fig:
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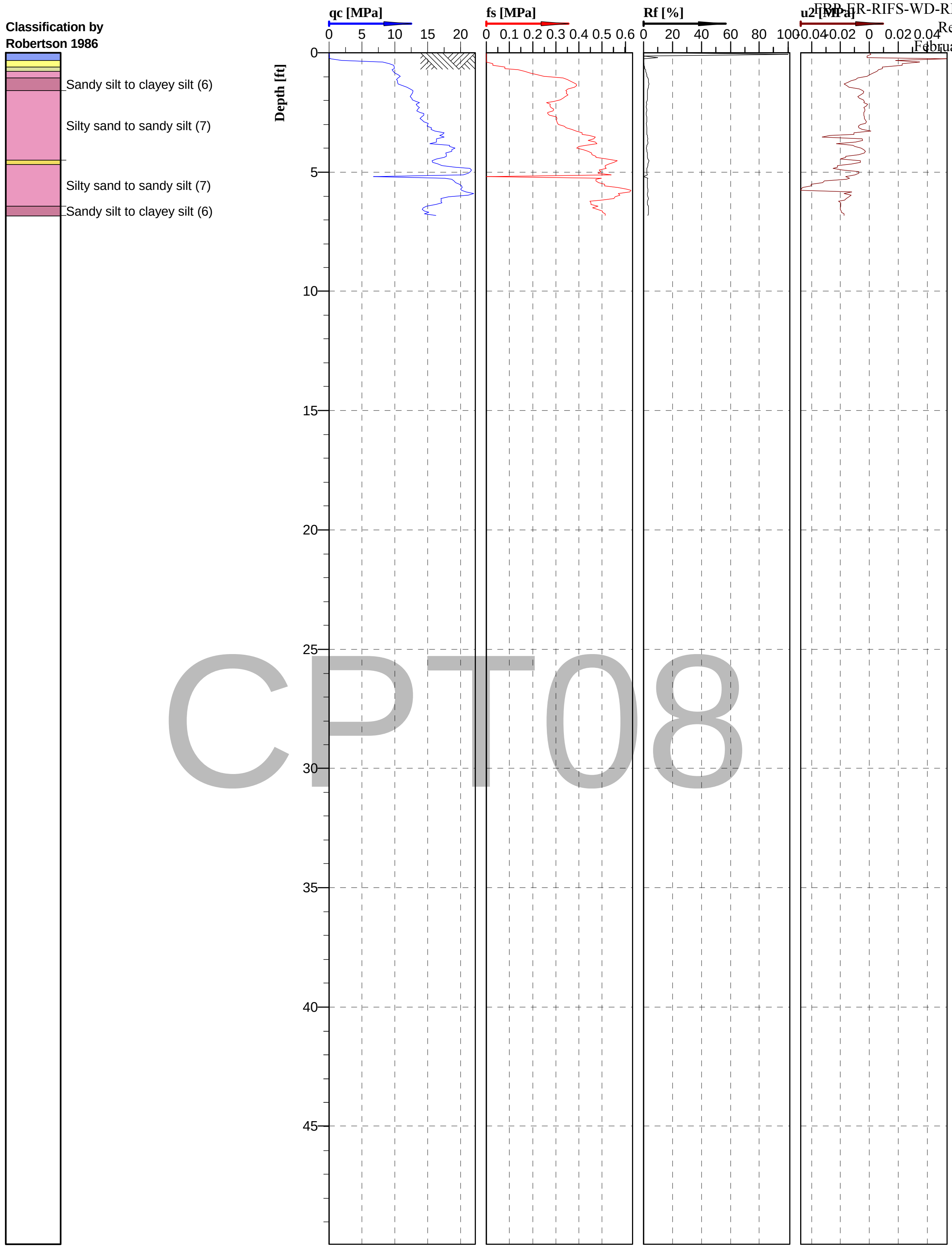

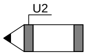

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT08
Project ID:	Client: M&W Drilling	Date: 10/27/2011	Scale: 1 : 70
Project: DS1997		Page: 1/1	Fig:
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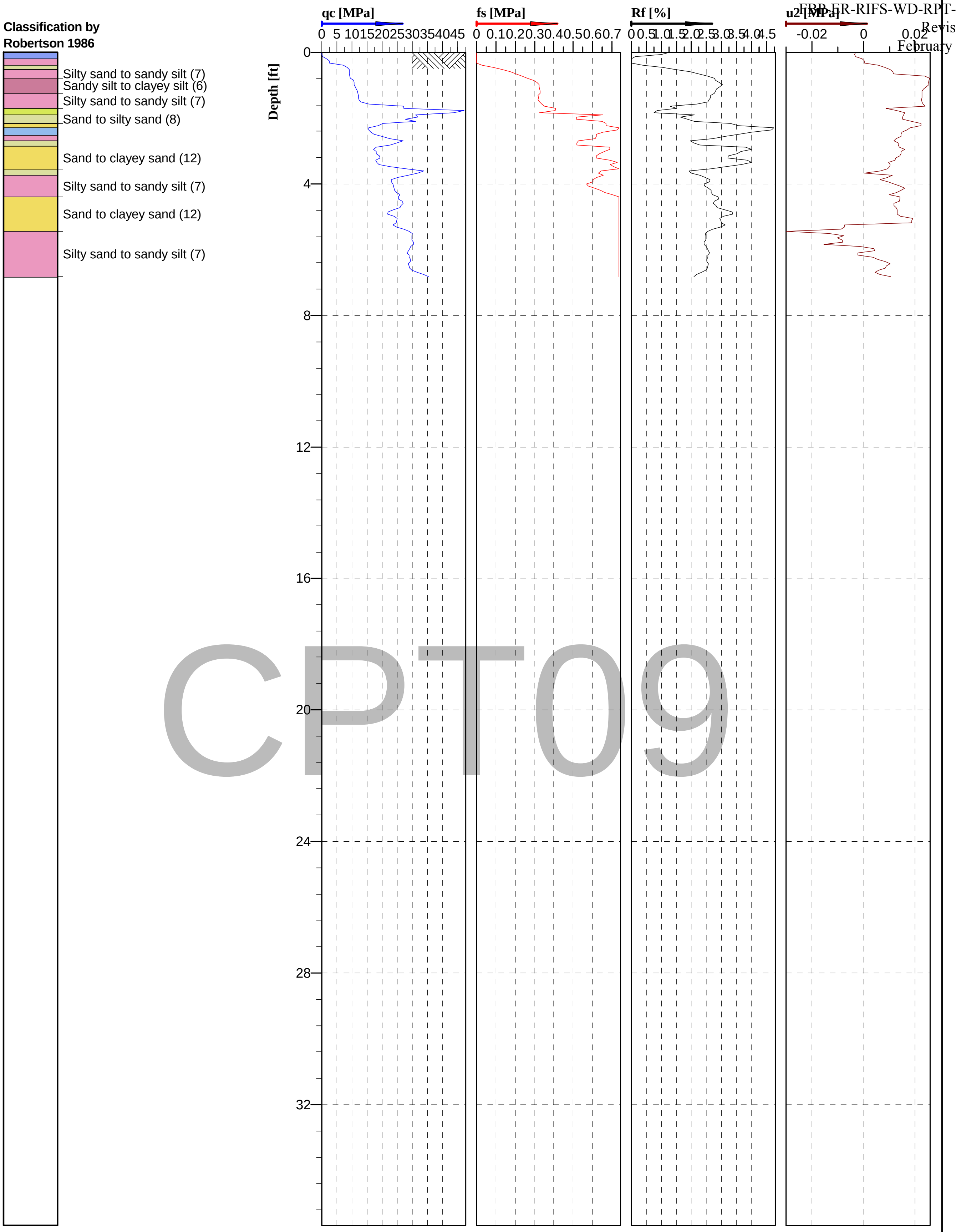

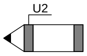

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT09
Project ID:	Client: M&W Drilling	Date: 10/27/2011	Scale: 1 : 50
Project: DS1997		Page: 1/1	Fig:
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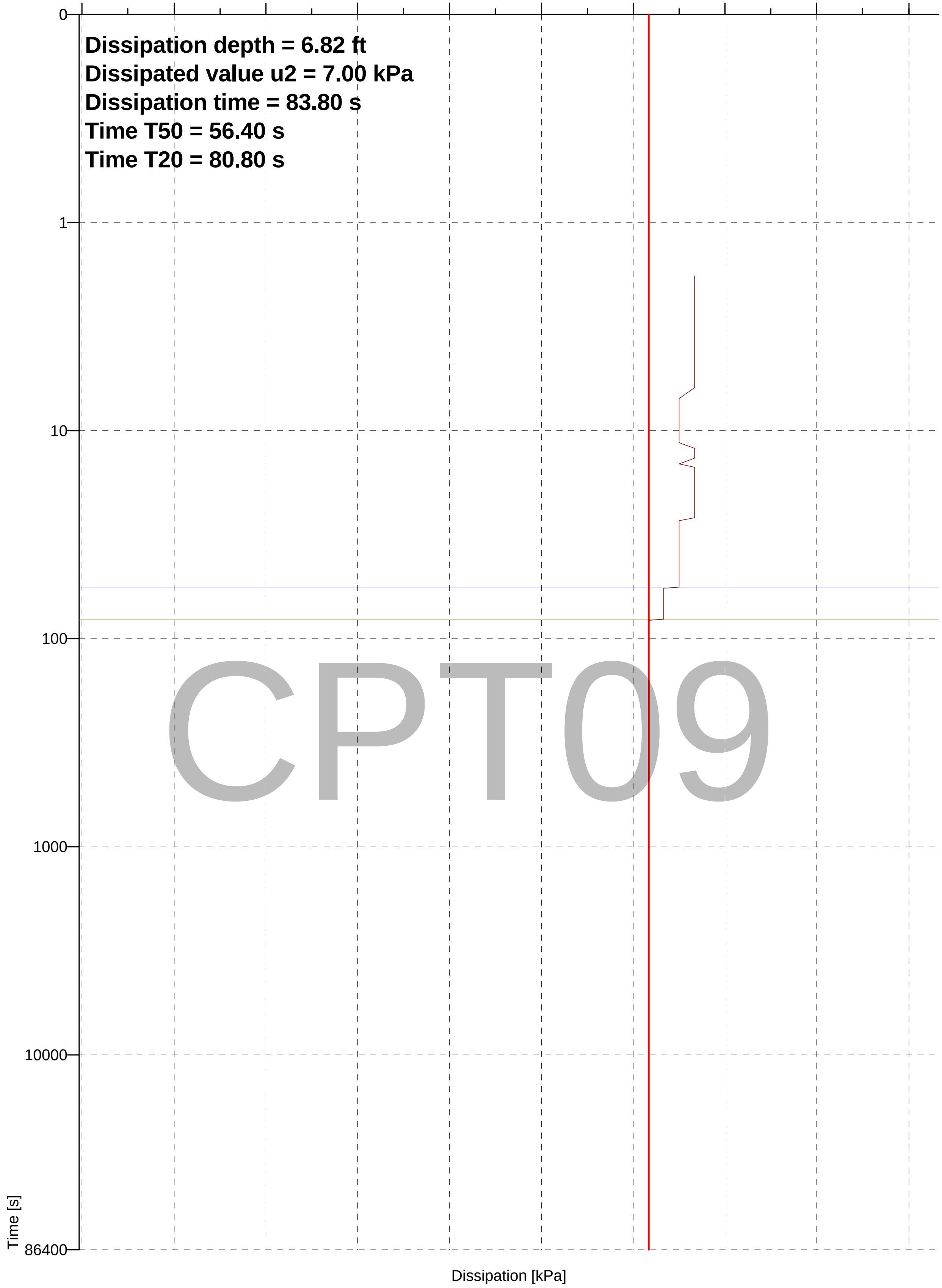

Dissipation depth = 6.82 ft
Dissipated value u2 = 7.00 kPa
Dissipation time = 83.80 s
Time T50 = 56.40 s
Time T20 = 80.80 s

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT09
Project ID:	Client: M&W Drilling	Date: 10/27/2011	Scale: 1 : 50
Project: DS1997		Page: 1/1	Fig:
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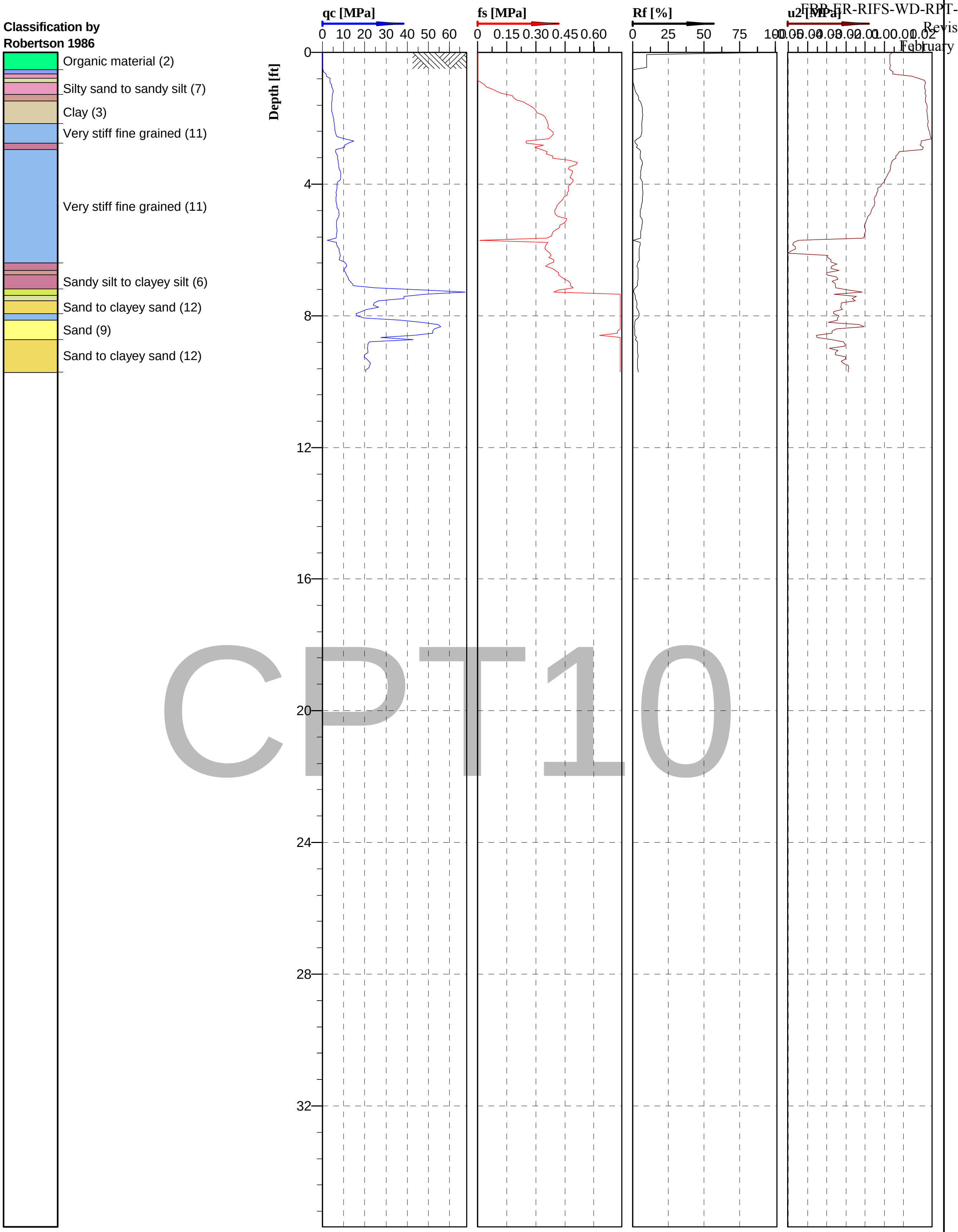

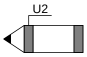

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT10
Project ID:	Client: M&W Drilling	Date: 10/28/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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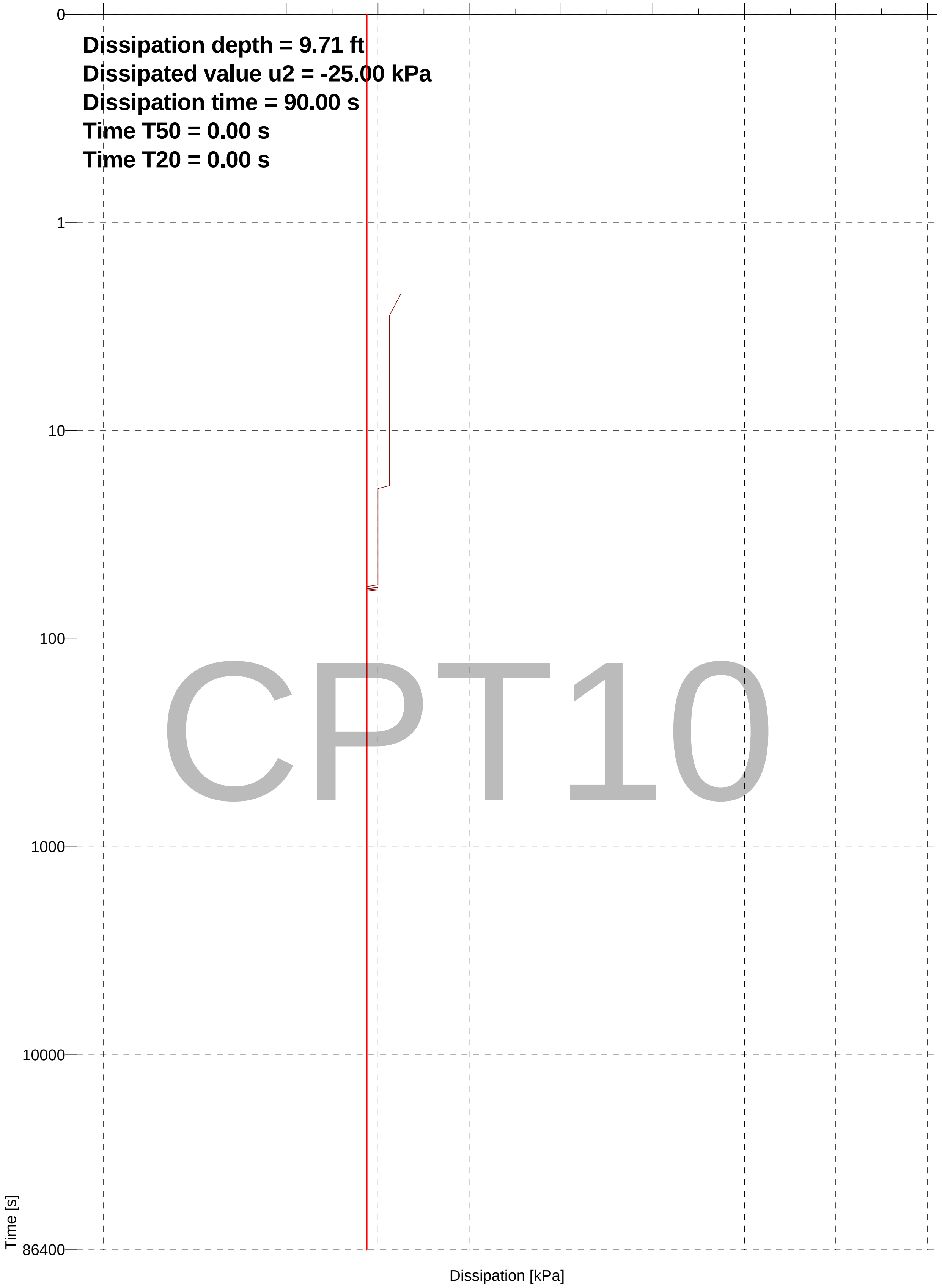
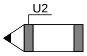


Dissipation depth = 9.71 ft
Dissipated value u2 = -25.00 kPa
Dissipation time = 90.00 s
Time T50 = 0.00 s
Time T20 = 0.00 s



Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT10
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Project: DS19997		Page: 1/1	Fig:
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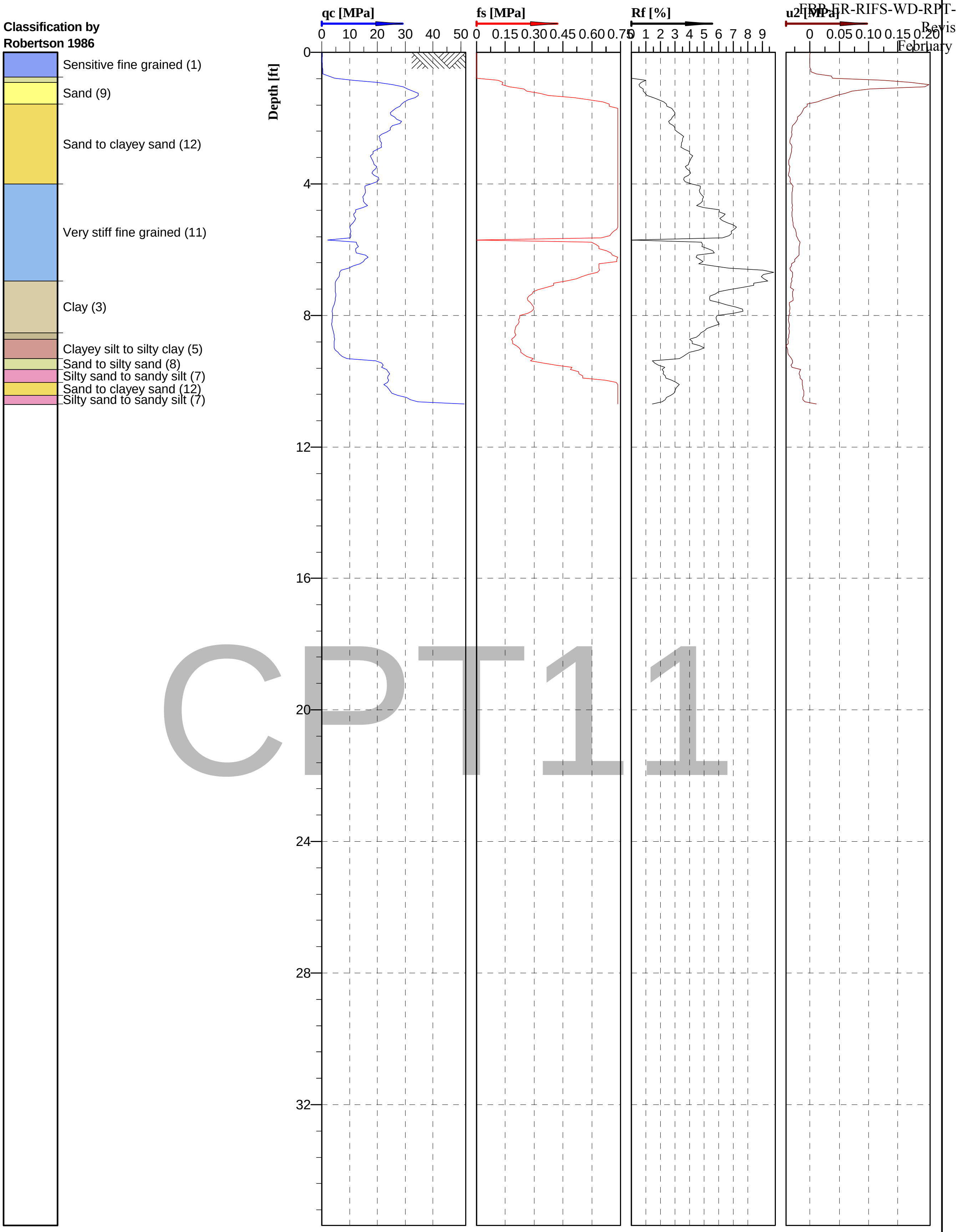

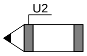

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT11
Project ID:	Client: M&W Drilling	Date: 10/28/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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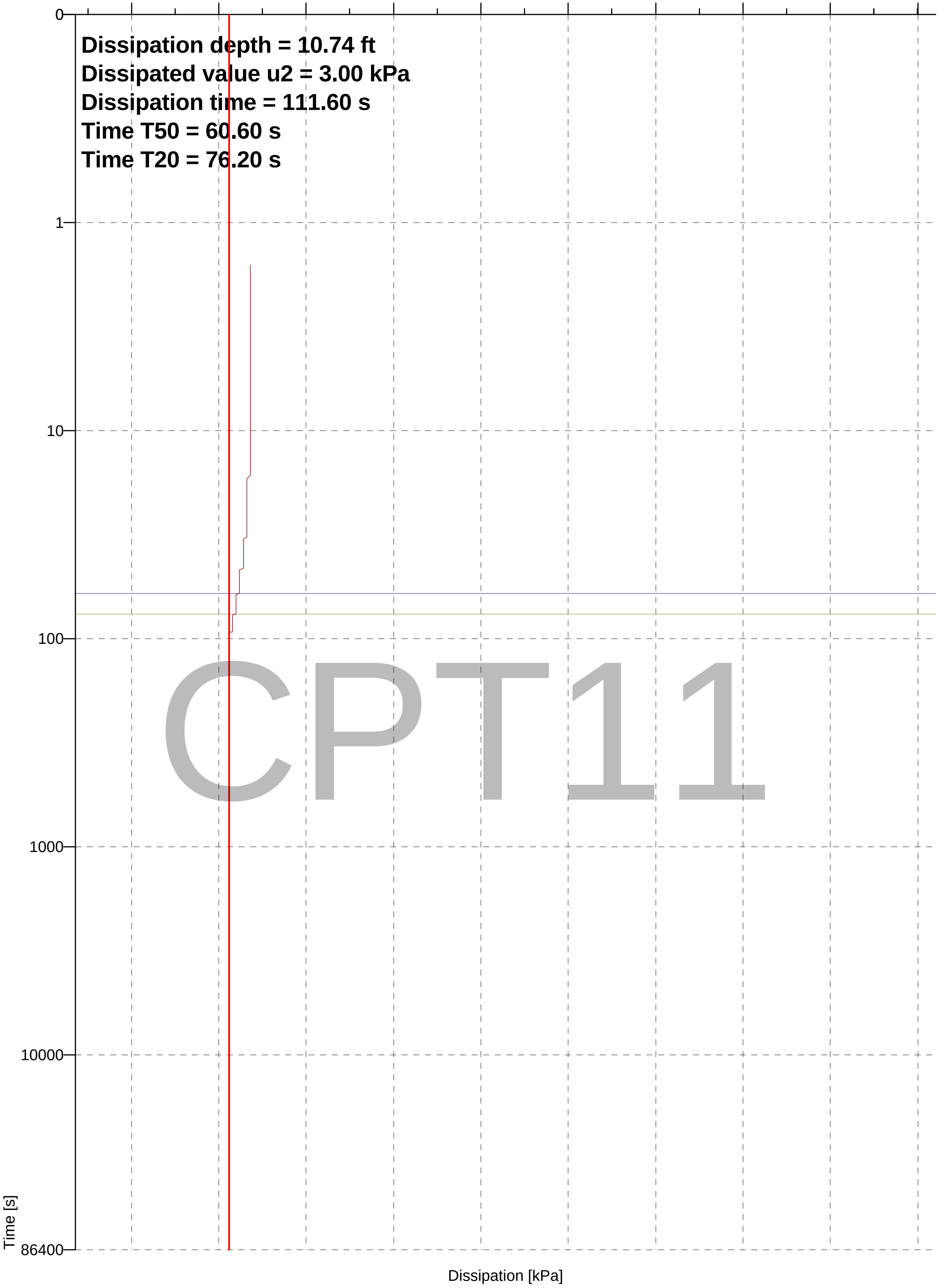

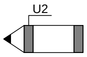

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT11
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Project: DS19997		Page: 1/1	Fig:
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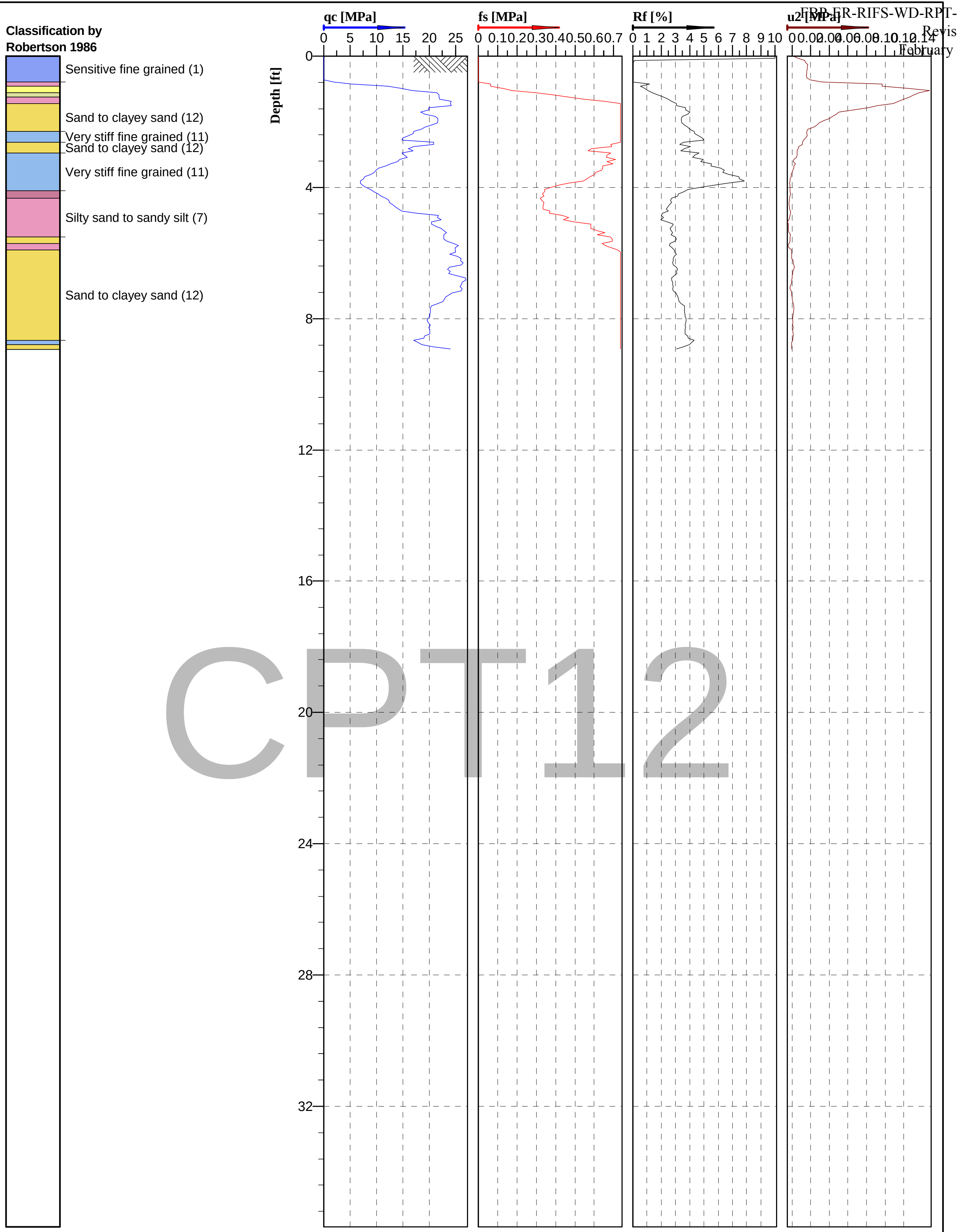

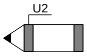

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT12
Project ID:	Client: M&W Drilling	Date: 10/27/2011	Scale: 1 : 50
Project: DS1997		Page: 1/1	Fig:
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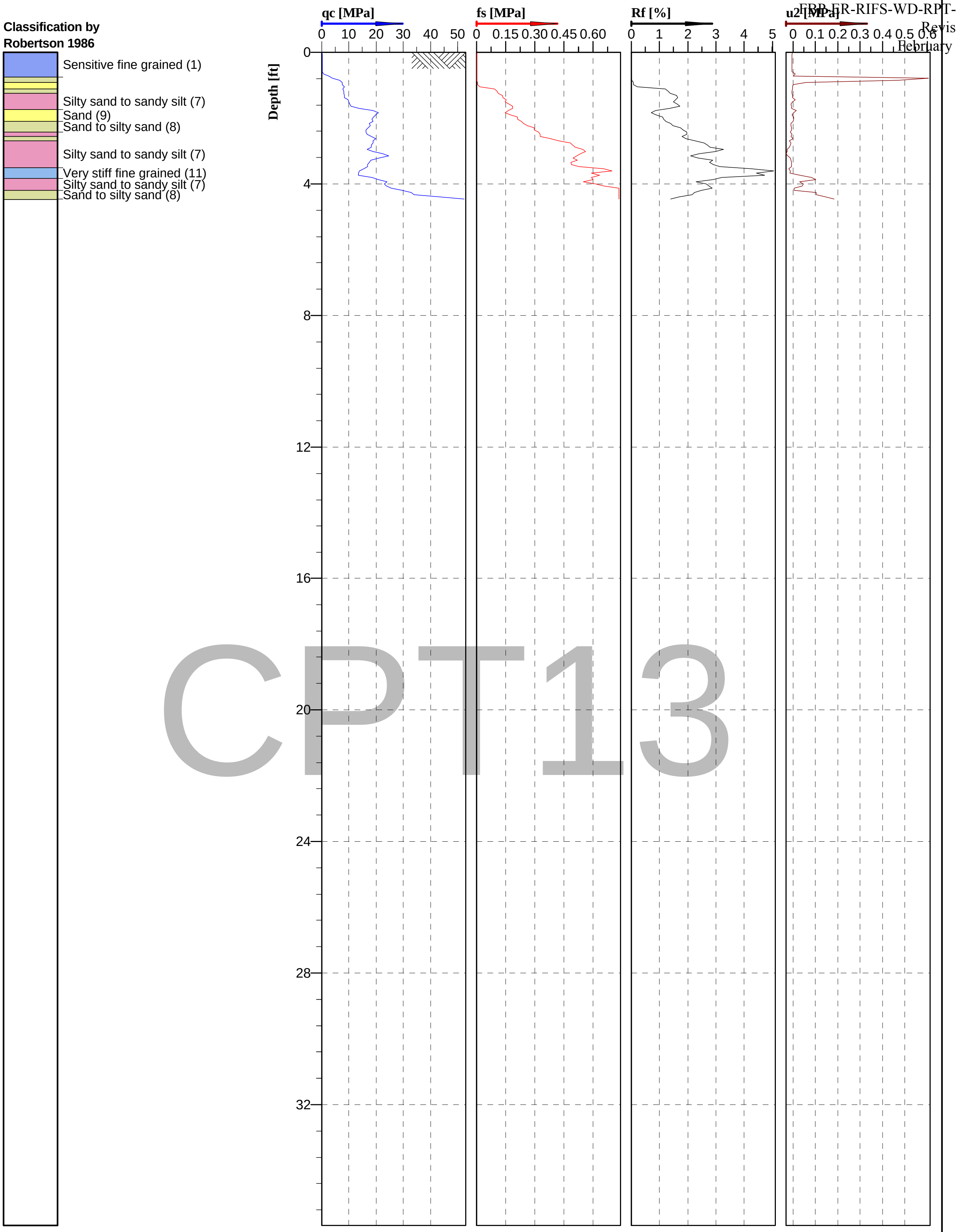

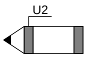

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT13
Project ID:	Client: M&W Drilling	Date: 10/28/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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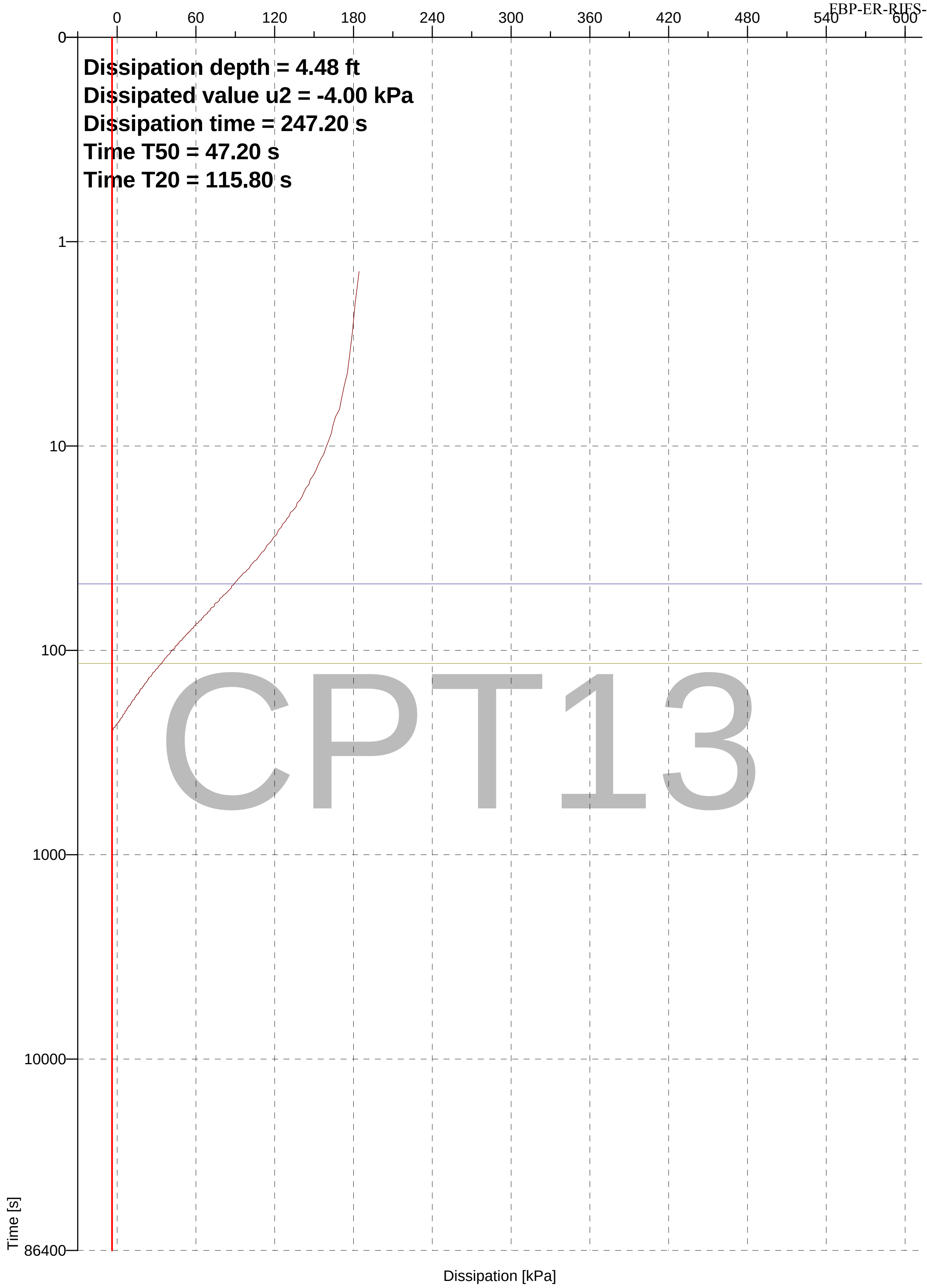

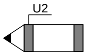

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT13
Project ID:	Client: M&W Drilling	Date: 10/28/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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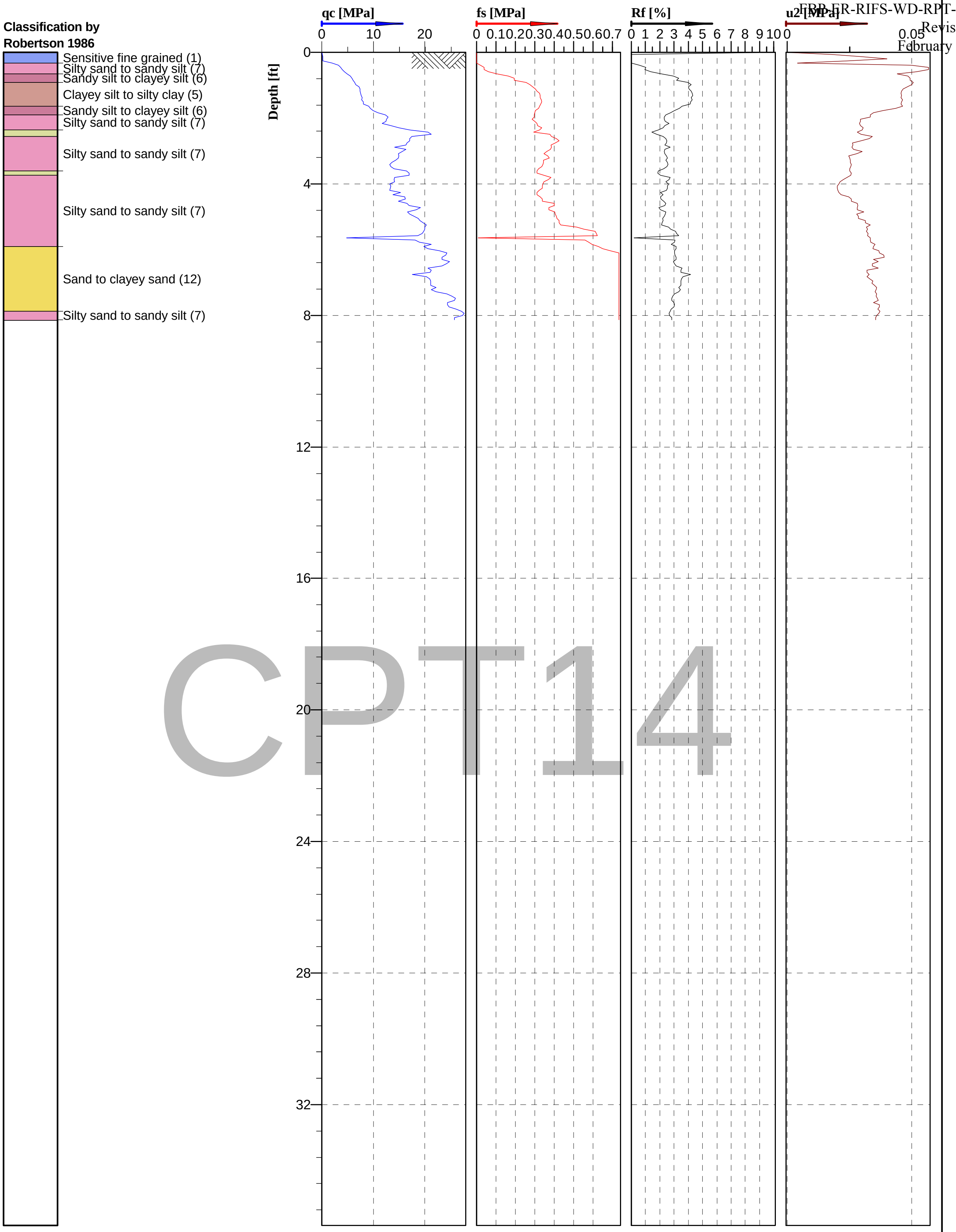

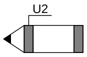

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT14
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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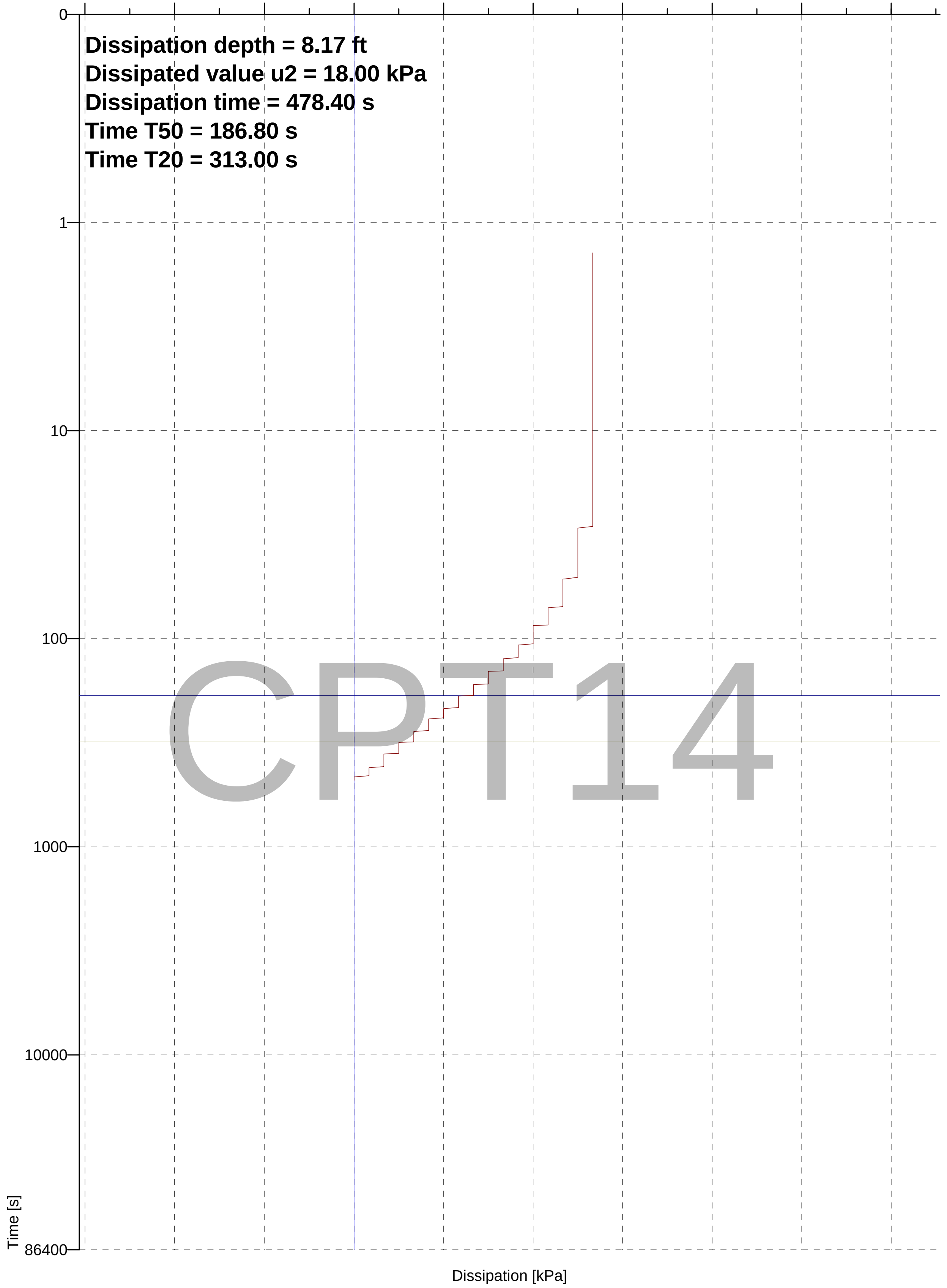
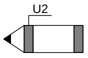


Dissipation depth = 8.17 ft
Dissipated value u2 = 18.00 kPa
Dissipation time = 478.40 s
Time T50 = 186.80 s
Time T20 = 313.00 s



Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT14
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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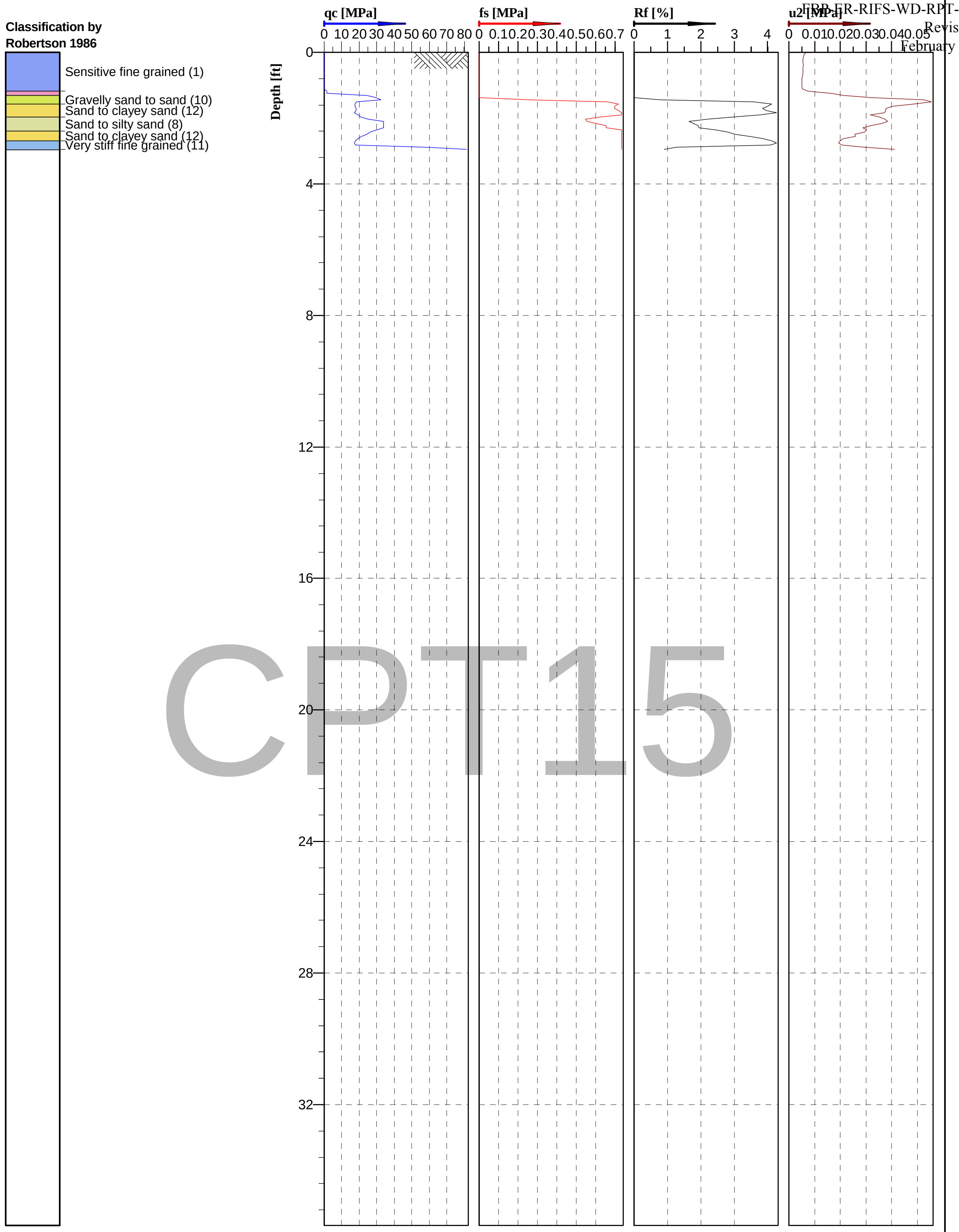

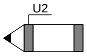

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT15
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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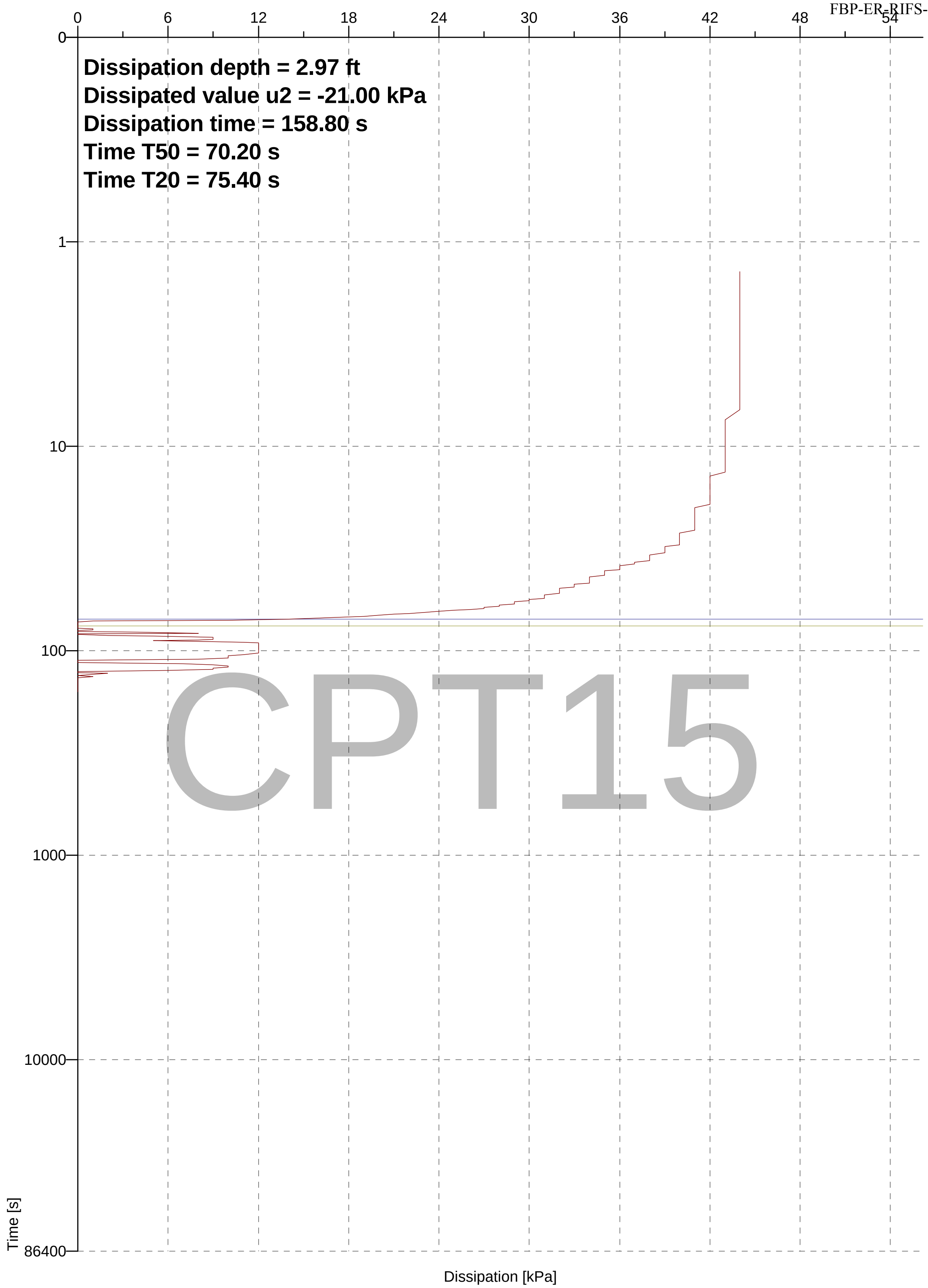
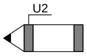
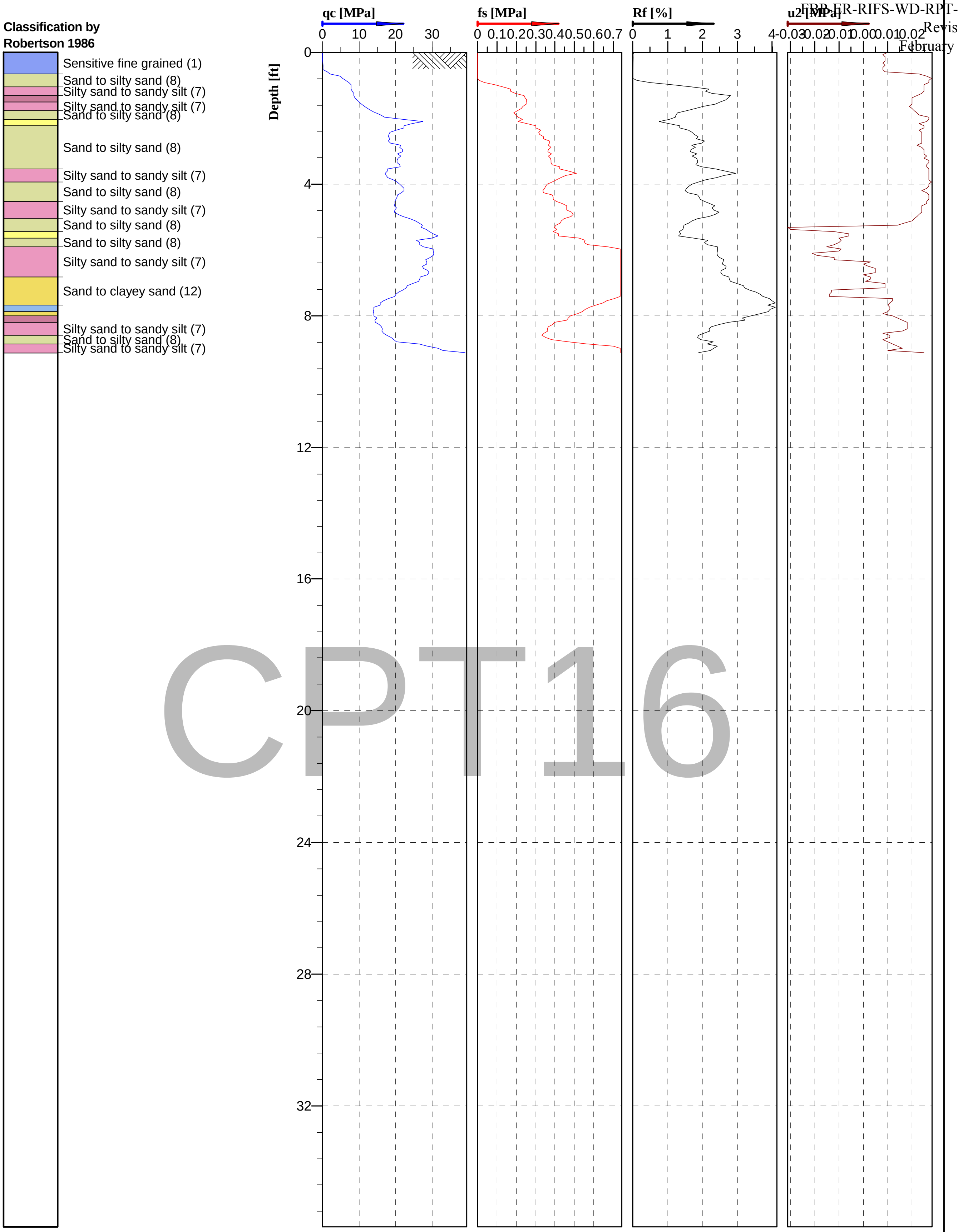


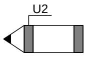
Dissipation depth = 2.97 ft
Dissipated value u2 = -21.00 kPa
Dissipation time = 158.80 s
Time T50 = 70.20 s
Time T20 = 75.40 s



Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

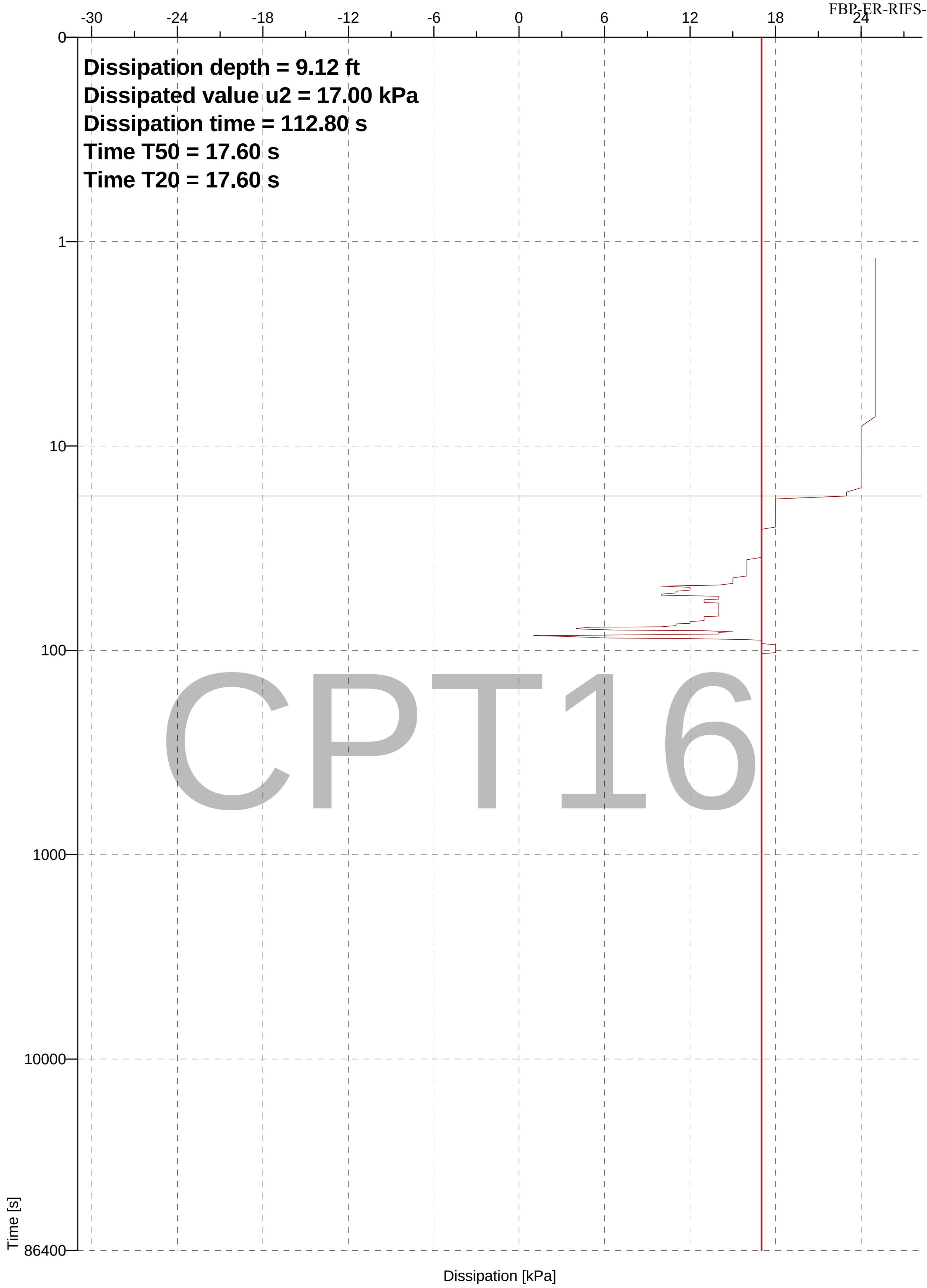
Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT15
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt15.cpd	



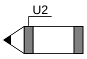


Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT16
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt16.cpd	

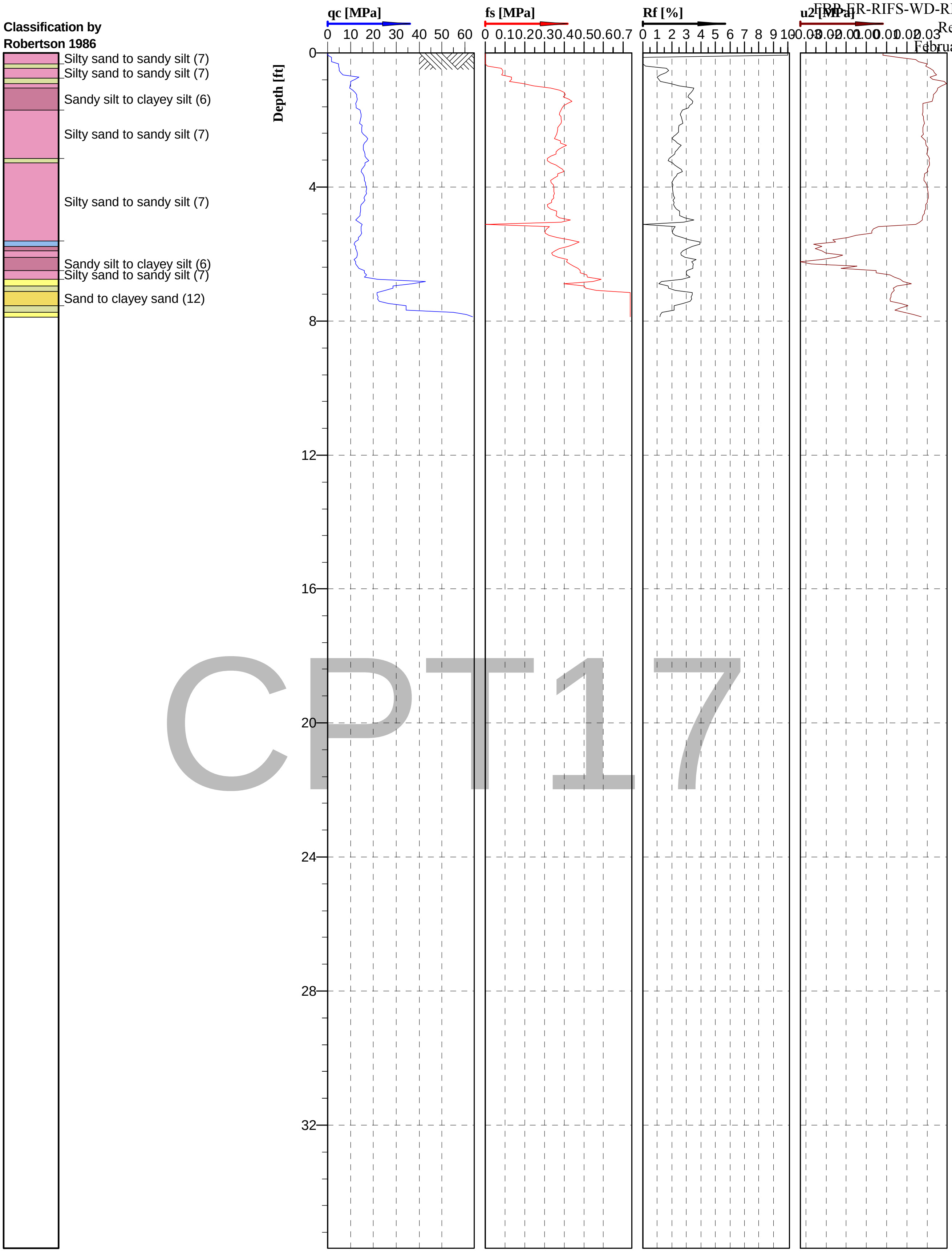


Dissipation depth = 9.12 ft
Dissipated value u2 = 17.00 kPa
Dissipation time = 112.80 s
Time T50 = 17.60 s
Time T20 = 17.60 s



Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

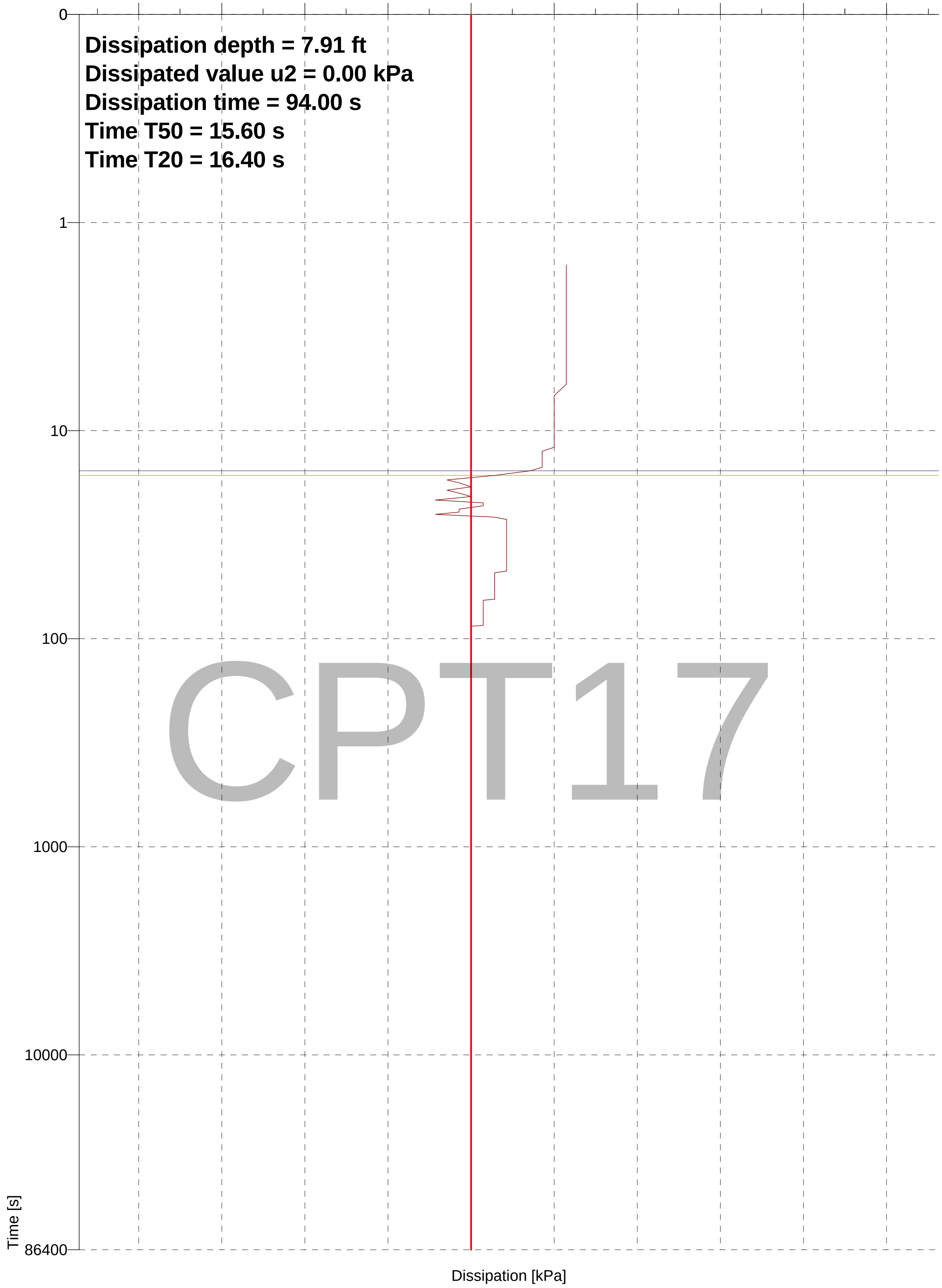
Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT16
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt16.cpd	



U2

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

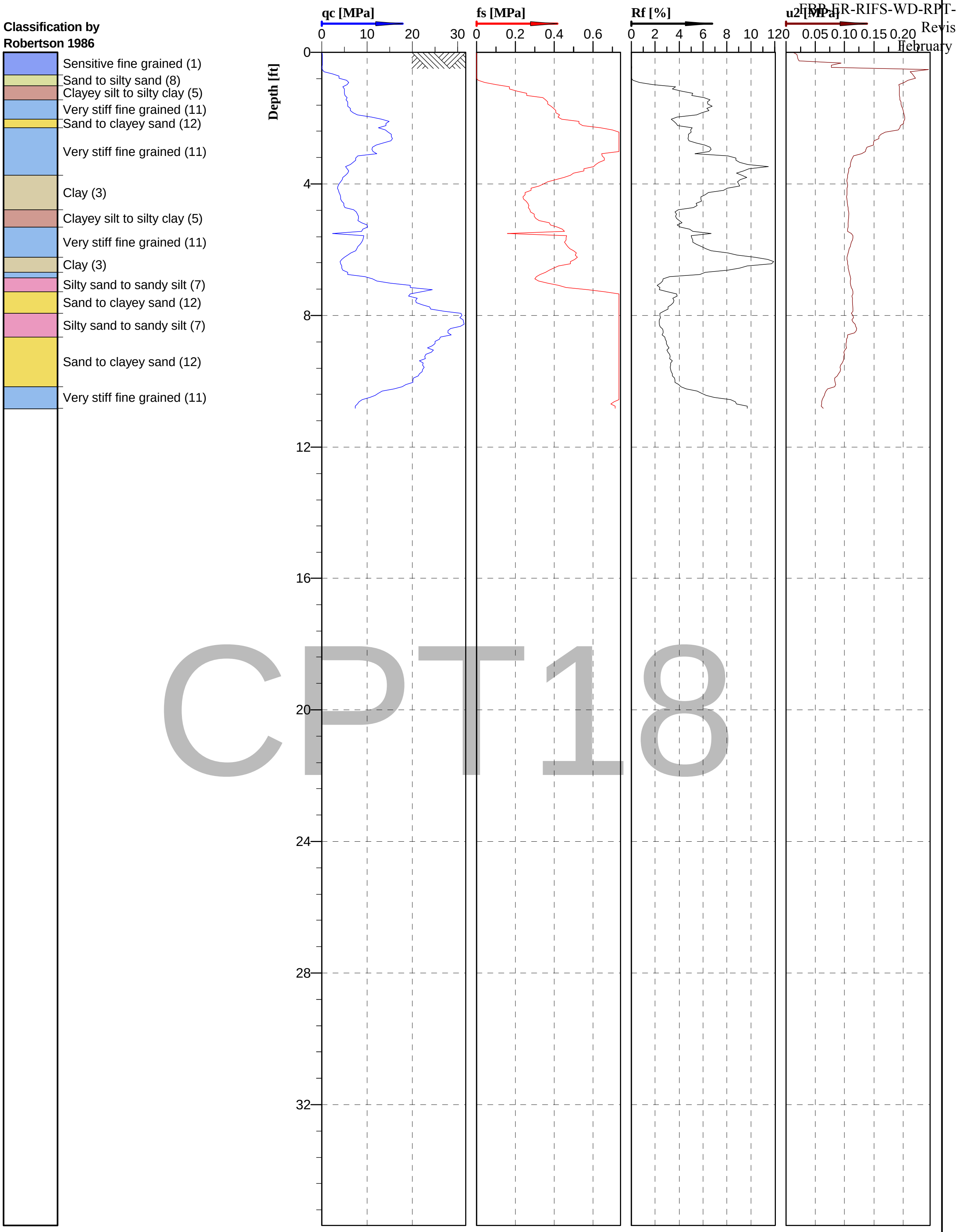
Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT17
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt17.cpd	

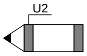


Dissipation depth = 7.91 ft
Dissipated value u2 = 0.00 kPa
Dissipation time = 94.00 s
Time T50 = 15.60 s
Time T20 = 16.40 s

Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

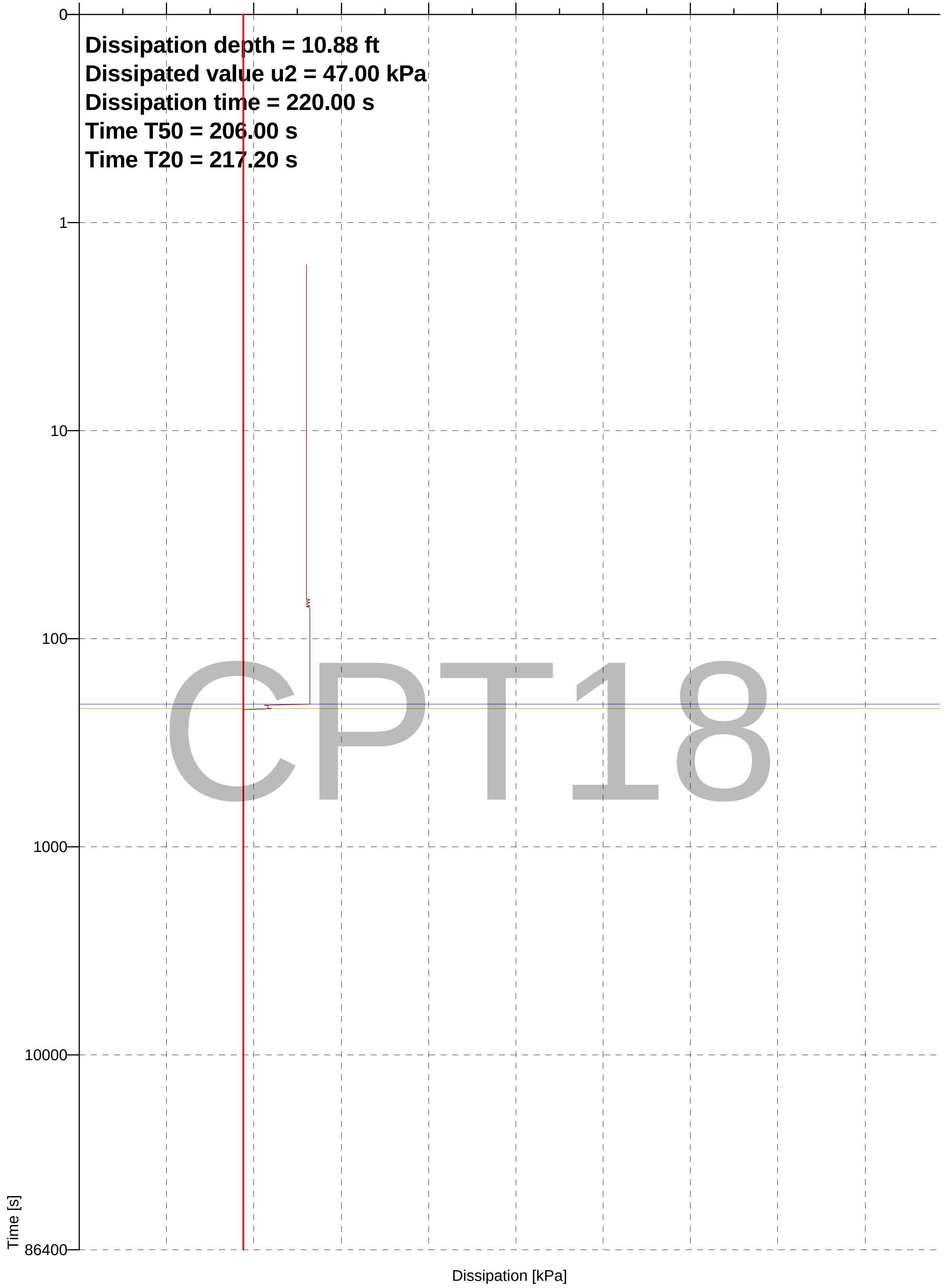
Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT17
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt17.cpd	





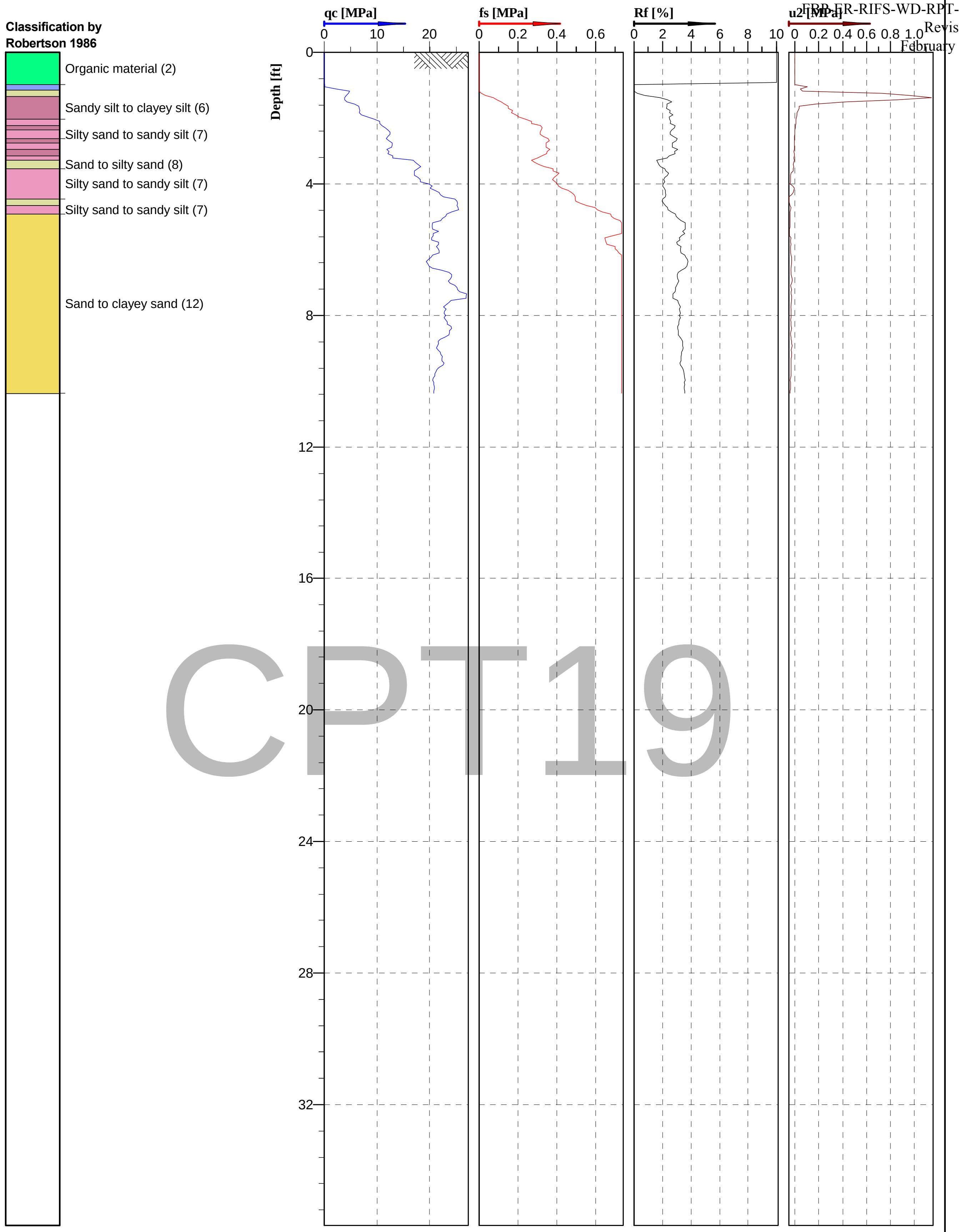
Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

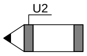
Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT18
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt18.cpd	



Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT18
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt18.cpd	





Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT19
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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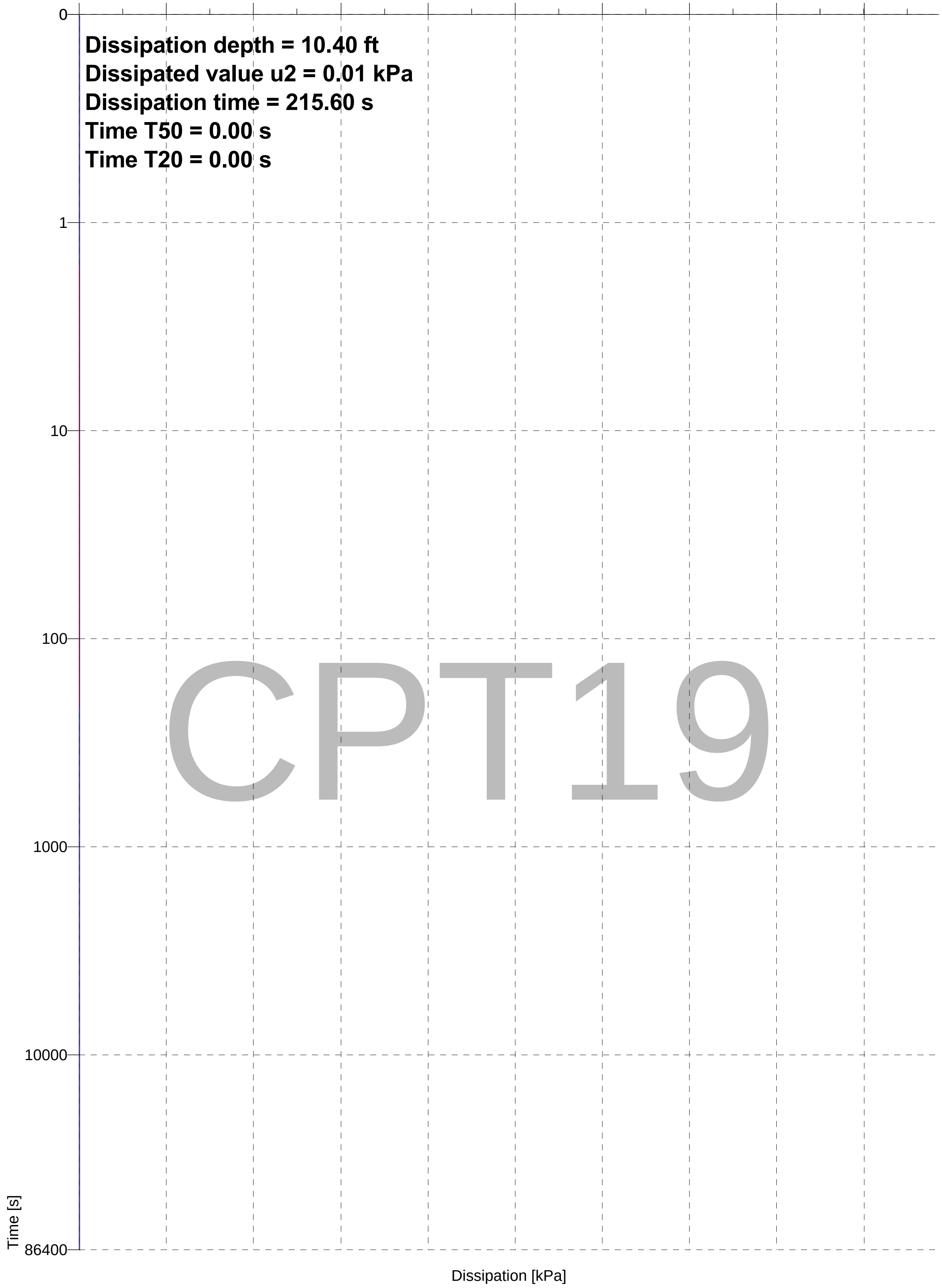
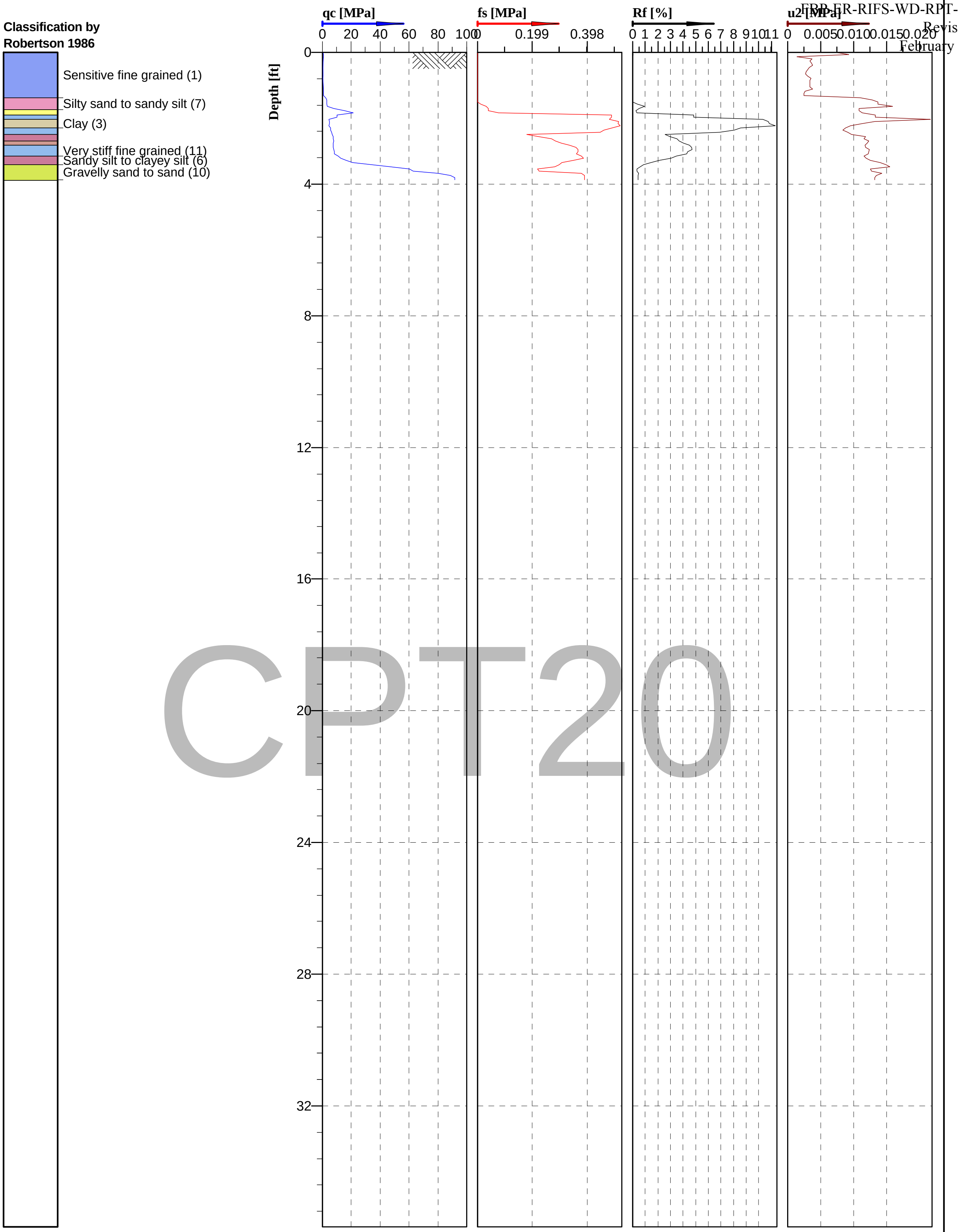
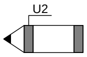


Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

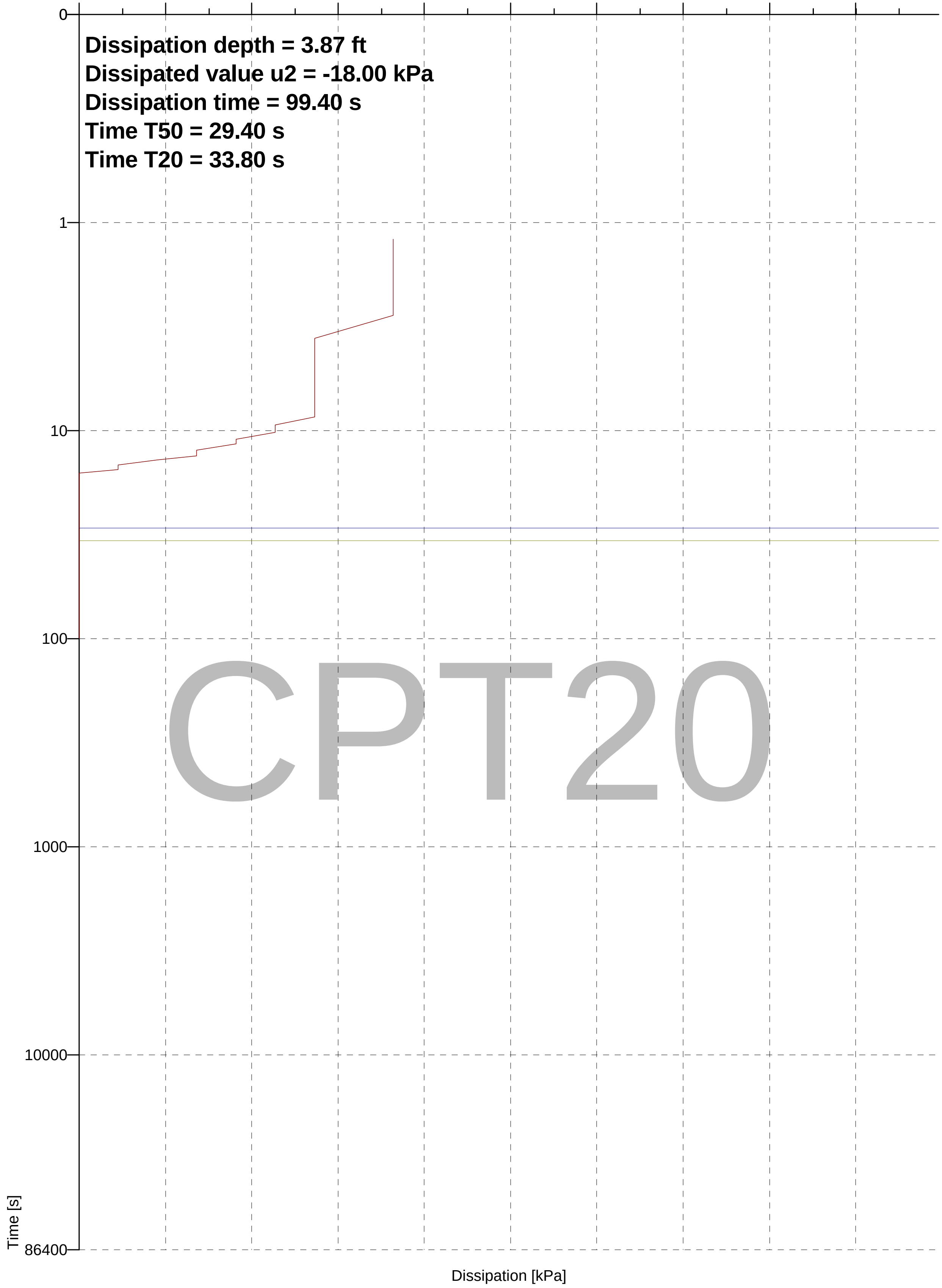
Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT19
Project ID:	Client: M&W Drilling	Date: 10/29/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt19.cpd	



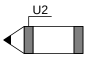


Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT20
Project ID:	Client:	Date: 10/28/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt20.cpd	



Dissipation depth = 3.87 ft
Dissipated value u2 = -18.00 kPa
Dissipation time = 99.40 s
Time T50 = 29.40 s
Time T20 = 33.80 s



Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location:	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT20
Project ID:	Client:	Date: 10/28/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
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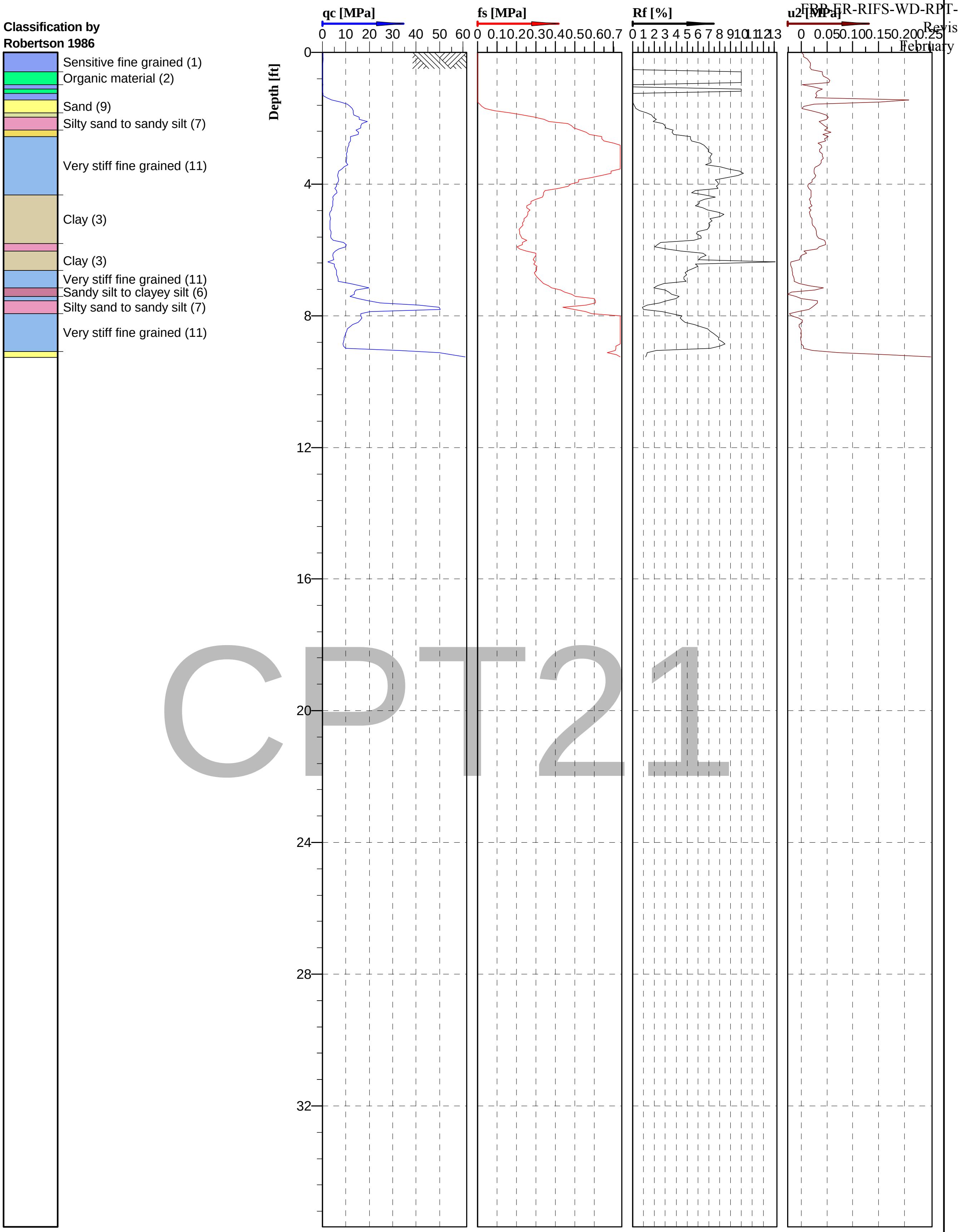
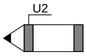
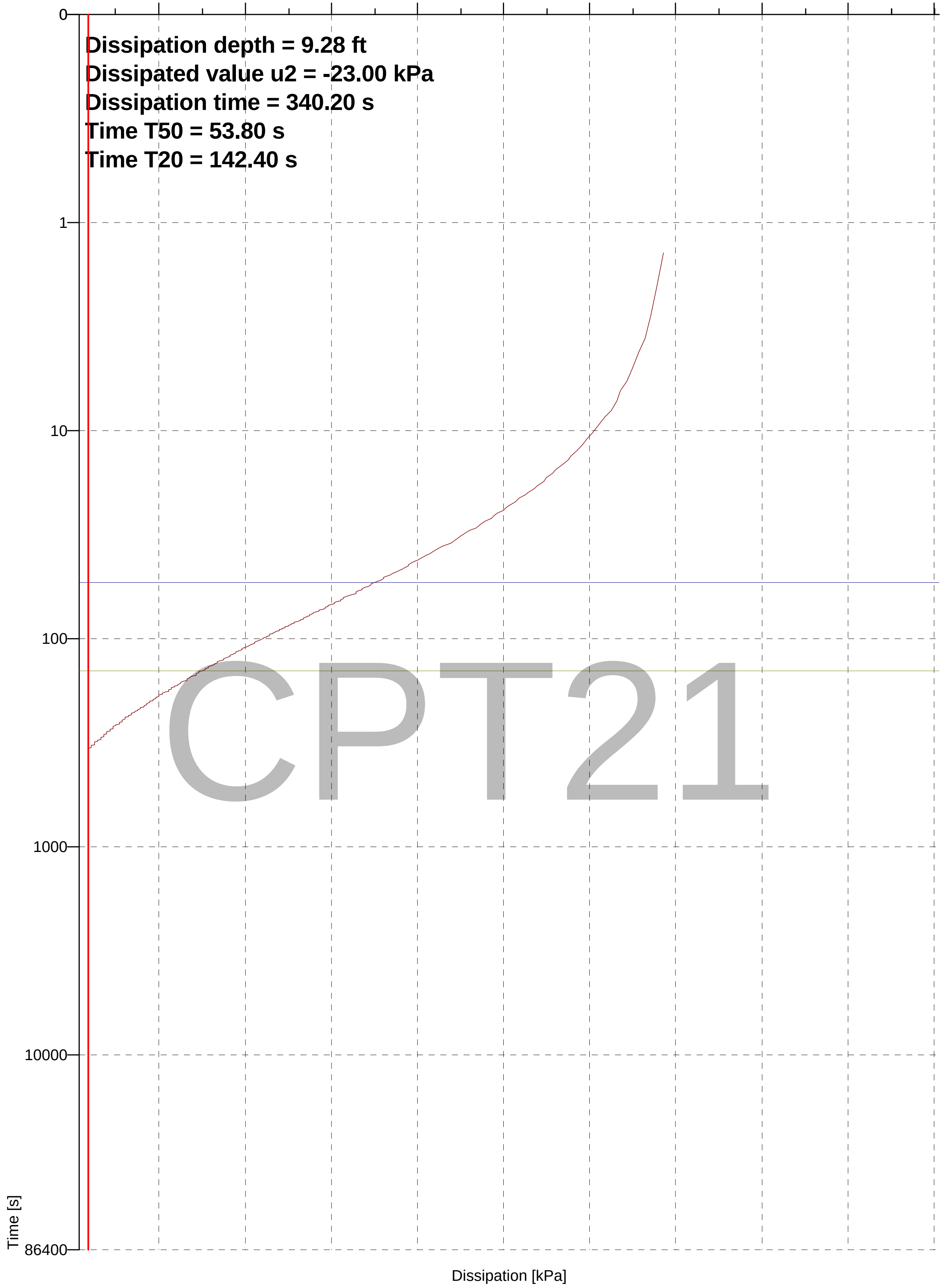


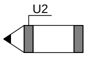


Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT21
Project ID:	Client: M&W Drilling	Date: 10/28/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt21.cpd	



ZEBRA



Cone No: 3804
Tip area [cm2]: 10
Sleeve area [cm2]: 150

Location: Piketon, Ohio	Position: X: 0.00 ft, Y: 0.00 ft	Ground level: 0.00	Test no: CPT21
Project ID:	Client: M&W Drilling	Date: 10/28/2011	Scale: 1 : 50
Project: DS19997		Page: 1/1	Fig:
		File: cpt21.cpd	

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AGS Reference: 11-245-1

GEOPHYSICAL WELL LOGGING REPORT

Prepared for: Flour-B&W Portsmouth LLC
TOR No.: TOR007
Contract No.: PO-0000059

December 16, 2011

Subject: Geophysical Well Logging Results of WD-PZ-08C through WD-PZ-14C in
Study Area D
Portsmouth Gaseous Diffusion Plant
Piketon, Ohio

Advanced Geological Services (AGS) presents this submittal to Flour-B&W Portsmouth LLC (FBP) summarizing the geophysical well logging investigation completed by AGS on November 28 through November 30, 2011 at the Portsmouth Gaseous Diffusion Plant (PORTS) located in Piketon, Ohio. This work was completed in support of the Portsmouth Decontamination and Decommissioning Project.

Seven piezometers were geophysically logged with multiple wireline tools to characterize the bedrock and the degree of fracturing within the bedrock. All seven of the piezometers were located in Study Area D. The piezometers were six inches in diameter, had total depths of between 43 feet and 117 feet.

LOCAL GEOLOGY

The bedrock encountered in the study area is part of the Waverly Group, of Mississippi age (Young, et al., 1996). The formations present at the locations of the piezometers included, from oldest to youngest, the Berea Formation, the Sunbury Formation and the Cuyahoga Formation. All of the piezometers logged were completed in the Cuyahoga Formation, which is the uppermost bedrock unit in the study area. The Cuyahoga Formation is a composed of shale and sandstone beds. Regionally, bedrock at dips towards the southeast at an angle of less than 0.5^o (25 to 30 feet per mile) (Young, et al., 1996).

1.0 METHODOLOGY

A suite of geophysical logs was completed in each of the piezometers. Standard geophysical logs and borehole image logs were collected to provide detailed information about the bedrock at each piezometer.

The logs that were collected for this investigation include:

- 3-arm Caliper
- Natural Gamma
- Single-point Resistance
- Normal Resistivity (16-inch & 64-inch)
- 40-inch Lateral Resistivity (calculated)
- Digital Acoustic Televiewer (ATV)

All logs, except the ATV logs were acquired using a Compu-Log Portable Logging System manufactured by Century Geophysical Corporation. The ATV logs were acquired with a Mount Sopris Matrix logging system.

1.1. CALIPER LOGS

The caliper log measures variations in borehole size as a function of depth in a well. The log data enables (a) the detection of competent or fractured geologic units, (b) the location of washouts or tight zones, (c) the optimal placement of well screen, sand, and bentonite, and (d) the establishment of appropriate borehole correction factors to be applied to other well log curves. Further, when run in combination with other logs, the caliper log may be an indicator of lithologic makeup and degree of consolidation. The typical caliper response in a fractured, or weathered, unit is a relatively abrupt increase in borehole size.

1.2. NATURAL GAMMA RAY LOGS

The natural gamma ray log is a passive instrument that measures the amount of naturally occurring radioactivity from geologic units within the borehole. Common naturally occurring radioelements include potassium, thorium, and uranium. Potassium and thorium are often the most common in fine-grained rock sequences. The gamma ray log is an excellent lithologic indicator because fine-grained clays and shales contain a higher radioelement concentration than limestones or sands. Gamma ray values are often used to assess the percentage of clay materials (indurated or non-indurated) that are present within a formation by utilizing empirically derived equations and sand-shale base line information.

The natural radioactivity range for earth materials is as follows:

Shales Clays Marls
Silts Sand
(sandstone)
Limestone Dolomite

Radioactivity
Increase

1.3. SINGLE-POINT RESISTANCE LOGS

Single-point resistance measurements are made by passing a constant current between two electrodes and recording the voltage fluctuations as the probe is moved up the hole. The resistance variations measured in the borehole are primarily caused by variations in the immediate vicinity of the downhole electrode.

The resistance log is strongly affected by the resistance of the drilling fluid and variations in borehole diameter. It is extremely useful for detecting fractures in boreholes with relatively constant diameter. In sedimentary environments, the resistance log generally follows the variations in resistivity of the formation. Shales generally exhibit low values, sandstones have intermediate values, while coal and limestone beds have high resistance values.

1.4. ELECTRICAL RESISTIVITY LOGS

Resistivity is a measure of how well an electric current passes through a material. Formation resistivity is an intrinsic property of rocks and depends on the porosity and resistivity of the interstitial fluid and rock matrix.

In sedimentary rocks, the resistivity values of shales is generally lower than the resistivity of sandstone, which is lower than the resistivity of limestone. The resistivity log often shows a picture of the overall depositional sequence in sedimentary environment. Resistivity of unweathered igneous and metamorphic rocks are often extremely high when compared to resistivity in sedimentary rocks, with values that are commonly thousands of ohm-meters.

2.0.1 16-Inch and 64-Inch Normal Resistivity Logs

The normal resistivity logs are generated by non-focused current resistivity instrumentation within the well bore. The ultimate objective of these measurements is to determine the true resistivity of the formation (matrix and fluids). The normal electrode configuration assumes a point source of current from which the voltage drop is measured by a potential electrode in the well. A second set of current and potential electrodes are positioned at a large distance (ground surface) from the downhole electrodes to complete the circuit. The distance between the downhole current electrode and the downhole voltage electrode is either 16 inches or 64 inches. The volume of material measured is approximately two times the electrode separation: 32 inches and 128 inches, respectively. The calculation of resistivity is determined by applying Ohm's Law and known electrode separations.

Since the 64-inch normal utilizes a greater electrode separation, the instrument will measure more deeply into the formation and obtain resistivity values that closely approximate the true formation resistivity. Conversely, the 16-inch normal device will record resistivities that are found in a zone that is at least partially invaded by borehole fluids. In the case where borehole mud pressures are greater than formation water pressures, a comparison of these curves gives an indication of the depth of invasion of borehole fluids and formation permeability. If formation pressures are greater, the true resistivity values are easier to attain due to the lack of influence of the borehole fluids.

2.0.2 40-Inch Lateral logs

Lateral resistivity logs are designed to measure resistivity beyond the invaded zone by use of a long electrode separation. The 40-inch lateral log provided in this report is a log calculated by the logging software provided by the logging system manufacturer (Century Geophysical Corporation). It is computed from the 16-inch normal and 64-inch normal readings. The curve is generated through the relation, L40 = (N16*4 - N64)/3, where L40 is the 40-inch lateral value, N16 is the measured 16-inch normal resistivity reading, and N64 is the 64-inch normal resistivity reading.

1.5. ACOUSTIC TELEVIEWER (ATV) LOGS

The acoustic televiewer log provides an oriented high-resolution image of the borehole using high-resolution sound waves. The oriented image of the borehole can be presented in both amplitude and travel time. Results from this tool provide location and orientation information of features such as fractures, lithologic contacts and cavities, as well as relative smoothness of the sidewalls of the well bore. The relative smoothness of the well bore sidewalls can be used qualitatively in conjunction with other logs to assist with characterizing the bedrock lithology, or degree of weathering. The ATV digitizes up to 244 measurements around the borehole every 0.02 feet along the length of the borehole. Since the acquired image is digitized and properly oriented with respect to borehole deviation and tool rotation, it allows data processing to provide accurate strike and dip information of structural features.

2.0 RESULTS AND DISCUSSION

Piezometers WD-PZ-08C, WD-PZ-09C, WD-PZ-10C, WD-PZ-11C, WD-PZ-12C, WD-PZ-13C, and WD-PZ-14C were logged during this investigation. All piezometers were 6-inch diameter, and had steel casing. Prior to logging, the water levels in the piezometers were generally below the bottom of the steel casing. The resistance, resistivity and ATV logs all require a water filled borehole to provide meaningful results. Therefore, each of the piezometers was filled to the top with fresh water immediately prior to the start of logging.

The bedrock encountered in each of the piezometers was predominantly fine-grained, thinly bedded shale, with occasional thin sandstone layers. The sandstone, when present, was most commonly less than 2 to 3 inches inches thick, although some sandstone layers were up to approximately 1.8 feet thick. The geophysical logs suggest that the shale is thinly laminated and friable.

Overall, the quality of the geophysical logs was very good. The geophysical logs are provided as an attachment at the end of this report. Variations in the resistance, resistivity and natural gamma logs, in conjunction with the caliper and ATV responses allow identification of lithologic changes encountered within the piezometers. Generally a sandstone unit will produce a lower natural gamma response, and a higher resistance and resistivity response than a shale. Shales also tend to be softer than sandstones, which results in a slight widening of the borehole during drilling, that can be detected with the caliper tool.

The ATV logs can also be used to distinguish between shale and sandstone units. Generally, the thinly bedded, friable shale encountered in the piezometers produced a rough image that appears static filled. This character is caused by the rough sidewalls of the friable shale in the well bore that scatters the acoustic signal. On the other hand, the acoustic image produced by a sandstone bed is cleaner, and relatively free of the static because of the smoother sidewalls of the well bore.

Logs from WD-PZ-13C provide a good example of the sandstone versus shale response in the geophysical logs. The sandstone layer from a depth of 30.7 feet to 32.5 feet produces a decrease in the natural gamma response, an increase in the resistance and resistivity responses, a decrease in borehole diameter shown in the caliper log, and a clear, static free ATV response. This particular sandstone layer was thicker than most encountered during this investigation, but similar responses can also be seen in the thinner sandstone layers encountered.

The geophysical logs also indicate that the bedrock in the investigation area is free from any major bedding plane fractures, joints, or faults. Bedrock fractures are often observed in the caliper log as an abrupt widening of the borehole diameter. ATV logs also provide high-resolution of the borehole images that allow clear identification of bedding plane fractures, joints, and faults. If partings in the bedrock are very tight, do not cause a widening of the borehole, or have no acoustic response, then no fractures are observed.

The plotted range of the borehole diameter of the caliper logs is very small, from a diameter of 6 inches to 7 inches (see attached logs). This narrow range was used to accentuate changes in the borehole diameters that do occur. Commonly a significant bedrock fracture will produce a widening of the borehole that is abrupt, and often increases the borehole diameter by 1 inch or more. At this site, the caliper responses only show variations in borehole diameter of up to several tenths of an inch, which is considered very small. Most often the changes in borehole diameter observed at this site are related to changes in lithology, not the presence of fractures.

Bedrock fractures in ATV logs are identifiable as a dark, continuous line that has a sinusoidal shape if the fracture is dipping, or as a straight, continuous, horizontal line if the fracture is perfectly flat. Probably the best example of a fracture from the logs collected during the current investigation occurs in WD-PZ-13C, at a depth of 30.7 feet. This is a bedding plane fracture that is located at the upper contact of a sandstone layer, and at the base of a shale. Although this is an identifiable bedding plane fracture, it would not be considered a major fracture.

As mentioned previously, the geophysical well logs are provided as an attachment to this report. Depths of all the logs are relative to the ground surface. Results and interpretations from the geophysical logs of each of the piezometers will be briefly described and discussed below.

2.1 WD-PZ-08C

Piezometer WD-PZ-08C was cased to a depth of 29 feet, and had a total depth of approximately 47 feet. A layer of sediment had settled in the bottom of the piezometer making it difficult to provide an accurate total depth.

From the bottom of casing to a depth of 45.5 feet the piezometer penetrates relatively homogeneous shale. Based on the ATV response, the shale beds are thinly laminated and likely readily friable. No distinctive bedding planes, fractures, or joints are noted in this portion of the piezometer.

A sandstone bed is encountered at a depth of 45.5 feet. A bedding plane fracture is present at the upper contact of this sandstone, and can be seen in the ATV log. There is no discernible response to the bedding plane fracture in the caliper log suggesting that this fracture is tight, and may have limited hydraulic conductivity.

It is not possible to see the bottom of the sandstone layer in the ATV log because of the accumulated sediments in the bottom of the piezometer. Based on the resistance and natural gamma responses, the sandstone layer probably extends to the bottom of the piezometer.

2.2 WD-PZ-09C

Piezometer WD-PZ-09C was cased to a depth of 30.4 feet and had a total depth of approximately 117 feet. Sediment accumulation in the bottom of the piezometer made it difficult to accurately determine the total depth.

The piezometer penetrated shale with occasional thin sandstone layers or stringers throughout its length. The most prominent sandstone layers were encountered at the depth intervals of 34.8-35.3, 37.1-37.8, 38.2-38.8, 78.8-80.4, and 82.3-82.9 feet. A number of thinner sandstone stringers are interspersed throughout the piezometer. Based on the ATV response, the sandstone stringers are more numerous between the bottom of casing and a depth of 83 feet. Below 83 feet, the sandstone stringers become fewer or more widely spaced.

No fractures or joints were noted from the geophysical log responses. It appears that bedding plane contacts are tight and not noticeably weathered or fractured.

2.3 WD-PZ-10C

Piezometer WD-PZ-10C was case to a depth of 23 feet, and has a total depth of approximately 41.5 feet. As with the other piezometers, sediment accumulation in the bottom of the piezometer makes it difficult to determine an accurate total depth.

Only 18.5 feet of open hole was available for logging at this location. The uncased portion of the piezometer penetrated homogeneous, thinly bedded shale throughout its length. No sandstone layers were noted in this piezometer. No bedding fractures, or joints were identified from the geophysical logs.

2.4 WD-PZ-11C

Piezometer WD-PZ-11C was cased to a depth of 30 feet and had an approximate total depth of 70 feet. Sediments accumulated in the bottom of the piezometer made it difficult to accurately determine the bottom of the piezometer.

The lithology of this piezometer from the bottom of casing to 67.3 feet is predominantly shale with occasional thin stringers of sandstone. Based on the ATV response, a sandstone layer may be present at the depth 67.3 feet. It is difficult to determine the presence of a sandstone layer at this depth because of the presence of the sediments accumulated at the bottom of the piezometer. The very close proximity of the well bottom also makes it hard to evaluated the natural gamma, resistance and resistivity curves. No bedding plane fractures, or joints were noted in the geophysical logs.

An item of note is a slight shift in the resistance and resistivity responses at a depth of 56 feet, along with a subtle change in the character of the ATV log. These changes may be caused by the natural water level in the piezometer, or by a sudden increase in the amount of suspended sediment in the water column. If these changes are caused by the presence of the natural water table, then the pore space of the bedrock below 56 feet is water saturated, and may have a slight weathering alteration, while above 56 feet, the pore space of the bedrock is partially saturated, or unsaturated.

2.5 WD-PZ-12C

Piezometer WD-PZ-12C was cased to a depth of 29 feet and has a total depth of approximately 73 feet. Similar to the other piezometers, sediments accumulated in the bottom of the piezometer makes accurate total depth determinations difficult. WD-PZ-12C penetrates shale with occasional thin sandstone stringers throughout its length. The sandstone stringers are most common between the bottom of casing and 36 feet. The stringers are less numerous, and/or less common, below a depth of 36 feet. No bedding plane fractures, or joints were noted in the geophysical logs.

A shift in the resistance and resistivity responses, along with a change in the character of the ATV log was noted at a depth of 63.5. These responses were more pronounced, but similar to those noted in WD-PZ-11C at a depth of 56 feet. Unlike WD-PZ-11C, the caliper log from WD-PZ-12C shows a slight widening of the borehole. The slight widening of the borehole, along with the other changes noted, would suggest that the changes are more likely related to the level of the natural water table rather than suspended sediments in the water column. The combined logs would indicate that there may be a slight weathering of the shale at the top of the water table, or in the vadose zone.

2.6 WD-PZ-13C

Casing in WD-PZ-13C extended to a depth of 15.2 feet, and the total depth was approximately 69 feet. Sediment accumulation in the bottom of the piezometer makes accurate total depth determination difficult.

The bed rock from the bottom of casing to a depth of 30.8 feet is shale that may be friable, or partially weathered. A prominent sandstone layer is present between 30.8 and 32.5 feet. From the base of the sandstone to the bottom of the piezometer, the bedrock is composed of shale with occasional sandstone stringers.

A bedding plane fracture is present at the shale-sandstone contact at a depth of 30.8 feet. This fracture does exhibit both a caliper response and an ATV response. This was the most prominent fracture identified during this investigation, but still would not be considered a major fracture. No additional fractures of joints were identified within this piezometer.

2.7 WD-PZ-14C

Piezometer WD-PZ-14C was cased to a depth of 10.6 feet, and had a total depth of approximately 46 feet, although accumulated sediments in the bottom of the piezometer made total depth determination difficult. A sandstone layer was present from the bottom of casing to a depth of 13 feet. Shale was present from the base of the sandstone at 13 feet, to the bottom of the piezometer. The shale is likely friable or slightly weathered based upon the caliper and ATV responses. There appeared to be a thicker accumulation of sediments in the bottom of this piezometer than in most of the others, which could suggest that the shale is softer, or more weathered than in other piezometers.

No bedding plane fractures, or joints were noted in the geophysical logs.

3.0 SUMMARY AND CLOSING

Geophysical well logs were completed in seven piezometers located in Study Area D. Piezometers logged included WD-PZ-08C through WD-PZ-14C. Total depths of the piezometers varied between 43 and 117 feet. The predominant lithology encountered was a fine grained, thinly bedded, friable shale. Piezometer WD-PZ-10C was shale throughout. Piezometer WD-PZ-08 penetrated shale, and terminated in a sandstone layer at the bottom. Piezometer WD-PZ-14C had a single layer of sandstone immediately at the bottom of casing, then was shale through the remainder of the piezometer. Piezometers WD-PZ-09C, WD-PZ-11C, WD-PZ-12C, and WD-PZ-13C all were composed of shale with occasional sandstone stringers, with piezometers WD-PZ-09C and WD-PZ-13C also having several thicker sandstone layers.

Bedding plane fractures were noted at upper contact of sandstone layers in WD-PZ-08C, and WD-PZ-13C. Neither of the bedding plane fractures identified would be considered a major fracture based on the caliper and ATV responses. No additional bedding plane fractures or joints were identified in the geophysical logs. The shale bedrock may be friable and easily broken, but no major cross-cutting planar structures were noted in the logs.

The data collection and interpretation methodologies used in this investigation are consistent with standard practices applied to similar geophysical investigations. The correlation of geophysical responses with probable subsurface features is based on the past results of similar surveys although it is possible that some variation could exist at this site.

4.0 REFERENCES

Young, S. C., Williams, N. J., Hurst, B. T., and Barton, D. H. (1996) Incorporation of sedimentological data into a groundwater model at Portsmouth, Ohio. Proceedings of the Model CARE 96 Conference held at Golden, Colorado. IAHS Publication no. 237, 1996.

Prepared by: Donald Jagel

Donald Jagel, P.G.
Senior Geophysicist
Advanced Geological Services
3 Mystic Lane
Malvern, PA 19355

attachments: Attachment 1: Geophysical logs of Piezometers WD-PZ-08C through WD-PZ-14C.

ATTACHMENT 1

GEOPHYSICAL WELL LOGS

WD-PZ-08C

ADVANCED GEOLOGICAL SERVICES

Geophysical Well Log

CO Fluor-B&W Portsmouth, LLC	**CLIENT**	Fluor-B&W Portsmouth, LLC	
WELL WD-PZ-08C	**WELL ID**	WD-PZ-08C	
FLD PORTS, Study Area D	**SITE**	PORTS, Study Area D	
CTY Piketon	**CITY**	Piketon	**STATE** Ohio
STE Ohio	LOCATION		OTHER SERVICES
FILING No	SEC	TWP	RGE

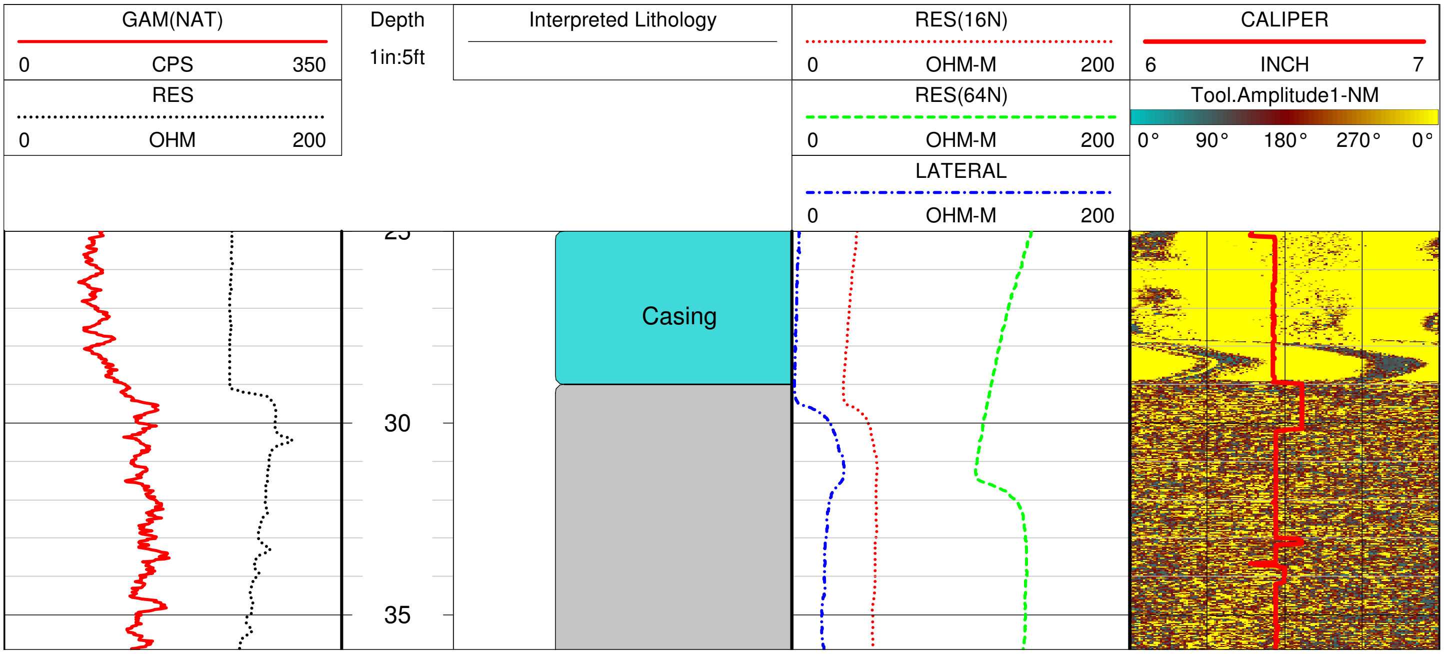
PERMANENT DATUM: Ground Surface ELEVATION 729.0 K.B.

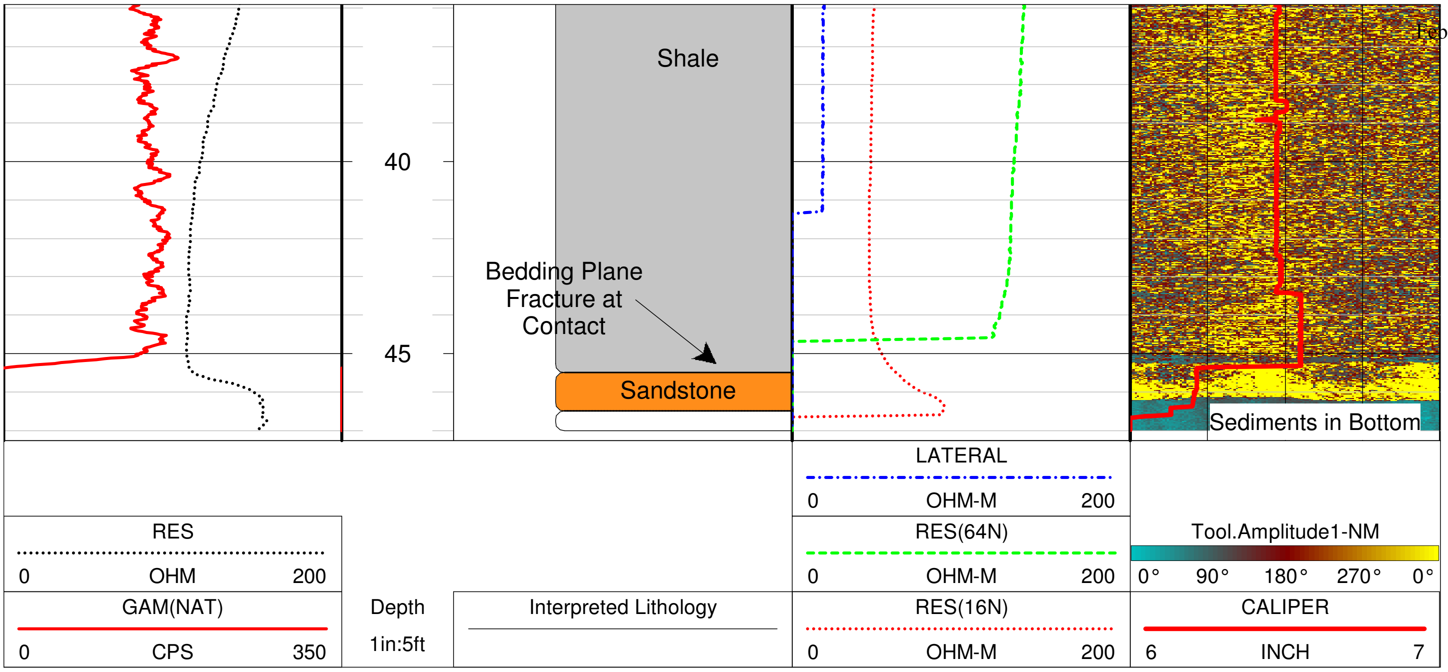
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM D.F.

DRILLING MEAS. FROM: G.L.

DATE	11/28/2011	TYPE FLUID IN HOLE	Water (added prior to logging)
RUN No		LEVEL	Top of casing
TYPE LOG	Standard & ATV		
DEPTH-DRILLER	48.0 ft.		
DEPTH-LOGGER	47 ft. (sediments in bottom)		
BTM LOGGED INTERVAL	47 ft.		
TOP LOGGED INTERVAL	25 ft.		
RECORDED BY	D. Jagel		
WITNESSED BY	D. Tackett		

REMARKS:




40
45
Shale
Bedding Plane Fracture at Contact
Sandstone
Sediments in Bottom
LATERAL
0 OHM-M 200
RES
0 OHM 200
RES(64N)
0 OHM-M 200
Tool.Amplitude1-NM
0° 90° 180° 270° 0°
GAM(NAT)
0 CPS 350
Depth
1in:5ft
Interpreted Lithology
RES(16N)
0 OHM-M 200
CALIPER
6 INCH 7

WD-PZ-09C

ADVANCED GEOLOGICAL SERVICES

Geophysical Well Log

CO **Fluor-B&W Portsmouth, LLC**
WELL **WD-PZ-09C**
FLD **PORTS, Study Area D**
CTY **Piketon**
STE **Ohio**
FILING No

CLIENT	Fluor-B&W Portsmouth, LLC		
WELL ID	WD-PZ-09C		
SITE	PORTS, Study Area D		
CITY	Piketon	**STATE**	Ohio

LOCATION

SEC TWP RGE

OTHER SERVICES

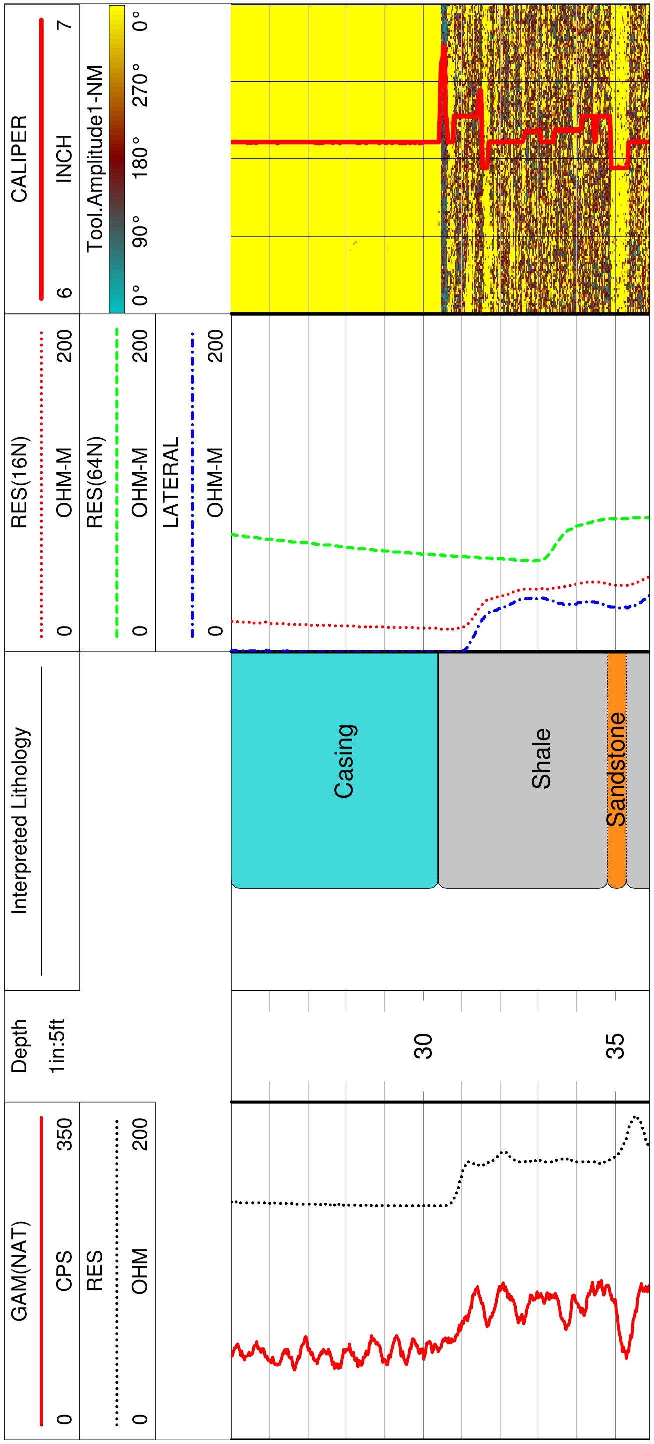
PERMANENT DATUM: Ground Surface ELEVATION 754.0 K.B.

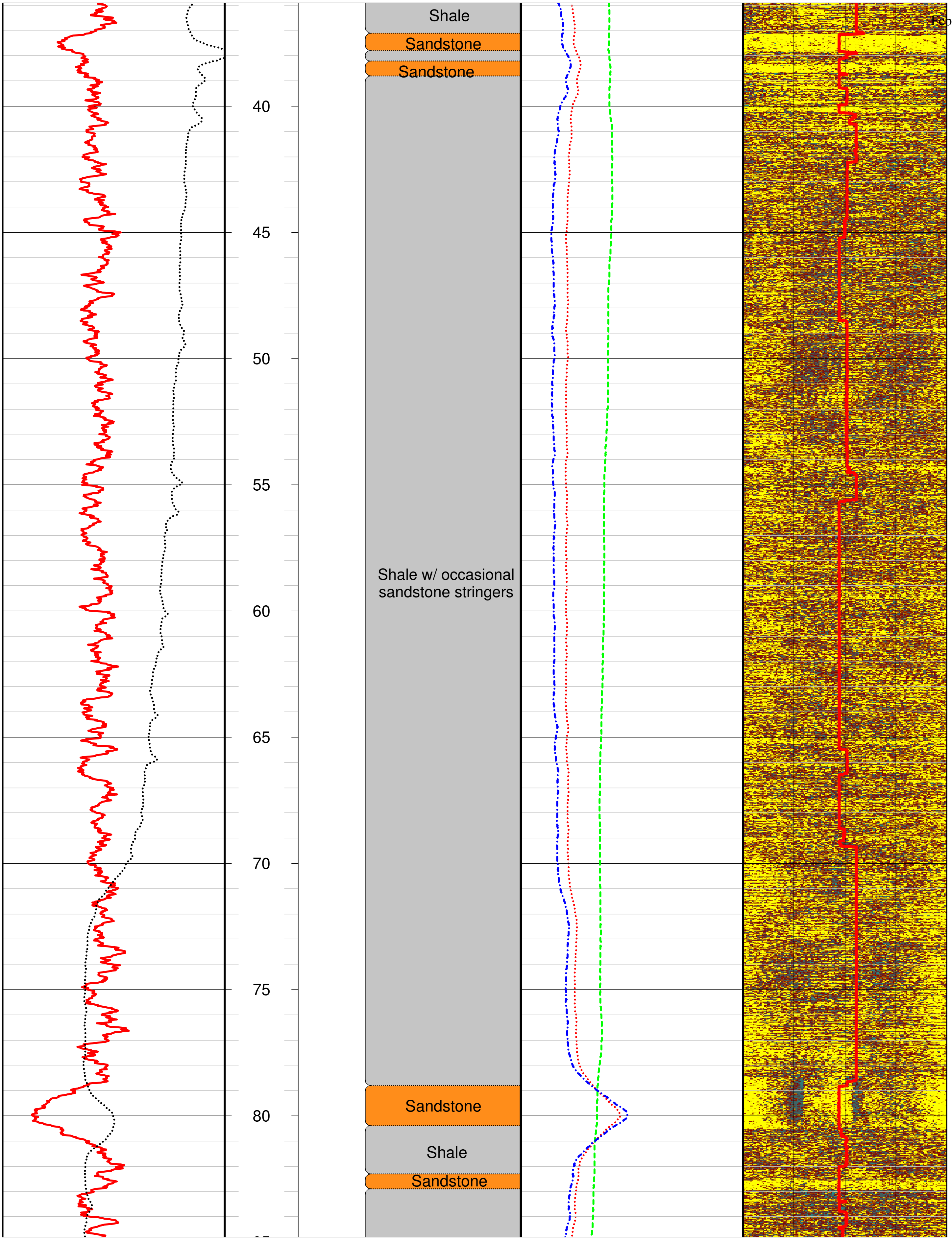
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM D.F.

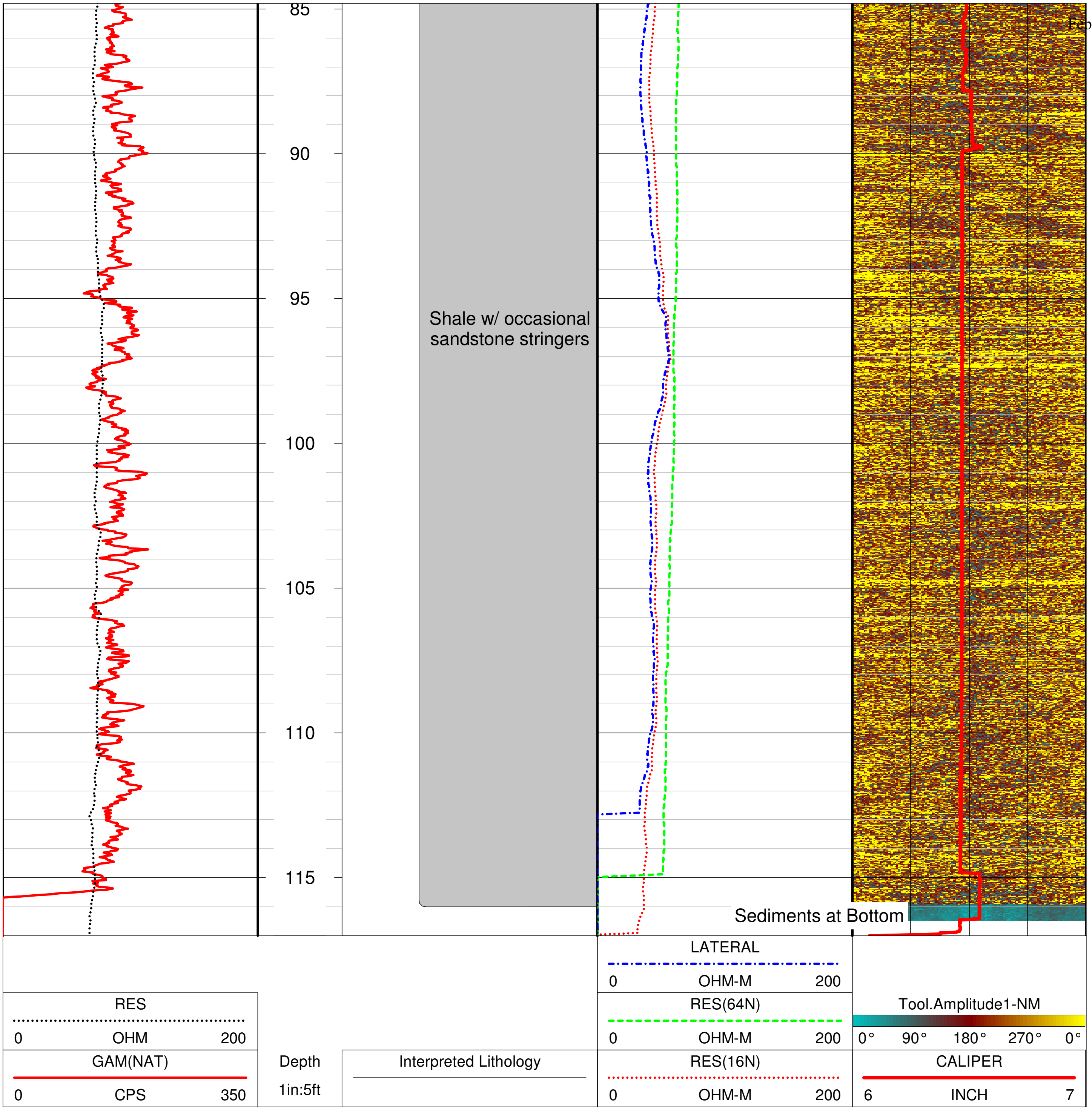
DRILLING MEAS. FROM: G.L.

DATE	11/30/2011	TYPE FLUID IN HOLE	Water (added pior to logging)
RUN No		LEVEL	Top of Casing
TYPE LOG	Standard & ATV		
DEPTH-DRILLER	117.1 ft.		
DEPTH-LOGGER	117 ft.		
BTM LOGGED INTERVAL	117 ft.		
TOP LOGGED INTERVAL	25 ft.		
RECORDED BY	D. Jagel		
WITNESSED BY	D. Tackett		

REMARKS:




40
45
50
55
60
65
70
75
80
Shale
Sandstone
Sandstone
Shale w/ occasional sandstone stringers
Sandstone
Shale
Sandstone


85
90
95
100
105
110
115
Shale w/ occasional sandstone stringers
Sediments at Bottom
LATERAL
0 OHM-M 200
RES
0 OHM 200
RES(64N)
0 OHM-M 200
Tool.Amplitude1-NM
0° 90° 180° 270° 0°
GAM(NAT)
0 CPS 350
Depth
1in:5ft
Interpreted Lithology
RES(16N)
0 OHM-M 200
CALIPER
6 INCH 7

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WD-PZ-10C

ADVANCED GEOLOGICAL SERVICES

Geophysical Well Log

CLIENT	Fluor-B&W Portsmouth, LLC
WELL ID	WD-PZ-10C
SITE	PORTS, Study Area D
CITY	Piketon **STATE** Ohio

CO Fluor-B&W Portsmouth, LLC
WELL WD-PZ-10C
FLD POSTS, Study Area D
CTY Piketon
STE Ohio
FILING No

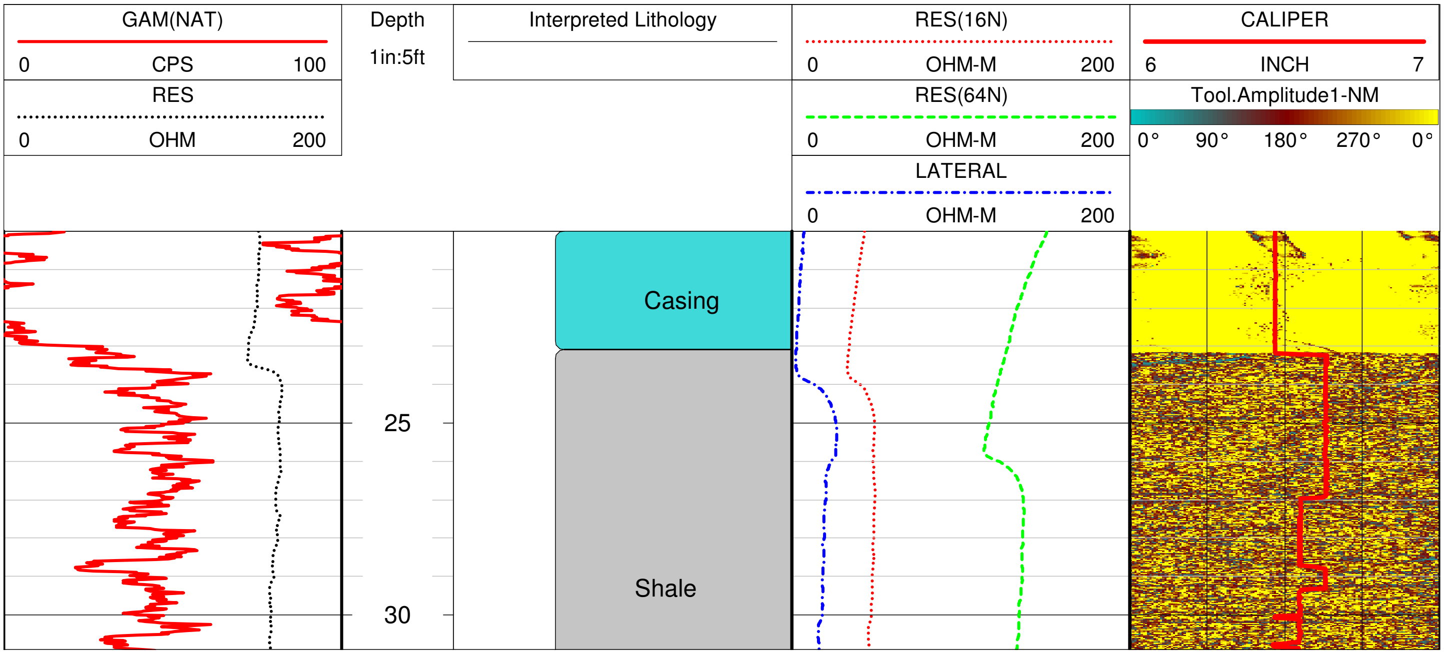
LOCATION
SEC TWP RGE

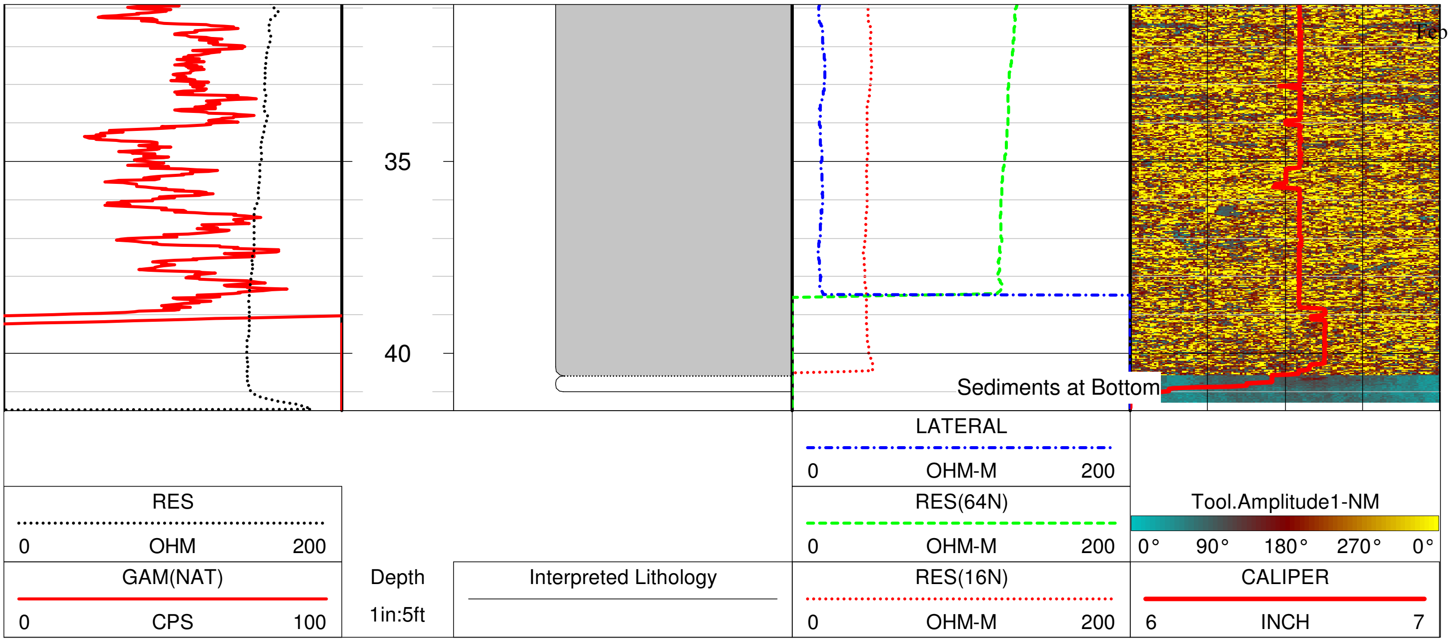
OTHER SERVICES

PERMANENT DATUM: Ground Surface ELEVATION 724.1 K.B.
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM D.F.
DRILLING MEAS. FROM: G.L.

DATE	11/29/2011	TYPE FLUID IN HOLE	Water (added prior to logging)
RUN No		LEVEL	Top of Casing
TYPE LOG	Standard & ATV		
DEPTH-DRILLER	43.1 ft.		
DEPTH-LOGGER	41.5 ft. (sediments in bottom)		
BTM LOGGED INTERVAL	41.5 ft.		
TOP LOGGED INTERVAL	20 ft.		
RECORDED BY	D. Jagel		
WITNESSED BY	D. Tackett		

REMARKS:




35
40
Sediments at Bottom
LATERAL
0 OHM-M 200
RES
0 OHM 200
GAM(NAT)
0 CPS 100
Depth
1in:5ft
Interpreted Lithology
RES(64N)
0 OHM-M 200
RES(16N)
0 OHM-M 200
Tool.Amplitude1-NM
0° 90° 180° 270° 0°
CALIPER
6 INCH 7

WD-PZ-11C

ADVANCED GEOLOGICAL SERVICES

Geophysical Well Log

CO Fluor-B&W Portsmouth, LLC
WELL WD-PZ-11C
FLD PORTS, Study Area D
CTY Piketon
STE Ohio
FILING No

CLIENT Fluor-B&W Portsmouth, LLC
WELL ID WD-PZ-11C
SITE PORTS, Study Area D
CITY Piketon **STATE** PA

LOCATION

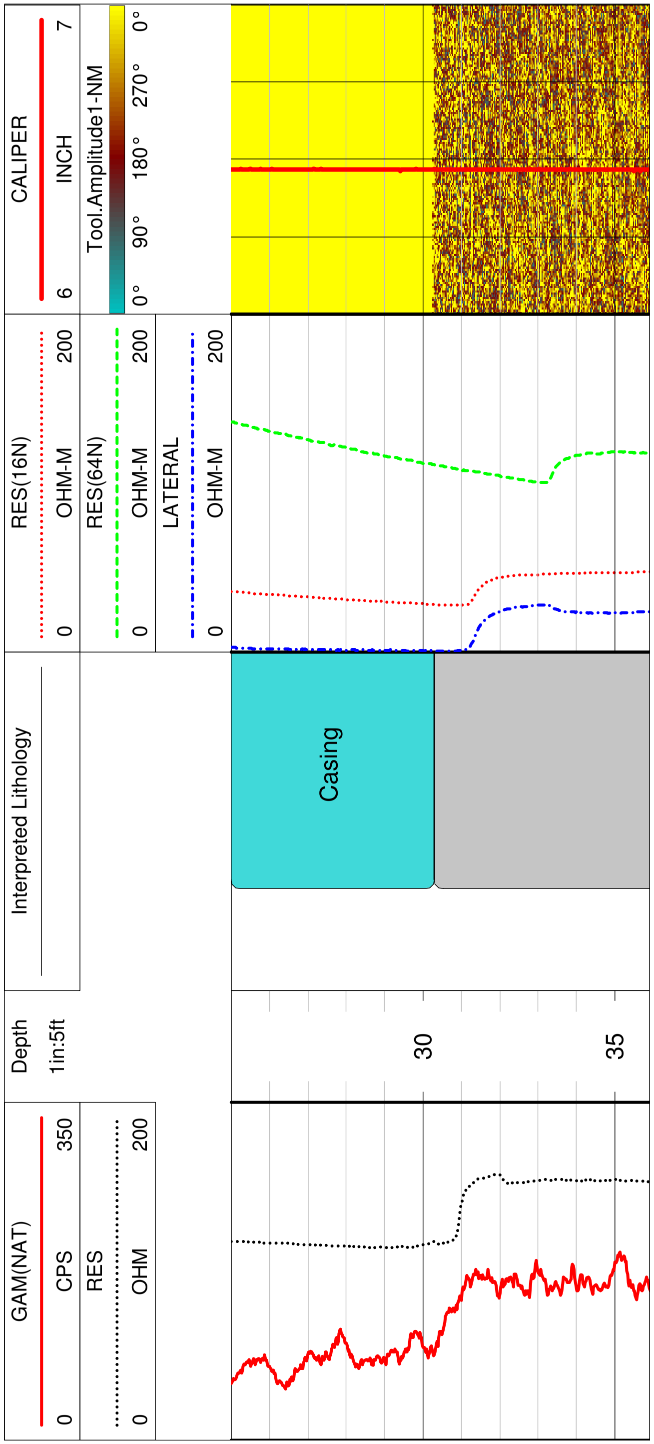
SEC TWP RGE

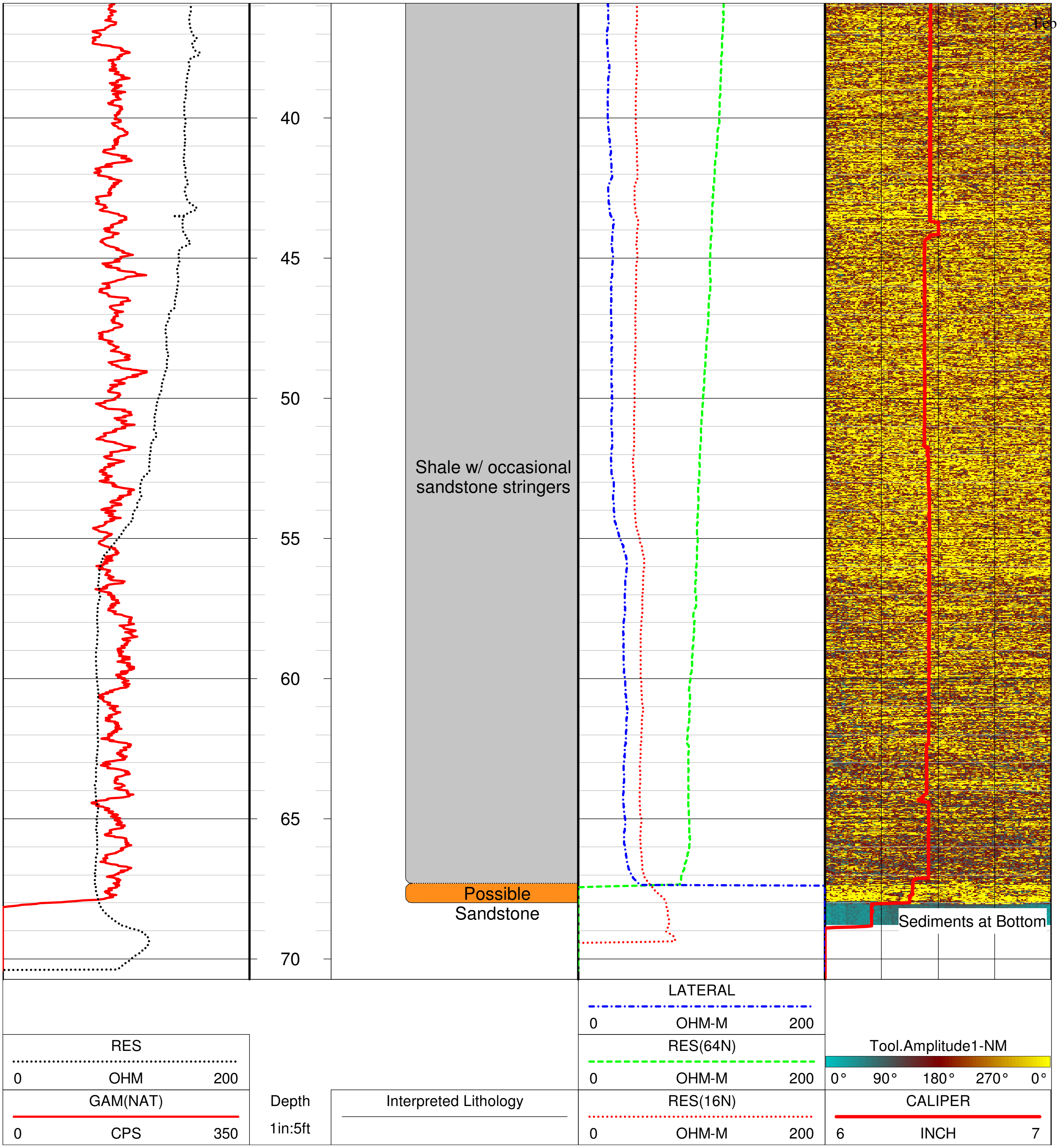
OTHER SERVICES

PERMANENT DATUM: Ground Surface ELEVATION 743.1 K.B.
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM D.F.
DRILLING MEAS. FROM: G.L.

DATE	11/30/2011	TYPE FLUID IN HOLE	Water (added prior to logging)
RUN No		LEVEL	Top of Casing
TYPE LOG	Standard & ATV		
DEPTH-DRILLER	67.7 ft.		
DEPTH-LOGGER	70 ft.		
BTM LOGGED INTERVAL	70 ft.		
TOP LOGGED INTERVAL	25 ft.		
RECORDED BY	D. Jagel		
WITNESSED BY	D. Tackett		

REMARKS:




40
45
50
55
60
65
70
Shale w/ occasional sandstone stringers
Possible Sandstone
Sediments at Bottom
LATERAL
0 OHM-M 200
RES(64N)
0 OHM-M 200
RES(16N)
0 OHM-M 200
RES
0 OHM 200
GAM(NAT)
0 CPS 350
Depth
1in:5ft
Interpreted Lithology
Tool.Amplitude1-NM
0° 90° 180° 270° 0°
CALIPER
6 INCH 7

WD-PZ-12C

Geophysical Well Log

CLIENT Fluor-B&W Portsmouth, LLC
WELL ID WD-PZ-12C
SITE PORTS, Study Area D
CITY Piketon **STATE** Ohio

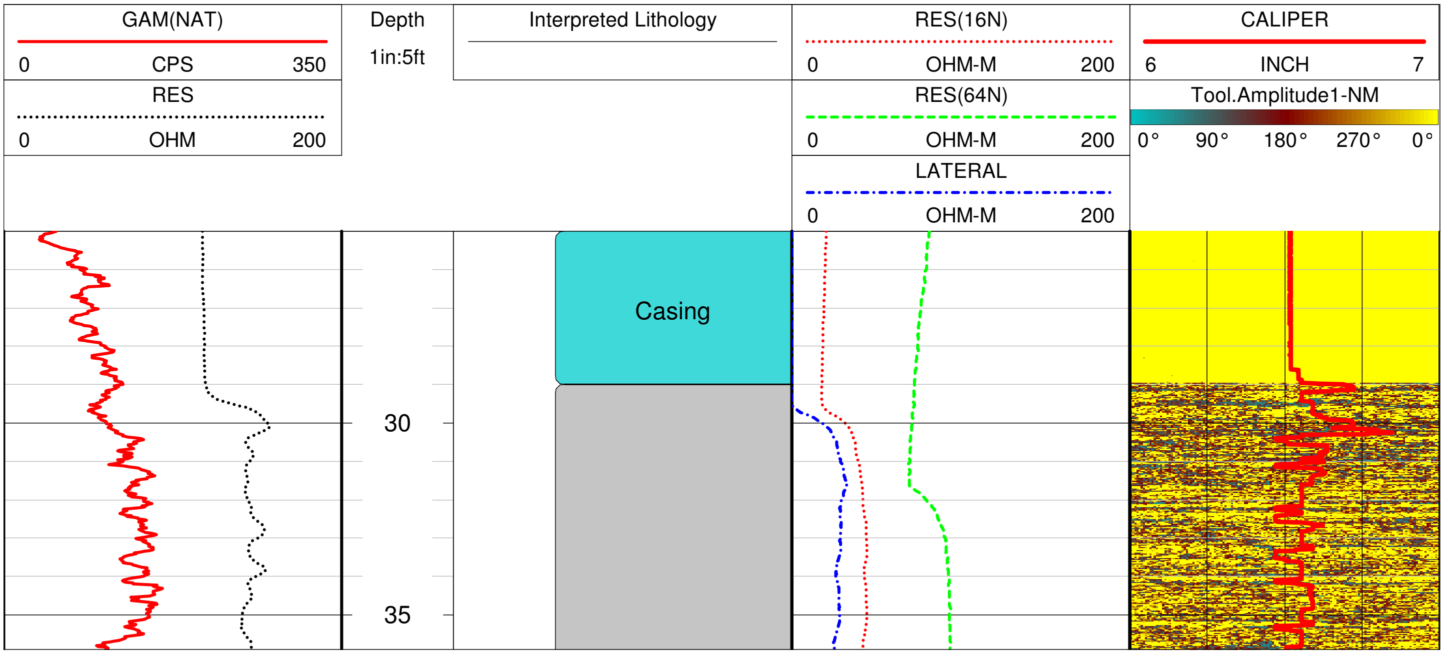
CO Fluor-B&W Portsmouth, LLC
WELL WD-PZ-12C
FLD PORTS, Study Area D
CTY Piketon
STE Ohio
FILING No

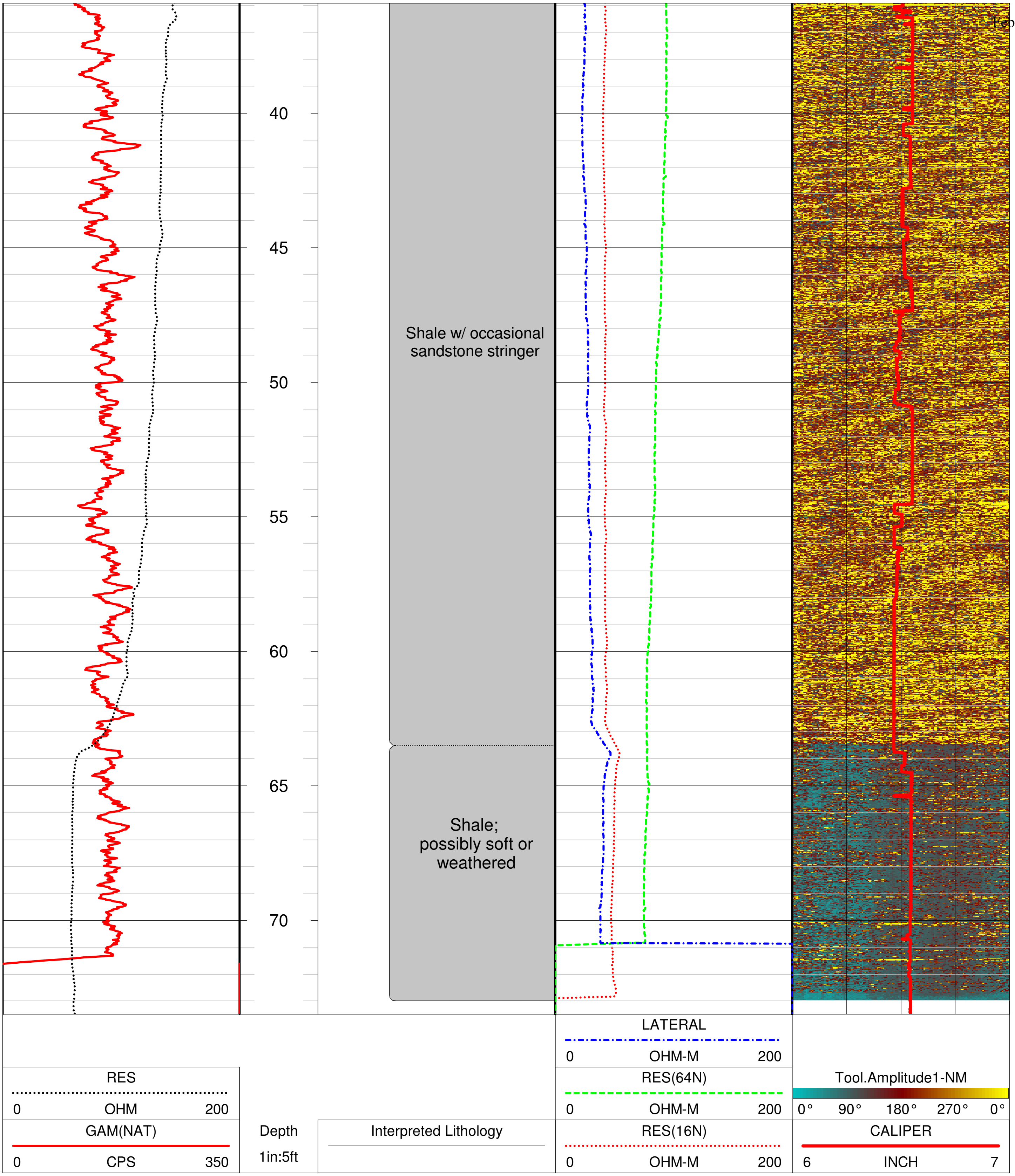
LOCATION
SEC TWP RGE
OTHER SERVICES

PERMANENT DATUM: Ground Surface ELEVATION 748.8 K.B.
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM D.F.
DRILLING MEAS. FROM: G.L.

DATE	11/30/2011	TYPE FLUID IN HOLE	Water (add prior to logging)
RUN No		LEVEL	Top of Casing
TYPE LOG	Standard & ATV		
DEPTH-DRILLER	73.5 ft.		
DEPTH-LOGGER	73.5 ft.		
BTM LOGGED INTERVAL	73.5 ft.		
TOP LOGGED INTERVAL	25 ft.		
RECORDED BY	D. Jagel		
WITNESSED BY	D. Tackett		

REMARKS:




40
45
50
55
60
65
70
Shale w/ occasional sandstone stringer
Shale; possibly soft or weathered
LATERAL
0 OHM-M 200
RES(64N)
0 OHM-M 200
RES(16N)
0 OHM-M 200
RES
0 OHM 200
GAM(NAT)
0 CPS 350
Depth
1in:5ft
Interpreted Lithology
Tool.Amplitude1-NM
0° 90° 180° 270° 0°
CALIPER
6 INCH 7

WD-PZ-13C

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ADVANCED GEOLOGICAL SERVICES

Geophysical Well Log

CO Fluor-B&W Portsmouth, LLC
WELL WD-PZ-13C
FLD PORTS, Study Area D
CTY Piketon
STE Ohio
FILING No

CLIENT	Fluor-B&W Portsmouth, LLC		
WELL ID	WD-PZ-13C		
SITE	PORTS, Study Area D		
CITY	Piketon	**STATE**	Ohio

LOCATION

SEC TWP RGE

OTHER SERVICES

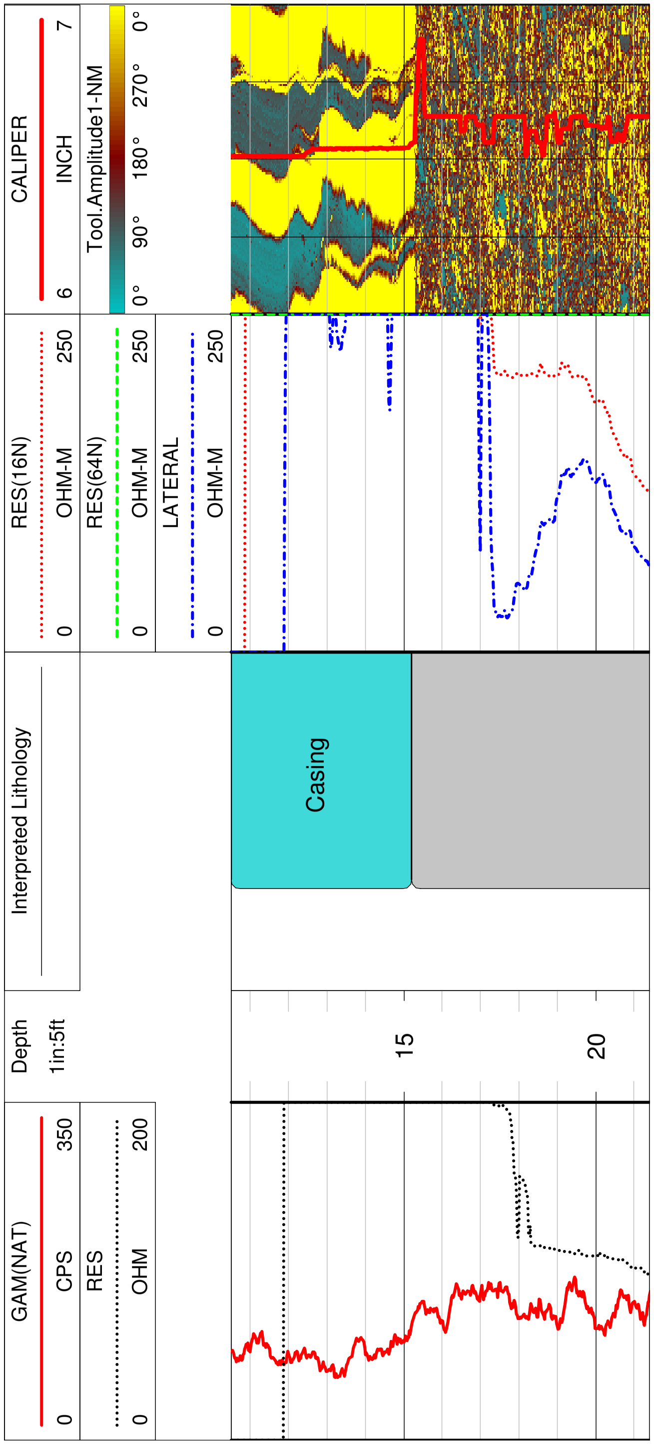
PERMANENT DATUM: Ground Surface ELEVATION 702.9 K.B.

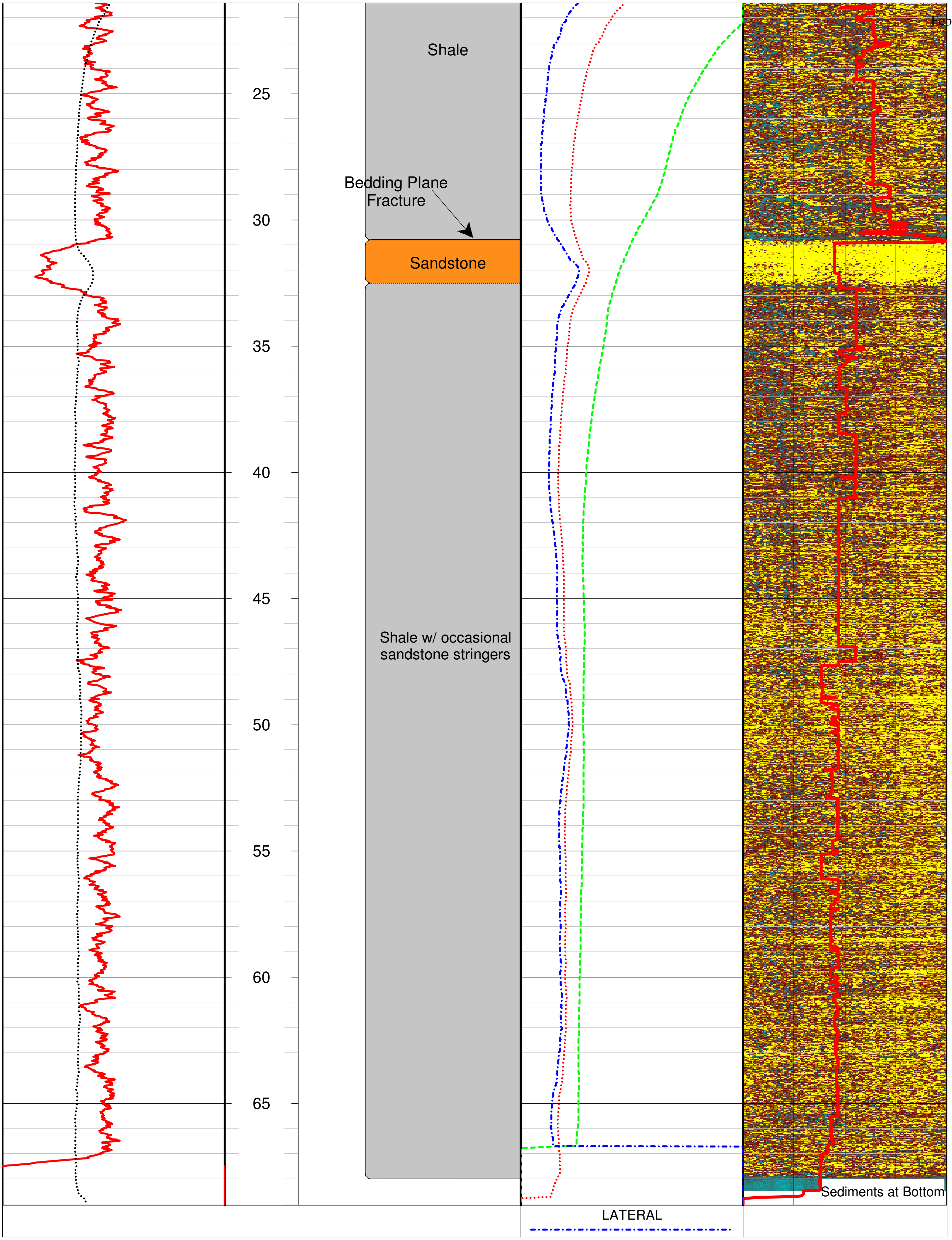
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM D.F.

DRILLING MEAS. FROM: G.L.

DATE	11/29/2011	TYPE FLUID IN HOLE	Water (added prior to logging)
RUN No		LEVEL	Top of Casing
TYPE LOG	Standard & ATV		
DEPTH-DRILLER	66.4 ft.		
DEPTH-LOGGER	69 ft.		
BTM LOGGED INTERVAL	69 ft.		
TOP LOGGED INTERVAL	10 ft.		
RECORDED BY	D. Jagel		
WITNESSED BY	D. Tackett		

REMARKS:




Shale
Bedding Plane Fracture
Sandstone
Shale w/ occasional sandstone stringers
25
30
35
40
45
50
55
60
65
LATERAL
Sediments at Bottom

			0 OHM-M 250	
RES 0 OHM 200			RES(64N) 0 OHM-M 250	Tool.Amplitude1-NM 0° 90° 180° 270° 0°
GAM(NAT) 0 CPS 350	Depth 1in:5ft	Interpreted Lithology	RES(16N) 0 OHM-M 250	CALIPER 6 INCH 7

WD-PZ-14C

Geophysical Well Log

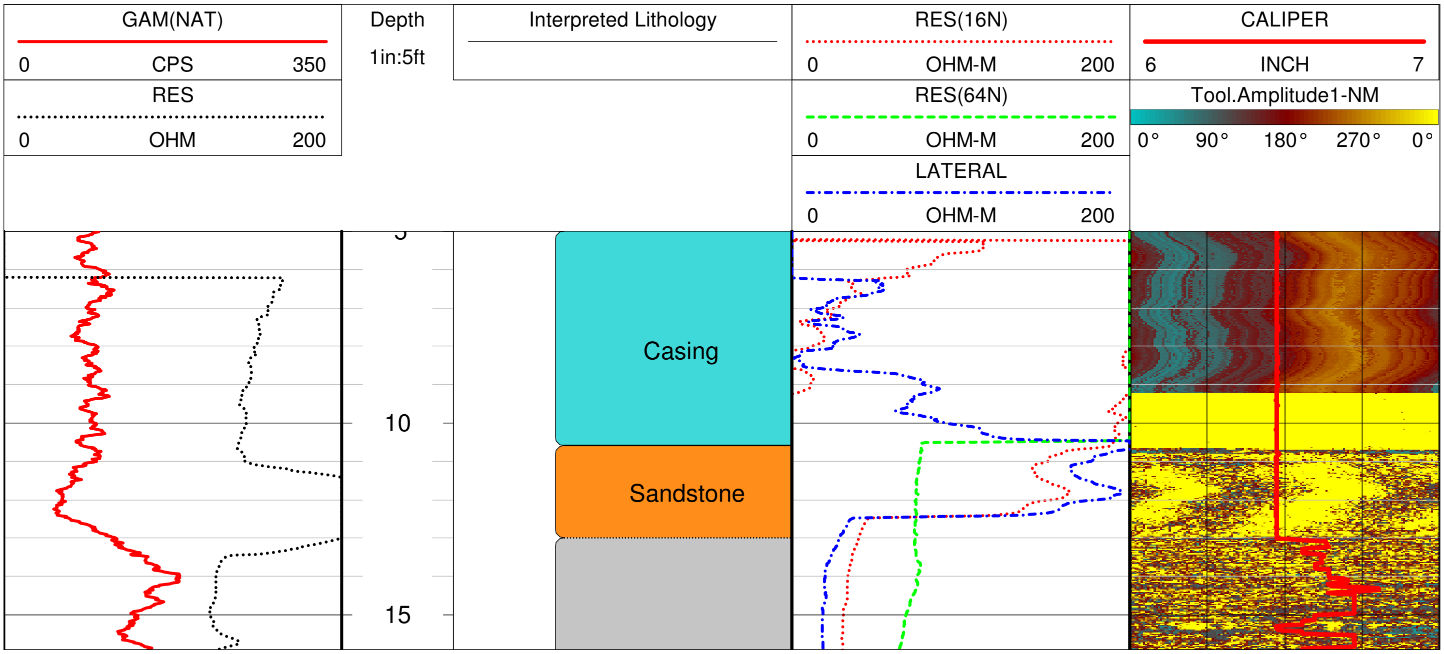
CLIENT Fluor-B&W Portsmouth, LLC
WELL ID WD-PZ-14C
SITE PORTS, Study Area D
CITY Piketon **STATE** Ohio

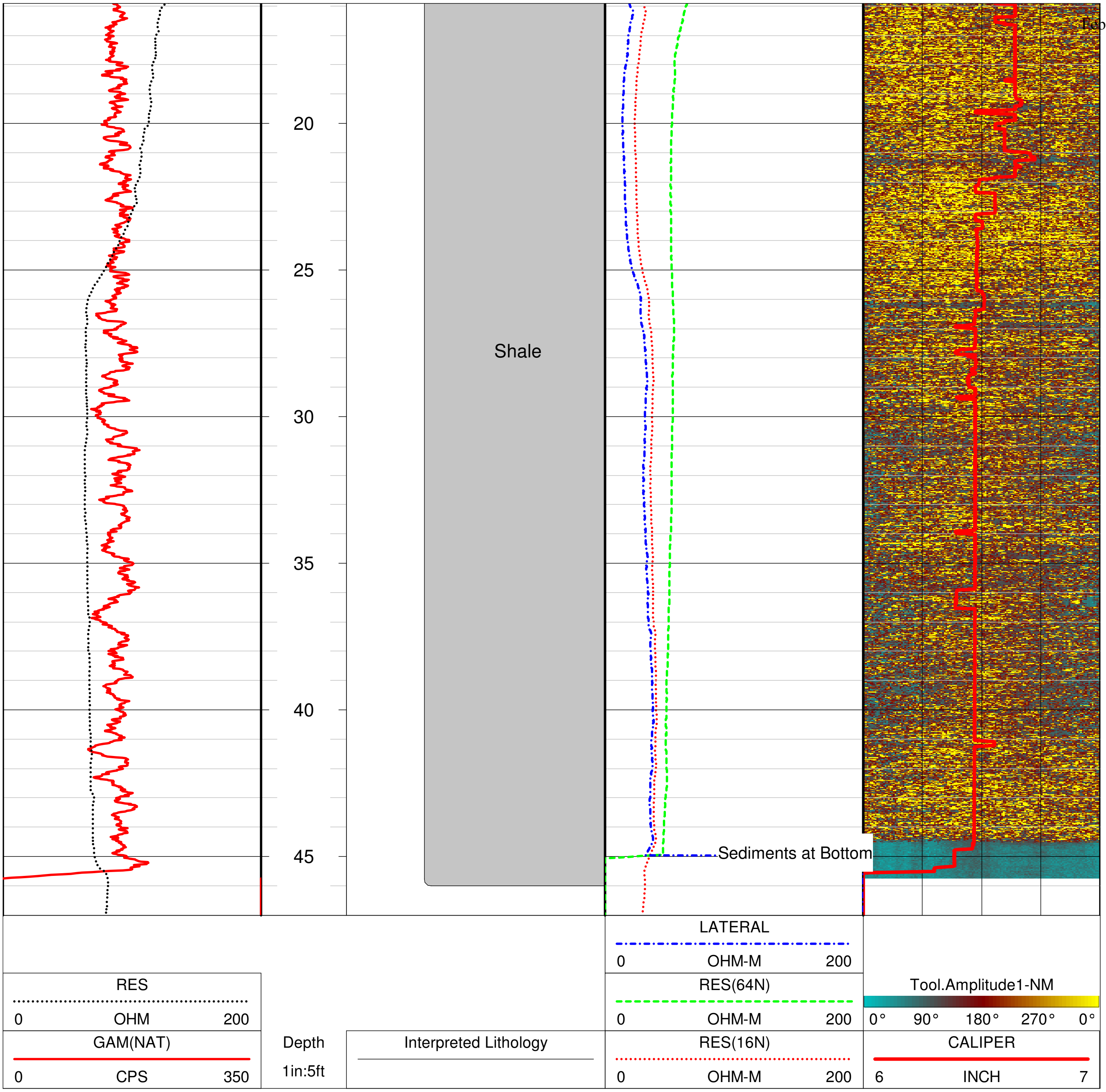
CO Fluor-B&W Portsmouth, LLC
WELL WD-PZ-14C
FLD PORTS, Study Area D
CTY Piketon
STE Ohio
FILING No

LOCATION
SEC TWP RGE
OTHER SERVICES

PERMANENT DATUM: Ground Surface	ELEVATION 695.8		K.B.
LOG MEAS. FROM: Ground Surface	ABOVE PERM. DATUM		D.F.
DRILLING MEAS. FROM:			G.L.
DATE	11/28/2011	TYPE FLUID IN HOLE	Water (added prior to logging)
RUN No		LEVEL	Top of Casing
TYPE LOG	Standard & ATV		
DEPTH-DRILLER	48.4 ft.		
DEPTH-LOGGER	47 ft.		
BTM LOGGED INTERVAL	47 ft.		
TOP LOGGED INTERVAL	5 ft.		
RECORDED BY	D. Jagel		
WITNESSED BY	D. Tackett		

REMARKS:




20
25
30
35
40
45
Shale
Sediments at Bottom
RES
0 OHM 200
GAM(NAT)
0 CPS 350
Depth
1in:5ft
Interpreted Lithology
LATERAL
0 OHM-M 200
RES(64N)
0 OHM-M 200
RES(16N)
0 OHM-M 200
Tool.Amplitude1-NM
0° 90° 180° 270° 0°
CALIPER
6 INCH 7

ADVANCED
GEOLOGICAL
SERVICES

3 Mystic Lane
Malvern, PA 19355
(610) 722-5500 (ph.)
(610) 722-0250 (fax)

AGS Reference: 13-156-1

GEOPHYSICAL WELL LOGGING REPORT

Prepared for: Flour-B&W Portsmouth LLC
TOR No.: TOR011
Contract No.: PO-0004760
Document: 004760-004-TOR011 Rev. 0

May 31, 2013

Subject: Geophysical Well Logging Results of WD-PZ-09, WD-PZ-12C, WD-PZ-15C, WD-PZ-18C, WD-PZ-20C, and WD-SB-40 in Study Area D
Portsmouth Gaseous Diffusion Plant
Piketon, Ohio

Advanced Geological Services (AGS) presents this submittal to Flour-B&W Portsmouth LLC (FBP) summarizing the geophysical well logging investigation completed by AGS on April 22 through April 25, 2013 at the Portsmouth Gaseous Diffusion Plant (PORTS) located in Piketon, Ohio. This work was completed in support of the Portsmouth Decontamination and Decommissioning Project.

Borehole image logs, that included an acoustic televiewer (ATV) log, an optical televiewer (OPTV) log and a borehole video were completed in several boreholes. The logs were completed to assist with determining the degree of fracturing present within the bedrock. Boreholes logged with ATV, OPTV, and borehole video included, WD-PZ-09C, WD-PZ-12C, WD-PZ-15C, WD-PZ-18C, and SB-40.

One additional borehole, WD-PZ-20C, was logged with OPTV, and the bottom portion, below the standing water level, was logged with ATV. The logs in WD-PZ-20C were completed to determine if any significant bedrock fractures were present in the bottom several feet of the borehole that could effect the ability to place grout in the borehole.

LOCAL GEOLOGY

The bedrock encountered in the study area is part of the Waverly Group, of Mississippi age (Young, et al., 1996). The formations present at the locations of the piezometers included, from oldest to youngest, the Berea Formation, the Sunbury Formation and the Cuyahoga Formation. All of the boreholes logged were completed in the Cuyahoga Formation, which is the uppermost bedrock unit in the study area. The Cuyahoga Formation is a composed of shale and sandstone beds. Regionally, bedrock at dips towards the southeast at an angle of less than 0.5º (25 to 30 feet per mile) (Young, et al., 1996). Of particular interest was prominent a sandstone bed 1.8-2 feet thick, locally encountered at an approximate elevation of 680 feet, that has been referred to as the 680-foot Sandstone by the FBP personnel.

1.0 METHODOLOGY

A suite of borehole image logs was completed in each of the open boreholes.

The borehole image logs that were collected for this investigation include:

- Digital Acoustic Televiewer (ATV)
- Optical Televiewer (OPTV)
- Borehole Video

The ATV logs and the OPTV logs were acquired with a Mount Sopris Matrix logging system. The borehole video was recorded with a Well-Vu digital borehole video system.

1.1. ACOUSTIC TELEVIEWER (ATV) LOGS

The acoustic televiewer log provides an oriented high-resolution image of the borehole using high-resolution sound waves. The oriented image of the borehole can be presented in both amplitude and travel time. Results from this tool provide location and orientation information of features such as fractures, lithologic contacts and cavities, as well as relative smoothness of the sidewalls of the well bore. The relative smoothness of the well bore sidewalls can be used qualitatively in conjunction with other logs to assist with characterizing the bedrock lithology, or degree of weathering. The ATV digitizes up to 244 measurements around the borehole every 0.02 feet along the length of the borehole. Since the acquired image is digitized and properly oriented with respect to borehole deviation and tool rotation, it allows data processing to provide accurate strike and dip information of structural features. A fluid filled borehole is required to collect an ATV log. ATV logs can be acquired through murky, sediment laden, or opaque fluids. ATV logs cannot be acquired in an air filled well.

1.2. OPTICAL TELEVIEWER (OPTV) LOGS

The optical televiewer log provides an oriented, high-resolution, 360-degree photographic image of the borehole in either an air-filled, or water filled borehole. The OPTV tool is ineffective in wells that have a murky water column, or contains suspended sediment thus hindering water clarity. The oriented image of the borehole is presented in unwrapped format on the log. Results from this tool provide location, color, and orientation information of features such as fractures, lithologic contacts and cavities. The acquired image is digitized and properly oriented with respect to borehole deviation and tool rotation. Processing of the resulting image can provide accurate strike and dip information of fractures and other structural features.

1.3. BOREHOLE VIDEO LOGS

Borehole video is a downward looking video camera that provides a video record of the borehole. Video logging units provide an on-screen depth counter. Borehole video logs are useful for the visual inspection of lithologic changes, fracture identification, identification of contaminant staining, borehole construction inspection, and casing inspection. Video logs require good water clarity within the well to be useful. Video logs are not oriented with respect to north, so it is not possible to determine accurate orientations of fractures, bedding, or other bedrock structures.

2.0 RESULTS AND DISCUSSION

Piezometers WD-PZ-09C, WD-PZ-12C, WD-PZ-15C, WD-PZ-18C, WD-PZ-20C, and WD-SB-40 were logged during this investigation. All piezometers were 6-inch diameter, and had steel casing. WD-SB-40 was 4-inch PVC cased, and the uncased portion was 3.75-inch diameter.

Peizometers WD-PZ-09C and WD-PZ-12C had been previously logged with a suite of standard logs, and ATV. The logs from those boreholes were completed in 2011, and were presented and summarized in Document Submittal 0000059-22.

Prior to logging, the water levels in the boreholes were below the bottom of the casing. At each borehole, except WD-PZ-20C, borehole video and OPTV logs were completed, then the borehole was filled with water to allow collection of the ATV log. In WD-PZ-20C, the OPTV log was completed, then the ATV log was completed in the portion of the borehole below the standing water level. No water was added to WD-PZ-20C.

The bedrock encountered in each of the boreholes was predominantly fine-grained, thinly bedded shale, with occasional thin sandstone layers. The sandstone, when present, was most commonly less than 2 to 3 inches inches thick. The thickest sandstone bed encountered was the 680-foot Sandstone, that was approximately 1.8-2 feet thick. A prominent sandstone bed approximately 6 inches thick was also present approximately 2 feet below the base of the 680-foot Sandstone.

Overall, the quality of the borehole image logs was very good. The quality of the borehole video and the OPTV log were very clear in the air filled portions of the boreholes, and were slightly affected by the presence of suspended sediments below the water table. The borehole video was generally more sensitive to the presence of suspended sediments than the OPTV. The ATV logs are generally less sensitive to suspended sediments than the borehole video, or the OPTV, although heavily sediment laden liquids that are acoustically similar to the bedrock will produce little signal response.

The geophysical well logs are provided as an attachment to this report. Depths of all the logs are relative to the ground surface. Results and interpretations from the geophysical logs of each of the boreholes will be briefly described and discussed below.

2.1. WD-PZ-09C

Piezometer WD-PZ-09C had been logged previously with the ATV tool and the standard suite of logs that included a 3-arm caliper, natural gamma, single point resistance, 16-inch resistivity, 64-inch resistivity, and a calculated 40-inch lateral resistivity log. The bottom of casing is at a depth of approximately 30.8 feet. Water level in the well was at a depth of approximately 70.8 feet. The total depth of the borehole measured at the time of logging was 115.5 feet.

The 680-foot Sandstone extends from a depth of 78.8 feet to 80.8 feet. When logged in 2011, an anomalous feature was noted by reviewers in ATV log of the 680-foot Sandstone bed. The question was, was this anomalous feature a portion of a vertically oriented joint cross-cutting though the southwest side of the borehole. This anomalous feature was not observed in the shale above or below the sandstone, and there was no significant deflection of the 3-arm caliper that would indicate a widening of the borehole commonly observed if there is any significant open aperture associated with a fracture.

This same anomalous feature was again noted during completion of the ATV log during current logging activities, and was also observed in the OPTV log. Poor water clarity and glare from the LED light source for the video log kept this anomaly from being recognized in the video log. The OPTV log does indicate that this feature is likely related to a vertical joint the penetrates the 680-foot Sandstone bed, but not the adjacent shale above or below the sandstone. The OPTV log also indicates that potential iron staining occurs along this fracture.

A number of sandstone stringers and thin beds were present throughout the well, but no additional fractures were noted in the image logs of the bedrock.

2.2. WD-PZ-12C

Piezometer WD-PZ-12C was cased to a depth of 29.8 feet and has a total depth of approximately 81 feet. Standing water level was approximately 66 feet deep at the time of logging activities. WD-PZ-12C was also logged in 2011. When previously logged in 2011, the total depth was 73 feet, and it did not penetrated the 680-foot Sandstone layer. The borehole was deepened between 2011 and the time that the recent borehole image logs were completed to penetrate the 680-foot Sandstone. The 680-foot Sandstone was encountered during the current logging at a depth of 74.5-76.6 feet.

A potential vertical joint cross-cuts the 680-foot Sandstone, similar to that encountered in WD-PZ-09C. This joint is better defined than that observed in WD-PZ-09C, with fracturing clearly evident in the OPTV log. This fracture does not penetrate into the shale above or below the 680-foot Sandstone bed. There is also a potential bedding plane parting/fracture at the upper sandstone-to-shale interface of the 680-foot Sandstone recognizable in both the ATV and OPTV logs that appears to have a minor aperture, and could potentially transmit water. No additional fractures were recognized in any of the borehole logs.

2.3. WD-PZ-15C

Piezometer WD-PZ-15C was cased to a depth of 17 feet, with a total depth of 67.6 feet. Water was encountered at a depth of 42 feet. The borehole penetrated was predominantly shale with a number of thin sandstone stringers or lenses above the 680-foot Sandstone. The top of the 680-foot Sandstone was at a depth of 65.9 feet, and the bottom of the 680-foot Sandstone was not visible in the borehole before the bottom of the borehole was encountered.

No fractures were noted in the exposed portion of the 680-foot Sandstone, or in any of the other portions within this borehole.

2.4. WD-PZ-18C

Borehole WD-PZ-18C was cased to a depth of 13 feet, with a total depth of 94 feet. Water level prior to filling the borehole was at a depth of approximately 86.6 feet. Below the casing, the bedrock was weathered with fractures visible to a depth of approximately 26 feet. Between a depth of 26 feet and 33 feet, the bedrock was still visibly weathered, but noticeably less fractured. Below a depth of 33 feet the bedrock appeared to be un-weathered, and un-fractured.

The 680-foot Sandstone was encountered between 86.9 to 88.8 feet, and was not fractured at this location. The 6-inch thick sandstone bed below the 680-foot Sandstone was observed at a depth of 91.2 feet.

The OPTV log and the borehole video were collected before filling the borehole with water. Filling the borehole with water dislodged loose material from the weathered portion of the sidewall that settled to the bottom of this borehole. When completing the ATV log after filling the borehole with water, the ATV tool was only able to get a response to a depth of 88.8. Thick sediments appear to have settled to the base of the borehole making it impossible to get a response from the ATV tool below 88.8 feet.

2.5. WD-PZ-20C

WD-PZ-20C was logged to assist with the placement of grout in the bottom of the borehole. Although not originally scheduled to be logged, FBP requested that AGS inspect the bottom of the borehole to determine if any fractures were present that could allow grout to escape from the piezometer. WD-PZ-20C was logged with the OPTV tool, and the bottom several feet of the borehole was also logged with the ATV tool. No borehole video was completed, and no water was added to the borehole to allow an ATV log of the entire length of the borehole.

WD-PZ-20C had a total depth of 78.8 feet, and was cased to 18.8 feet. At the time the log was completed, there was a combination of water and grout present at a depth of 76.2 feet. The 680-foot Sandstone was located between 66 and 68 feet deep. Based on the OPTV log, the bedrock appears to be weathered to a depth of approximately 30 feet. Below the weathered zone, the bedrock was composed of shale with occasional sandstone stringers. No fractures were noted with the OPTV within the air filled portion of the borehole. It was not possible to get an OPTV image below the water table because of the poor clarity of the water/grout mixture in the bottom of the borehole. The ATV tool was run to inspect the water/grout filled portion of the borehole for the presence of any potential fractures. The water/grout mixture thickened as the bottom of the borehole was approached as indicated by the decreasing response from the ATV tool. No fractures were identified in the ATV log of the water/grout filled portion of the borehole.

2.6. *WD-SB-40*

Borehole WD-SB-40 was an open core-hole that was cased with 4-inch diameter PCV to a depth of 10.8 feet. Below the casing, the open hole was approximately 3.75 inches in diameter. Depth to the standing water level prior to adding water to the borehole was approximately 33 feet. Generally, the borehole video of this soil boring was of slightly better quality than the videos of the other boreholes encountered during this logging event because of the slightly narrower borehole diameter, and the hole had not been over-drilled following coring.

Borehole video and OPTV logs indicated that the bedrock from the bottom of casing to a depth of approximately 26 feet was weathered and had a number of nearly horizontal bedding plane fractures. The bedrock in the weathered zone appeared to consist of shale with numerous sandstone stringers. Between the depth of 28 and 30 feet there are three sandstone beds present that are each approximately 3-4 inches thick. Below 30 feet the sandstone beds become thinner and less frequent, but still easily identifiable.

The 680-foot Sandstone layer is between the depth of 71.8 and 72.7 feet. The common 6-inch sandstone layer beneath the 680-foot sandstone is at a depth of 75 feet.

Water was added to the top of the borehole to complete the ATV log The water quickly drained to a depth of 26 feet before the ATV log was collected. The vertical dark streaks present in the ATV log are the result of centering issues with the ATV tool within the borehole as a result in the decrease in hole diameter below the PVC casing. The centralizers were adjusted three times to try to improve the ATV log, and the log presented is the best result achieved. The ATV log clearly shows the locations of the sandstone layers within the boring.

3.0 SUMMARY AND CLOSING

Geophysical image well logs were completed in six boreholes located in Study Area D. Borehole image logs were completed in WD-PZ-09C, WD-PZ-12C, WD-PZ-15C, WD-PZ-18C, WD-PZ-20C, and WD-SB-40. The predominant lithology encountered was a fine grained, thinly bedded, friable shale with stringers of sandstone. A prominent, approximately 2-foot thick sandstone bed that had been described as the 680-foot Sandstone, because it is at an approximate elevation of 680 feet, was present in all boreholes logged.

Shallow, weathered bedrock zones were encountered in WD-PZ-18C, WD-PZ-20C, and WD-SB-40. These weathered zones did include some degree of bedrock fracturing. Generally, the un-weathered portions of all boreholes were free of bedrock fractures, with the exception of the 680-foot Sandstone encountered in WD-PZ-09C, and WD-PZ-12C, that had possible vertical oriented joints/fractures. These potential fractures did not appear to extend into the shale units above, or below the 680-foot Sandstone.

The data collection and interpretation methodologies used in this investigation are consistent with standard practices applied to similar geophysical investigations. The correlation of geophysical responses with probable subsurface features is based on the past results of similar surveys although it is possible that some variation could exist at this site.

4.0 REFERENCES

Young, S. C., Williams, N. J., Hurst, B. T., and Barton, D. H. (1996) Incorporation of sedimentological data into a groundwater model at Portsmouth, Ohio. Proceedings of the Model CARE 96 Conference held at Golden, Colorado. IAHS Publication no. 237, 1996.

Prepared by: Donald Jagel

Donald Jagel, P.G.
Senior Geophysicist
Advanced Geological Services
3 Mystic Lane
Malvern, PA 19355

attachments: Attachment 1: Geophysical image logs of WD-PZ-09C, WD-PA-12C, WD-PZ-15C, WD-PZ-18C,WD-PZ-20C, and WD-SB-40.
Attachment 2: DVD containing borehole video logs of WD-PZ-09C, WD-PA-12C, WD-PZ-15C, WD-PZ-18C, and WD-SB-40.

ATTACHMENT 1

GEOPHYSICAL WELL LOGS

WD-PZ-09C

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ADVANCED GEOLOGICAL SERVICES

Acoustic Televiewer/Optical Televiewer

CO **Fluor B&W**
WELL **WD-PZ-09C**
FLD **PORTs OSDC Area D**
CTY **Piketon**
STE **Ohio**
FILING No

CLIENT Fluor B&W
WELL ID WD-PZ-09C
SITE Portsmouth Gaseous Diffusion Plant; OSDC Area D
CITY Piketon **STATE** Ohio

LOCATION

SEC TWP RGE

OTHER SERVICES

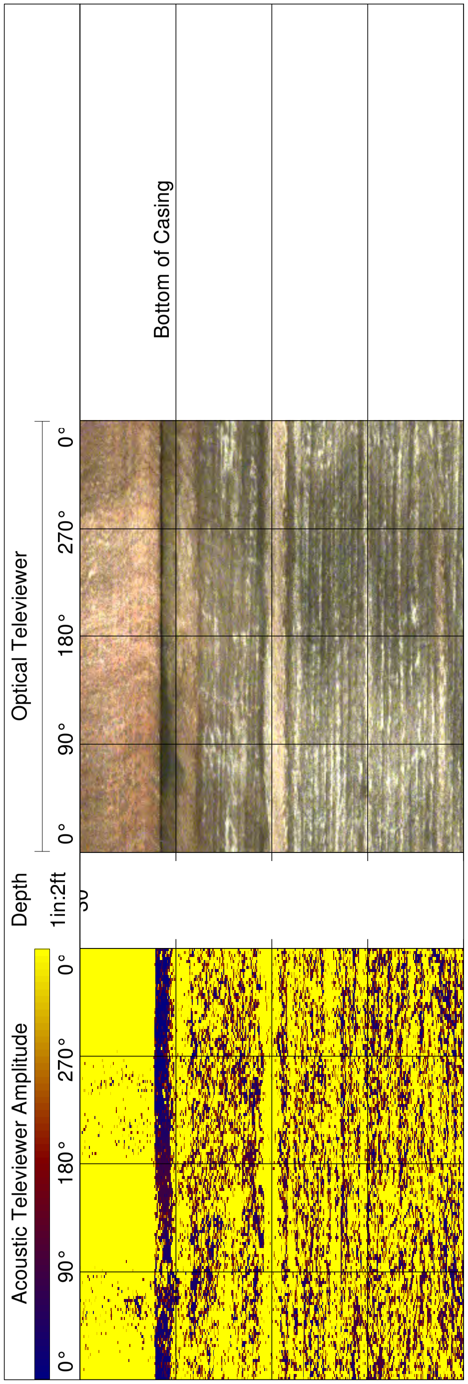
PERMANENT DATUM:______ ELEVATION______ K.B.

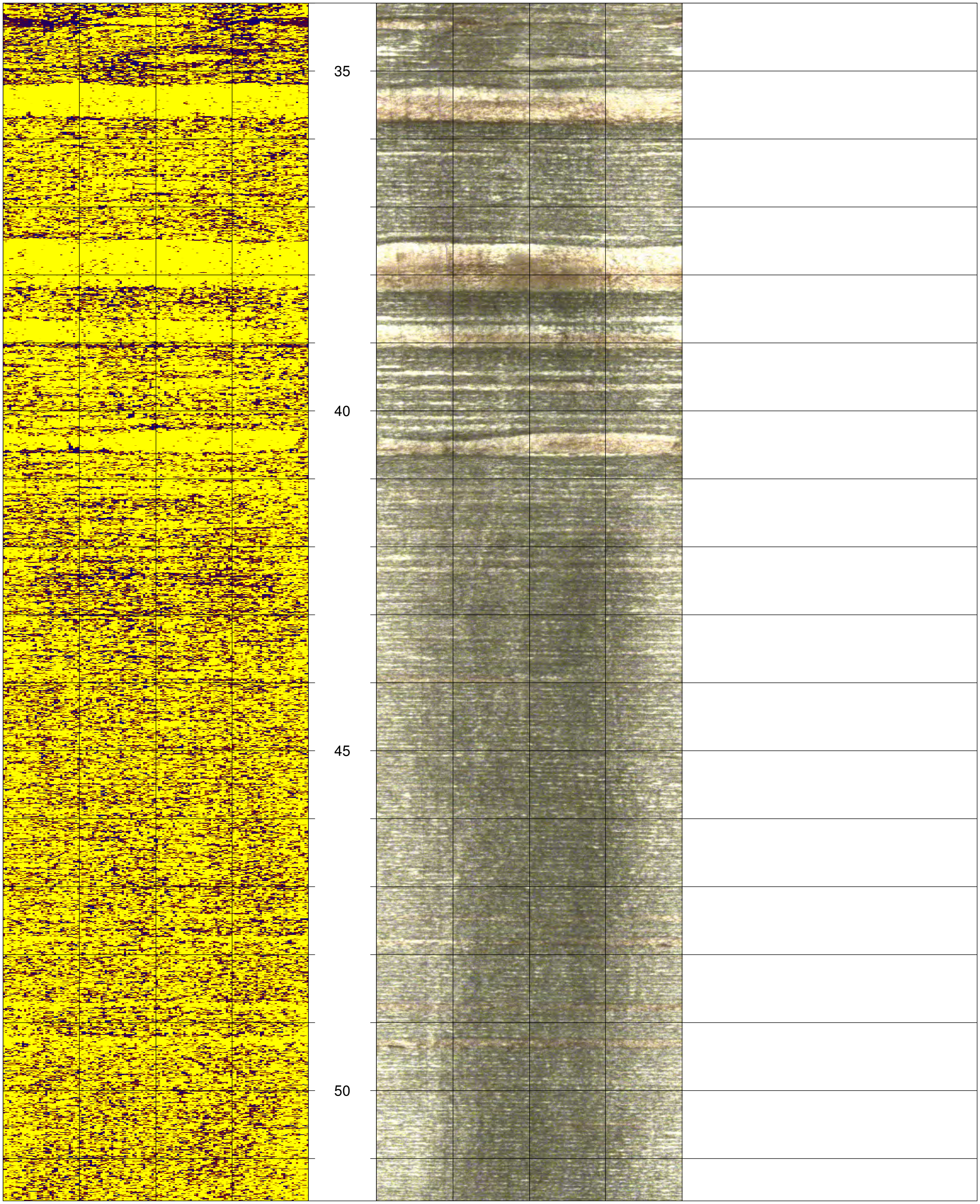
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM______ D.F.

DRILLING MEAS. FROM:______ G.L.

DATE	4/23/2013	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	
TYPE LOG	Image Logs	DENSITY	
DEPTH-DRILLER		LEVEL	Approx. 70.8 ft.
DEPTH-LOGGER		MAX. REC. TEMP.	
BTM LOGGED INTERVAL	116 ft.		
TOP LOGGED INTERVAL	30 ft.		
OPERATING RIG TIME			
RECORDED BY	D. Jagel		
WITNESSED BY			

REMARKS: Casing Stick-up Height: 1.94 ft.
Well was filled with water following completion of OPTV log to allow collection of ATV log.

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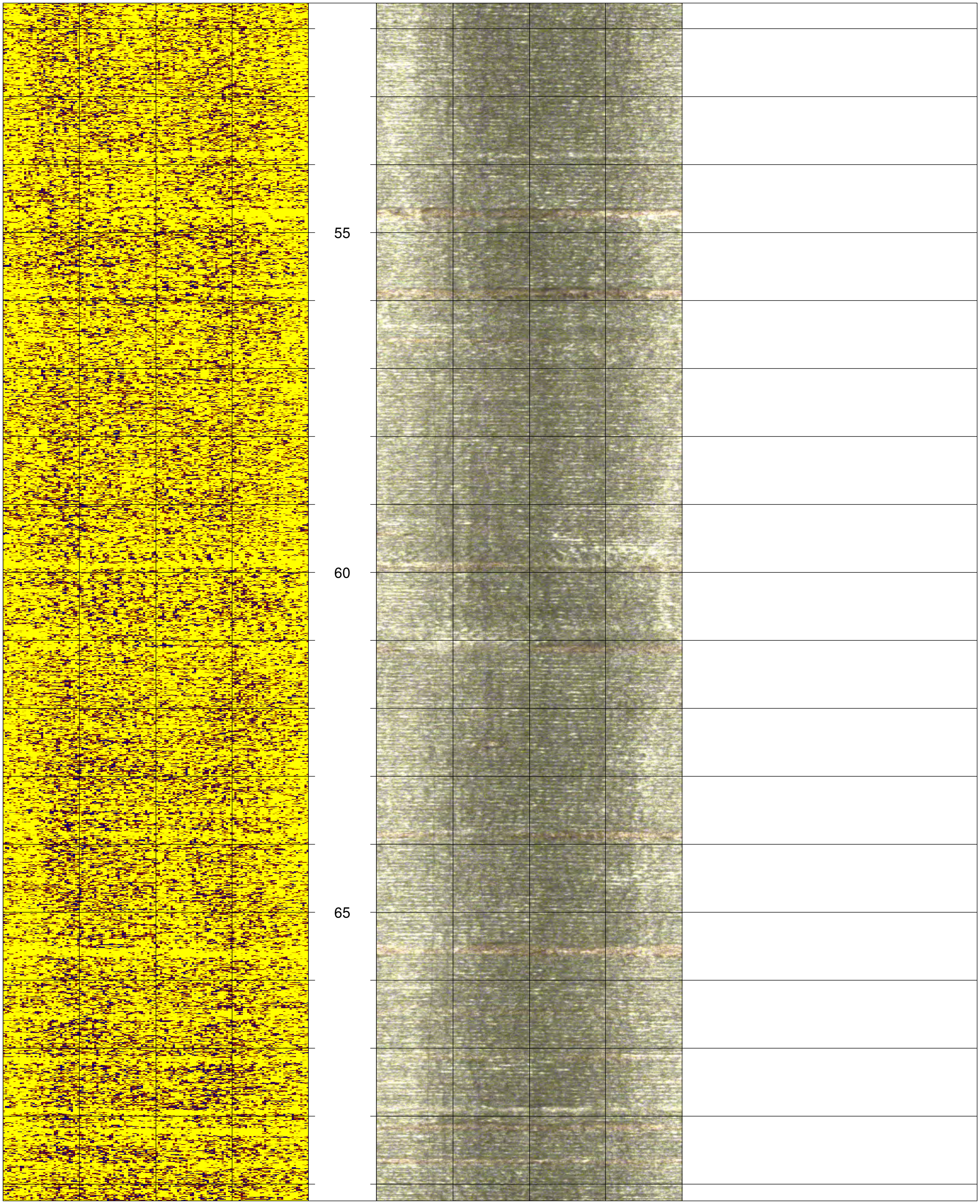
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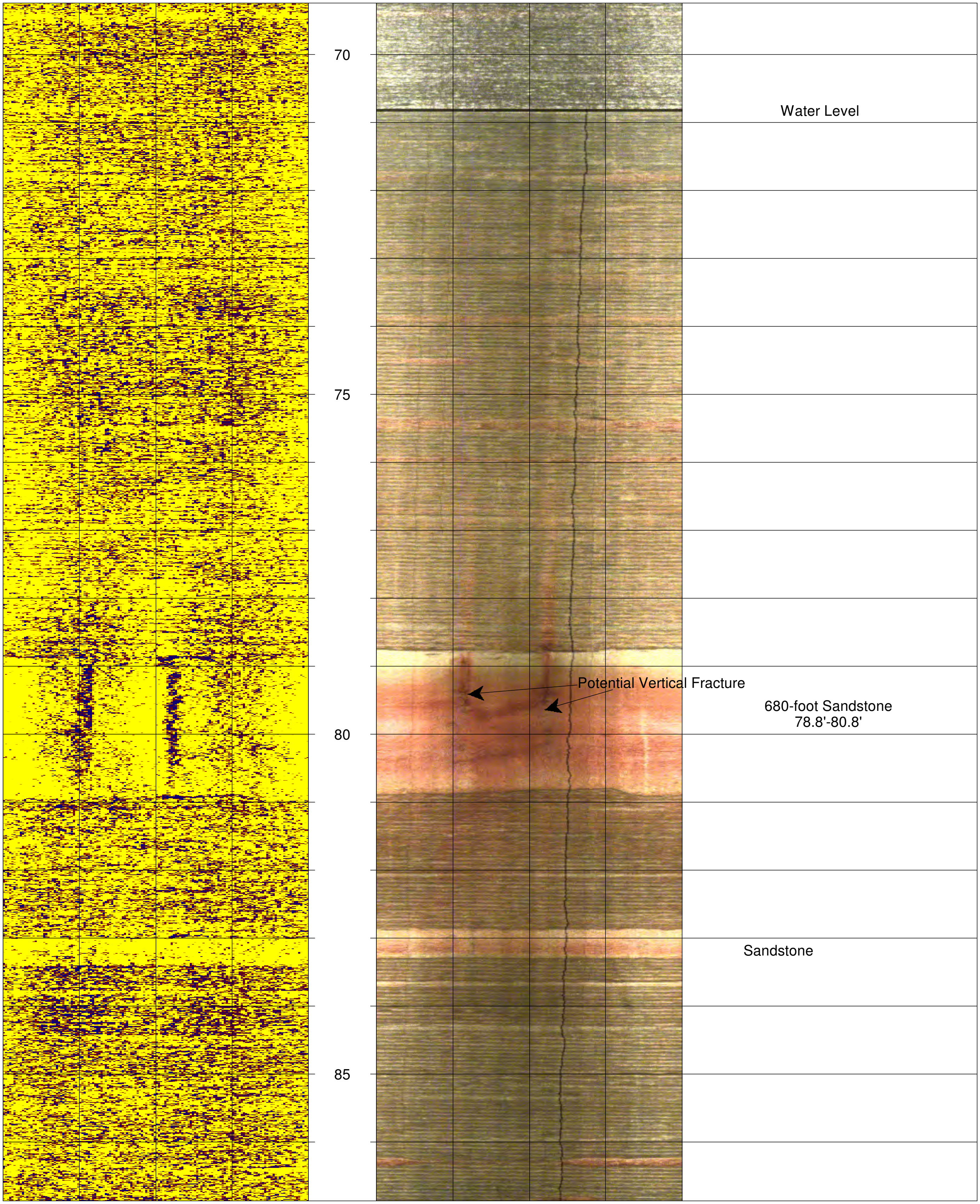
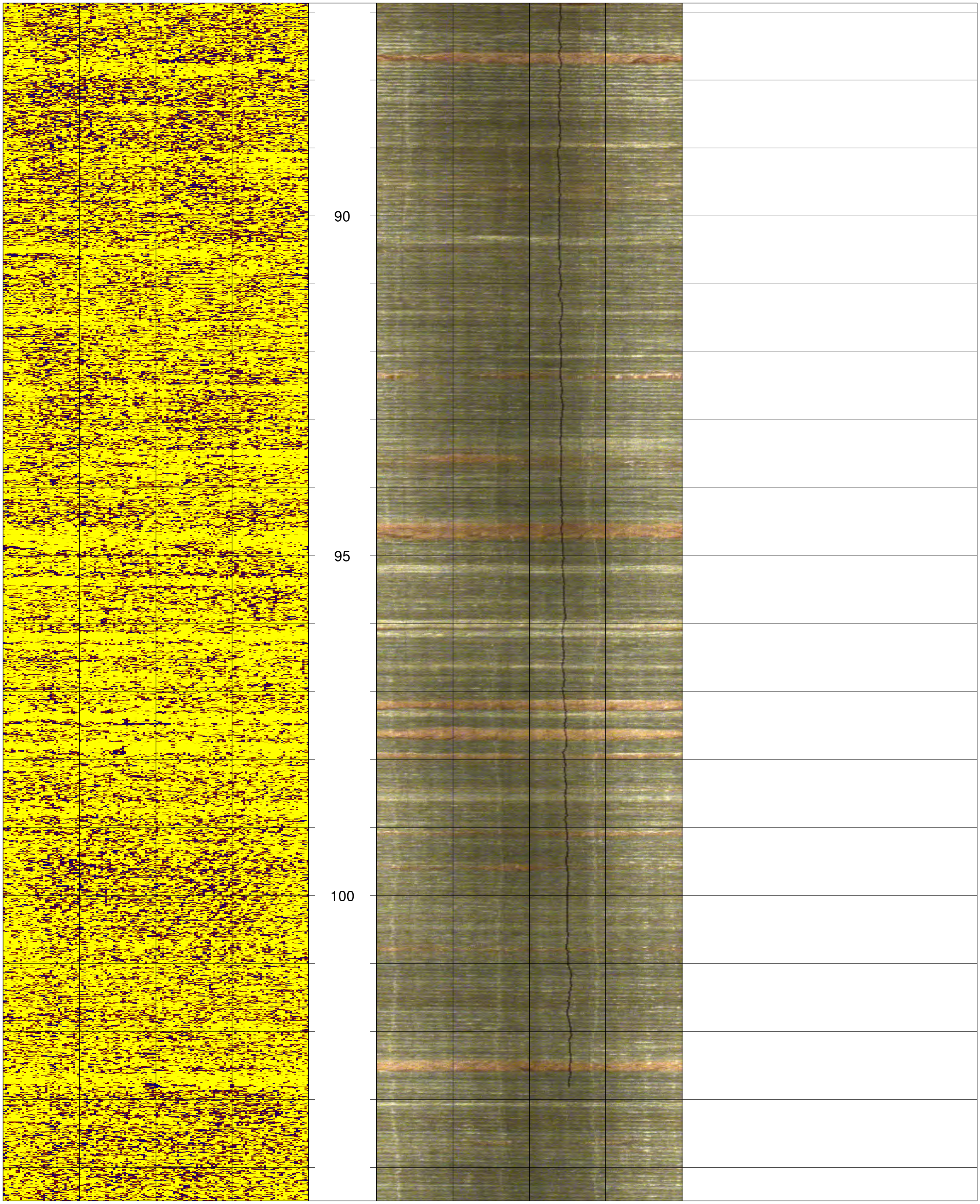
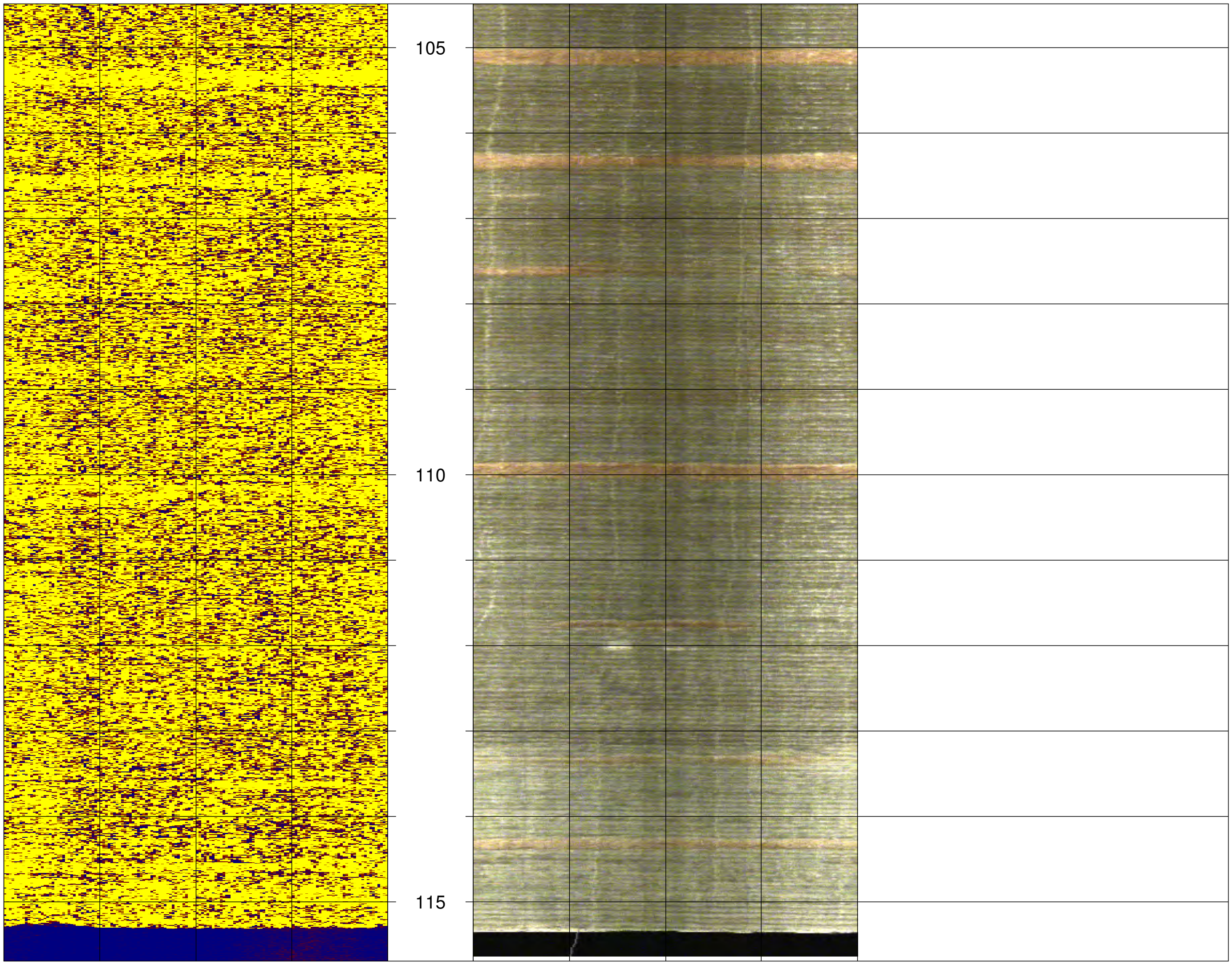
60
65


70
75
80
85
Water Level
Potential Vertical Fracture
680-foot Sandstone
78.8'-80.8'
Sandstone


90
95
100


105
110
115

WD-PZ-12C

ADVANCED GEOLOGICAL SERVICES

Acoustic Televiewer/Optical Televiewer

CLIENT Fluor B&W
WELL ID WD-PZ-12C
SITE Portsmouth Gaseous Diffusion Plant; OSDC Area D
CITY Piketon **STATE** Ohio

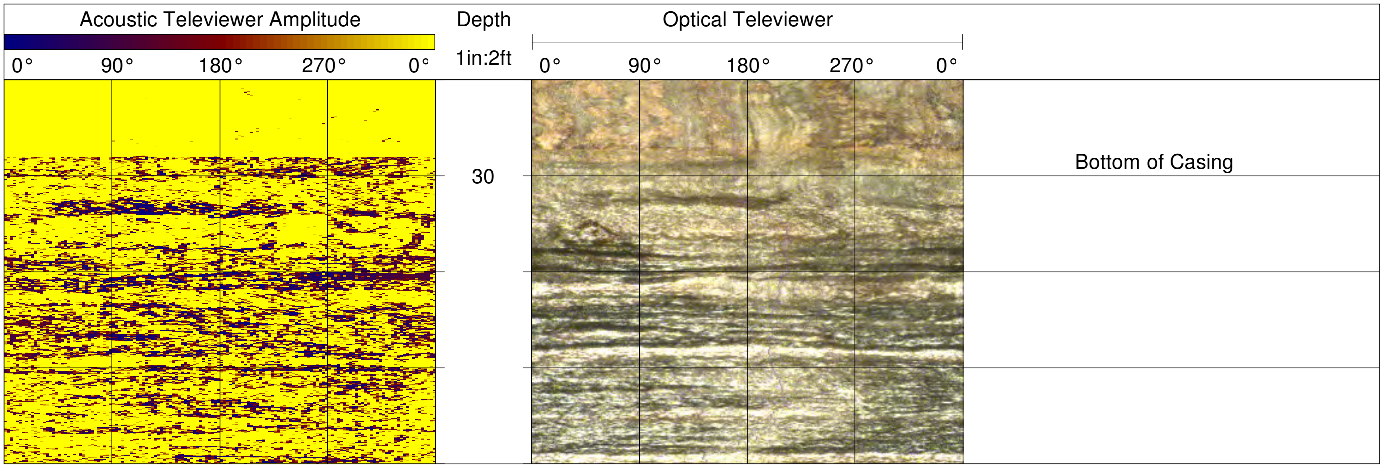
CO Fluor B&W
WELL WD-PZ-12C
FLD PORTS OSDC Area D
CTY Piketon
STE Ohio
FILING No

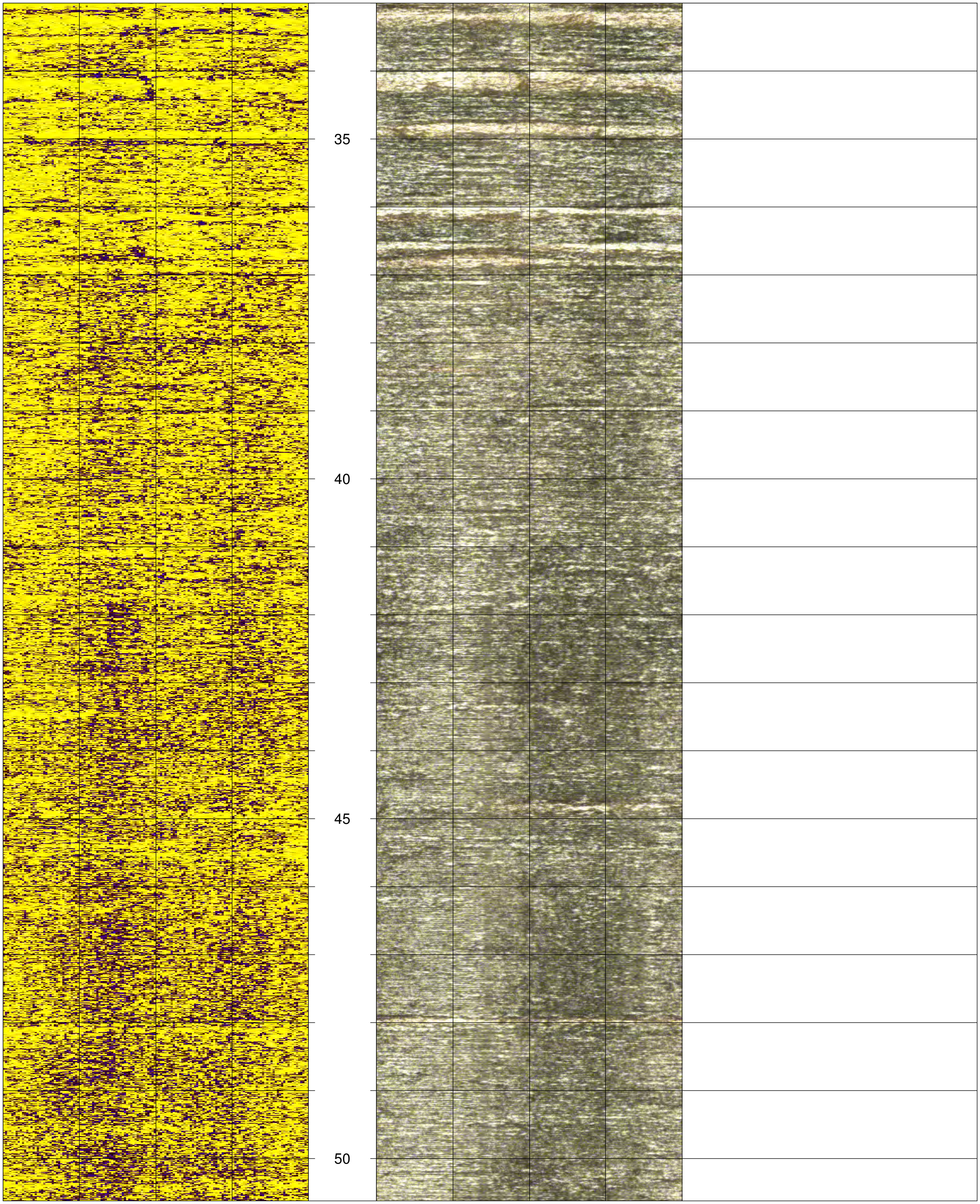
LOCATION
SEC TWP RGE
OTHER SERVICES

PERMANENT DATUM: ELEVATION K.B.
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM D.F.
DRILLING MEAS. FROM: G.L.

DATE		TYPE FLUID IN HOLE	Water
RUN No	4/23/2013 & 4/24/2013	SALINITY	
TYPE LOG	Image Logs	DENSITY	
DEPTH-DRILLER		LEVEL	Aprox. 66 ft.
DEPTH-LOGGER		MAX. REC. TEMP.	
BTM LOGGED INTERVAL	82 ft.		
TOP LOGGED INTERVAL	29 ft.		
OPERATING RIG TIME			
RECORDED BY	D. Jagel		
WITNESSED BY			

REMARKS: Casing Stick-up Height: 2 ft.
Well was filled with water following completion of OPTV log to allow collection of ATV log.

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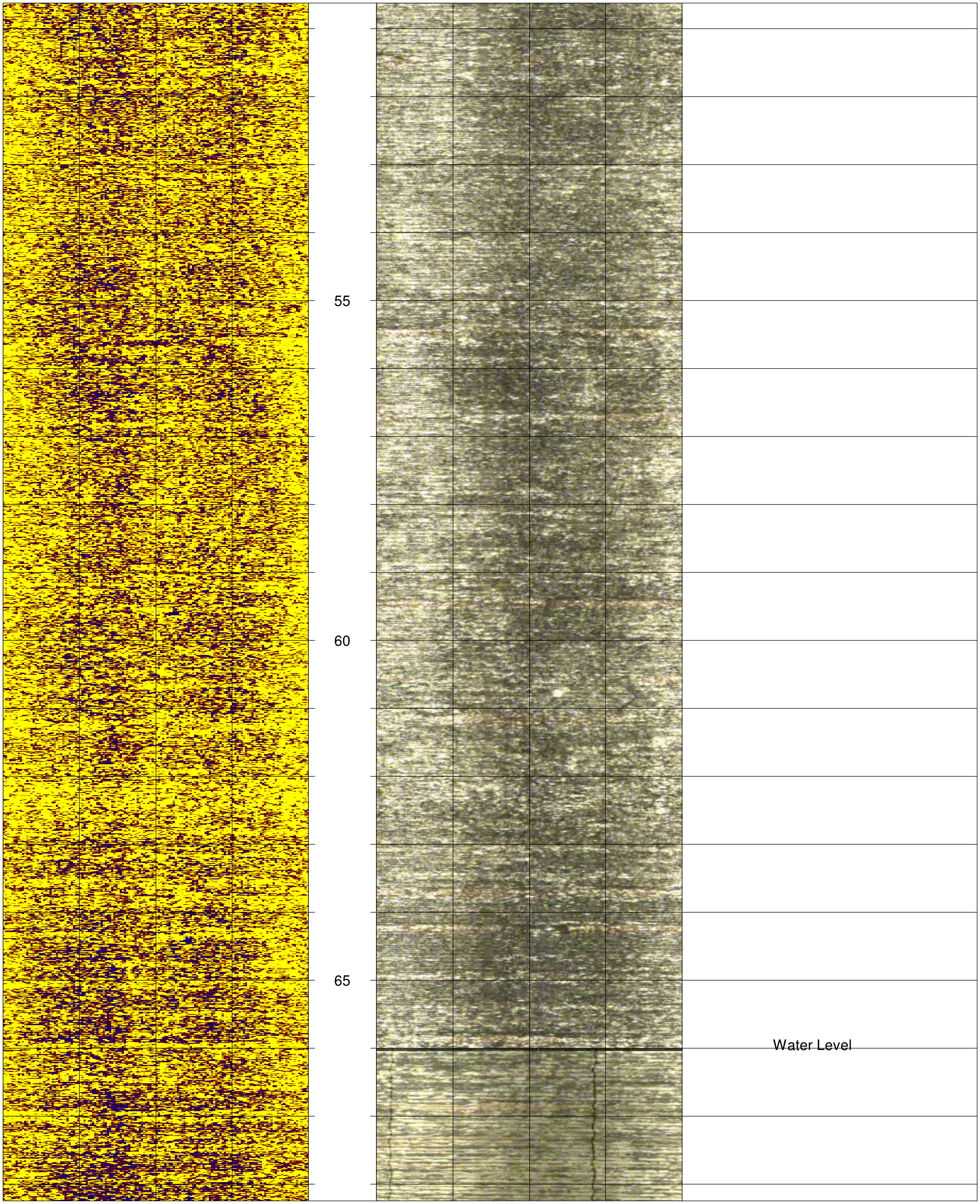
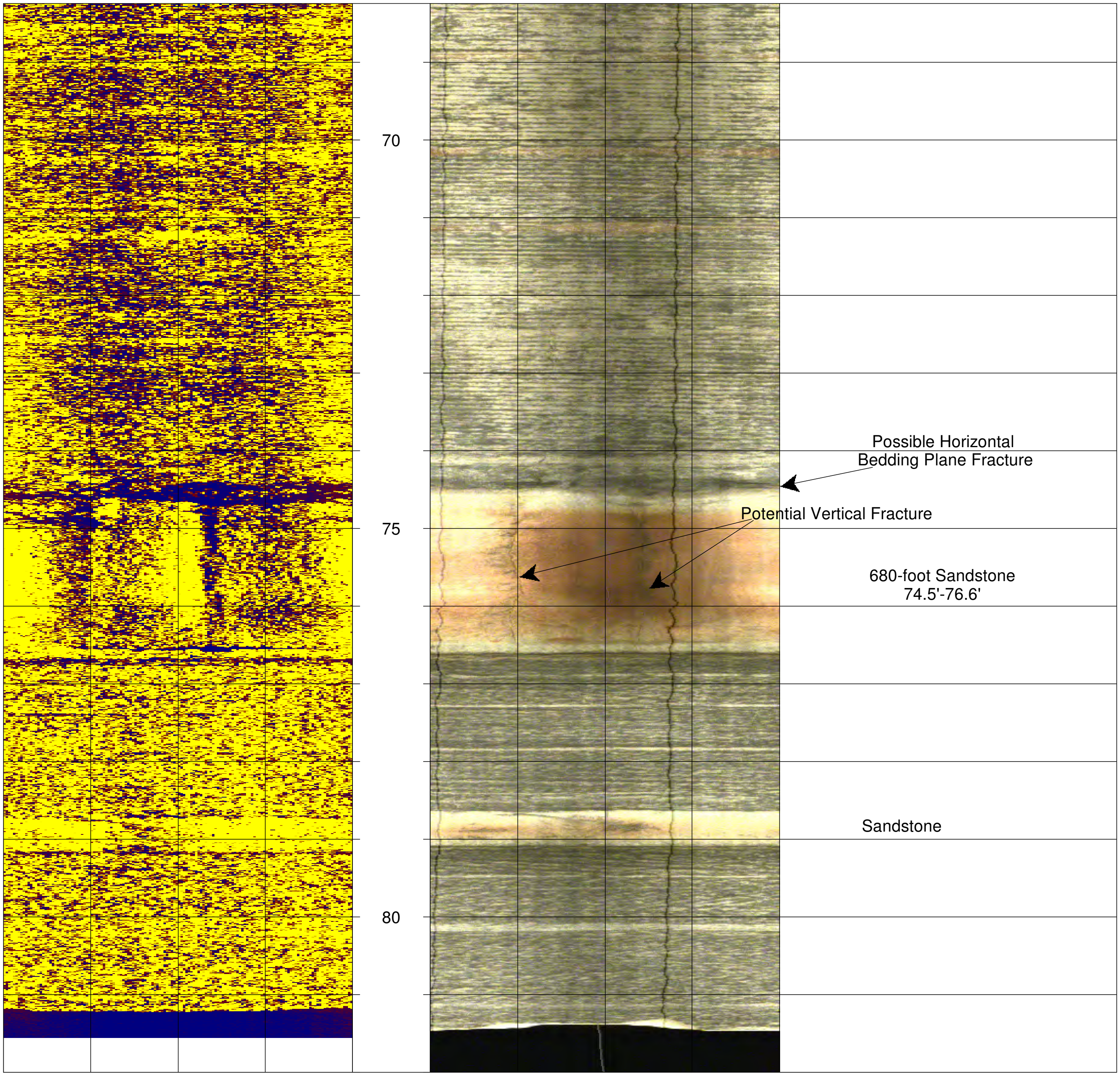

55
60
65
Water Level


70
75
80
Possible Horizontal
Bedding Plane Fracture
Potential Vertical Fracture
680-foot Sandstone
74.5'-76.6'
Sandstone

Page 4

WD-PZ-15C

ADVANCED GEOLOGICAL SERVICES

Acoustic Televiewer/Optical Televiewer

CO **Fluor B&W**
WELL **WD-PZ-15C**
FLD **PORTs OSDC Area D**
CTY **Piketon**
STE **Ohio**
FILING No

CLIENT Fluor B&W
WELL ID WD-PZ-15C
SITE Portsmouth Gaseous Diffusion Plant; OSDC Area D
CITY Piketon **STATE** Ohio

LOCATION

SEC TWP RGE

OTHER SERVICES

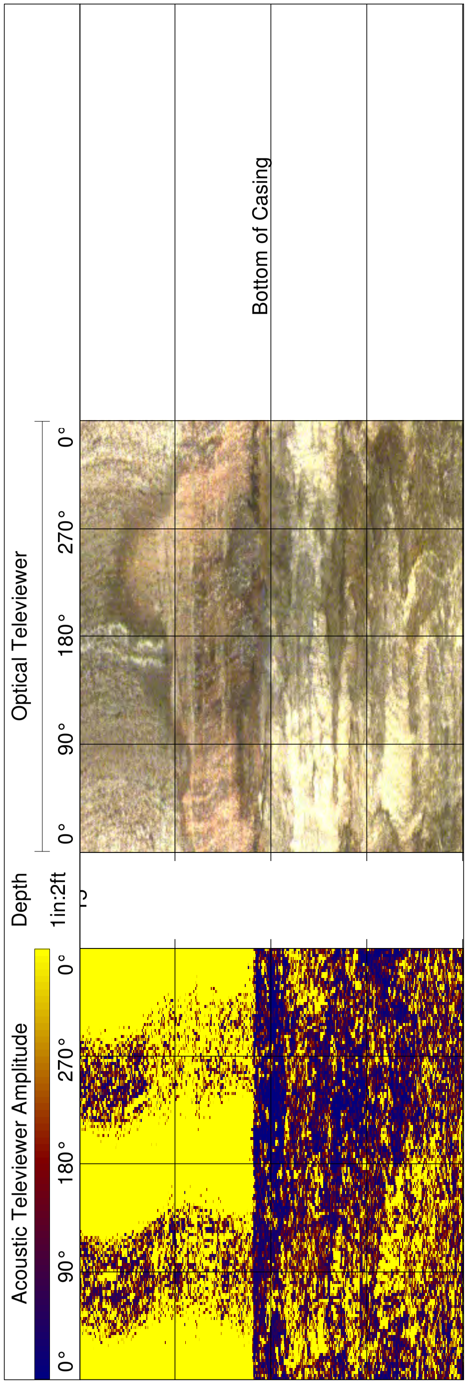
PERMANENT DATUM: ELEVATION K.B.

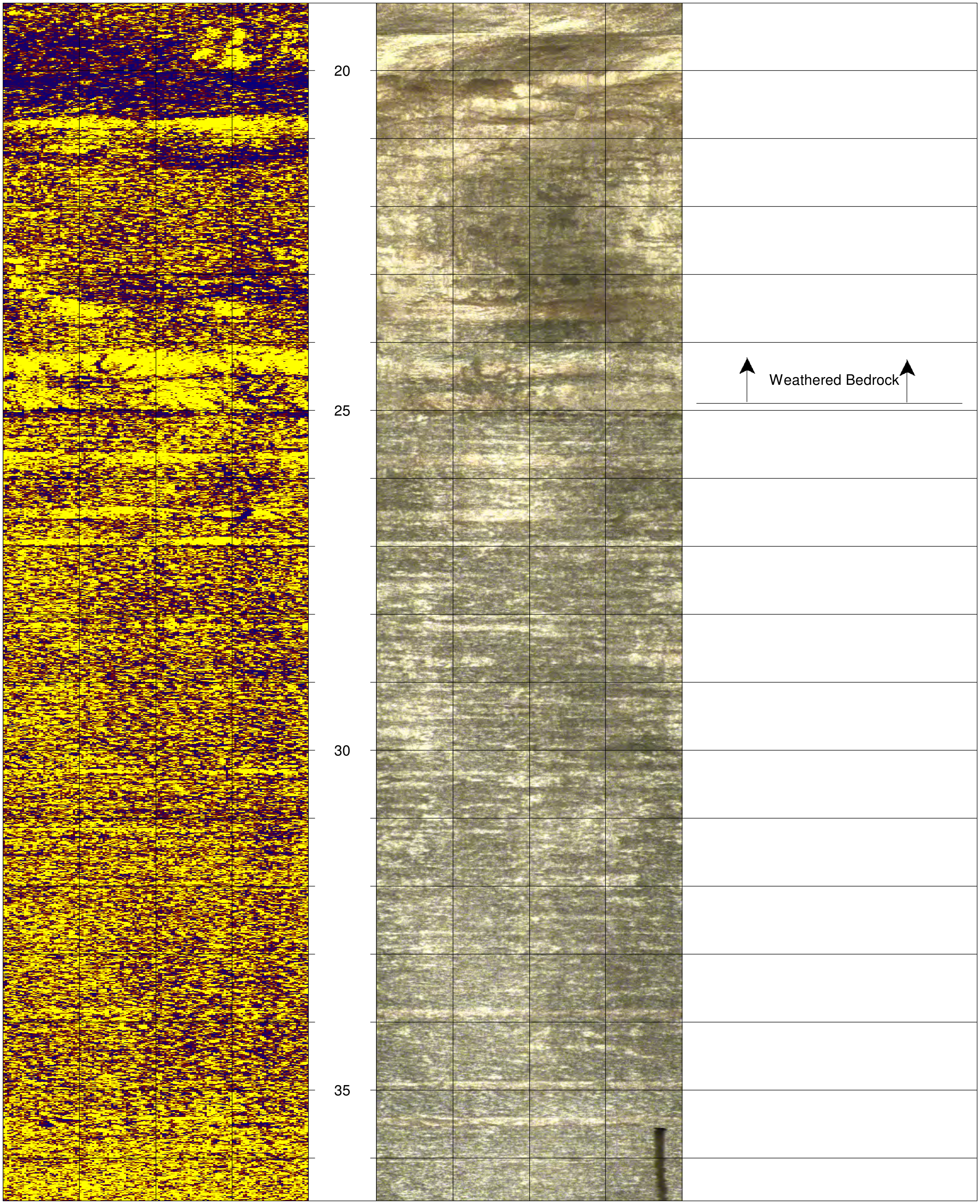
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM D.F.

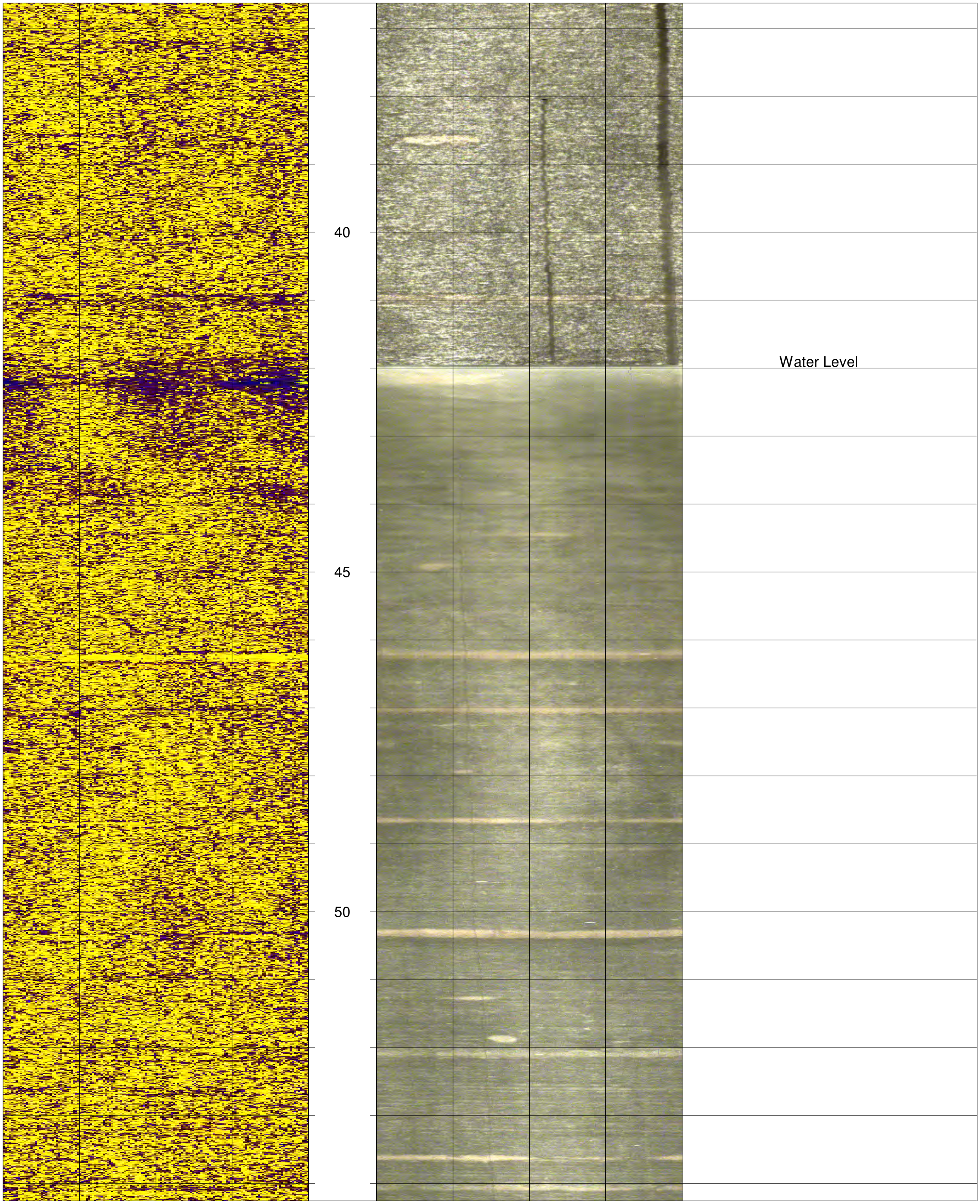
DRILLING MEAS. FROM: G.L.

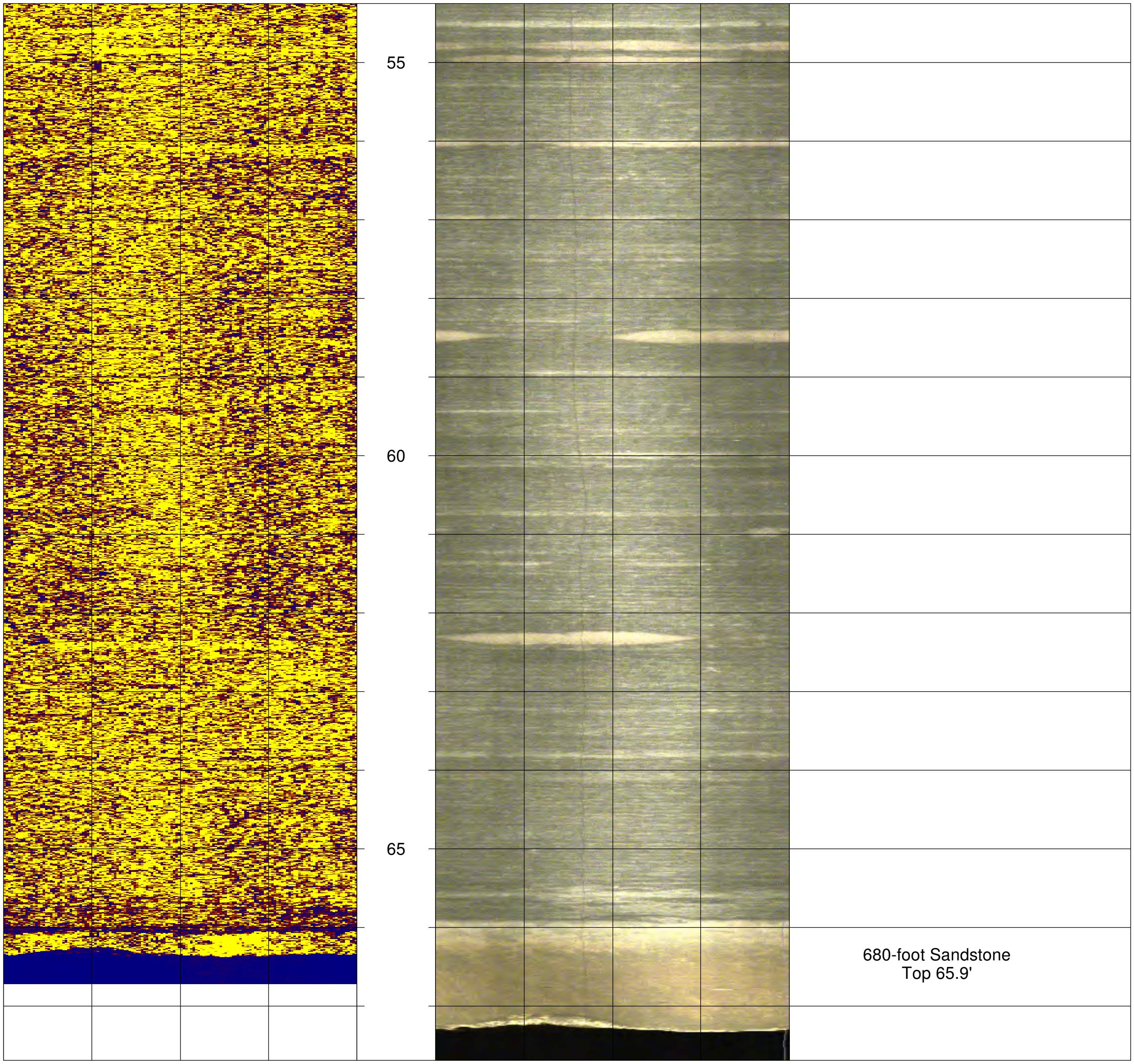
DATE	4/23/2013 & 4/24/2013	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	
TYPE LOG	Image Logs	DENSITY	
DEPTH-DRILLER		LEVEL	Approx. 42 ft.
DEPTH-LOGGER		MAX. REC. TEMP.	
BTM LOGGED INTERVAL	67.6 ft.		
TOP LOGGED INTERVAL	15 ft.		
OPERATING RIG TIME			
RECORDED BY	D. Jagel		
WITNESSED BY			

REMARKS: Casing Stick-up Height: 2 ft.
Well was filled with water following completion of OPTV log to allow collection of ATV log.




20
25
30
35
Weathered Bedrock


40
45
50
Water Level


55
60
65
680-foot Sandstone
Top 65.9'

WD-PZ-18C

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ADVANCED GEOLOGICAL SERVICES

Acoustic Televiewer/Optical Televiewer

CO **Fluor B&W**
WELL **WD-PZ-18C**
FLD **PORTs OSDC Area D**
CTY **Piketon**
STE **Ohio**
FILING No

CLIENT	Fluor B&W		
WELL ID	WD-PZ-18C		
SITE	Portsmouth Gaseous Diffusion Plant; OSDC Area D		
CITY	Piketon	**STATE**	Ohio

LOCATION

SEC TWP RGE

OTHER SERVICES

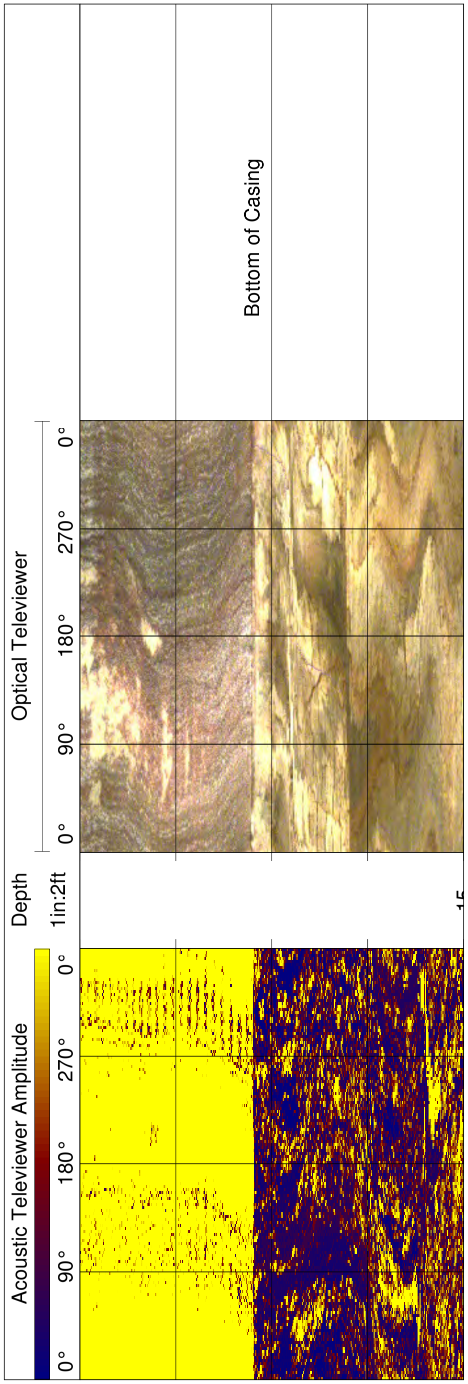
PERMANENT DATUM: ELEVATION K.B.

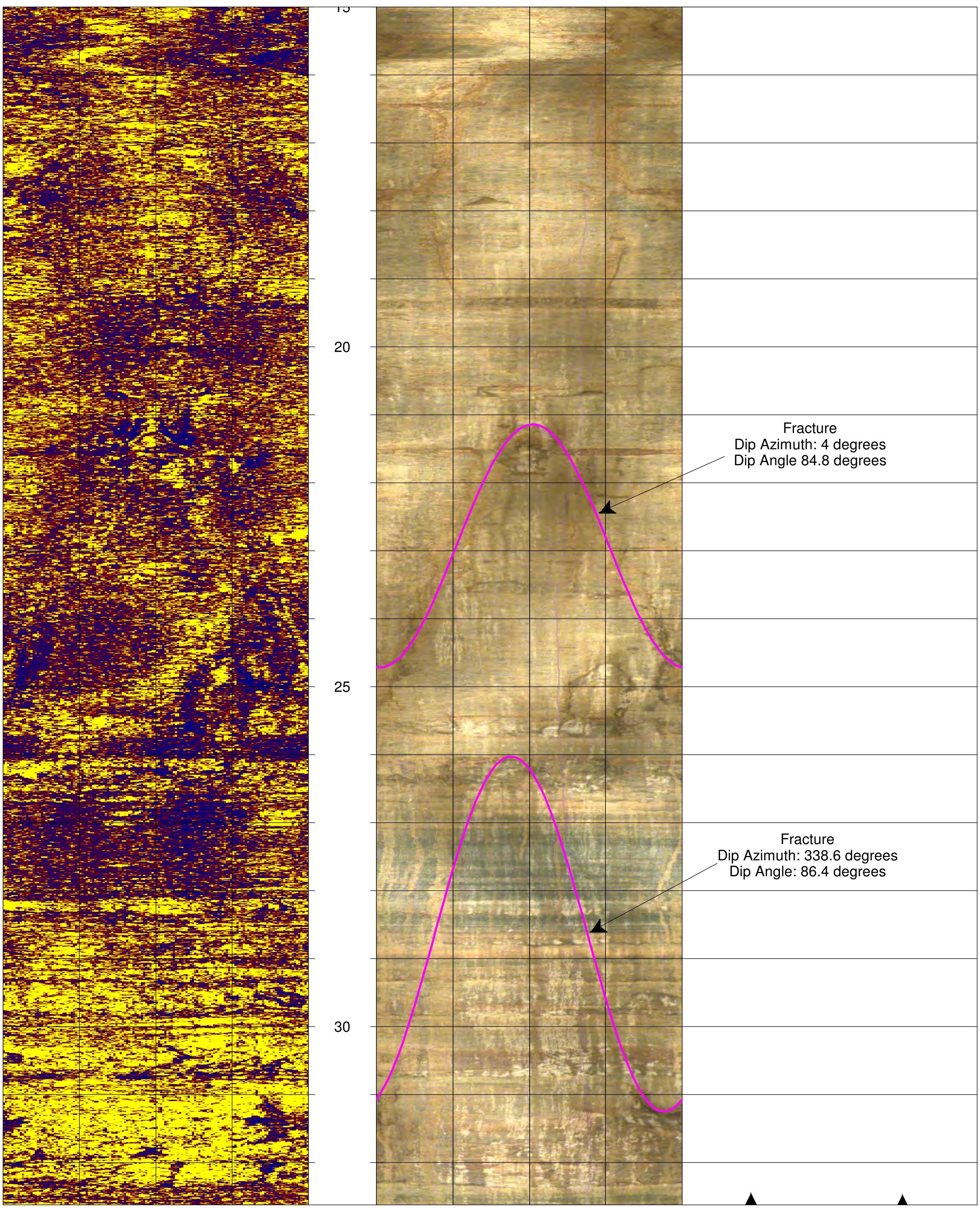
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM D.F.

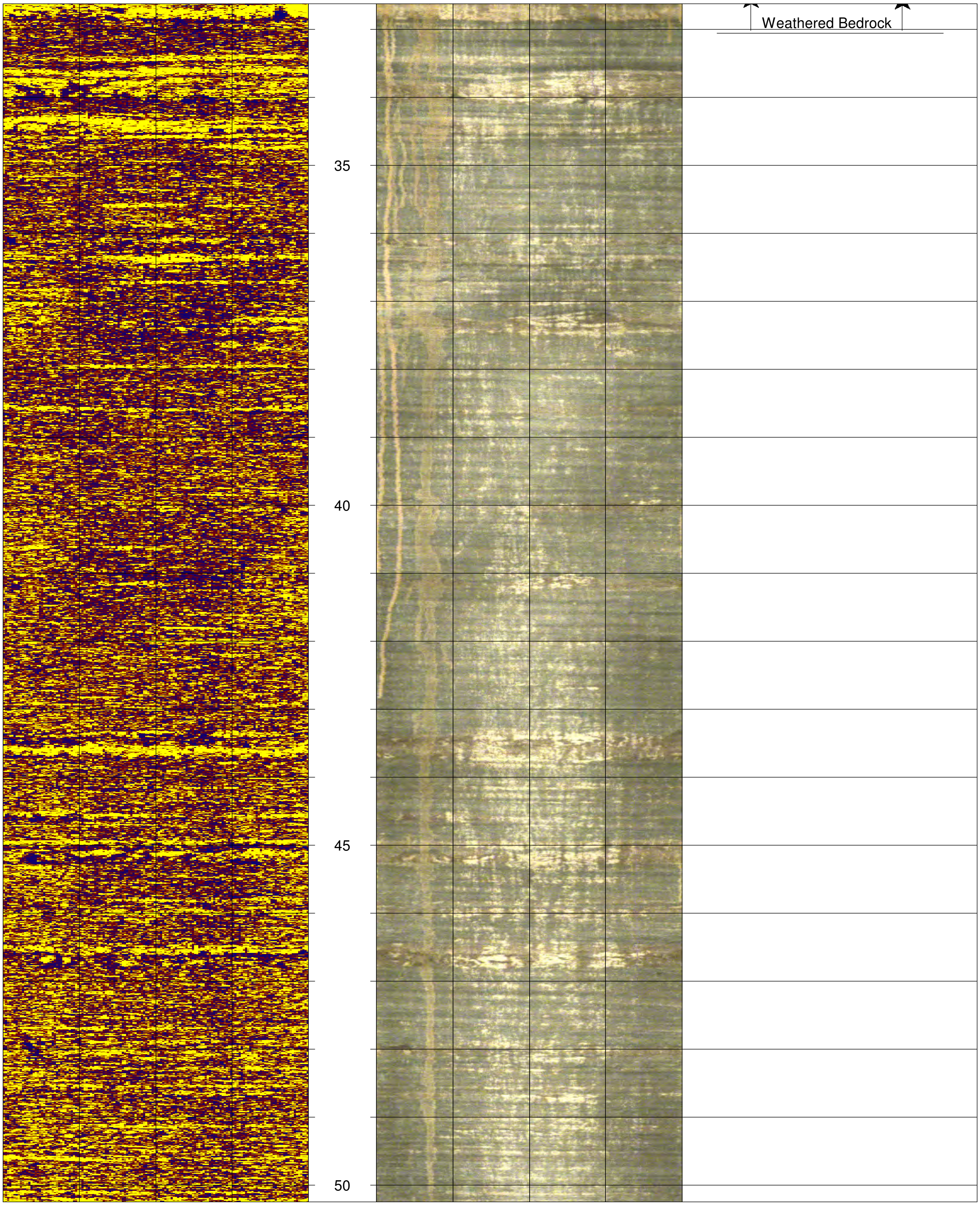
DRILLING MEAS. FROM: G.L.

DATE	4/23/2013	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	
TYPE LOG	Image Logs	DENSITY	
DEPTH-DRILLER		LEVEL	Approx. 86.6 ft.
DEPTH-LOGGER		MAX. REC. TEMP.	
BTM LOGGED INTERVAL	94 ft.		
TOP LOGGED INTERVAL	11 ft.		
OPERATING RIG TIME			
RECORDED BY	D. Jagel		
WITNESSED BY			

REMARKS: Casing Stick-up Height: 2 ft.
Well was filled with water following completion of OPTV log to allow collection of ATV log.




20
25
30
Fracture
Dip Azimuth: 4 degrees
Dip Angle 84.8 degrees
Fracture
Dip Azimuth: 338.6 degrees
Dip Angle: 86.4 degrees


Weathered Bedrock
35
40
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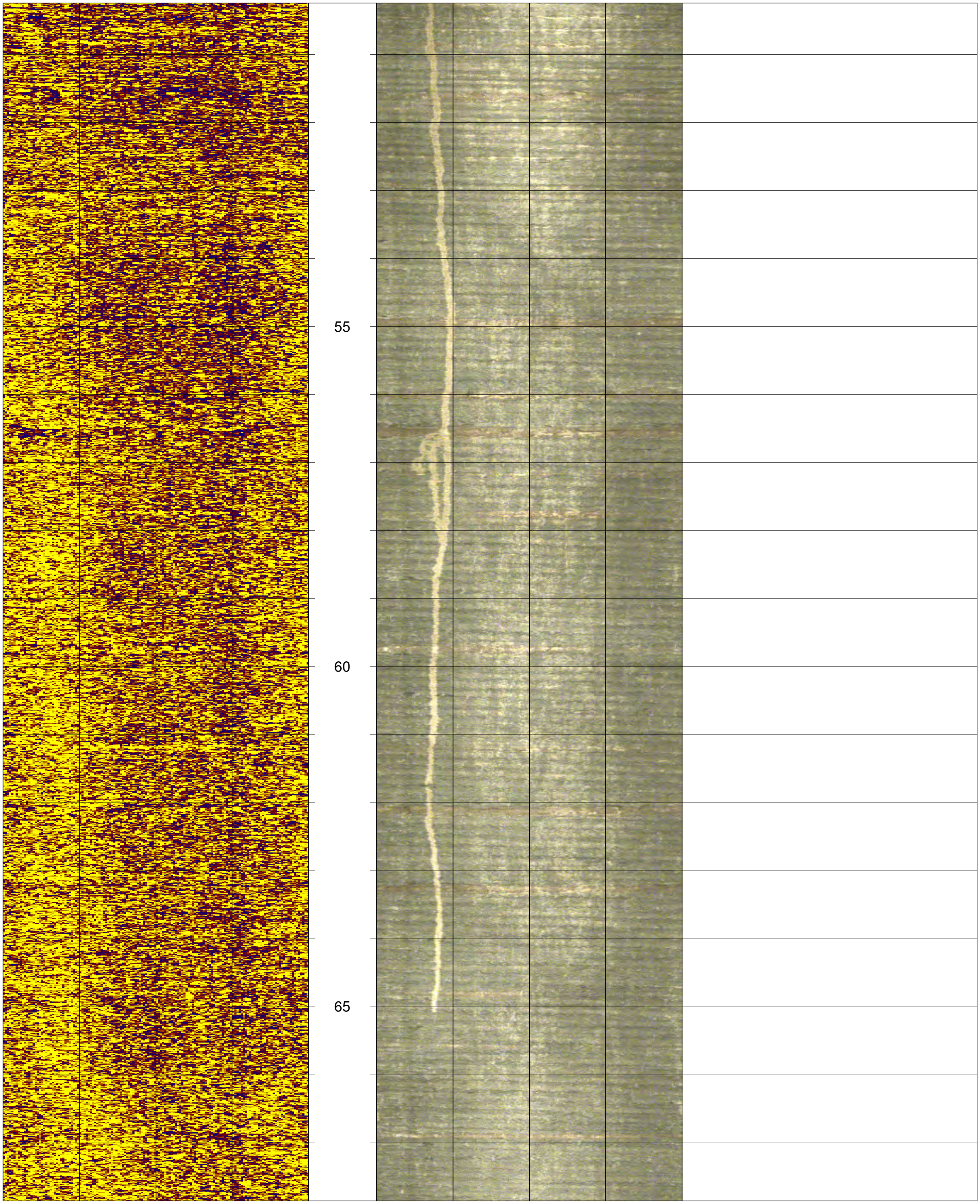
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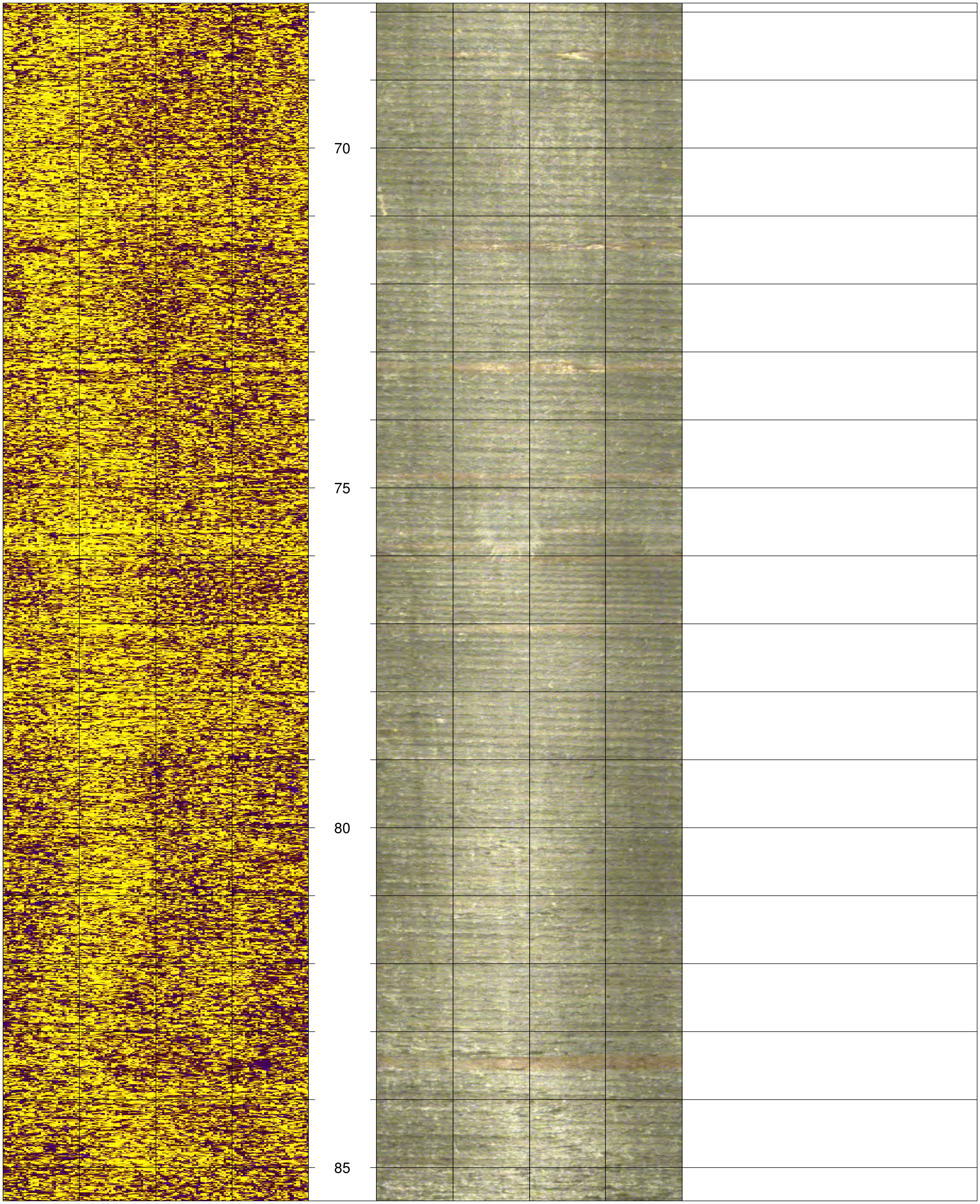
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75
80
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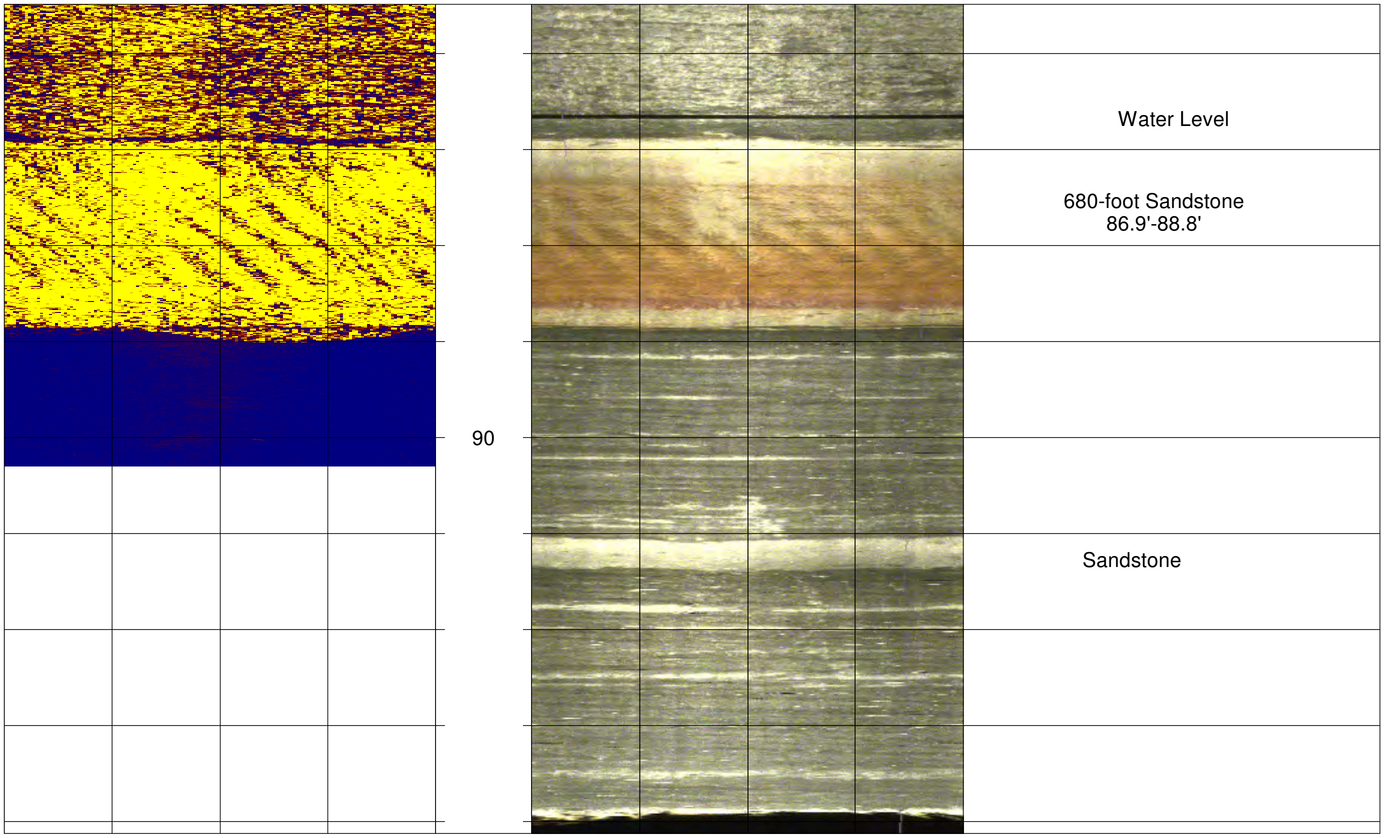
90
Water Level
680-foot Sandstone
86.9'-88.8'
Sandstone

WD-PZ-20C

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ADVANCED GEOLOGICAL SERVICES

Acoustic Televiewer/Optical Televiewer

CO **Fluor B&W**
WELL **WD-PZ-20C**
FLD **PORTs OSDC Area D**
CTY **Piketon**
STE **Ohio**
FILING No

CLIENT Fluor B&W
WELL ID WD-PZ-20C
SITE Portsmouth Gaseous Diffusion Plant; OSDC Area D
CITY Piketon **STATE** Ohio

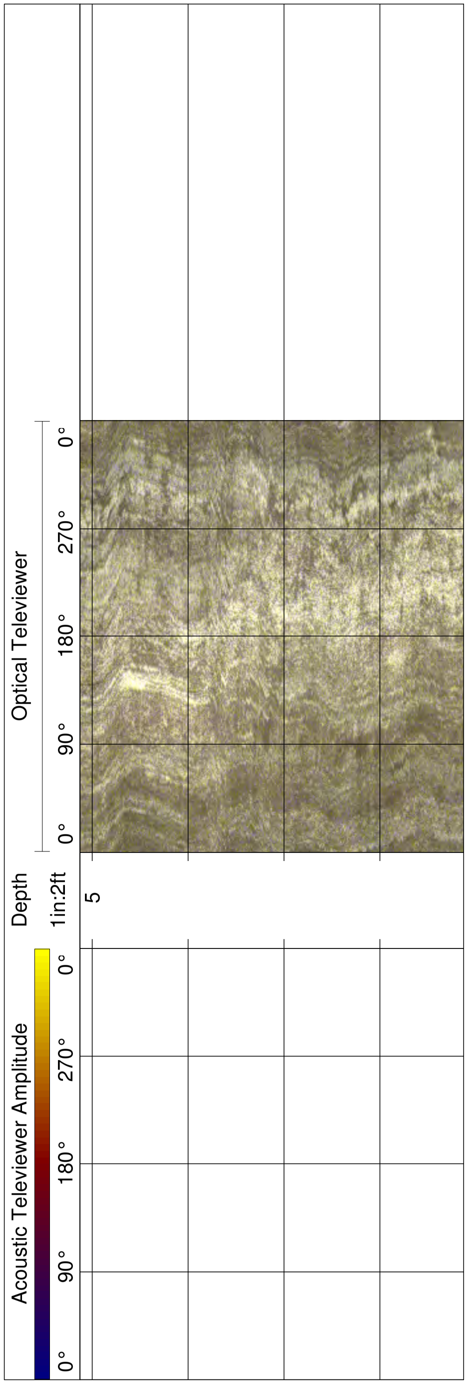
LOCATION
SEC TWP RGE

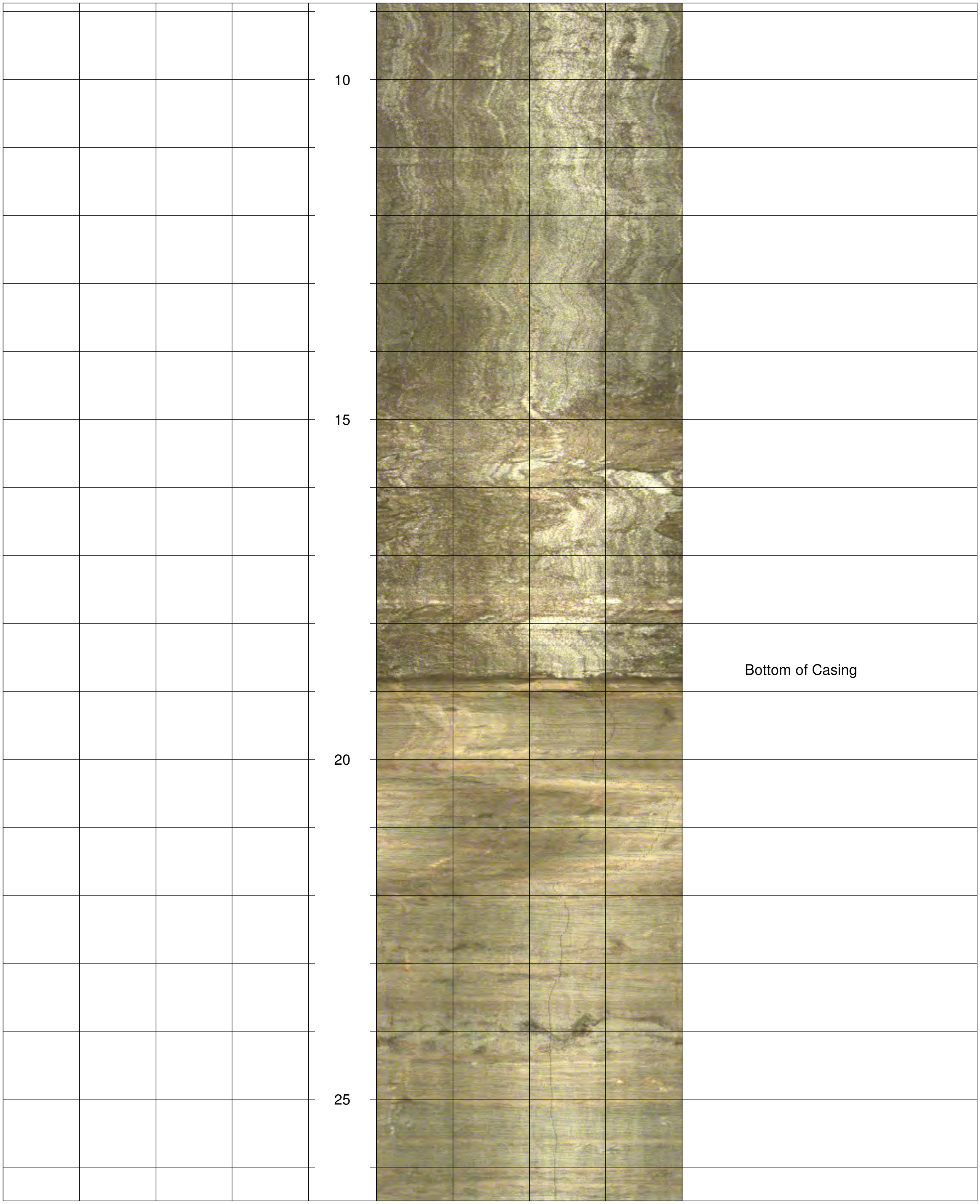
OTHER SERVICES

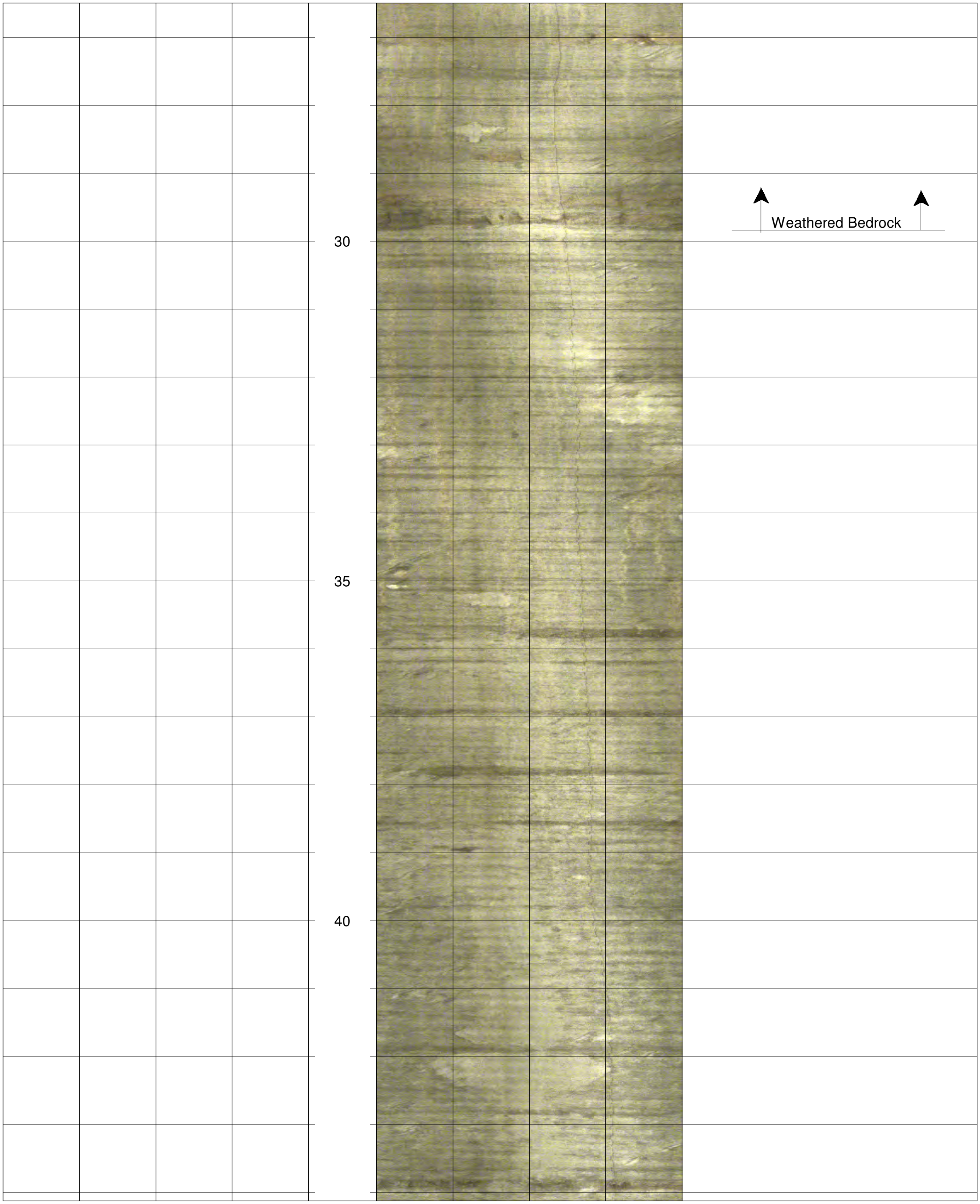
PERMANENT DATUM: ______ ELEVATION ______ K.B.
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM ______ D.F.
DRILLING MEAS. FROM: ______ G.L.

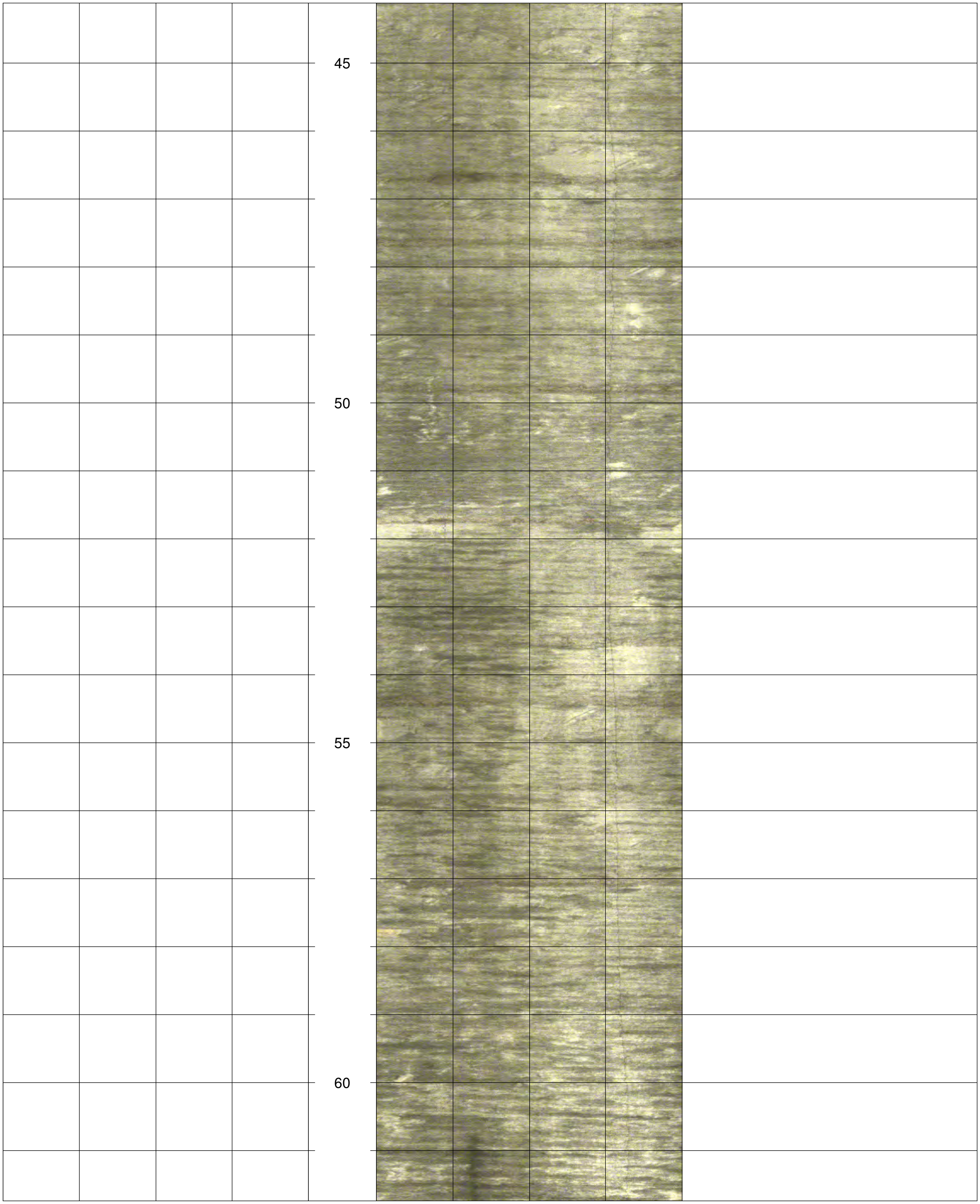
DATE	4/24/2013	TYPE FLUID IN HOLE	Water/Water & Grout
RUN No		SALINITY	
TYPE LOG	Image Logs	DENSITY	
DEPTH-DRILLER		LEVEL	Approx. 76.2 ft.
DEPTH-LOGGER		MAX. REC. TEMP.	
BTM LOGGED INTERVAL			
TOP LOGGED INTERVAL			
OPERATING RIG TIME			
RECORDED BY	D. Jagel		
WITNESSED BY			

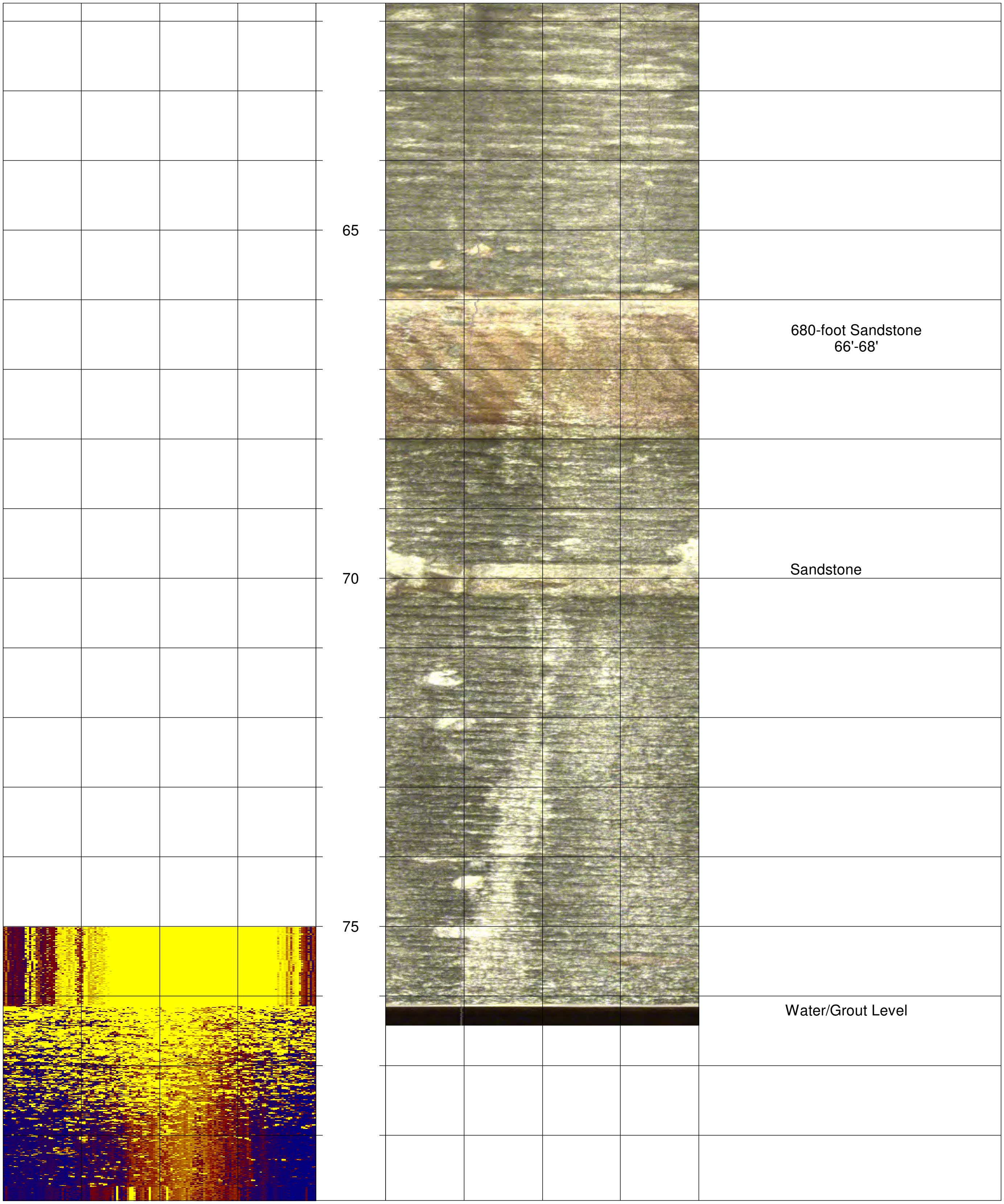
REMARKS: This piezometer was logged to inspect the bottom portion portion of the borehole to determine if any fractures were present that might affect the placement of grout. The OPTV log was completed for the full length of the borehole, but could not image below the water/grout level in the borehole because of the lack of clarity. The ATV log was completed only below the existing water/grout level (no water was added to complete an entire ATV log).
No fractures were identified in either the OPTV or the ATV logs.




10
15
20
25
Bottom of Casing


30
35
40
Weathered Bedrock


45
50
55
60


65
70
75
680-foot Sandstone
66'-68'
Sandstone
Water/Grout Level

WD-SB-40

ADVANCED GEOLOGICAL SERVICES

Acoustic Televiewer/Optical Televiewer

CO **Fluor B&W**
WELL **WD-SB-40**
FLD **PORTs OSDC Area D**
CTY **Piketon**
STE **Ohio**
FILING No

CLIENT Fluor B&W
WELL ID WD-SB-40
SITE Portsmouth Gaseous Diffusion Plant; OSDC Area A
CITY Piketon **STATE** Ohio

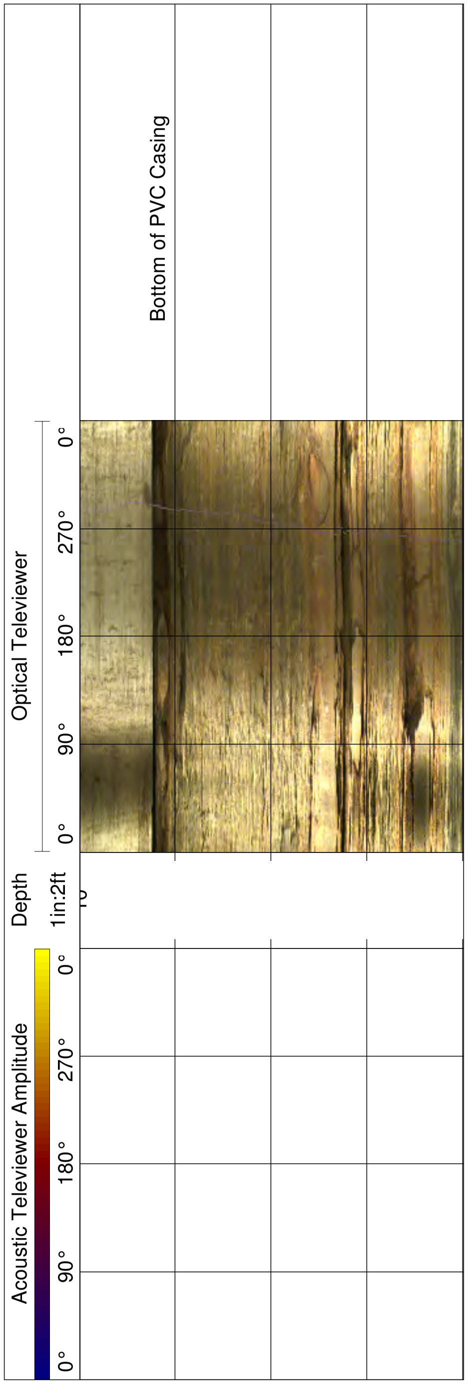
LOCATION
SEC TWP RGE

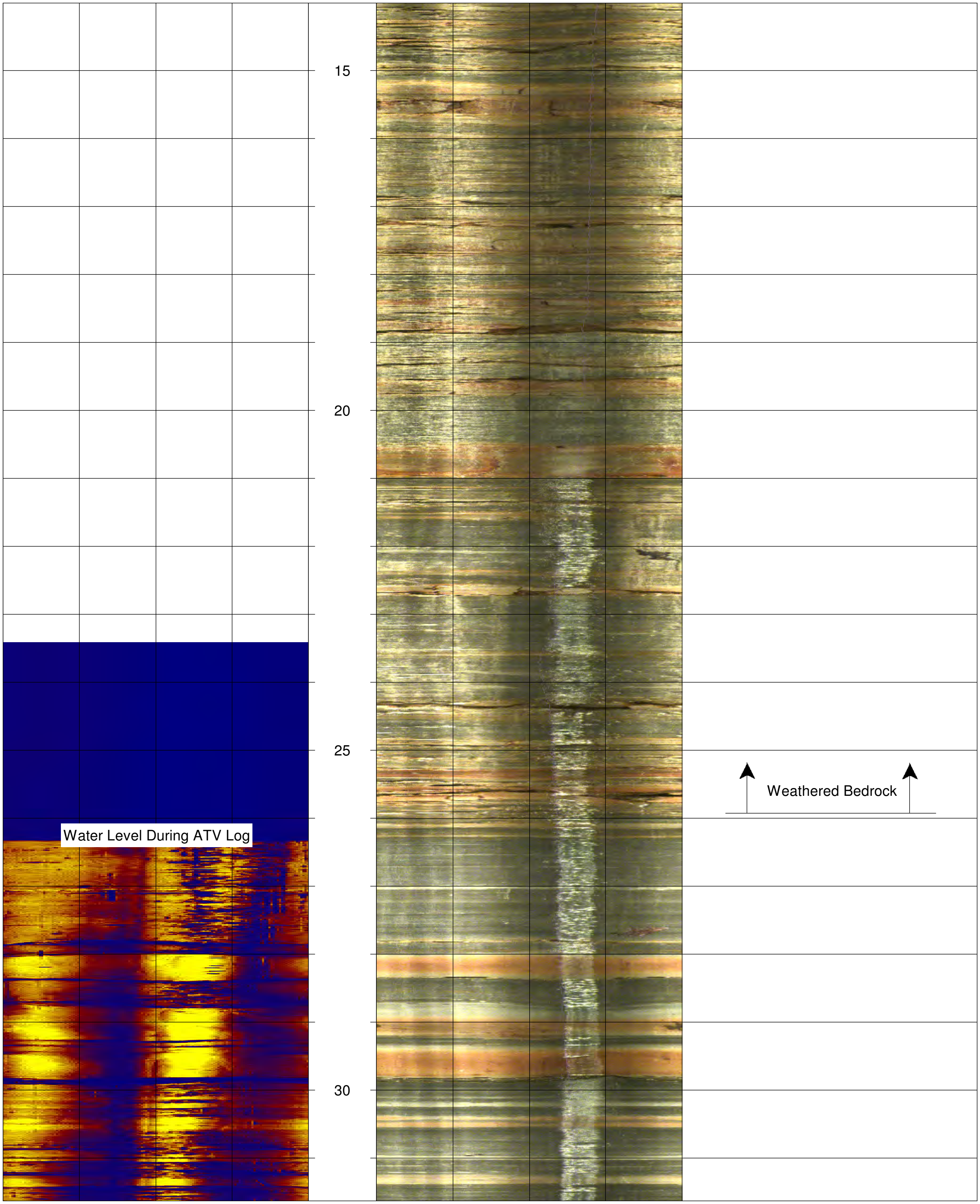
OTHER SERVICES

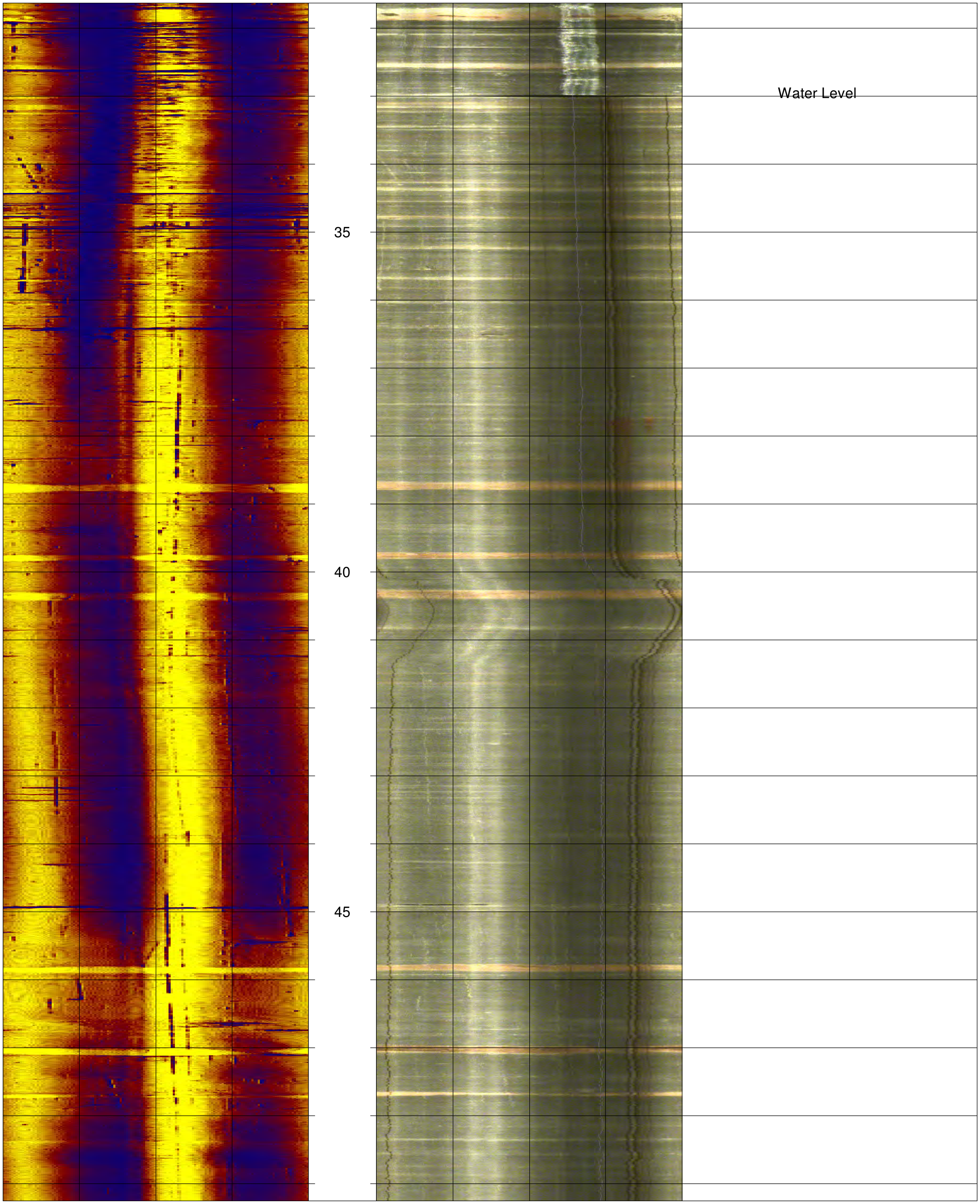
PERMANENT DATUM: ____ ELEVATION ____ K.B.
LOG MEAS. FROM: Ground Surface ABOVE PERM. DATUM ____ D.F.
DRILLING MEAS. FROM: ____ G.L.

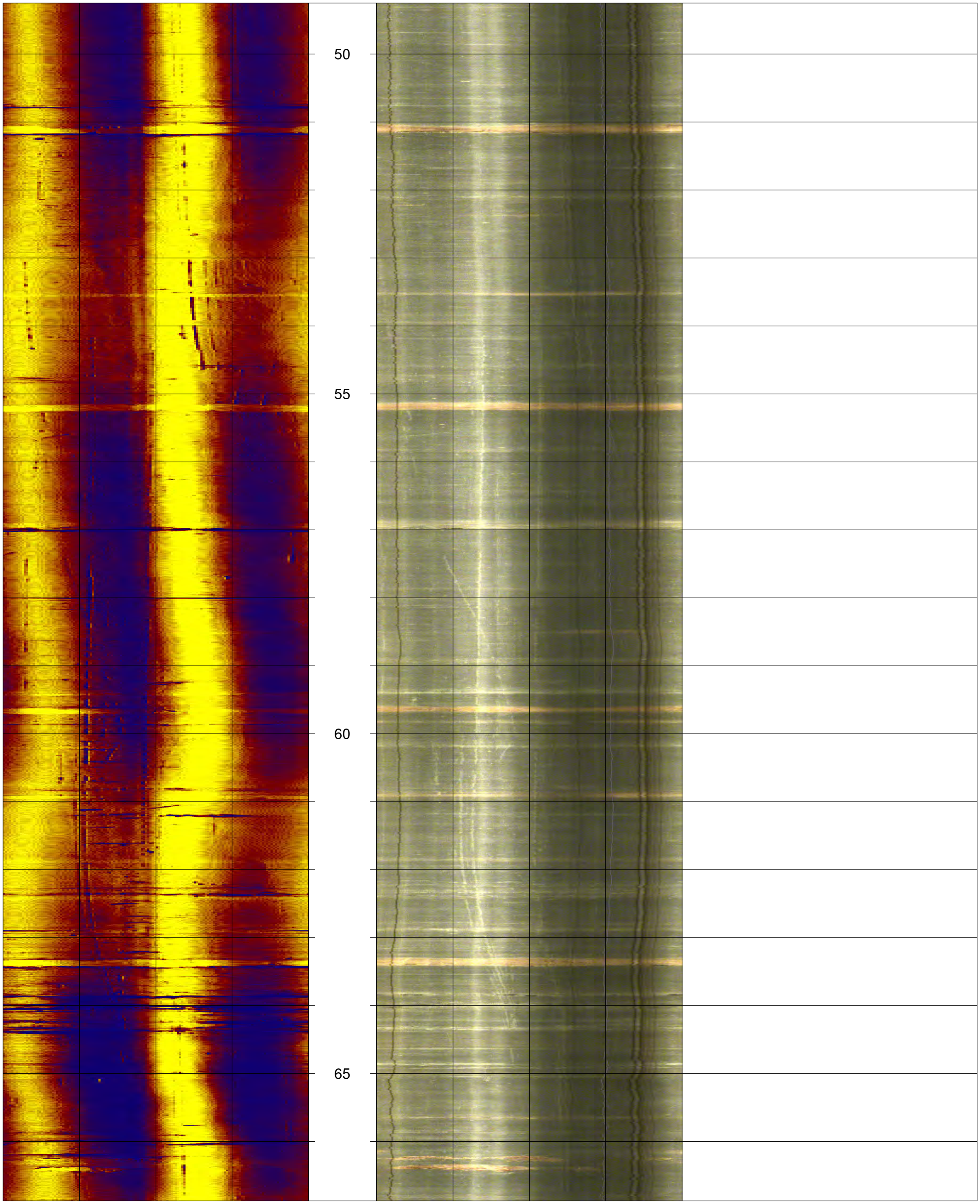
DATE	4/25/2013	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	
TYPE LOG	Image Logs	DENSITY	
DEPTH-DRILLER		LEVEL	Approx. 33 ft.
DEPTH-LOGGER		MAX. REC. TEMP.	
BTM LOGGED INTERVAL	78 ft.		
TOP LOGGED INTERVAL	10 ft.		
OPERATING RIG TIME			
RECORDED BY	D. Jagel		
WITNESSED BY			

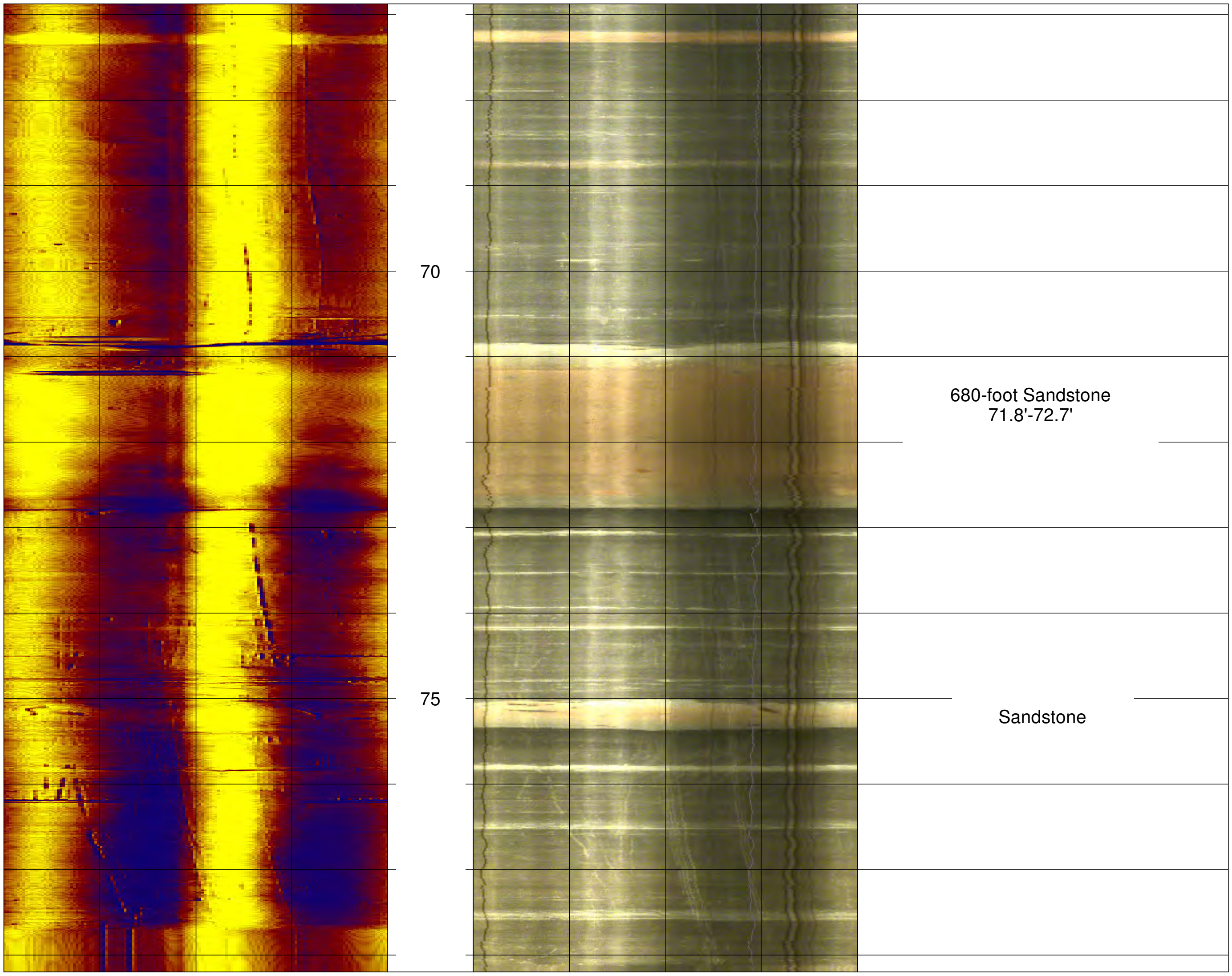
REMARKS: Casing Stick-up Height: 2 ft.
Well was filled with water following completion of OPTV log to allow collection of ATV log. After filling the water drained to a depth
of 26.3 ft. prior to completion of ATV log.
Dark vertical stripes in the ATV log were caused by having difficulty centralizing the ATV sonde within the core hole.




15
20
25
30
Water Level During ATV Log
Weathered Bedrock


Water Level
35
40
45


50
55
60
65


70
75
680-foot Sandstone
71.8'-72.7'
Sandstone

OHIO DEPARTMENT OF NATURAL RESOURCES WELL RECORDS FOR RESIDENTIAL WELLS WITHIN 1 MILE OF STUDY AREA D

Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 112503

View Image of Original Well Log

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ELMER CARTER*
County: *PIKE*
Township: *SEAL*
Section Number: *15*
Address:
Lot Number:
City:
State: *OH*
Zip Code:
Location Number: *15*
Location Map Year: *1956*
Location Area:
Latitude: *39.043789*
Longitude: *-82.982233*

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:
Borehole Depth: 1: *55 ft.*
2:
Depth to Bedrock:
Casing Diameter: 1: *6 in.*
2:
Casing Length: 1: *21 ft.*
2:
Casing Thickness: 1:
2:
Casing Height Above Ground:
Aquifer Type: *SHALE*
Date of Completion: *6/6/1953*
Total Depth: *55 ft.*
Well Use:
Driller's Name: *PARSONS LOVELL M*
Screen Diameter:
Slot Size:
Screen Length:
Type:
Material:
Set Between:
Gravel Pack Material/Size:
Vol/Wt Used:
Method of Installation:
Placed:
Grout Material/Size:
Vol/Wt Used:
Method of Installation:
Placed

WELL TEST DETAILS

Static Water Level: *12 ft.*
Test Rate: *25 gpm*
Associated Reports
Drawdown: *53 ft.*
Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
BLUE MUD	18	20
SHALE	20	55

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1 258 600
323 500 ?

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

ORIGINAL

LOCATED

No. 112503

(15)

County PIKE Township Seal Section of Township or Lot Number

Owner ELMER CARTER Address Piketon Ohio

(L. J. Craycraft)

Location of property turn off State Rd. 124 at edge of Piketon & Go about 2 mi.

CONSTRUCTION DETAILS

Casing diameter 6" O.D. Length of casing 21'

Type of screen PERFORATED CASING Length of screen 2'

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

WITH BAILER

Pumping rate 25 G.P.M. Duration of test 2 hrs.

Drawdown 53 ft. Date

Developed capacity 50 G.P.H.

Static level—depth to water 12' ft.

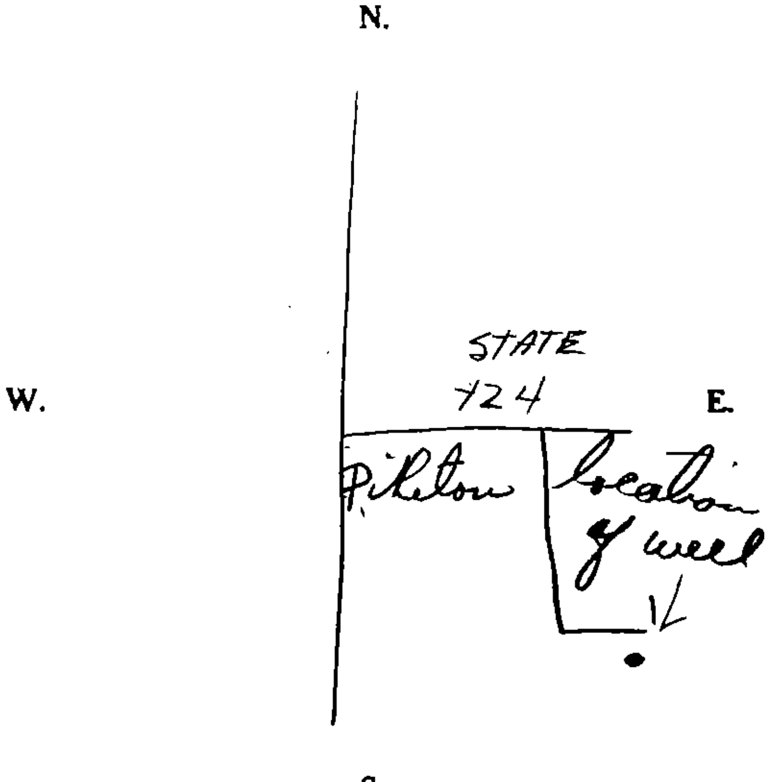
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
CLAY	0 Feet	18 Ft.
BLUE MUD	18	20
SHALE	20	55

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm PARSONS DRILLING CO. Date June 6 (53?)

Address PIKETON, OHIO RT. #1 Signed Bob G. Parsons

B-482

15

Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 124078

View Image of Original Well Log

ORIGINAL OWNER AND LOCATION

Original Owner Name: *O NANCE*
County: *PIKE*
Township: *SEAL*
Section Number: *14*
Address:
Lot Number:
City:
State: *OH*
Zip Code:
Location Number: *14*
Location Map Year: *1956*
Location Area:
Latitude: *39.044391*
Longitude: *-82.974637*

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:
Borehole Depth: 1: *68 ft.*
2:
Depth to Bedrock:
Casing Diameter: 1: *5.63 in.*
2:
Casing Length: 1: *25 ft.*
2:
Casing Thickness: 1:
2:
Casing Height Above Ground:
Aquifer Type: *SANDSTONE*
Date of Completion: *6/18/1956*
Total Depth: *68 ft.*
Well Use:
Driller's Name: *PARSONS LOVELL M*
Screen Diameter:
Slot Size:
Screen Length:
Type:
Material:
Set Between:
Gravel Pack Material/Size:
Vol/Wt Used:
Method of Installation:
Placed:
Grout Material/Size:
Vol/Wt Used:
Method of Installation:
Placed

WELL TEST DETAILS

Static Water Level:
Test Rate:
Associated Reports
Drawdown:
Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	17
GRAVEL	17	20
MUD	20	22
SANDSTONE	22	22
SANDSTONE	22	68

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WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

LOCATED No. 124078

14

County Pike Township Seal Section of Township or Lot Number

Owner O C Nance Address Columbus

Location of property 3 miles East of Piketon, Ohio

CONSTRUCTION DETAILS

Casing diameter 5⅝" Length of casing 22'

Type of screen Length of screen

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity

Static level—depth to water ft.

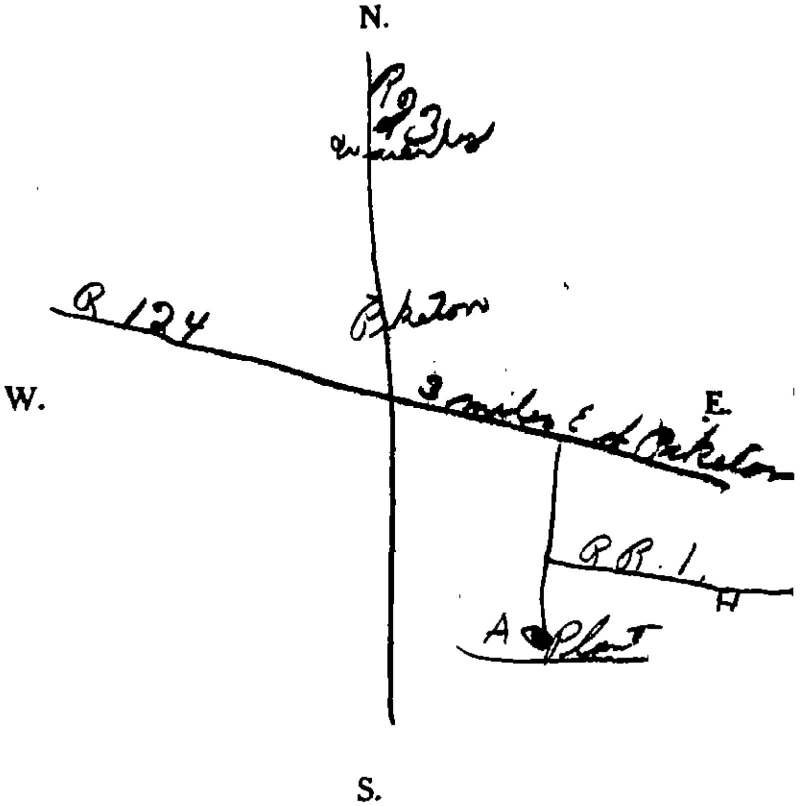
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Clay	0 Feet	17 Ft.
gravel	17	20
Sandstone Chips and mud	20	22
Sandstone	22	68

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Parsons Drilling Co Date 6-18-56

Address R 1, Piketon Ohio Signed Willis Grooms

Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 845220

View Image of Original Well Log

ORIGINAL OWNER AND LOCATION

Original Owner Name: *CHARLEE SHERRICK*
County: *PIKE*
Township: *SEAL*
Section Number:
Address: *1560 MCCORKLE*
Lot Number:
City:
State: *OH*
Zip Code: *45661*
Location Number:
Location Map Year:
Location Area:
Latitude: *39.0260*
Longitude: *-82.97285*

CONSTRUCTION DETAILS

Borehole Diameter: 1: *6 in.*
2:
Borehole Depth: 1: *170 ft.*
2:
Depth to Bedrock:
Casing Diameter: 1: *6 in.*
2:
Casing Length: 1: *28 ft.*
2:
Casing Thickness: 1: *0.188 in.*
2:
Casing Height Above Ground:
Aquifer Type: *SHALE*
Date of Completion: *4/8/2004*
Total Depth: *170 ft.*
Well Use:
Driller's Name: *R & J WELL DRILLING*
Screen Diameter:
Slot Size:
Screen Length:
Type:
Material:
Set Between:
Gravel Pack Material/Size:
Vol/Wt Used:
Method of Installation:
Placed:
Grout Material/Size:
Vol/Wt Used:
Method of Installation:
Placed

WELL TEST DETAILS

Static Water Level: *50 ft.*
Test Rate: *1 gpm*
Associated Reports
Drawdown: *155 ft.*
Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
YELLOW CLAY	2	21
SANDSTONE	21	53
GRAY SHALE	53	110
DARK GRAY SHALE	110	170
WATER AT	53	110

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Well log questions - Web site questions - Web policies

DNR 7802.94
TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Divison of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224 Phone (614) 265-6739

845220

Permit Number 500301

COUNTY Pike TOWNSHIP Beal SECTION/LOT No. (Circle One)

OWNER/BUILDER (Circle One or Both) Charles Sherrick (First / Last) PROPERTY ADDRESS (Address of well location) 1560 (Number) McCorkle (Street) Piketon (City) 45661 (Zip Code + 4)

LOCATION OF PROPERTY

CONSTRUCTION DETAILS

CASING *(Length below grade) Borehole Diameter 6½ in.

1 Diameter 6 in. Length* 28 ft. Wall Thickness .188 in.

2 Diameter in. Length* ft. Wall Thickness in.

Type: ☑ Steel ☐ Galv. ☐ PVC ☐ Other

Joints: ☐ Threaded ☑ Welded ☐ Solvent ☐ Other

Liner: Length Type Wall Thickness in.

SCREEN

Type (wire wrapped, louvered, etc.) Material

Length ft. Diameter in.

Set between ft. and ft. Slot

GROUT

Material Benseal Volume used 40 lbs

Method of installation Droven

Depth: placed from ft. to ft.

GRAVEL PACK (Filter Pack)

Material Volume used

Method of installation

Depth: placed from ft. to ft.

Pitless Device ☐ Adapter ☐ Preassembled unit

Use of Well

☐ Rotary ☑ Cable ☐ Augered ☐ Driven ☐ Dug ☐ Other

Date of Completion 4-8-03

WELL LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.	From	To
Topsoil	0	2
Yellow clay	2	21
Sandstone	21	53
Gray Shale water	53	110
Dark gray shale	110	170

*(If additional space is needed to complete well log, use next consecutively numbered form.)

WELL TEST

☑ Bailing ☐ Pumping* ☐ Other

Test rate 1 gpm Duration of test 2 hrs.

Drawdown 155 ft.

Measured from: ☑ top of casing ☐ ground level ☐ Other

Static Level (depth to water) 50 ft. Date: 4-8-03

Quality (clear, cloudy, taste, odor) Clear

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

PUMP

Type of pump Did Capacity not put one in gpm

Pump set at

Pump installed by

WELL LOCATION

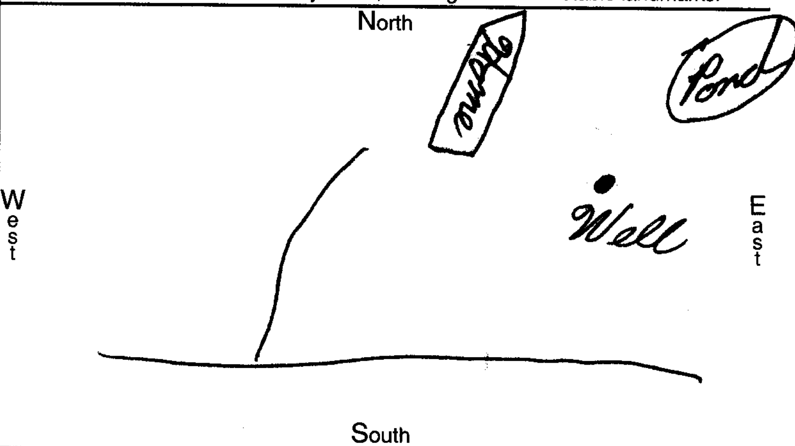
Location of well in State Plane coordinates, if available:

Zone x y

Elevation of well ft./m. Datum plain: ☐ NAD27 ☐ NAD83

Source of coordinates: ☐ GPS ☐ Survey ☐ Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks.



I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm R+J Well Drilling

Address 14944 Pleasant Valley

City, State, Zip Chillicothe Oh 45601

Signed Mike W. Young

Date 4-8-04

ODH Registration Number 02441

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.

ORIGINAL COPY TO - ODNR, DIVISION OF WATER, 1939 FOUNTAIN SQ. DRIVE, COLS., OHIO 43224

Blue - Customer's copy Pink - Driller's copy Green - Local Health Dept. copy

APPENDIX C: GEOTECHNICAL AND GEOCHEMICAL SAMPLE RESULTS

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TABLES

Table C.1 Engineering Classification of Soils

Boring ID	Sample ID	Depth (ft)	Lab	Results
WD-MW03B	ST1	5-7	Nutting	CL
WD-MW03B	S5A	12.5-12.9	Nutting	CL
WD-MW04B	S2	2.5-4.5	Nutting	CL
WD-MW04B	S8A	20-20.4	Nutting	CL
WD-MW05B	S2	2.5-4.5	Nutting	CL
WD-MW05B	S3B	9-9.5	Nutting	CL
WD-SB-01	ST1	5-7	Nutting	CH
WD-SB-01	ST2	15-17	Nutting	CH
WD-SB-01	S7B	21.5-22	Nutting	CH
WD-SB-01	ST3	25-27	Nutting	CH
WD-SB-01	ST4	35-37	Nutting	CH
WD-SB-02	ST1	5-7	Nutting	CL
WD-SB-02	ST2	15-17	Nutting	CL
WD-SB-02	S3	7.5-8.0	Nutting	CH
WD-SB-05	S1	1-1.5	Nutting	CL
WD-SB-05	S5	13.6-14.0	Nutting	CL
WD-SB-05	ST2	15-17	Nutting	CH
WD-SB-05	S7A	20.0-20.5	Nutting	CL
WD-SB-05	S2	3.5-4.0	Nutting	CL
WD-SB-05	S11A	32.5-34	Nutting	CL
WD-SB-05	ST4	35-37	Nutting	CL-ML
WD-SB-05	S14A	45.5-46	Nutting	ML
WD-SB-07	S3A	5.1-5.5	Nutting	CL
WD-SB-09	ST1	5-7	Nutting	CL
WD-SB-09	S5B	14-14.5	Nutting	CL
WD-SB-09	S3A	7.5-8.0	Nutting	CL
WD-SB-22	ST1	5-7	Nutting	CL
WD-SB-22	S5D	14-14.5	Nutting	CL-ML
WD-SB-22	S6B	15.9-16.3	Nutting	CL
WD-SB-24	S2	2.5-4.5	Nutting	CL
WD-SB-24	S4A	7.5-8	Nutting	CL
WD-SB-26	ST1	5-7	Nutting	CL
WD-SB-26	S6A	15-15.4	Nutting	CL
WD-SB-26	S3B	7.9-8.3	Nutting	CL
WD-SB-27	S4A	11.5-12	Nutting	CL
WD-SB-27	S2A	3.5-4	Nutting	ML
WD-SB-28	ST1	5-7	Nutting	CL
WD-SB-28	S1A	1-1.5	Nutting	CL
WD-SB-28	S5A	13-13.5	Nutting	CL
WD-SB-29	ST1	5-7	Nutting	CL
WD-SB-29	S5A	12.5-13.5	Nutting	CL
WD-SB-29	S6A	15-16	Nutting	CL
WD-SB-29	ST2	17.5-17.9	Nutting	CL
WD-SB-29	S3B	8-8.5	Nutting	CL-ML
WD-SB-30	S5A	12.5-13	Nutting	CL

Table C.1 Engineering Classification of Soils

Boring ID	Sample ID	Depth (ft)	Lab	Results
WD-SB-30	S3A	7-7.5	Nutting	CL-ML
WD-SB-31	S1	0-2	Nutting	CL
WD-SB-31	ST1	5-5.7	Nutting	CL
WD-SB-31	S3B	8-8.5	Nutting	CL
WD-SB-32	S6A	13-13.5	Nutting	CL
WD-SB-32	S2	4-4.5	Nutting	CL
WD-SB-33 (MD-MW06B)	S1B	0.6-1	Nutting	CL
WD-SB-33 (MD-MW06B)	S4A	10.5-11	Nutting	CL
WD-SB-34 (WD-PZ08C)	S2	3.2-3.7	Nutting	CL
WD-SB-34 (WD-PZ08C)	S3B	8.4-8.8	Nutting	CL
WD-SB-35 (WD-PZ10C)	S3B	5.5-6	Nutting	CL
WD-SB-36 (WD-PZ09C)	S3A	7.5-8	Nutting	CL

Table C.2 Moisture Content

Boring ID	Sample ID	Depth (ft)	Sample Type	Lab	Results
WD-MW03B	S5C	13.3-13.8	J	Nutting	10.4
WD-MW03B	S2	3-3.5	J	Nutting	10.5
WD-MW04B	ST1	5-7	T	Nutting	11.1
WD-MW04B	S8B	20.4-20.8	J	Nutting	10
WD-MW05B	S2	2.5-4.5	J	Nutting	15.9
WD-MW05B	S3B	9-9.5	J	Nutting	14.3
WD-SB-01	B1	15-17	P	Nutting	30.6
WD-SB-01	ST3	25-27	T	Nutting	33.8
WD-SB-01	S3A	7.5-8	J	Nutting	29.9
WD-SB-02	S3A	8.0-8.5	J	Nutting	26.1
WD-SB-05	S10A	30.0-30.5	J	Nutting	19.3
WD-SB-05	S13A	40-40.5	J	Nutting	16.2
WD-SB-05	S3B	8.0-8.4	J	Nutting	22.6
WD-SB-07	S1B	1-1.5	J	Nutting	11.9
WD-SB-07	S3D	6.5-6.9	J	Nutting	11
WD-SB-09	B1	5-9	P	Nutting	11.4
WD-SB-09	S5A	12.5-13	J	Nutting	10.7
WD-SB-09	S6B	15.5-16	J	Nutting	10.5
WD-SB-09	S2	2.5-4.5	J	Nutting	18.8
WD-SB-22	S5C	13.5-14	J	Nutting	16.2
WD-SB-23	S5	10-12	J	Nutting	10.2
WD-SB-23	S6B	13-13.5	J	Nutting	12.4
WD-SB-23	S3A	5-5.5	J	Nutting	11.8
WD-SB-24	S1	1-1.5	J	Nutting	19.7
WD-SB-24	S4B	8-8.5	J	Nutting	12.8
WD-SB-26	S1	1-1.5	J	Nutting	18
WD-SB-26	S2	3.1-3.5	J	Nutting	14.4
WD-SB-27	ST1	5-7	T	Nutting	11.7
WD-SB-27	S3C	9-9.5	J	Nutting	11.8
WD-SB-28	S1A	1-1.5	J	Nutting	18.7
WD-SB-28	S3D	9-9.5	J	Nutting	12.2
WD-SB-29	S1	0-2	J	Nutting	17.2
WD-SB-29	B1	7.5-10	P	Nutting	15.6
WD-SB-30	ST1	5-7	T	Nutting	10.4
WD-SB-30	S6B	16-16.5	J	Nutting	10.2
WD-SB-31	S1	0-2	J	Nutting	14.7
WD-SB-31	S3C	8.5-9	J	Nutting	6.6
WD-SB-32	S1	1-1.5	J	Nutting	15.3
WD-SB-32	S5	12.5-13	J	Nutting	9.9
WD-SB-33 (MD-MW06B)	S2A	2.5-3	J	Nutting	16.4
WD-SB-33 (MD-MW06B)	S3C	9-9.5	J	Nutting	11.4
WD-SB-34 (WD-PZ08C)	S3A	8-8.4	J	Nutting	12
WD-SB-34 (WD-PZ08C)	S3D	9.3-9.5	J	Nutting	10.1
WD-SB-35 (WD-PZ10C)	S2	3.5-4.5	J	Nutting	11.1
WD-SB-36 (WD-PZ09C)	ST1	5-7	T	Nutting	16.8

Table C.3 Hydrometer and Sieve

Boring ID	Sample ID	Depth	Sample Type	Lab	%Gravel	%Sand	%Silt	%Clay
WD-MW03B	ST1	5-7	T	Nutting	0	3.2	61.8	35
WD-MW03B	S5A	12.5-12.9	J	Nutting	0.2	12	65.8	22
WD-MW04B	S2	2.5-4.5	J	Nutting	0.1	6.7	52.2	41
WD-MW04B	S8A	20-20.4	J	Nutting	0	4.1	64.9	31
WD-MW05B	S2	2.5-4.5	J	Nutting	0.2	7.5	65.3	27
WD-MW05B	S3B	9-9.5	J	Nutting	0	8.1	61.9	30
WD-SB-01	ST1	5-7	T	Nutting	0	0.4	24.6	75
WD-SB-01	ST2	15-17	T	Nutting	0	1.2	30.8	68
WD-SB-01	S7B	21.5-22	J	Nutting	0	0.4	24.6	75
WD-SB-01	ST3	25-27	T	Nutting	0	0	37	63
WD-SB-02	ST1	5-7	T	Nutting	10.1	14.4	42.5	33
WD-SB-02	ST2	15-17	T	Nutting	0.6	5.4	31	63
WD-SB-05	S1	1-1.5	J	Nutting	0.2	5.5	50.3	44
WD-SB-05	ST2	15-17	T	Nutting	1.1	7.5	29.4	62
WD-SB-05	S7A	20.0-20.5	J	Nutting	0	2.2	43.8	54
WD-SB-05	S11A	32.5-34	J	Nutting	3.6	14.1	62.3	20
WD-SB-05	S14A	45.5-46	J	Nutting	0.2	13.7	72.1	14
WD-SB-09	ST1	5-7	T	Nutting	0	4.6	58.4	37
WD-SB-22	ST1	5-7	T	Nutting	0.3	10.3	54.4	35
WD-SB-22	S5D	14-14.5	J	Nutting	0.1	5	66.9	28
WD-SB-24	S2	2.5-4.5	J	Nutting	4.3	25.2	47.5	23
WD-SB-24	S4A	7.5-8	J	Nutting	0.1	4.2	64.7	31
WD-SB-26	ST1	5-7	T	Nutting	0	13.6	63.4	23
WD-SB-26	S6A	15-15.4	J	Nutting	0.2	7.6	66.2	26
WD-SB-26	S3B	7.9-8.3	J	Nutting	0	3.1	67.9	29
WD-SB-27	S4A	11.5-12	J	Nutting	0	4.1	58.9	37
WD-SB-27	S2A	3.5-4	J	Nutting	0.6	17.1	45.3	37
WD-SB-28	ST1	5-7	T	Nutting	0.8	6.1	65.1	28
WD-SB-28	S1A	1-1.5	J	Nutting	2.6	11.3	46.1	40
WD-SB-28	S5A	13-13.5	J	Nutting	0	0.4	61.6	38
WD-SB-29	ST1	5-7	T	Nutting	7.2	19.7	41.1	32
WD-SB-29	S5A	12.5-13.5	J	Nutting	0	3	70	27
WD-SB-29	S6A	15-16	J	Nutting	0	3.3	68.7	28
WD-SB-29	S3B	8-8.5	J	Nutting	0.1	10.4	63.5	26
WD-SB-30	S5A	12.5-13	J	Nutting	0	1.2	66.8	32
WD-SB-30	S3A	7-7.5	J	Nutting	0.5	11.2	60.3	28
WD-SB-31	ST1	5-5.7	T	Nutting	0	1.5	58.5	40
WD-SB-31	S3B	8-8.5	J	Nutting	0	16.4	59.6	24
WD-SB-32	S6A	13-13.5	J	Nutting	0	5.3	62.7	32
WD-SB-32	S2	4-4.5	J	Nutting	0.1	5	62.9	32
WD-SB-33 (MD-MW06B)	S1B	0.6-1	J	Nutting	3	6.1	48.9	42
WD-SB-33 (MD-MW06B)	S4A	10.5-11	J	Nutting	0	1.2	60.8	38
WD-SB-34 (WD-PZ08C)	S2	3.2-3.7	J	Nutting	7.9	34	29.1	29
WD-SB-34 (WD-PZ08C)	S3B	8.4-8.8	J	Nutting	0	12.9	52.1	35
WD-SB-35 (WD-PZ10C)	S3B	5.5-6	J	Nutting	0	1.3	66.7	32
WD-SB-36 (WD-PZ09C)	S3A	7.5-8	J	Nutting	0	8.2	52.8	39

Table C.4 Specific Gravity

Specific Gravity

Boring ID	Sample ID	Depth	Sample Type	Lab	Results
WD-MW03B	ST1	5-7	T	Nutting	2.776
WD-MW03B	S6A	15.5-16	J	Nutting	2.836
WD-MW04B	ST1	5-7	T	Nutting	2.781
WD-MW04B	B1	12.5-14.5	P	Nutting	2.841
WD-MW05B	S2	2.5-4.5	J	Nutting	2.808
WD-MW05B	S3B	9-9.5	J	Nutting	2.829
WD-SB-01	ST1	5-7	T	Nutting	2.767
WD-SB-01	ST2	15-17	T	Nutting	2.85
WD-SB-01	ST3	25-27	T	Nutting	2.769
WD-SB-01	ST4	35-37	T	Nutting	2.816
WD-SB-02	ST1	5-7	T	Nutting	2.535
WD-SB-02	ST2	15-17	T	Nutting	2.716
WD-SB-05	ST1	5-7	T	Nutting	2.759
WD-SB-05	ST3	25-27	T	Nutting	2.694
WD-SB-05	ST4	35-37	T	Nutting	2.743
WD-SB-09	ST1	5-7	T	Nutting	2.681
WD-SB-22	ST1	5-7	T	Nutting	2.789
WD-SB-22	S6A	15.5-15.9	J	Nutting	2.807
WD-SB-23	S5	10-12	J	Nutting	2.8
WD-SB-23	S3A	5-5.5	J	Nutting	2.818
WD-SB-24	S3A	5-5.5	J	Nutting	2.82
WD-SB-24	S4A	7.5-8	J	Nutting	2.781
WD-SB-24	S4B	8-8.5	J	Nutting	2.781
WD-SB-26	ST1	5-7	T	Nutting	2.799
WD-SB-26	S5A	12.9-13.3	J	Nutting	2.78
WD-SB-26	S6C	15.8-16.2	J	Nutting	2.789
WD-SB-26	S3C	8.3-8.7	J	Nutting	2.835
WD-SB-27	S5A	12.5-13	J	Nutting	2.821
WD-SB-27	S3A	8-8.5	J	Nutting	2.808
WD-SB-28	ST1	5-7	T	Nutting	2.71
WD-SB-28	S4	11.1-11.5	J	Nutting	2.821
WD-SB-28	S3D	9-9.5	J	Nutting	2.819
WD-SB-29	ST1	5-7	T	Nutting	2.792
WD-SB-29	ST2	17.5-17.9	T	Nutting	2.808
WD-SB-30	ST1	5-7	T	Nutting	2.793
WD-SB-30	S6A	15.5-16	J	Nutting	2.787
WD-SB-31	ST1	5-5.7	T	Nutting	2.798
WD-SB-31	S3B	8-8.5	J	Nutting	2.785
WD-SB-32	S6A	13-13.5	J	Nutting	2.802
WD-SB-32	S2	4-4.5	J	Nutting	2.802
WD-SB-33 (MD-MW06B)	ST1	5-6.1	T	Nutting	2.897
WD-SB-34 (WD-PZ08C)	S2	3.2-3.7	J	Nutting	2.849
WD-SB-34 (WD-PZ08C)	S3B	8.4-8.8	J	Nutting	2.775
WD-SB-35 (WD-PZ10C)	S4B	8-8.5	J	Nutting	2.801
WD-SB-36 (WD-PZ09C)	ST1	5-7	T	Nutting	2.799

Table C.5 Atterberg Limits

Boring ID	Sample ID	Depth	Sample Type	Lab	Plastic Limit (%)	Liquid Limit (%)	Plasticity Index (%)
WD-MW03B	ST1	5-7	T	Nutting	24	41	17
WD-MW03B	S5A	12.5-12.9	J	Nutting	19	32	13
WD-MW04B	S2	2.5-4.5	J	Nutting	23	42	19
WD-MW04B	S8A	20-20.4	J	Nutting	25	39	14
WD-MW05B	S2	2.5-4.5	J	Nutting	24	38	14
WD-MW05B	S3B	9-9.5	J	Nutting	23	39	15
WD-SB-01	ST1	5-7	T	Nutting	25	59	34
WD-SB-01	ST2	15-17	T	Nutting	26	55	29
WD-SB-01	S7B	21.5-22	J	Nutting	27	55	28
WD-SB-01	ST3	25-27	T	Nutting	24	50	26
WD-SB-01	ST4	35-37	T	Nutting	24	50	26
WD-SB-02	ST1	5-7	T	Nutting	20	42	22
WD-SB-02	ST2	15-17	T	Nutting	24	41	17
WD-SB-02	S3	7.5-8.0	J	Nutting	24	54	30
WD-SB-05	S1	1-1.5	J	Nutting	22	42	20
WD-SB-05	S5	13.6-14.0	J	Nutting	20	40	20
WD-SB-05	ST2	15-17	T	Nutting	28	56	28
WD-SB-05	S7A	20.0-20.5	J	Nutting	22	49	27
WD-SB-05	S2	3.5-4.0	J	Nutting	20	46	26
WD-SB-05	S11A	32.5-34	J	Nutting	17	26	9
WD-SB-05	ST4	35-37	T	Nutting	19	25	6
WD-SB-05	S14A	45.5-46	J	Nutting	19	21	2
WD-SB-07	S3A	5.1-5.5	J	Nutting	26	45	19
WD-SB-09	S5B	14-14.5	J	Nutting	22	37	15
WD-SB-09	S3A	7.5-8.0	J	Nutting	19	28	9
WD-SB-22	ST1	5-7	T	Nutting	22	40	18
WD-SB-22	S6B	15.9-16.3	J	Nutting	23	36	13
WD-SB-24	S2	2.5-4.5	J	Nutting	21	35	14
WD-SB-24	S4A	7.5-8	J	Nutting	23	42	19
WD-SB-26	ST1	5-7	T	Nutting	24	39	15
WD-SB-26	S6A	15-15.4	J	Nutting	22	37	15
WD-SB-26	S3B	7.9-8.3	J	Nutting	24	42	18
WD-SB-27	S4A	11.5-12	J	Nutting	23	41	18
WD-SB-27	S2A	3.5-4	J	Nutting	28	42	16
WD-SB-28	ST1	5-7	T	Nutting	23	37	14
WD-SB-28	S1A	1-1.5	J	Nutting	24	48	24
WD-SB-28	S5A	13-13.5	J	Nutting	24	43	19
WD-SB-29	ST1	5-7	T	Nutting	23	47	24
WD-SB-29	S5A	12.5-13.5	J	Nutting	22	36	14
WD-SB-29	S6A	15-16	J	Nutting	22	35	13
WD-SB-29	ST2	17.5-17.9	T	Nutting	23	40	17
WD-SB-30	S5A	12.5-13	J	Nutting	24	40	16
WD-SB-30	S3A	7-7.5	J	Nutting	26	42	16
WD-SB-31	S1	0-2	J	Nutting	24	34	10

Table C.5 Atterberg Limits

Boring ID	Sample ID	Depth	Sample Type	Lab	Plastic Limit (%)	Liquid Limit (%)	Plasticity Index (%)
WD-SB-31	ST1	5-5.7	T	Nutting	25	46	21
WD-SB-31	S3B	8-8.5	J	Nutting	20	33	13
WD-SB-32	S6A	13-13.5	J	Nutting	23	38	15
WD-SB-32	S2	4-4.5	J	Nutting	24	42	18
WD-SB-33 (MD-MW06B)	S1B	0.6-1	J	Nutting	23	46	23
WD-SB-33 (MD-MW06B)	S4A	10.5-11	J	Nutting	24	43	19
WD-SB-34 (WD-PZ08C)	S2	3.2-3.7	J	Nutting	24	42	18
WD-SB-34 (WD-PZ08C)	S3B	8.4-8.8	J	Nutting	21	38	17
WD-SB-35 (WD-PZ10C)	S3B	5.5-6	J	Nutting	24	41	16
WD-SB-36 (WD-PZ09C)	S3A	7.5-8	J	Nutting	25	46	21

Table C.6 Soil Permeability (undisturbed)

Boring ID	Sample ID	Depth	Sample Type	Lab	Results
WD-SB-01	B1	15-17	P	Nutting	3.8E-08@5psi, 1.0E-08@40psi
WD-SB-26	ST1	5-7	T	Nutting	1.9E-05,3.6E-07
WD-SB-29	ST1	5-7	T	Nutting	3.6E-08@5psi/1.9E-08@40psi

Table C.7 Soil Consolidation Properties and Triaxial Test Results

Consolidation (One-dimensional) Properties of Soil

Boring ID	Sample ID	Depth	Sample Type	Lab	Pc	Cc	Cr
WD-SB-01	ST1	5-7	T	Nutting	2.51	0.21	0.1
WD-SB-01	ST3	25-27	T	Nutting	3.59	0.38	0.15
WD-SB-02	ST2	15-17	T	Nutting	4.3	0.32	0.07
WD-SB-05	ST3	25-27	T	Nutting	3.4	0.1	0.03
WD-SB-26	ST1	5-7	T	Nutting	0.32	0.18	0.06
WD-SB-28	ST1	5-7	T	Nutting	1.65	0.12	0.05

Undrained Triaxial Compressive Test

Boring ID	Sample ID	Depth	Sample Type	Lab	Failure Stress (psi)	Confining Pressure (psi)	Failure Strain (%)
WD-SB-01	ST1	5-7	T	Nutting	3.04	2 Other 3	6.3
WD-SB-02	ST2	15-17	T	Nutting	17	24.14	15
WD-SB-28	ST1	5-7	T	Nutting	22.42	5	15.2
WD-SB-34 (WD-PZ08C)	ST1	5-7	T	Nutting	11.85	5	15.6

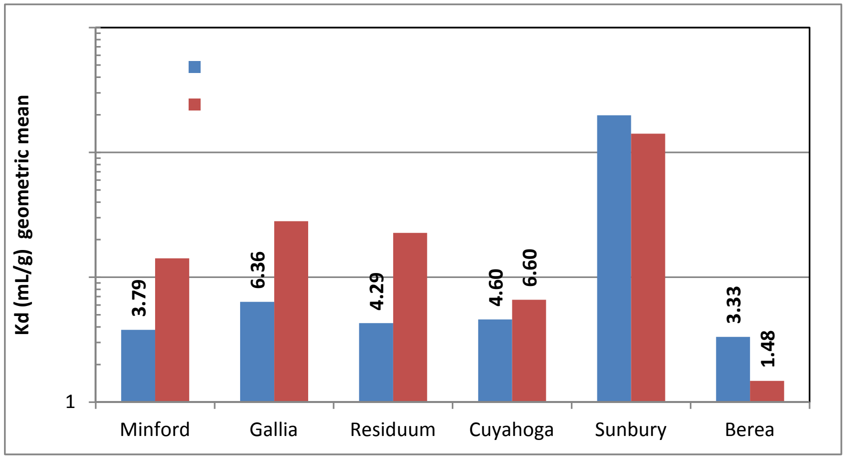
Standard Proctor

Boring ID	Sample ID	Depth	Sample Type	Lab	Max Density	Optimum Moisture
WD-SB-01	B1	15-17	P	Nutting	100.9	21.9
WD-SB-09	B1	5-9	P	Nutting	108.7	17.4
WD-SB-26	B1	10-12	P	Nutting	112.9	14.5
WD-SB-29	B1	7.5-10	P	Nutting	108.9	17.6
WD-MW03B	B1	5-9	P	Nutting	108.8	13.1

LABORATORY REPORTS

Summary table of stratigraphic horizons and Kd statistics

	Kd values (mL/g)					
	Min	**Max**	**Median**	**Mean**	**GeoMean**	**N**
Technetium -99						
Minford	2.72	4.97	4.01	3.84	3.79	15
Gallia	4.32	8.16	7.29	6.59	6.36	3
Residuum	3.08	5.93	4.28	4.37	4.29	12
Cuyahoga	3.17	8.86	4.33	4.87	4.60	6
Sunbury	130	303	217	217	198	2
Berea	3.29	3.38	3.34	3.34	3.33	2
Uranium						
Minford	3.67	118	10.4	26.1	14.2	10
Gallia	12.3	118	15.3	48.5	28.1	3
Residuum	4.20	687	17.9	77.6	22.6	12
Cuyahoga	2.04	58.5	7.03	14.82	6.60	6
Sunbury	26.3	757	392	392	141	2
Berea	1.13	1.94	1.54	1.54	1.48	2



	Tc-99 Kd values (mL/g)					
	Minford	**Gallia**	**Residuum**	**Cuyahoga**	**Sunbury**	**Berea**
	3.41	8.16	3.36	3.88	130	3.29
	2.81	7.29	4.01	4.12	303	3.38
	3.03	4.32	4.20	4.55		
	2.72		4.31	3.17		
	3.75		5.87	4.62		
	4.27		4.69	8.86		
	4.19		3.08			
	4.07		4.25			
	4.47		4.51			
	3.98		4.59			
	4.01		5.93			
	3.56		3.61			
	4.23					
	4.97					
	4.19					
Minimum	2.72	4.32	3.08	3.17	130	3.29
Maximum	4.97	8.16	5.93	8.86	303	3.38
Median	4.01	7.29	4.28	4.33	217	3.34
Mean	3.84	6.59	4.37	4.87	217	3.34
Geometric Mean	3.79	6.36	4.29	4.60	198	3.33
N	15	3	12	6	2	2

	Uranium Kd values (mL/g)					
	Minford	**Gallia**	**Residuum**	**Cuyahoga**	**Sunbury**	**Berea**
	39.4	12.3	12.7	2.34	26.3	1.94
	118	15.3	61.5	12.3	757	1.13
	5.56	118	27.8	11.7		
	5.98		44.5	2.06		
	6.32		30.6	58.5		
	8.67		15.2	2.04		
	12.1		11.8			
	3.67		7.77			
	21.8		7.44			
	39.7		4.20			
			687			
			20.6			
Minimum	3.67	12.3	4.20	2.04	26.3	1.13
Maximum	118	118	687	58.5	757	1.94
Median	10.4	15.3	17.9	7.03	392	1.54
Mean	26.1	48.5	77.6	14.8	392	1.54
Geometric Mean	14.2	28.1	22.6	6.60	141	1.48
N	10	3	12	6	2	2

Kd profile for OSDC boreholes

Southwest Research Institute (SWRI) values are plotted. If unavailable, recalculated values are plotted.
Stratigraphy taken from columns provided by B. Phillips.

NOTES

Uranium results for Oct 31 and Nov 23 data generated by spiking groundwater at a U concentration of 100 ug/L. SW Research Uranium results for Aug 31 and Sep 28 invalid due to U concentration in contact solution being too low (5 ug/L).

Tc-99 Contaminated groundwater for Nov 23 contact solution = 783 pCi/L; for Oct 31 = 663 pCi/L; for Sep 28 = 195 pCi/L; Aug 31 = 154 pCi/L.

Recalculated values will be different than SWRI results when in situ values are calculated (see red text below charts and red numbers) and when the standard equivalence test indicates that the SWRI pooled values for a solid sample used to calculate the Kd are not equivalent, which results in elimination of one or more of the results used to calculate the SWRI reported Kd value.

Uranium Kd charts are below Tc-99 charts

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borehole WDSB02 Area A/C

	southwest research		recalculated	
depth	**Kd (mL/g)**		**Kd (mL/g)**	
fbgs	Tc-99	U	Tc-99	U
2	3.41	39.4	3.42	39.2
4.5	2.81	118	2.82	110
12	3.03	5.56	3.03	5.45
19.5	8.16	12.3	8.13	12.3
24.5	7.29	15.3	7.30	15.0

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borehole WDSB05 Area A/C

	southwest research		recalculated		
depth	**Kd (mL/g)**		**Kd (mL/g)**		
fbgs	Tc-99	U	Tc-99	U	
2	2.72	5.98	2.72	5.97	
4.5	3.75	6.32	3.76	6.30	
12	4.27	8.67	4.28	8.58	average for field dups
19.5	4.19	12.1	4.20	12.1	
24.5	4.07	3.67	4.08	3.67	

SW Research Lab Report Nov 23, 2011

borehole WDSB09 Area A/C

	southwest research		recalculated	
depth	**Kd (mL/g)**		**Kd (mL/g)**	
fbgs	Tc-99	U	Tc-99	U
2	4.20	27.8	4.20	27.7
4.5	4.31	44.5	4.28	**51.9**
12	--	--	--	--
19.5	--	--	--	--
24.5	--	--	--	--

Problem with sample and dup measurements for 4.5 depth

SW Research Lab Report Aug 31, 2011

borehole WDPZ05 (WDSB13) Area C

	southwest research		recalculated		
depth	**Kd (mL/g)**		**Kd (mL/g)**		
fbgs	Tc-99	U	Tc-99	U	
2	5.87	NA	5.38	30.6	
4.5	4.69	NA	4.19	15.2	
12	4.12	NA	3.38	12.3	average for field dups
19.5	4.55	NA	3.85	11.7	

SW Research Lab Report Sep 28, 2011

borehole WDSB21 Area B

	southwest research		recalculated	
depth	**Kd (mL/g)**		**Kd (mL/g)**	
fbgs	Tc-99	U	Tc-99	U
2	4.23	NA	3.90	NA
4.5	4.97	NA	4.96	NA
12	4.19	NA	3.81	NA
19.5	4.32	NA	3.98	118

NA= U results not available

Tc-99 in contact solution for 4.5 depth is about twice that of other horizons

SW Research Lab Report Dec 30, 2011

borehole WDSB24 Area D

	southwest research		recalculated	
depth	**Kd (mL/g)**		**Kd (mL/g)**	
fbgs	Tc-99	U	Tc-99	U
50			3.17	2.06
120			130	26.3
135			3.29	1.94

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borehole WDSB29 Area D

	southwest research		recalculated	
depth	**Kd (mL/g)**		**Kd (mL/g)**	
fbgs	Tc-99	U	Tc-99	U
2	4.25	7.77	4.24	7.70
4.5	4.51	7.44	4.51	7.42
12	4.59	4.20	4.58	4.20
19.5	--	--	--	--

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borehole WDSB30 Area D

	southwest research		recalculated	
depth	**Kd (mL/g)**		**Kd (mL/g)**	
fbgs	Tc-99	U	Tc-99	U
50			8.86	2.04
120			303	757
135			3.38	1.13

In Situ Uranium Kd's calculated for Boreholes WDSB13, WDSB19 and WDSB21 using U soil concentations and U solution concentrations from SW Research results.

Based on standard equivalence test, estimated steady-state U concentrations

Sample ID	**ug/L**
WDSB21-19.5	**20.4**
WDSB19-19.5	**5.79**
WDSB19-12.0	**7.33**
WDPZ05-2.0	**1.57**
WDPZ05-4.5	**4.48**
WDPZ05-12.0	**4.57**
WDPZ05-19.5	**4.52**

Assume 90% of soil concentration is background U

	total soil	**mobile soil**		
Sample ID	**mg/kg**	**mg/kg**	**ug/L**	**Kd**
WDSB21-19.5	**24.0**	**2.4**	**20.4**	**118**
WDSB19-19.5	**2.30**	**0.23**	**5.79**	**40**
WDSB19-12.0	**1.60**	**0.16**	**7.33**	**22**
WDPZ05-2.0	**0.48**	**0.048**	**1.57**	**31**
WDPZ05-4.5	**0.68**	**0.068**	**4.48**	**15**
WDPZ05-12.0	**0.56**	**0.056**	**4.57**	**12**
WDPZ05-19.5	**0.53**	**0.053**	**4.52**	**12**

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borehole WDSB07 Area A/C

depth	southwest research Kd (mL/g)		recalculated Kd (mL/g)	
fbgs	Tc-99	U	Tc-99	U
2	3.36	12.7	3.36	13.1
4.5	4.01	61.5	4.01	60.4
12	3.88	2.34	3.87	2.33
19.5	--	--	--	--
24.5	--	--	--	--

values corrected for gravel content Kd*(1-gravel fraction)

SW Research Lab Report Sep 28, 2011

borehole WDSB19 Area B

depth	southwest research Kd (mL/g)		recalculated Kd (mL/g)	
fbgs	Tc-99	U	Tc-99	U
2	4.47	NA	6.38	NA
4.5	3.98	NA	3.94	NA
12	4.01	NA	4.00	21.8
19.5	3.56	NA	3.44	39.7

SW Research Lab Report Nov 23, 2011

borehole WDSB25 Area D

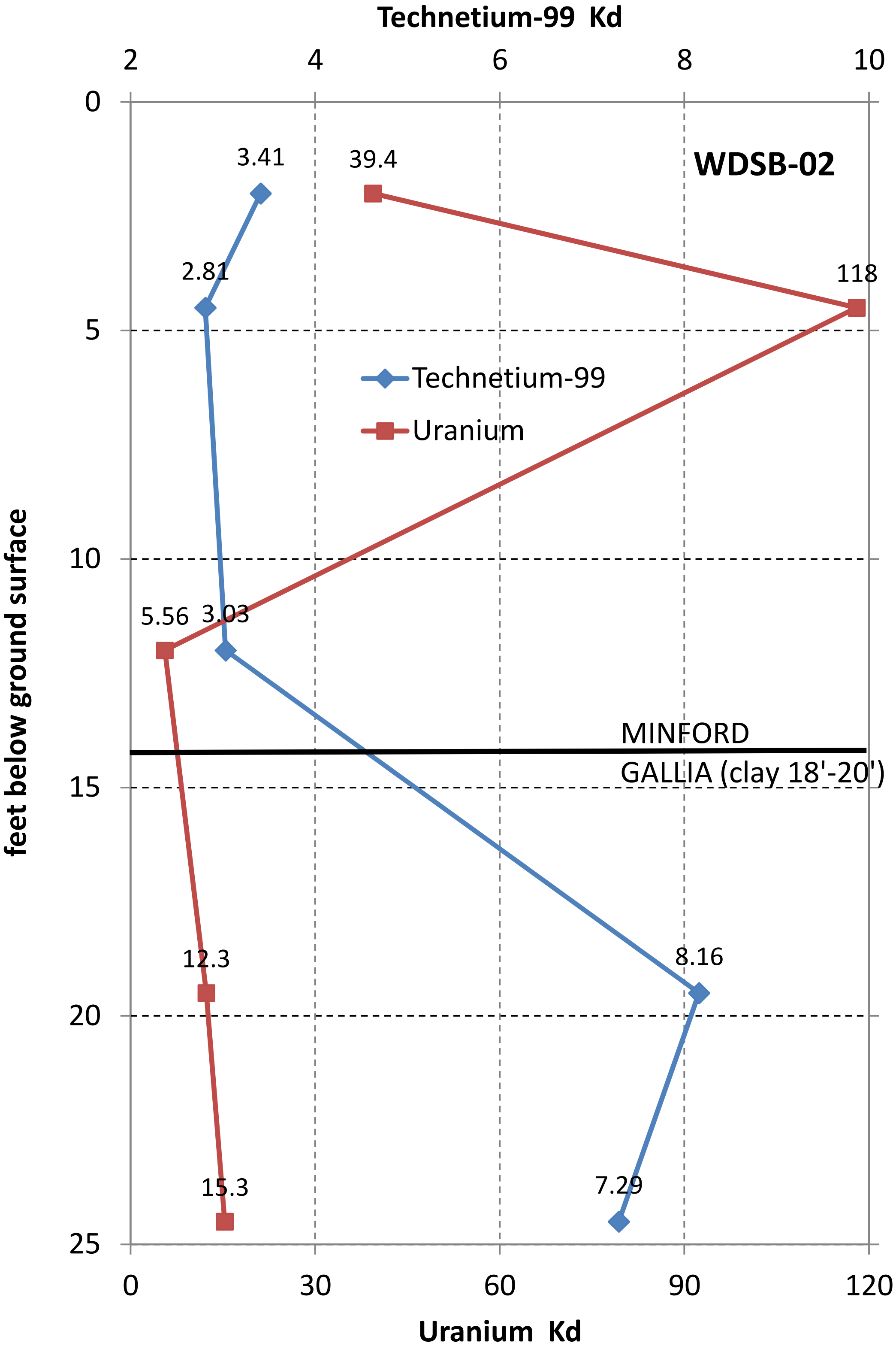
depth	southwest research Kd (mL/g)		recalculated Kd (mL/g)	
fbgs	Tc-99	U	Tc-99	U
2	3.08	11.8	3.07	11.7
4.5	4.62	58.5	4.61	60.1
12	--	--	--	--
19.5	--	--	--	--

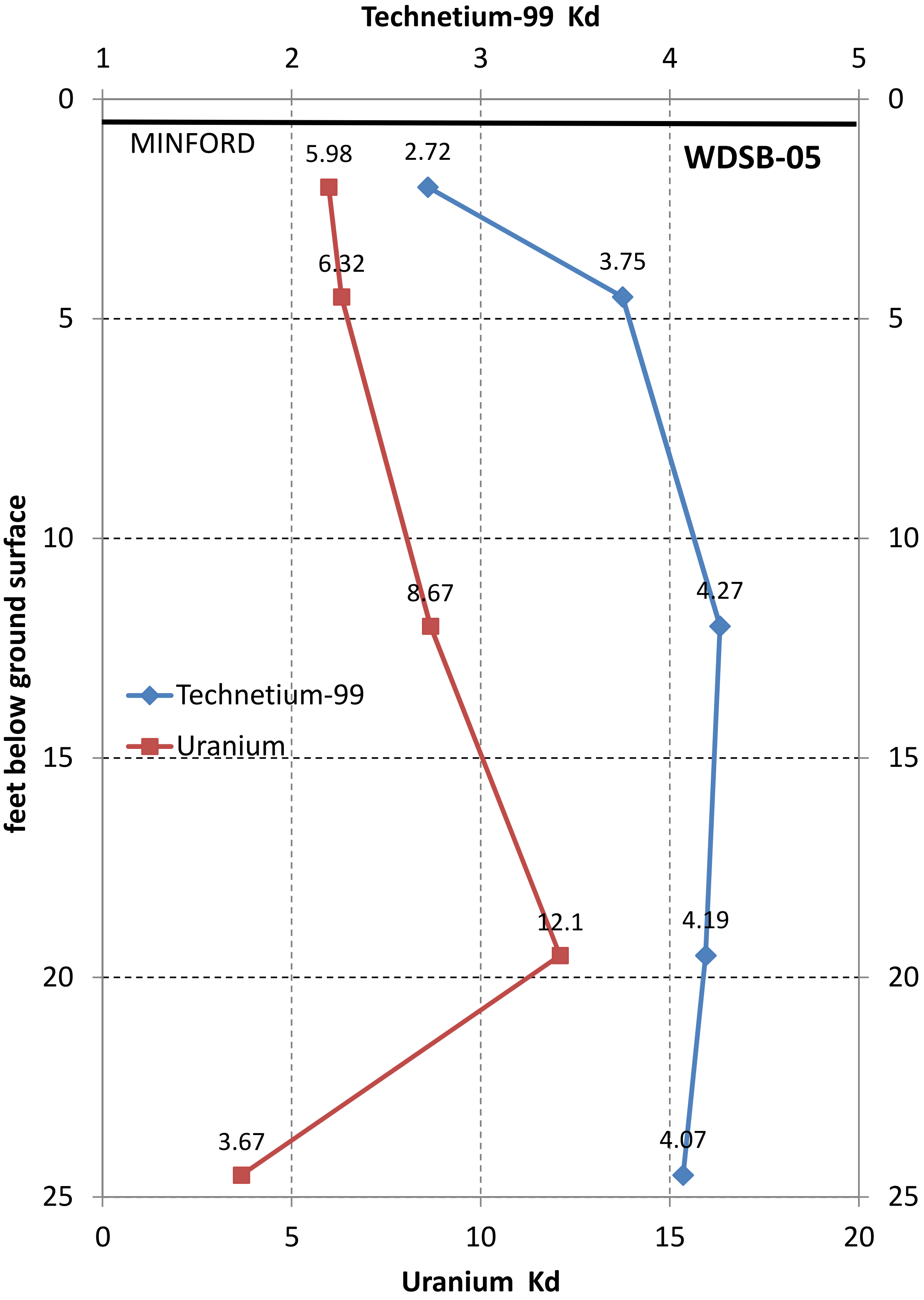
value corrected for gravel content Kd*(1-gravel fraction)

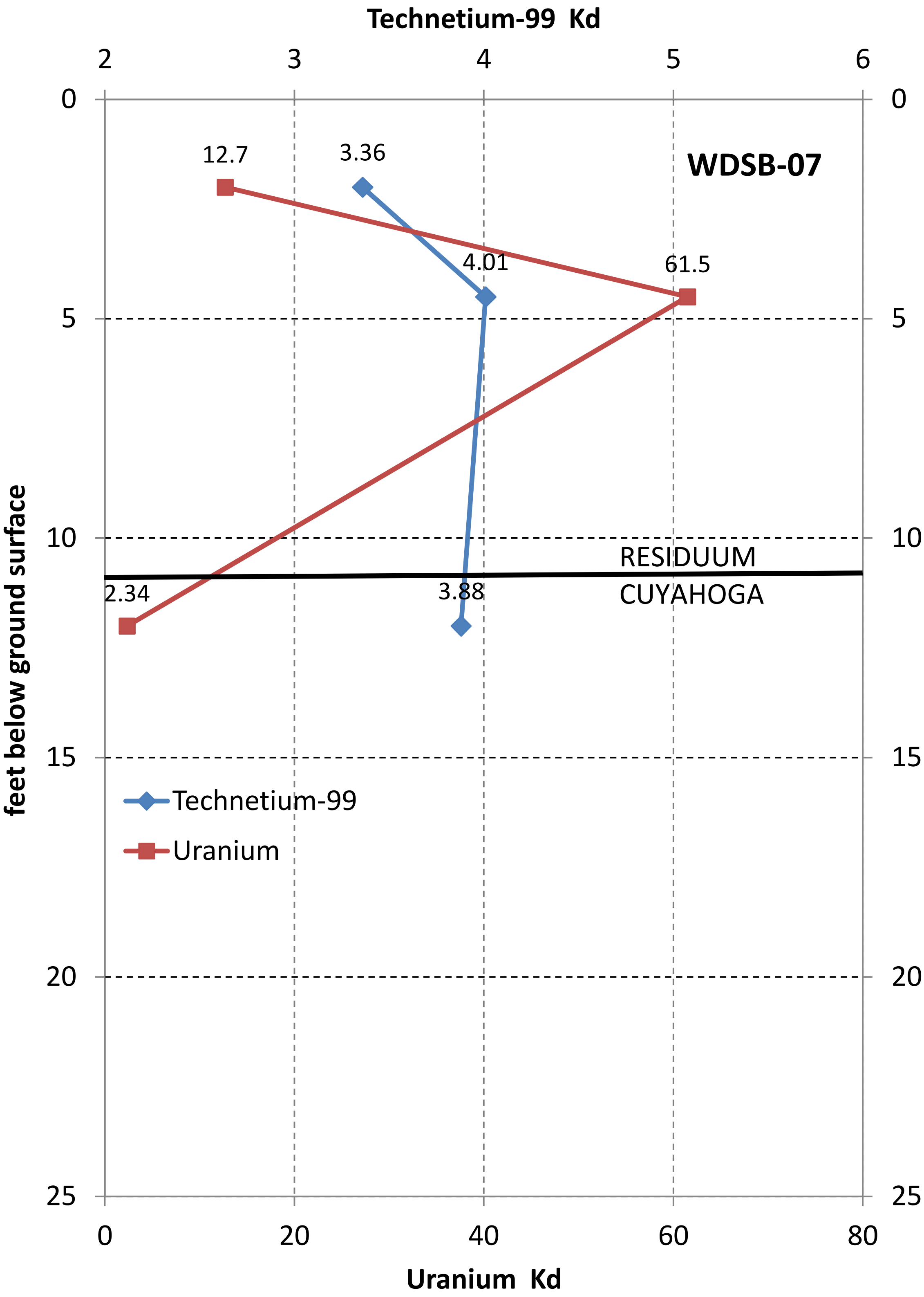
SW Research Lab Report Nov 23, 2011

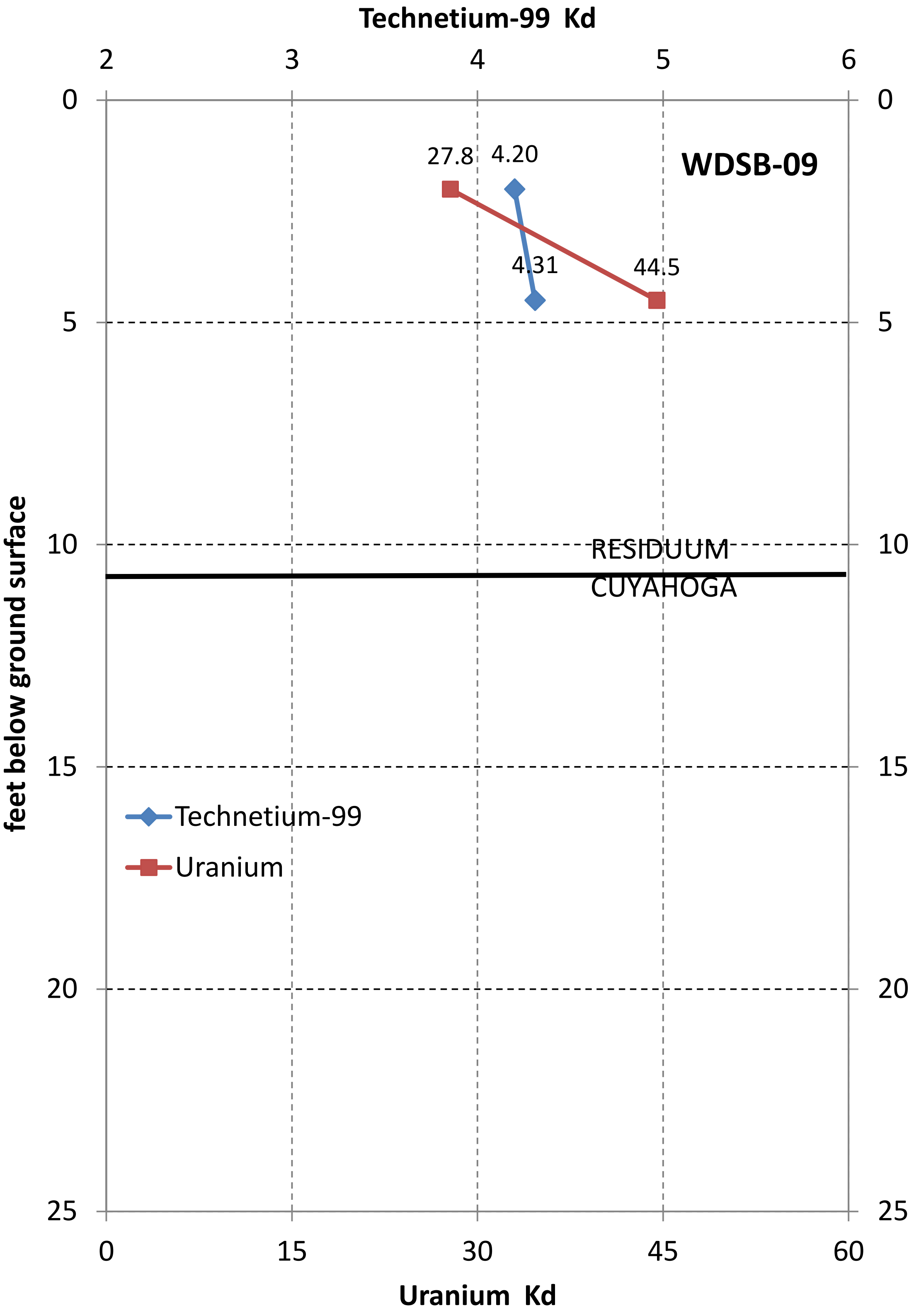
borehole WDSB31 Area D

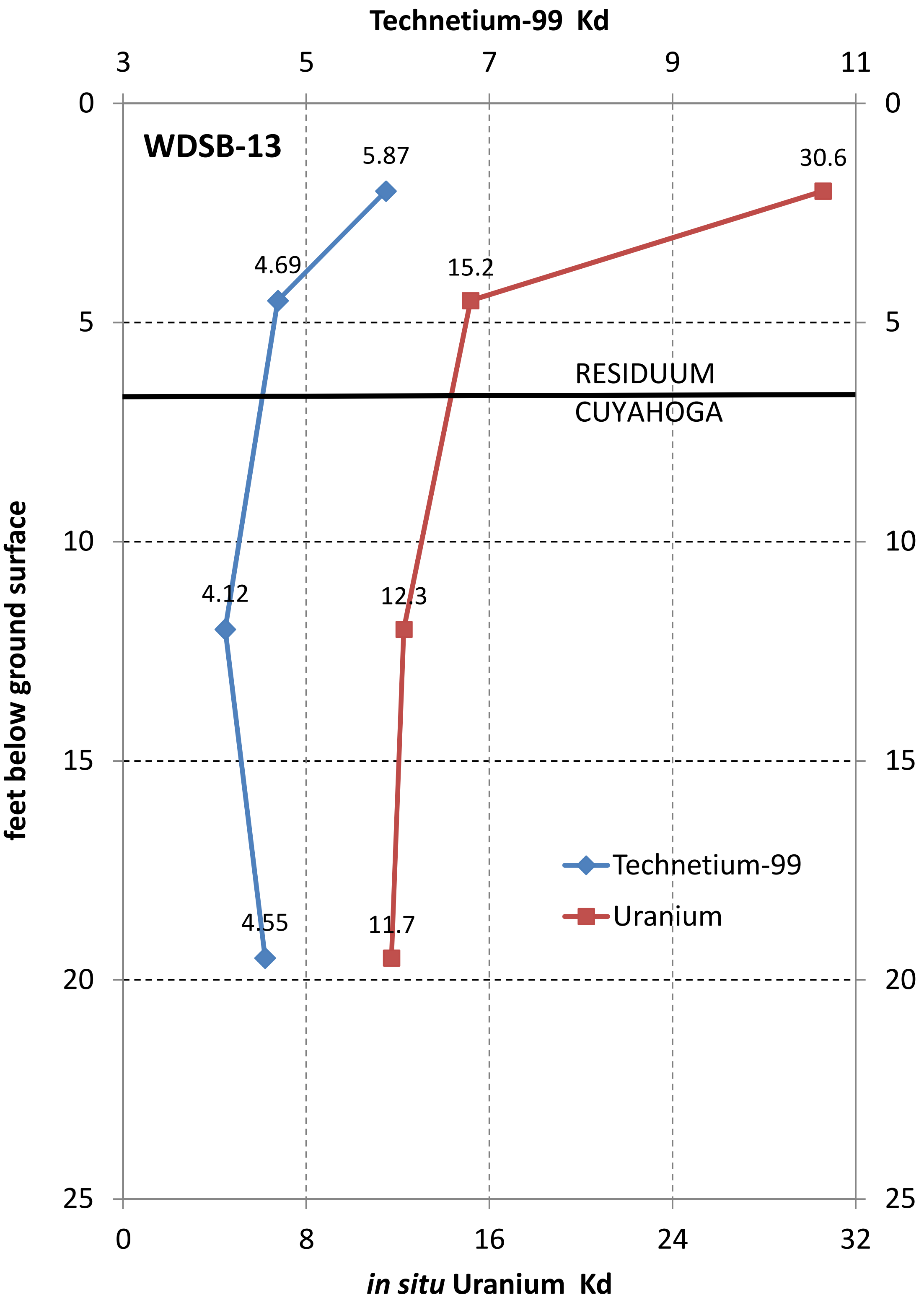
depth	southwest research Kd (mL/g)		recalculated Kd (mL/g)	
fbgs	Tc-99	U	Tc-99	U
2	5.93	687	5.90	736
4.5	3.61	20.6	3.60	14.0
12	--	--	--	--
19.5	--	--	--	--

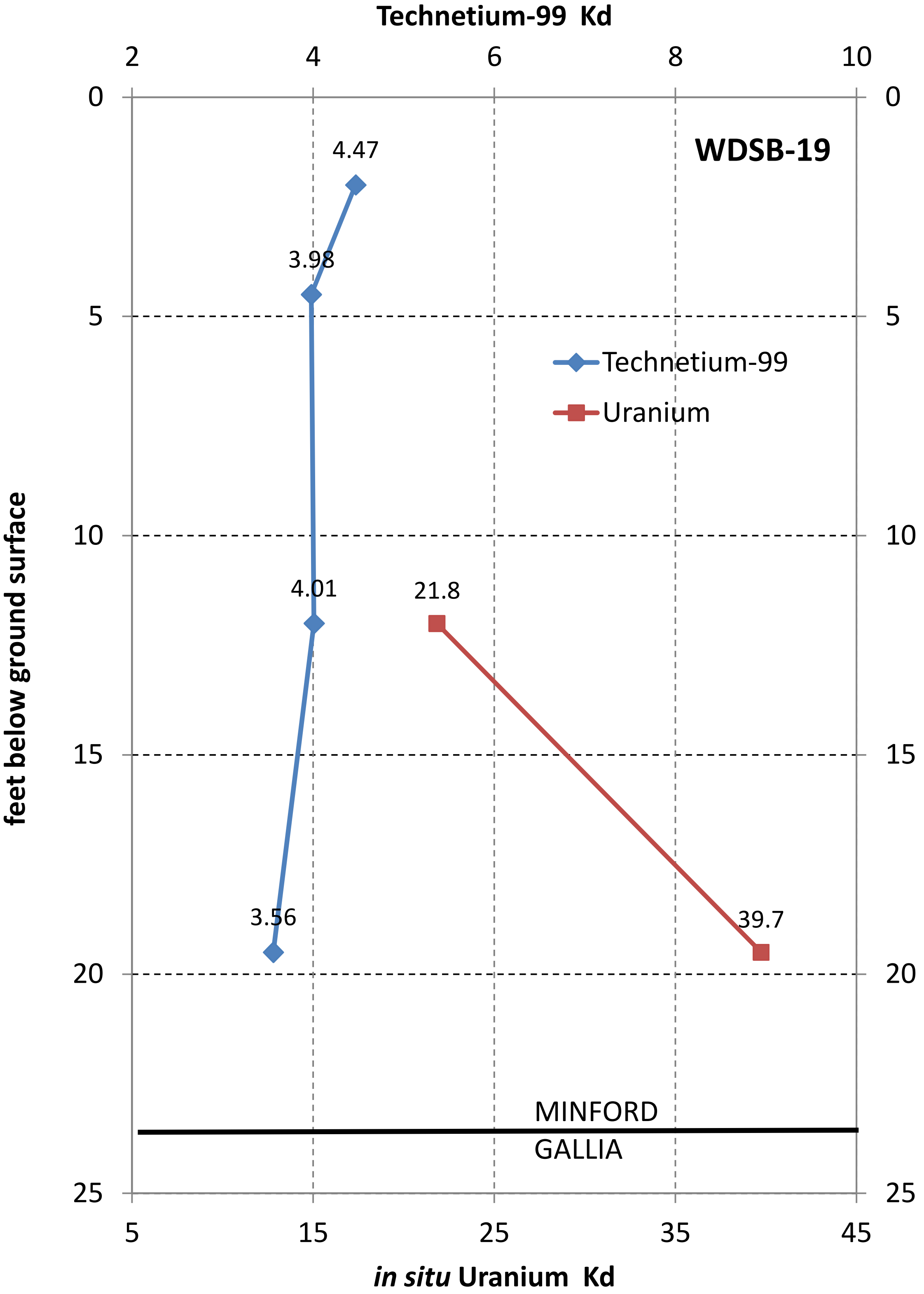

Technetium-99 Kd
2
4
6
8
10
0
5
10
15
20
25
WDSB-02
3.41
39.4
2.81
118
Technetium-99
Uranium
5.56
3.03
MINFORD
GALLIA (clay 18'-20')
12.3
8.16
15.3
7.29
feet below ground surface
0
30
60
90
120
Uranium Kd

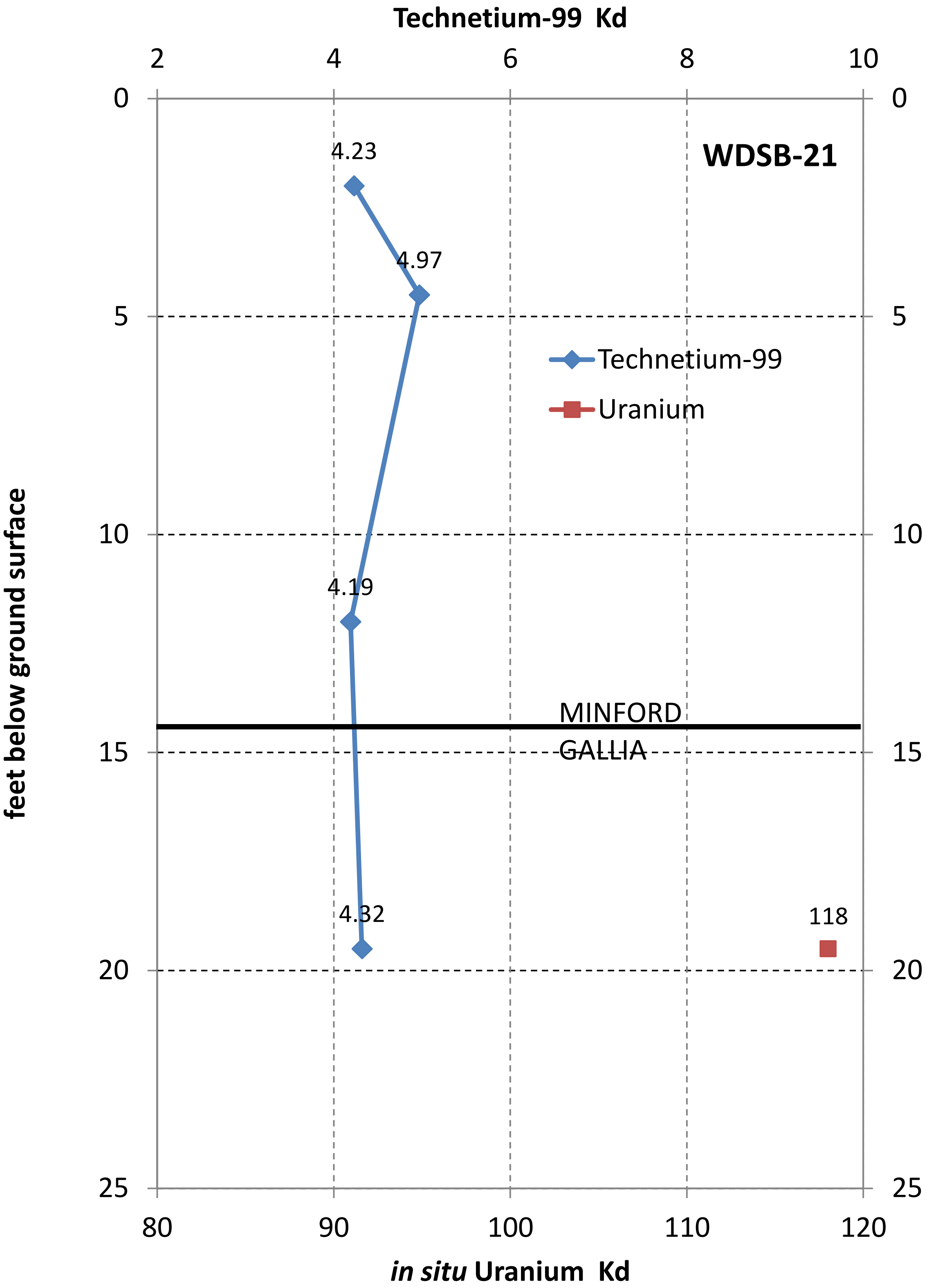

Technetium-99 Kd
1
2
3
4
5
0
5
10
15
20
25
MINFORD
WDSB-05
5.98
2.72
6.32
3.75
8.67
4.27
12.1
4.19
3.67
4.07
Technetium-99
Uranium
feet below ground surface
0
5
10
15
20
Uranium Kd

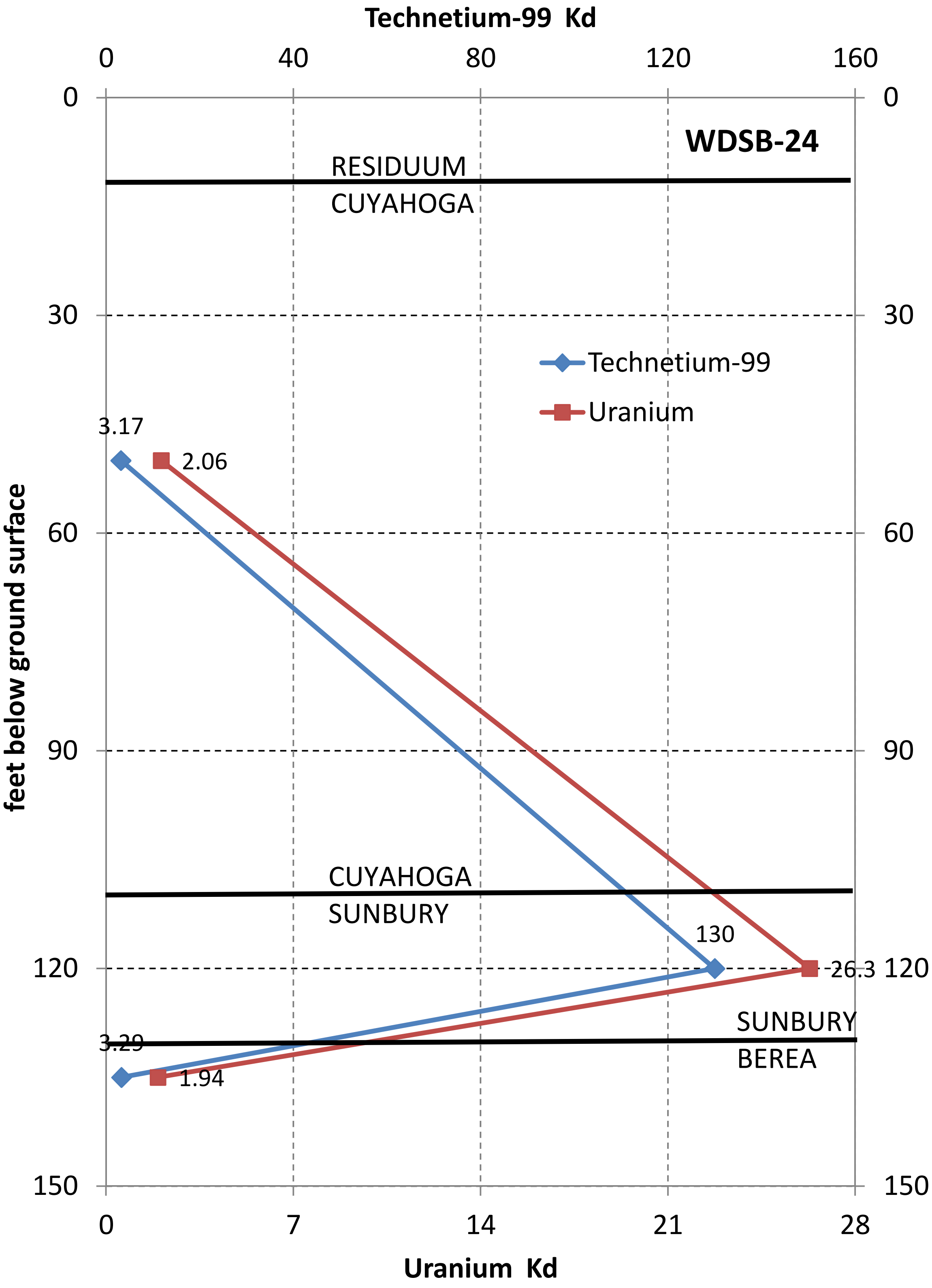

Technetium-99 Kd
2
3
4
5
6
0
5
10
15
20
25
feet below ground surface
12.7
3.36
WDSB-07
4.01
61.5
RESIDUUM
CUYAHOGA
2.34
3.88
Technetium-99
Uranium
0
20
40
60
80
Uranium Kd

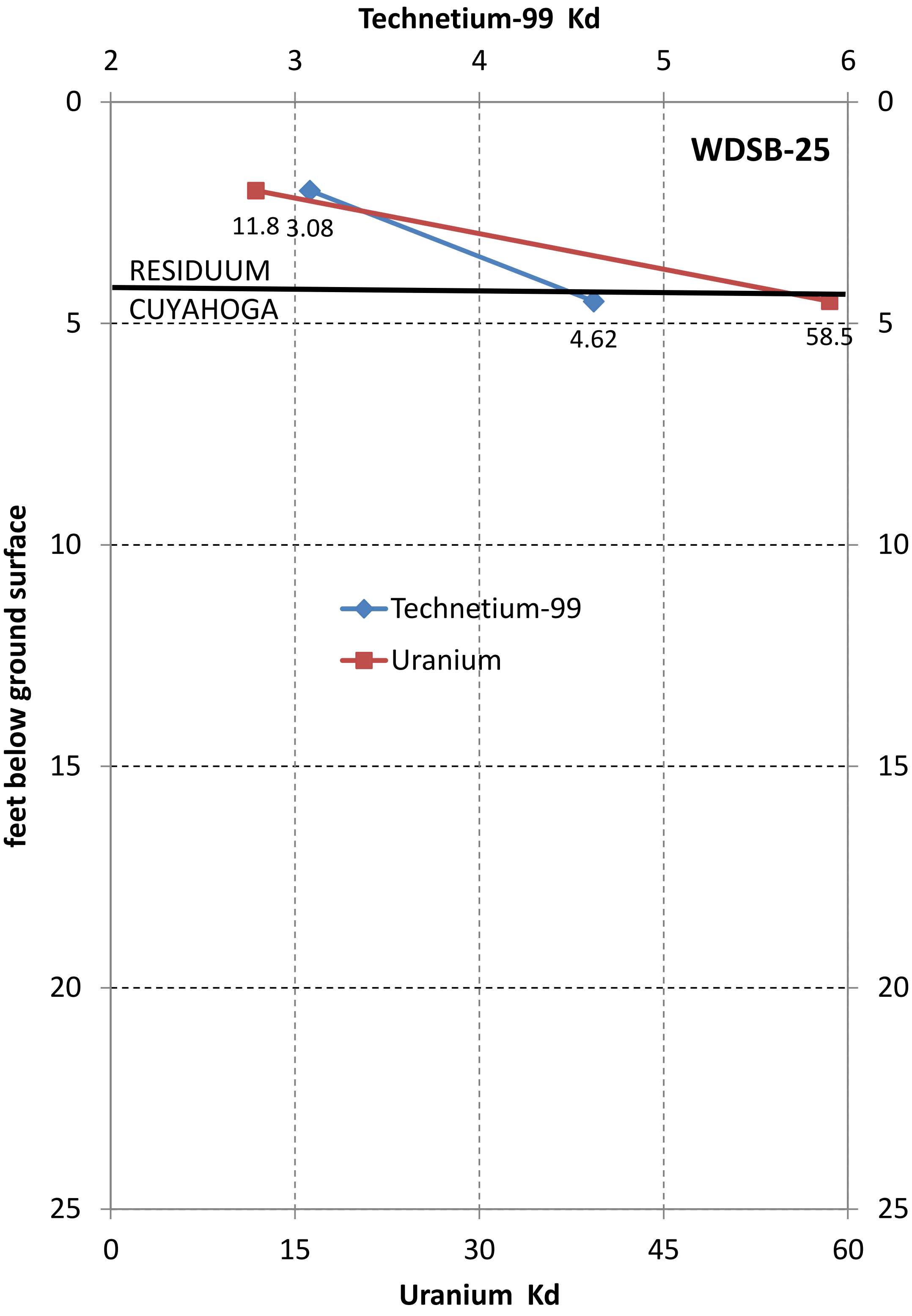

Technetium-99 Kd
2
3
4
5
6
0
5
10
15
20
25
feet below ground surface
27.8
4.20
WDSB-09
4.31
44.5
RESIDUUM
CUYAHOGA
Technetium-99
Uranium
0
15
30
45
60
Uranium Kd

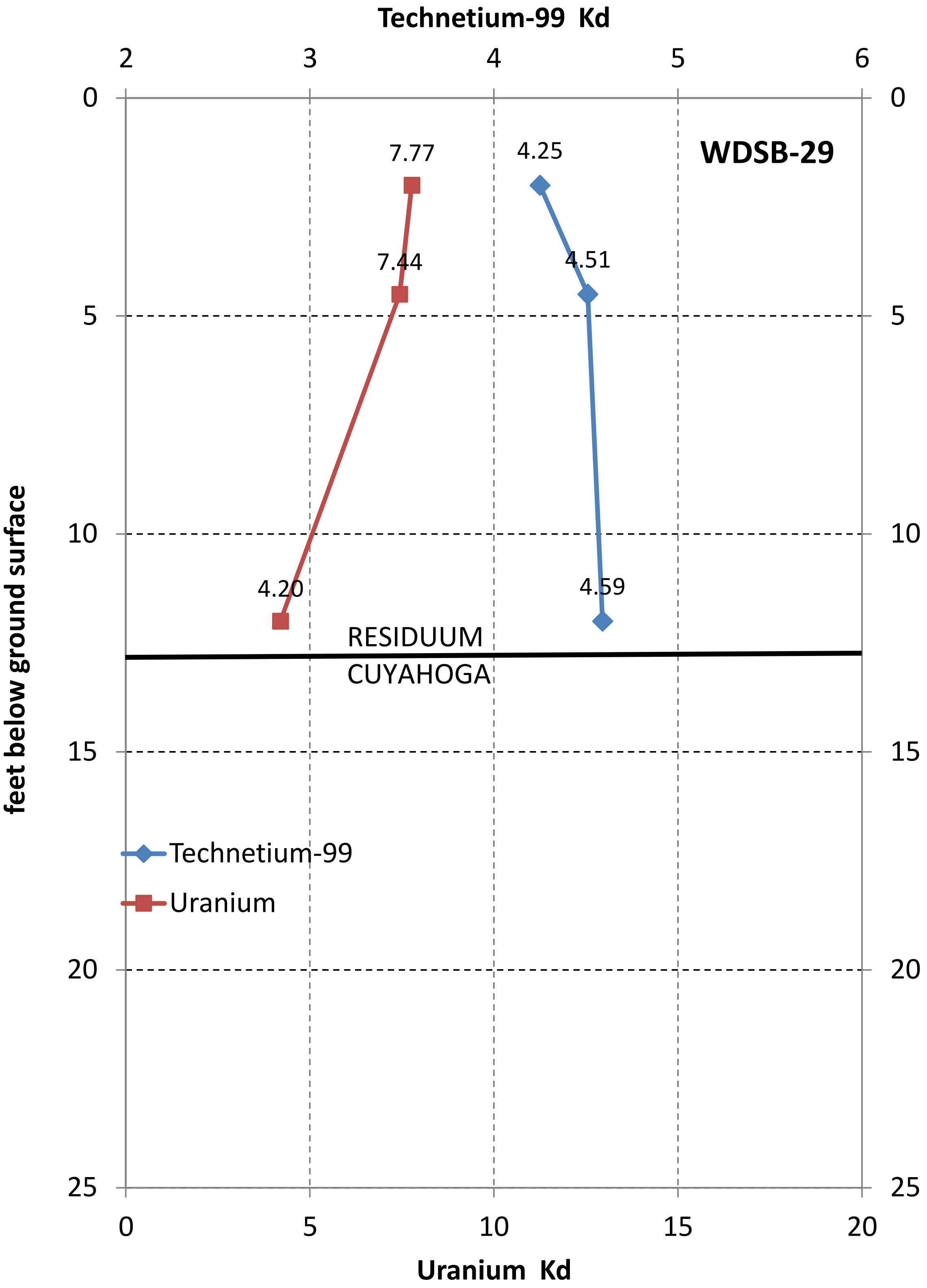

Technetium-99 Kd
3
5
7
9
11
0
5
10
15
20
25
WDSB-13
5.87
4.69
4.12
4.55
30.6
15.2
12.3
11.7
RESIDUUM
CUYAHOGA
Technetium-99
Uranium
feet below ground surface
0
8
16
24
32
in situ Uranium Kd

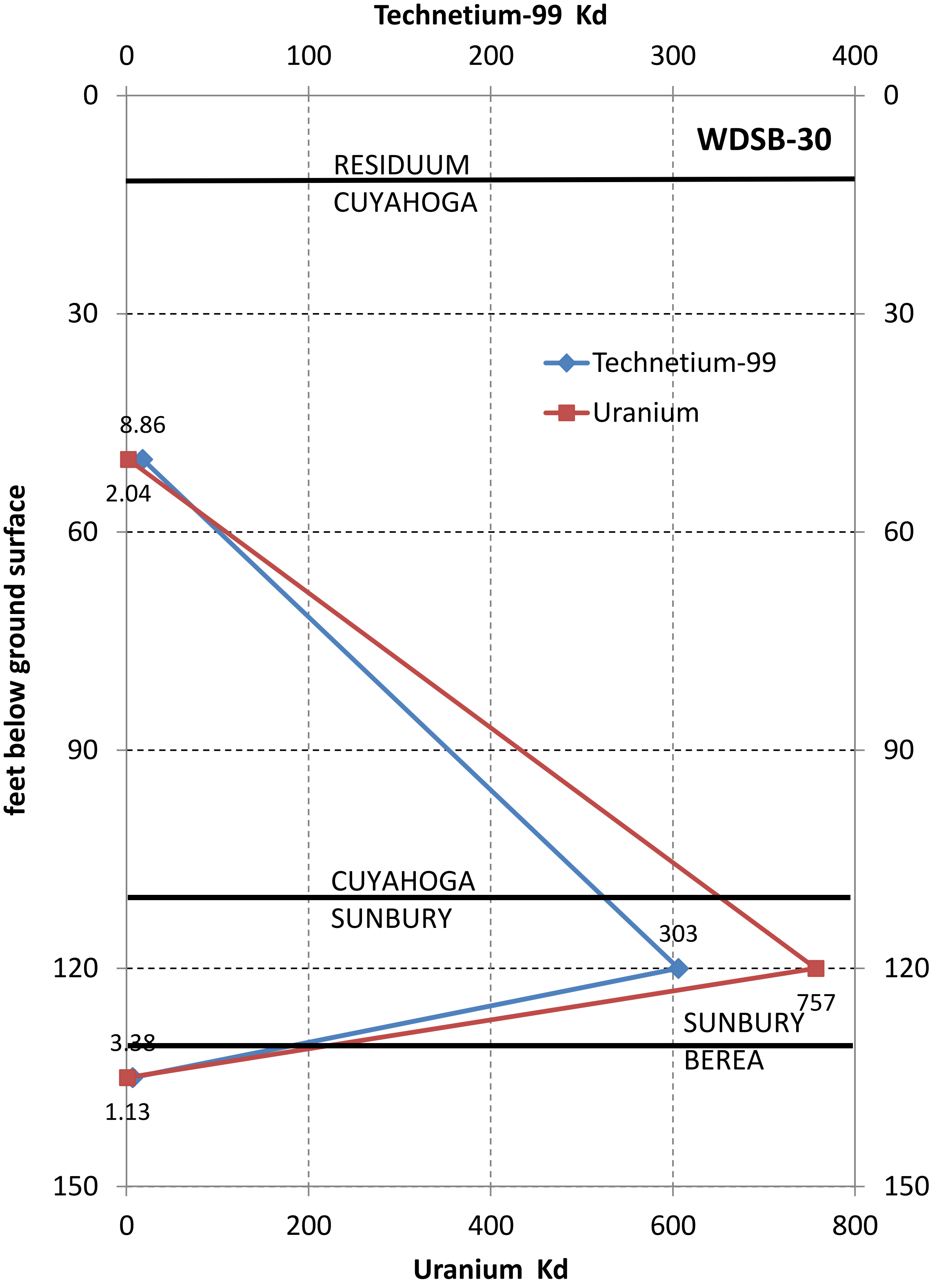

Technetium-99 Kd
2
4
6
8
10
0
5
10
15
20
25
WDSB-19
4.47
3.98
4.01
3.56
21.8
39.7
Technetium-99
Uranium
MINFORD
GALLIA
feet below ground surface
5
15
25
35
45
in situ Uranium Kd

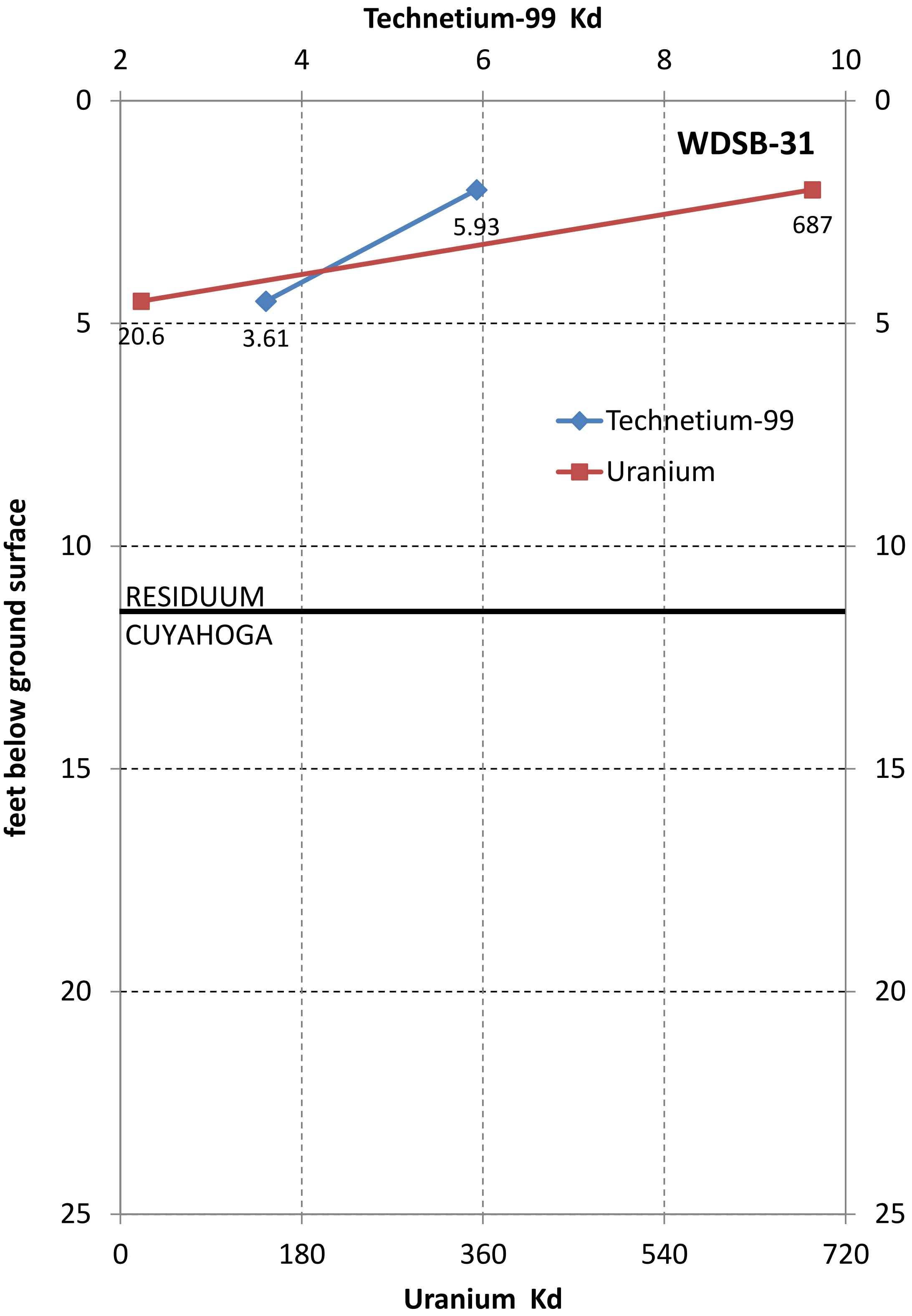

Technetium-99 Kd
2
4
6
8
10
WDSB-21
4.23
4.97
4.19
4.32
118
Technetium-99
Uranium
MINFORD
GALLIA
feet below ground surface
0
5
10
15
20
25
80
90
100
110
120
in situ Uranium Kd


Technetium-99 Kd
0
40
80
120
160
WDSB-24
RESIDUUM
CUYAHOGA
Technetium-99
Uranium
3.17
2.06
CUYAHOGA
SUNBURY
130
26.3
SUNBURY
BEREA
3.29
1.94
feet below ground surface
0
30
60
90
120
150
0
7
14
21
28
Uranium Kd


Technetium-99 Kd
2
3
4
5
6
0
5
10
15
20
25
WDSB-25
11.8
3.08
RESIDUUM
CUYAHOGA
4.62
58.5
feet below ground surface
Technetium-99
Uranium
0
15
30
45
60
Uranium Kd


Technetium-99 Kd
2
3
4
5
6
0
5
10
15
20
25
feet below ground surface
WDSB-29
7.77
7.44
4.20
4.25
4.51
4.59
RESIDUUM
CUYAHOGA
Technetium-99
Uranium
0
5
10
15
20
Uranium Kd


Technetium-99 Kd
0
100
200
300
400
WDSB-30
RESIDUUM
CUYAHOGA
Technetium-99
Uranium
8.86
2.04
CUYAHOGA
SUNBURY
303
757
SUNBURY
BEREA
3.38
1.13
feet below ground surface
0
30
60
90
120
150
Uranium Kd
0
200
400
600
800


Technetium-99 Kd
2
4
6
8
10
0
5
10
15
20
25
WDSB-31
5.93
687
20.6
3.61
Technetium-99
Uranium
RESIDUUM
CUYAHOGA
feet below ground surface
0
180
360
540
720
Uranium Kd

Laboratory Report for
Fluor-B&W Portsmouth LLC

PO 0001160/Charge No. DEAC30.0002.00.01.7201

Final Testing Program Report: 0001160-003

November 29, 2011

Daniel B. Stephens & Associates, Inc.

5840 Osuna Road NE • Albuquerque, New Mexico 87109

November 29, 2011

Tricia Jones
Fluor-B&W Portsmouth LLC
3930 U.S. Route 23 South, Building 1000
Piketon, OH 45661
(740) 897-3544

Re: DBS&A Laboratory Report for Fluor-B&W Portsmouth LLC - PO-0001160/Charge Number DEAC30.0002.00.01.7201

Dear Ms. Jones:

Enclosed is the final report for Fluor-B&W Portsmouth LLC - PO-0001160/Charge Number DEAC30.0002.00.01.7201 samples. Please review this report and provide any comments as samples will be held for a maximum of 30 days. After 30 days samples will be returned or disposed of in an appropriate manner.

All testing results were evaluated subjectively for consistency and reasonableness, and the results appear to be reasonably representative of the material tested. However, DBS&A does not assume any responsibility for interpretations or analyses based on the data enclosed, nor can we guarantee that these data are fully representative of the undisturbed materials at the field site. We recommend that careful evaluation of these laboratory results be made for your particular application.

The testing utilized to generate the enclosed final report employs methods that are standard for the industry. The results do not constitute a professional opinion by DBS&A, nor can the results affect any professional or expert opinions rendered with respect thereto by DBS&A. You have acknowledged that all the testing undertaken by us, and the final report provided, constitutes mere test results using standardized methods, and cannot be used to disqualify DBS&A from rendering any professional or expert opinion, having waived any claim of conflict of interest by DBS&A.

We are pleased to provide this service to Fluor-B&W Portsmouth LLC and look forward to future laboratory testing on other projects. If you have any questions about the enclosed data, please do not hesitate to call.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.
SOIL TESTING & RESEARCH LABORATORY

Joleen Hines
Joleen Hines
Laboratory Supervising Manager

Enclosure

Daniel B. Stephens & Associates, Inc.
Soil Testing & Research Laboratory
5840 Osuna Rd. NE 505-889-7752
Albuquerque, NM 87109 FAX 505-889-0258

Summaries

Summary of Tests Performed

Laboratory Sample Number	Initial Soil Properties[1]			Saturated Hydraulic Conductivity[2]			Moisture Characteristics[3]								Particle Size[4]			Specific Gravity[5]		Air Perm-eability	Atterberg Limits	Proctor Compaction
	G	VM	VD	CH	FH	FW	HC	PP	FP	DPP	RH	EP	WHC	K_{unsat}	DS	WS	H	F	C			
B007RC50.0-51.0	X	X				X	X	X			X			X						X		
B007RC62.7-63.7	X	X				X	X	X			X			X						X		
B009RC58.5-59.5	X	X				X	X	X		X	X			X						X		
B009RC96.5-97.5	X	X				X	X	X			X			X						X		
B029RC19.0-20.0	X	X				X	X	X		X	X			X						X		
B029RC23.0-24.0	X	X				X	X	X		X	X			X						X		
B029RC62.7-64.0	X	X				X	X	X			X			X						X		
B031RC54.0-55.0	X	X				X	X	X			X			X						X		
B031RC67.0-68.0	X	X				X	X	X		X	X			X						X		
B031RC87.0-88.0	X	X				X	X	X			X			X						X		
B031RC110-111.0	X	X				X	X	X			X			X						X		
B031RC131-132.0	X	X				X	X	X		X	X			X						X		
W001RC128-129.0	X	X				X	X	X		X	X			X						X		

[1] G = Gravimetric Moisture Content, VM = Volume Measurement Method, VD = Volume Displacement Method

[2] CH = Constant Head Rigid Wall, FH = Falling Head Rigid Wall, FW = Falling Head Rising Tail Flexible Wall

[3] HC = Hanging Column, PP = Pressure Plate, FP = Filter Paper, DPP = Dew Point Potentiometer, RH = Relative Humidity Box, EP = Effective Porosity, WHC = Water Holding Capacity, Kunsat = Calculated Unsaturated Hydraulic Conductivity

[4] DS = Dry Sieve, WS = Wet Sieve, H = Hydrometer

[5] F = Fine (<4.75mm), C = Coarse (>4.75mm)

Notes

Thirteen core samples arrived on September 2, 2011, each wrapped in plastic wrap, foil, and 1-gallon ziploc bags sealed with tape. The samples arrived in good order surrounded by packing material in three large coolers.

Saturated hydraulic conductivity was measured for all samples via the flexible wall method, as requested. Separate samples were placed in silicone inside rigid testing rings for air permeability and moisture retention testing. Several of the rigid wall sub-samples did not produce visible outflow during saturation using the rigid-wall apparatus. These samples were saturated via the flexible wall apparatus prior to initiating moisture retention testing.

The volume and specific gravity of the flexible wall sub-samples were measured based on the measured saturated sample mass in water and in air. The dry bulk density of these sub-samples was then calculated using the measured oven dry mass. For consistency, the measured density of the flexible wall sub-sample was also applied to the corresponding rigid wall sub-sample that was used for moisture retention testing and air permeability measurements and calculations.

Moisture retention properties measurements via the dewpoint potentiometer were inappropriate, and therefore not reported, for several of the samples.

The van Genuchten modeling parameters provided in this report were obtained based on the measured moisture retention points using the RETC code for quantifying the hydraulic functions of unsaturated soils. Readers of this report are encouraged to independently evaluate the data and note that modeling parameters may be generated using other means, if desired.

Air permeability of the samples was measured at the ‘as receive’ moisture content and at the oven dry state using the rigid wall sub-sample. The air permeability measurements of the samples at the as received state contained moisture, though the air permeability test is applicable for oven dry material. And, several of the samples had visible fractures at the oven dry state, leading to suspected preferential air flow during testing, as noted on the air permeability report sheets.

Calculated relative nonwetting phase (air) permeability as a function of wetting phase (water) saturation was calculated for the samples at each reported moisture retention point. The van Genuchten model for calculating air permeability was used, this is the most commonly used method, based on measured flexible wall saturated hydraulic conductivity and the measured moisture retention properties.

Summary of Sample Preparation/Volume Changes

	Initial Sample Data[1]		Volume Change Post Saturation[2]			Volume Change Post Drying Curve[3]		
Sample Number	Moisture Content (%, g/g)	Dry Bulk Density (g/cm^3)	Dry Bulk Density (g/cm^3)	% Volume Change (%)	% of Initial Density (%)	Dry Bulk Density (g/cm^3)	% Volume Change (%)	% of Initial Density (%)
B007RC50.0-51.0	5.0	2.35	2.35	---	100.0%	2.35	---	100.0%
B007RC62.7-63.7	5.6	2.15	2.15	---	100.0%	2.15	---	100.0%
B009RC58.5-59.5	5.6	2.30	2.26	+1.8%	98.3%	2.26	+1.8%	98.3%
B009RC96.5-97.5	4.0	2.42	2.42	---	100.0%	2.42	---	100.0%
B029RC19.0-20.0	10.7	2.24	2.24	---	100.0%	2.24	---	100.0%
B029RC23.0-24.0	6.2	2.27	2.27	---	100.0%	2.27	---	100.0%
B029RC62.7-64.0	5.2	2.18	2.18	---	100.0%	2.18	---	100.0%
B031RC54.0-55.0	5.9	2.30	2.30	---	100.0%	2.30	---	100.0%
B031RC67.0-68.0	4.2	2.59	2.59	---	100.0%	2.59	---	100.0%
B031RC87.0-88.0	4.1	2.41	2.41	---	100.0%	2.41	---	100.0%
B031RC110-111.0	5.2	2.22	2.22	---	100.0%	2.22	---	100.0%
B031RC131-132.0	8.6	2.16	2.16	---	100.0%	2.16	---	100.0%
W001RC128-129.0	6.1	2.07	2.07	---	100.0%	2.07	---	100.0%

[1] Initial Sample Data: The 'as received' dry bulk density and moisture content.

[2] Volume Change Post Saturation: Volume change measurements were obtained after saturated hydraulic conductivity testing.

[3] Volume Change Post Drying Curve: Volume change measurements were obtained throughout hanging column and pressure plate testing. The 'Volume Change Post Drying Curve' values represent the final sample dimensions after the last pressure plate point.

Notes:

"+" indicates sample swelling, "-" indicates sample settling, and "---" indicates no volume change occurred.

Summary of Initial Moisture Content, Dry Bulk Density
Wet Bulk Density and Calculated Porosity

	Moisture Content						
	As Received		Remolded				
Sample Number	Gravimetric (%, g/g)	Volumetric (%, cm^3/cm^3)	Gravimetric (%, g/g)	Volumetric (%, cm^3/cm^3)	Dry Bulk Density (g/cm^3)	Wet Bulk Density (g/cm^3)	Calculated Porosity (%)
B007RC50.0-51.0	5.0	11.7	---	---	2.35	2.47	14.0
B007RC62.7-63.7	5.6	12.1	---	---	2.15	2.27	12.9
B009RC58.5-59.5	5.6	13.0	---	---	2.30	2.43	15.3
B009RC96.5-97.5	4.0	9.8	---	---	2.42	2.52	11.2
B029RC19.0-20.0	10.7	23.9	---	---	2.24	2.48	24.3
B029RC23.0-24.0	6.2	14.2	---	---	2.27	2.42	16.6
B029RC62.7-64.0	5.2	11.4	---	---	2.18	2.30	12.3
B031RC54.0-55.0	5.9	13.6	---	---	2.30	2.43	15.8
B031RC67.0-68.0	4.2	10.9	---	---	2.59	2.70	11.7
B031RC87.0-88.0	4.1	9.8	---	---	2.41	2.50	11.8
B031RC110-111.0	5.2	11.6	---	---	2.22	2.33	13.2
B031RC131-132.0	8.6	18.5	---	---	2.16	2.35	19.6
W001RC128-129.0	6.1	12.7	---	---	2.07	2.20	21.5

NA = Not analyzed
--- = This sample was not remolded

Summary of Saturated Hydraulic Conductivity Tests

Sample Number	K_{sat} (cm/sec)	Oversize Corrected K_{sat} (cm/sec)	Method of Analysis: Constant Head Flexible Wall	Method of Analysis: Falling Head Flexible Wall
B007RC50.0-51.0	2.5E-09	NA		X
B007RC62.7-63.7	4.3E-09	NA		X
B009RC58.5-59.5	1.2E-09	NA		X
B009RC96.5-97.5	1.6E-09	NA		X
B029RC19.0-20.0	1.4E-06	NA		X
B029RC23.0-24.0	8.1E-10	NA		X
B029RC62.7-64.0	4.0E-10	NA		X
B031RC54.0-55.0	3.2E-07	NA		X
B031RC67.0-68.0	1.8E-07	NA		X
B031RC87.0-88.0	3.7E-10	NA		X
B031RC110-111.0	8.6E-09	NA		X
B031RC131-132.0	3.2E-05	NA		X
W001RC128-129.0	4.4E-05	NA		X

--- = Oversize correction is unnecessary since coarse fraction < 5% of composite mass
NR = Not requested
NA = Not applicable

Summary of Moisture Characteristics and Nonwetting Phase (Air) Permeability of the Initial Drainage Curve

Sample Number	Pressure Head (-cm water)	Moisture Content (%, cm^3/cm^3)	Calculated Air Permeability VGM[1] (cm^2)	Measured Air Permeability ASTM D4525 (cm^2)
B007RC50.0-51.0	0	13.9	0.0E+00	---
	63	13.7	2.1E-14	---
	186	13.4	2.8E-13	---
	337	13.3	3.7E-13	---
	1275	13.2	4.4E-13	---
	As Received	11.7	1.7E-12	1.9E-13
	857025	3.5	5.2E-12	---
	Oven Dry	0.0	6.0E-12	3.3E-09 *
B007RC62.7-63.7	0	14.1	0.0E+00	---
	71	14.0	2.8E-16	---
	175	13.6	3.5E-15	---
	337	13.5	4.0E-15	---
	1275	13.2	6.5E-15	---
	As Received	12.1	1.3E-14	ND
	857025	4.7	3.5E-14	---
	Oven Dry	0.0	4.4E-14	5.1E-12 *
B009RC58.5-59.5	0	16.1 ‡‡	0.0E+00	---
	69	16.1 ‡‡	6.4E-18	---
	158	15.9 ‡‡	6.7E-17	---
	337	15.9 ‡‡	8.6E-17	---
	1275	15.8 ‡‡	1.8E-16	---
	As Received	13.0 ‡‡	3.0E-15	ND
	15705	10.3 ‡‡	5.6E-15	---
	23863	8.0 ‡‡	7.6E-15	---
	39466	5.9 ‡‡	9.0E-15	---
	73426	4.8 ‡‡	9.7E-15	---
	148687	3.4 ‡‡	1.0E-14	---
	250973	2.9 ‡‡	1.1E-14	---
	857025	1.2 ‡‡	1.1E-14	---
	Oven Dry	0.0 ‡‡	1.2E-14	2.0E-12 *

---

[1] Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728. van Genuchten (VGM) model used.

* = Fractures visible, preferential flow suspected.

Summary of Moisture Characteristics and Nonwetting Phase (Air) Permeability of the Initial Drainage Curve

Sample Number	Pressure Head (-cm water)	Moisture Content (%, cm^3/cm^3)	Calculated Air Permeability VGM[1] (cm^2)	Measured Air Permeability ASTM D4525 (cm^2)
B009RC96.5-97.5	0	11.7	0.0E+00	---
	70	11.3	2.0E-16	---
	173	11.2	6.2E-16	---
	337	11.2	6.8E-16	---
	1275	11.1	8.1E-16	---
	As Received	9.8	4.4E-15	ND
	857025	3.0	1.4E-14	---
	Oven Dry	0.0	1.6E-14	1.0E-12
B029RC19.0-20.0	As Received	23.9	0.0E+00	4.0E-13
	0	22.7	0.0E+00	---
	66	22.7	7.3E-14	---
	161	22.6	9.8E-14	---
	337	22.6	1.1E-13	---
	1275	22.0	5.5E-13	---
	18968	8.7	1.1E-11	---
	27739	7.3	1.1E-11	---
	40486	6.0	1.2E-11	---
	66083	4.3	1.3E-11	---
	140936	2.9	1.3E-11	---
	820837	1.9	1.4E-11	---
	857025	1.7	1.4E-11	---
	Oven Dry	0.0	1.4E-11	3.8E-12
B029RC23.0-24.0	0	17.0	0.0E+00	---
	70	16.7	9.5E-18	---
	171	16.5	6.5E-17	---
	337	16.5	8.3E-17	---
	1275	16.1	3.6E-16	---
	As Received	14.2	1.9E-15	ND
	37631	10.6	4.3E-15	---
	62718	8.3	5.5E-15	---
	140936	6.8	6.2E-15	---
	245364	5.0	6.9E-15	---
	857025	3.0	7.5E-15	---
	Oven Dry	0.0	8.3E-15	5.6E-12 *

---

[1] Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728. van Genuchten (VGM) model used.

* = Fractures visible, preferential flow suspected.

Summary of Moisture Characteristics and Nonwetting Phase (Air) Permeability of the Initial Drainage Curve

Sample Number	Pressure Head (-cm water)	Moisture Content (%, cm^3/cm^3)	Calculated Air Permeability VGM[1] (cm^2)	Measured Air Permeability ASTM D4525 (cm^2)
B029RC62.7-64.0	As Received	11.4	0.0E+00	ND
	0	11.2	0.0E+00	---
	72	10.5	3.4E-16	---
	171	10.3	5.8E-16	---
	337	10.3	6.1E-16	---
	1275	10.2	6.5E-16	---
	857025	5.2	2.9E-15	---
	Oven Dry	0.0	4.0E-15	2.7E-12
B031RC54.0-55.0	As Received	13.6	0.0E+00	1.0E-13
	0	13.5	0.0E+00	---
	73	13.5	6.5E-15	---
	174	13.4	3.0E-14	---
	337	13.3	6.1E-14	---
	1275	13.3	8.2E-14	---
	857025	3.1	2.9E-12	---
	Oven Dry	0.0	3.3E-12	5.7E-12 *
B031RC67.0-68.0	0	11.3	0.0E+00	---
	67	11.0	8.9E-15	---
	180	10.9	2.3E-14	---
	337	10.9	3.8E-14	---
	As Received	10.9	3.1E-14	1.1E-13
	1275	10.5	1.2E-13	---
	16929	5.4	1.2E-12	---
	28146	4.3	1.4E-12	---
	58842	3.1	1.5E-12	---
	183258	2.0	1.6E-12	---
	857025	0.7	1.8E-12	---
	Oven Dry	0.0	1.8E-12	1.3E-12

---

[1] Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728. van Genuchten (VGM) model used.

* = Fractures visible, preferential flow suspected.

Summary of Moisture Characteristics and Nonwetting Phase (Air) Permeability of the Initial Drainage Curve

Sample Number	Pressure Head (-cm water)	Moisture Content (%, cm^3/cm^3)	Calculated Air Permeability VGM[1] (cm^2)	Measured Air Permeability ASTM D4525 (cm^2)	
B031RC87.0-88.0	0	12.7	0.0E+00	---	
	69	12.4	4.3E-17	---	
	172	12.3	7.4E-17	---	
	337	12.3	8.4E-17	---	
	1275	12.2	1.0E-16	---	
	As Received	9.8	1.4E-15	ND	
	857025	2.7	3.3E-15	---	
	Oven Dry	0.0	3.8E-15	4.4E-11	*
B031RC110-111.0	0	11.8	0.0E+00	---	
	As Received	11.6	0.0E+00	ND	
	77	11.2	6.1E-15	---	
	152	11.2	7.1E-15	---	
	337	11.1	7.7E-15	---	
	1275	11.1	8.6E-15	---	
	857025	4.8	6.7E-14	---	
	Oven Dry	0.0	8.8E-14	2.6E-12	*
B031RC131-132.0	0	18.6	0.0E+00	---	
	18	18.5	1.3E-11	---	
	As Received	18.5	1.2E-11	3.0E-12	
	72	18.5	1.4E-11	---	
	155	18.4	1.5E-11	---	
	337	11.4	1.7E-10	---	
	1275	5.7	2.7E-10	---	
	27433	2.3	3.0E-10	---	
	41506	2.0	3.1E-10	---	
	69244	1.4	3.1E-10	---	
	152358	1.1	3.1E-10	---	
	290031	0.9	3.2E-10	---	
	857025	0.4	3.2E-10	---	
	Oven Dry	0.0	3.2E-10	9.8E-10	

---

[1] Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728. van Genuchten (VGM) model used.

* = Fractures visible, preferential flow suspected.

Summary of Moisture Characteristics and Nonwetting Phase (Air) Permeability of the Initial Drainage Curve

Sample Number	Pressure Head (-cm water)	Moisture Content (%, cm^3/cm^3)	Calculated Air Permeability VGM[1] (cm^2)	Measured Air Permeability ASTM D4525 (cm^2)
W001RC128-129.0	0	19.0	0.0E+00	---
	22	19.2	2.9E-12	---
	80	19.3	2.2E-12	---
	173	18.3	1.4E-11	---
	As Received	12.7	1.5E-10	9.4E-12
	337	9.6	2.5E-10	---
	1275	5.4	3.6E-10	---
	25291	1.9	4.3E-10	---
	35693	1.6	4.4E-10	---
	89538	1.2	4.4E-10	---
	196108	0.9	4.4E-10	---
	324602	0.8	4.4E-10	---
	660321	0.6	4.4E-10	---
	857025	0.3	4.4E-10	---
	Oven Dry	0.0	4.4E-10	1.4E-09

---

[1] Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728. van Genuchten (VGM) model used.

* = Fractures visible, preferential flow suspected.

Summary of Calculated Unsaturated Hydraulic Properties

Sample Number	α (cm^{-1})	N (dimensionless)	θ_r (% vol)	θ_s (% vol)	Oversize Corrected θ_r (% vol)	Oversize Corrected θ_s (% vol)
B007RC50.0-51.0	0.0002	1.2606	0.00	13.60	NA	NA
B007RC62.7-63.7	0.0004	1.1856	0.00	13.91	NA	NA
B009RC58.5-59.5	0.0001	1.5321	0.00	16.04	NA	NA
B009RC96.5-97.5	0.0002	1.2776	0.00	11.37	NA	NA
B029RC19.0-20.0	0.0003	1.5515	0.00	22.84	NA	NA
B029RC23.0-24.0	0.0001	1.4125	0.00	16.59	NA	NA
B029RC62.7-64.0	0.0006	1.1154	0.00	10.67	NA	NA
B031RC54.0-55.0	0.0001	1.3359	0.00	13.43	NA	NA
B031RC67.0-68.0	0.0003	1.4713	0.00	11.05	NA	NA
B031RC87.0-88.0	0.0001	1.3398	0.00	12.43	NA	NA
B031RC110-111.0	0.0003	1.1580	0.00	11.37	NA	NA
B031RC131-132.0	0.0049	1.5510	0.00	19.24	NA	NA
W001RC128-129.0	0.0040	2.1378	1.14	19.67	NA	NA

--- = Oversize correction is unnecessary since coarse fraction < 5% of composite mass
NR = Not requested
NA = Not applicable

Summary of Air Permeability as a Function of Soil Water Content

Sample Number	Moisture Content (% cm^3/cm^3)	Intrinsic Permeability (cm^2)	
B007RC50.0-51.0 (As Received)	11.66	1.91E-13	
B007RC50.0-51.0 (Oven Dried)	11.66	3.30E-09	*
B007RC62.7-63.7 (As Received)	12.09	ND	
B007RC62.7-63.7 (Oven Dried)	12.09	5.07E-12	*
B009RC58.5-59.5 (As Received)	12.97	ND	
B009RC58.5-59.5 (Oven Dried)	12.97	2.04E-12	*
B009RC96.5-97.5 (As Received)	9.79	ND	
B009RC96.5-97.5 (Oven Dried)	9.79	1.04E-12	
B029RC19.0-20.0 (As Received)	23.87	4.03E-13	
B029RC19.0-20.0 (Oven Dried)	23.87	3.80E-12	
B029RC23.0-24.0 (As Received)	14.19	ND	
B029RC23.0-24.0 (Oven Dried)	14.19	5.63E-12	*
B029RC62.7-64.0 (As Received)	11.40	ND	
B029RC62.7-64.0 (Oven Dried)	11.40	2.68E-12	
B031RC54.0-55.0 (As Received)	13.60	1.02E-13	
B031RC54.0-55.0 (Oven Dried)	13.60	5.66E-12	*
B031RC67.0-68.0 (As Received)	10.88	1.14E-13	
B031RC67.0-68.0 (Oven Dried)	10.88	1.27E-12	

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec
* = Fractures visible, preferential flow suspected.

Summary of Air Permeability as a Function of Soil Water Content

Sample Number	Moisture Content (% cm^3/cm^3)	Intrinsic Permeability (cm^2)	
B031RC87.0-88.0 (As Received)	9.76	ND	
B031RC87.0-88.0 (Oven Dried)	9.76	4.37E-11	*
B031RC110-111.0 (As Received)	11.62	ND	
B031RC110-111.0 (Oven Dried)	11.62	2.64E-12	*
B031RC131-132.0 (As Received)	18.55	3.03E-12	
B031RC131-132.0 (Oven Dried)	18.55	9.80E-10	
W001RC128-129.0 (As Received)	12.69	9.41E-12	
W001RC128-129.0 (Oven Dried)	12.69	1.37E-09	

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec
* = Fractures visible, preferential flow suspected.

Initial Properties

Summary of Initial Moisture Content, Dry Bulk Density Wet Bulk Density and Calculated Porosity

	Moisture Content						
	As Received		Remolded				
Sample Number	Gravimetric (%, g/g)	Volumetric (%, cm^3/cm^3)	Gravimetric (%, g/g)	Volumetric (%, cm^3/cm^3)	Dry Bulk Density (g/cm^3)	Wet Bulk Density (g/cm^3)	Calculated Porosity (%)
B007RC50.0-51.0	5.0	11.7	---	---	2.35	2.47	14.0
B007RC62.7-63.7	5.6	12.1	---	---	2.15	2.27	12.9
B009RC58.5-59.5	5.6	13.0	---	---	2.30	2.43	15.3
B009RC96.5-97.5	4.0	9.8	---	---	2.42	2.52	11.2
B029RC19.0-20.0	10.7	23.9	---	---	2.24	2.48	24.3
B029RC23.0-24.0	6.2	14.2	---	---	2.27	2.42	16.6
B029RC62.7-64.0	5.2	11.4	---	---	2.18	2.30	12.3
B031RC54.0-55.0	5.9	13.6	---	---	2.30	2.43	15.8
B031RC67.0-68.0	4.2	10.9	---	---	2.59	2.70	11.7
B031RC87.0-88.0	4.1	9.8	---	---	2.41	2.50	11.8
B031RC110-111.0	5.2	11.6	---	---	2.22	2.33	13.2
B031RC131-132.0	8.6	18.5	---	---	2.16	2.35	19.6
W001RC128-129.0	6.1	12.7	---	---	2.07	2.20	21.5

NA = Not analyzed

--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B007RC50.0-51.0
Date Sampled: 8/26/11
Depth: 50.0-51.0

	As Received	Remolded
Test Date:	6-Sep-11	---
Field weight of sample* (g):	305.20	
Tare weight, ring (g):	0.00	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	290.77	
Sample volume (cm^3):	123.78	
Measured particle density (g/cm^3):	2.73	
Gravimetric Moisture Content (% g/g):	5.0	
Volumetric Moisture Content (% vol):	11.7	
Dry bulk density (g/cm^3):	2.35	
Wet bulk density (g/cm^3):	2.47	
Calculated Porosity (% vol):	14.0	
Percent Saturation:	83.2	

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B007RC62.7-63.7
Date Sampled: 8/26/11
Depth: 62.7-63.7

	As Received	Remolded
Test Date:	6-Sep-11	---
Field weight of sample* (g):	169.47	
Tare weight, ring (g):	0.00	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	160.45	
Sample volume (cm^3):	74.66	
Measured particle density (g/cm^3):	2.47	
Gravimetric Moisture Content (% g/g):	5.6	
Volumetric Moisture Content (% vol):	12.1	
Dry bulk density (g/cm^3):	2.15	
Wet bulk density (g/cm^3):	2.27	
Calculated Porosity (% vol):	12.9	
Percent Saturation:	93.6	

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B009RC58.5-59.5
Date Sampled: 8/26/11
Depth: 58.5-59.5

	As Received	Remolded
Test Date:	6-Sep-11	---
Field weight of sample* (g):	405.82	
Tare weight, ring (g):	135.67	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	255.71	
Sample volume (cm^3):	111.33	
Measured particle density (g/cm^3):	2.71	
Gravimetric Moisture Content (% g/g):	5.6	
Volumetric Moisture Content (% vol):	13.0	
Dry bulk density (g/cm^3):	2.30	
Wet bulk density (g/cm^3):	2.43	
Calculated Porosity (% vol):	15.3	
Percent Saturation:	84.7	

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B009RC96.5-97.5
Date Sampled: 8/26/11
Depth: 96.5-97.5

	As Received	Remolded
Test Date:	7-Sep-11	---
Field weight of sample* (g):	306.40	
Tare weight, ring (g):	0.00	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	294.49	
Sample volume (cm^3):	121.64	
Measured particle density (g/cm^3):	2.73	
Gravimetric Moisture Content (% g/g):	4.0	
Volumetric Moisture Content (% vol):	9.8	
Dry bulk density (g/cm^3):	2.42	
Wet bulk density (g/cm^3):	2.52	
Calculated Porosity (% vol):	11.2	
Percent Saturation:	87.3	

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B029RC19.0-20.0
Date Sampled: 8/29/11
Depth: 19.0-20.0

	As Received	Remolded
Test Date:	7-Sep-11	---
Field weight of sample* (g):	409.53	
Tare weight, ring (g):	132.61	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	250.24	
Sample volume (cm^3):	111.78	
Measured particle density (g/cm^3):	2.96	
Gravimetric Moisture Content (% g/g):	10.7	
Volumetric Moisture Content (% vol):	23.9	
Dry bulk density (g/cm^3):	2.24	
Wet bulk density (g/cm^3):	2.48	
Calculated Porosity (% vol):	24.3	
Percent Saturation:	98.4	

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name:	Fluor-B&W Portsmouth LLC
Job Number:	LB11.0188.00
Sample Number:	B029RC23.0-24.0
Date Sampled:	8/29/11
Depth:	23.0-24.0

	As Received	Remolded
Test Date:	7-Sep-11	---
Field weight of sample* (g):	287.96	
Tare weight, ring (g):	0.00	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	271.05	
Sample volume (cm^3):	119.18	
Measured particle density (g/cm^3):	2.73	
Gravimetric Moisture Content (% g/g):	6.2	
Volumetric Moisture Content (% vol):	14.2	
Dry bulk density (g/cm^3):	2.27	
Wet bulk density (g/cm^3):	2.42	
Calculated Porosity (% vol):	16.6	
Percent Saturation:	85.7	

Laboratory analysis by:	D. O'Dowd
Data entered by:	D. O'Dowd
Checked by:	J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name:	Fluor-B&W Portsmouth LLC
Job Number:	LB11.0188.00
Sample Number:	B029RC62.7-64.0
Date Sampled:	8/29/11
Depth:	62.7-64.0

	As Received	Remolded
Test Date:	8-Sep-11	---
Field weight of sample* (g):	195.46	
Tare weight, ring (g):	0.00	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	185.76	
Sample volume (cm^3):	85.14	
Measured particle density (g/cm^3):	2.49	
Gravimetric Moisture Content (% g/g):	5.2	
Volumetric Moisture Content (% vol):	11.4	
Dry bulk density (g/cm^3):	2.18	
Wet bulk density (g/cm^3):	2.30	
Calculated Porosity (% vol):	12.3	
Percent Saturation:	92.6	

Laboratory analysis by:	D. O'Dowd
Data entered by:	D. O'Dowd
Checked by:	J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name:	Fluor-B&W Portsmouth LLC
Job Number:	LB11.0188.00
Sample Number:	B031RC54.0-55.0
Date Sampled:	8/30/11
Depth:	54.0-55.0

	As Received	Remolded
Test Date:	9-Sep-11	---
Field weight of sample* (g):	415.92	
Tare weight, ring (g):	149.27	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	251.73	
Sample volume (cm^3):	109.66	
Measured particle density (g/cm^3):	2.72	
Gravimetric Moisture Content (% g/g):	5.9	
Volumetric Moisture Content (% vol):	13.6	
Dry bulk density (g/cm^3):	2.30	
Wet bulk density (g/cm^3):	2.43	
Calculated Porosity (% vol):	15.8	
Percent Saturation:	86.4	

Laboratory analysis by:	D. O'Dowd
Data entered by:	D. O'Dowd
Checked by:	J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name:	Fluor-B&W Portsmouth LLC
Job Number:	LB11.0188.00
Sample Number:	B031RC67.0-68.0
Date Sampled:	8/30/11
Depth:	67.0-68.0

	As Received	Remolded
Test Date:	9-Sep-11	---
Field weight of sample* (g):	448.39	
Tare weight, ring (g):	146.91	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	289.33	
Sample volume (cm^3):	111.61	
Measured particle density (g/cm^3):	2.94	
Gravimetric Moisture Content (% g/g):	4.2	
Volumetric Moisture Content (% vol):	10.9	
Dry bulk density (g/cm^3):	2.59	
Wet bulk density (g/cm^3):	2.70	
Calculated Porosity (% vol):	11.7	
Percent Saturation:	93.0	

Laboratory analysis by:	D. O'Dowd
Data entered by:	D. O'Dowd
Checked by:	J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name:	Fluor-B&W Portsmouth LLC
Job Number:	LB11.0188.00
Sample Number:	B031RC87.0-88.0
Date Sampled:	8/31/11
Depth:	87.0-88.0

	As Received	Remolded
Test Date:	9-Sep-11	---
Field weight of sample* (g):	284.98	
Tare weight, ring (g):	0.00	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	273.87	
Sample volume (cm^3):	113.84	
Measured particle density (g/cm^3):	2.73	
Gravimetric Moisture Content (% g/g):	4.1	
Volumetric Moisture Content (% vol):	9.8	
Dry bulk density (g/cm^3):	2.41	
Wet bulk density (g/cm^3):	2.50	
Calculated Porosity (% vol):	11.8	
Percent Saturation:	82.7	

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC110-111.0
Date Sampled: 8/31/11
Depth: 110-111.0

	As Received	Remolded
Test Date:	9-Sep-11	---
Field weight of sample* (g):	176.33	
Tare weight, ring (g):	0.00	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	167.55	
Sample volume (cm^3):	75.60	
Measured particle density (g/cm^3):	2.55	
Gravimetric Moisture Content (% g/g):	5.2	
Volumetric Moisture Content (% vol):	11.6	
Dry bulk density (g/cm^3):	2.22	
Wet bulk density (g/cm^3):	2.33	
Calculated Porosity (% vol):	13.2	
Percent Saturation:	88.3	

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name:	Fluor-B&W Portsmouth LLC	
Job Number:	LB11.0188.00	
Sample Number:	B031RC131-132.0	
Date Sampled:	8/31/11	
Depth:	131-132.0	
	As Received	Remolded
Test Date:	9-Sep-11	---
Field weight of sample* (g):	429.70	
Tare weight, ring (g):	154.76	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	253.19	
Sample volume (cm^3):	117.24	
Measured particle density (g/cm^3):	2.68	
Gravimetric Moisture Content (% g/g):	8.6	
Volumetric Moisture Content (% vol):	18.5	
Dry bulk density (g/cm^3):	2.16	
Wet bulk density (g/cm^3):	2.35	
Calculated Porosity (% vol):	19.6	
Percent Saturation:	94.9	

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Daniel B. Stephens & Associates, Inc.

Data for Initial Moisture Content, Bulk Density, Porosity, and Percent Saturation

Job Name:	Fluor-B&W Portsmouth LLC
Job Number:	LB11.0188.00
Sample Number:	W001RC128-129.0
Date Sampled:	6/15/11
Depth:	128-129.0

	As Received	Remolded
Test Date:	9-Sep-11	---
Field weight of sample* (g):	415.32	
Tare weight, ring (g):	151.95	
Tare weight, pan/plate (g):	0.00	
Tare weight, other (g):	0.00	
Dry weight of sample (g):	248.18	
Sample volume (cm^3):	119.70	
Measured particle density (g/cm^3):	2.64	
Gravimetric Moisture Content (% g/g):	6.1	
Volumetric Moisture Content (% vol):	12.7	
Dry bulk density (g/cm^3):	2.07	
Wet bulk density (g/cm^3):	2.20	
Calculated Porosity (% vol):	21.5	
Percent Saturation:	59.1	

Laboratory analysis by:	D. O'Dowd
Data entered by:	D. O'Dowd
Checked by:	J. Hines

Comments:

* Weight including tares
NA = Not analyzed
--- = This sample was not remolded

Saturated Hydraulic Conductivity

Summary of Saturated Hydraulic Conductivity Tests

			Method of Analysis	
Sample Number	K_{sat} (cm/sec)	Oversize Corrected K_{sat} (cm/sec)	Constant Head Flexible Wall	Falling Head Flexible Wall
B007RC50.0-51.0	2.5E-09	NA		X
B007RC62.7-63.7	4.3E-09	NA		X
B009RC58.5-59.5	1.2E-09	NA		X
B009RC96.5-97.5	1.6E-09	NA		X
B029RC19.0-20.0	1.4E-06	NA		X
B029RC23.0-24.0	8.1E-10	NA		X
B029RC62.7-64.0	4.0E-10	NA		X
B031RC54.0-55.0	3.2E-07	NA		X
B031RC67.0-68.0	1.8E-07	NA		X
B031RC87.0-88.0	3.7E-10	NA		X
B031RC110-111.0	8.6E-09	NA		X
B031RC131-132.0	3.2E-05	NA		X
W001RC128-129.0	4.4E-05	NA		X

--- = Oversize correction is unnecessary since coarse fraction < 5% of composite mass
NR = Not requested
NA = Not applicable

Daniel B. Stephens & Associates, Inc.

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B007RC50.0-51.0
Date sampled: 8/26/11
Depth: 50.0-51.0

Remolded or Initial Sample Properties

Initial Mass (g):	303.10
Diameter (cm):	6.292
Length (cm):	3.953
Area (cm^2):	31.09
Volume (cm^3):	122.91
Dry Density (g/cm^3):	2.35
Dry Density (pcf):	146.67
Water Content (%, g/g):	5.0
Water Content (%, vol):	11.7
Void Ratio (e):	0.16
Porosity (%, vol):	13.9
Saturation (%):	83.6

Post Permeation Sample Properties

Saturated Mass (g):	306.23
Dry Mass (g):	288.77
Diameter (cm):	6.266
Length (cm):	3.986
*Deformation (%)**:*	0.84
Area (cm^2):	30.84
Volume (cm^3):	122.93
Dry Density (g/cm^3):	2.35
Dry Density (pcf):	146.65
Water Content (%, g/g):	6.0
Water Content (%, vol):	14.2
Void Ratio(e):	0.16
Porosity (%, vol):	14.0
Saturation (%):*	101.8

Test and Sample Conditions

Permeant liquid used:	Tap Water
Sample Preparation:	☑ In situ sample, extruded ☐ Remolded Sample
Number of Lifts:	NA
Split:	NA
Percent Coarse Material (%):	NA
Particle Density(g/cm^3):	2.73 ☐ Assumed ☑ Measured
Cell pressure (PSI):	85.0
Influent pressure (PSI):	84.0
Effluent pressure (PSI):	81.0
Panel Used:	☐ A ☑ B ☐ C
Reading:	☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.95	9/12/11 1312
B-Value (% saturation) post to test:	0.95	9/16/11 843

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated or skewed during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

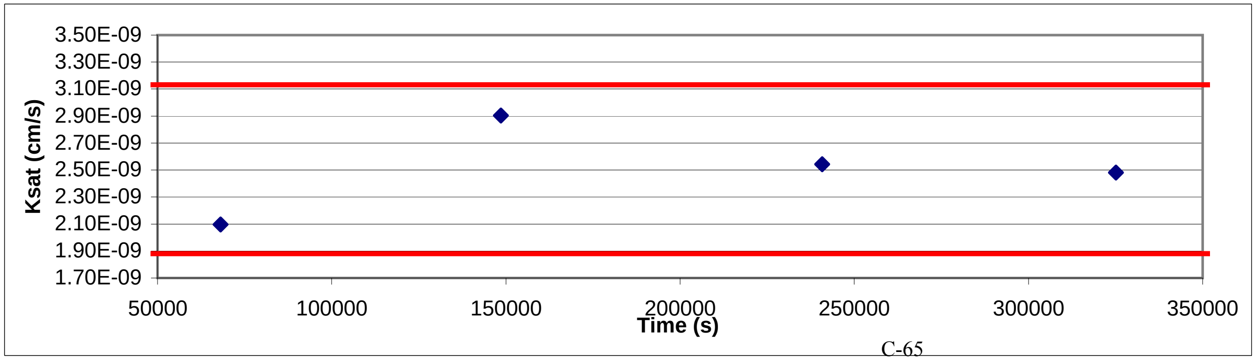
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B007RC50.0-51.0
Date sampled: 8/26/11
Depth: 50.0-51.0

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
12-Sep-11	14:16:20	23.0	3.15	21.65	58.30	0.24	68065	0.83	0%	2.25E-09	2.10E-09
13-Sep-11	09:10:45	23.0	3.45	21.40	58.14						
Test # 2:											
13-Sep-11	09:10:45	23.0	3.45	21.40	58.14	0.39	80455	0.80	0%	3.13E-09	2.90E-09
14-Sep-11	07:31:40	23.2	3.95	21.00	57.88						
Test # 3:											
14-Sep-11	07:31:40	23.2	3.95	21.00	57.88	0.39	92240	1.00	0%	2.74E-09	2.54E-09
15-Sep-11	09:09:00	23.1	4.40	20.55	57.61						
Test # 4:											
15-Sep-11	09:09:00	23.1	4.40	20.55	57.61	0.35	84390	1.00	0%	2.67E-09	2.48E-09
16-Sep-11	08:35:30	23.2	4.80	20.15	57.38						

***Average Ksat* (cm/sec):** **2.51E-09**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 1.88E-09

Ksat (+25%) (cm/s): 3.13E-09

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B007RC62.7-63.7
Date sampled: 8/26/11
Depth: 62.7-63.7

Remolded or Initial Sample Properties	
Initial Mass (g):	230.24
Diameter (cm):	6.201
Length (cm):	3.359
Area (cm^2):	30.20
Volume (cm^3):	101.44
Dry Density (g/cm^3):	2.15
Dry Density (pcf):	134.14
Water Content (%, g/g):	5.6
Water Content (%, vol):	12.1
Void Ratio (e):	0.15
Porosity (%, vol):	13.0
Saturation (%):	92.9

Post Permeation Sample Properties	
Saturated Mass (g):	231.28
Dry Mass (g):	217.98
Diameter (cm):	6.197
Length (cm):	3.363
*Deformation (%)**:*	0.10
Area (cm^2):	30.16
Volume (cm^3):	101.42
Dry Density (g/cm^3):	2.15
Dry Density (pcf):	134.18
Water Content (%, g/g):	6.1
Water Content (%, vol):	13.1
Void Ratio(e):	0.15
Porosity (%, vol):	13.0
Saturation (%):*	101.0

Test and Sample Conditions	
Permeant liquid used:	Tap Water
Sample Preparation:	☑ In situ sample, extruded ☐ Remolded Sample
Number of Lifts:	NA
Split:	NA
Percent Coarse Material (%):	NA
Particle Density(g/cm^3):	2.47 ☐ Assumed ☑ Measured
Cell pressure (PSI):	85.0
Influent pressure (PSI):	83.0
Effluent pressure (PSI):	81.0
Panel Used:	☐ A ☐ B ☑ C
Reading:	☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.98	9/12/11 1415
B-Value (% saturation) post to test:	0.98	9/15/11 1600

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated or skewed during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

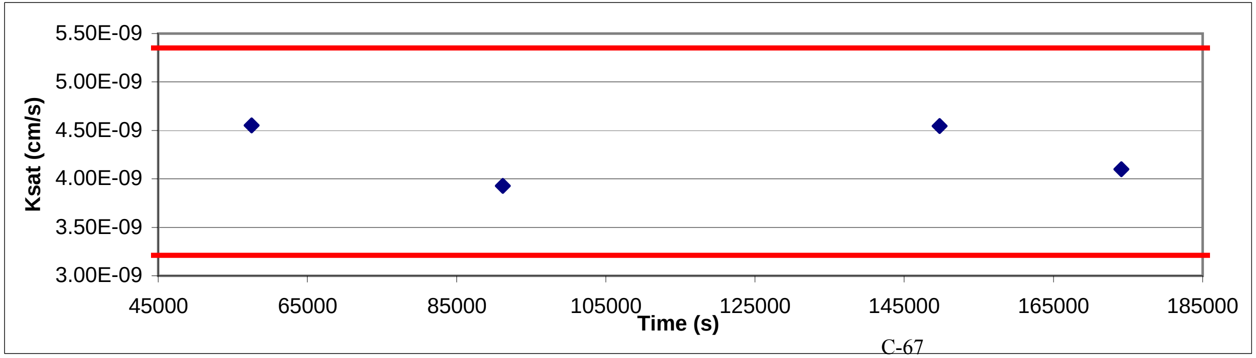
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B007RC62.7-63.7
Date sampled: 8/26/11
Depth: 62.7-63.7

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
13-Sep-11	15:33:16	23.8	5.70	20.00	46.75	0.35	57539	1.00	1%	4.94E-09	4.55E-09
14-Sep-11	07:32:15	23.2	6.10	19.60	46.47						
Test # 2:											
14-Sep-11	07:32:15	23.2	6.10	19.60	46.47	0.17	33675	1.00	0%	4.24E-09	3.93E-09
14-Sep-11	16:53:30	23.3	6.30	19.40	46.34						
Test # 3:											
14-Sep-11	16:53:30	23.3	6.30	19.40	46.34	0.35	58550	1.00	1%	4.90E-09	4.54E-09
15-Sep-11	09:09:20	23.1	6.70	19.00	46.06						
Test # 4:											
15-Sep-11	09:09:20	23.1	6.70	19.00	46.06	0.13	24355	1.00	0%	4.44E-09	4.10E-09
15-Sep-11	15:55:15	23.6	6.85	18.85	45.96						

***Average Ksat* (cm/sec): 4.28E-09**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 3.21E-09

Ksat (+25%) (cm/s): 5.35E-09

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B009RC58.5-59.5
Date sampled: 8/26/11
Depth: 58.5-59.5

Remolded or Initial Sample Properties

Initial Mass (g): 278.88
Diameter (cm): 6.358
Length (cm): 3.620
Area (cm^2): 31.75
Volume (cm^3): 114.93
Dry Density (g/cm^3): 2.30
Dry Density (pcf): 143.38
Water Content (%, g/g): 5.6
Water Content (%, vol): 13.0
Void Ratio (e): 0.18
Porosity (%, vol): 15.2
Saturation (%): 85.1

Post Permeation Sample Properties

Saturated Mass (g): 281.78
Dry Mass (g): 263.97
Diameter (cm): 6.321
Length (cm): 3.662
*Deformation (%)**:* 1.15
Area (cm^2): 31.38
Volume (cm^3): 114.92
Dry Density (g/cm^3): 2.30
Dry Density (pcf): 143.40
Water Content (%, g/g): 6.7
Water Content (%, vol): 15.5
Void Ratio(e): 0.18
Porosity (%, vol): 15.2
Saturation (%):* 101.7

Test and Sample Conditions

Permeant liquid used: Tap Water
Sample Preparation: ☑ In situ sample, extruded
☐ Remolded Sample
Number of Lifts: NA
Split: NA
Percent Coarse Material (%): NA
Particle Density(g/cm^3): 2.71 ☐ Assumed ☑ Measured
Cell pressure (PSI): 85.0
Influent pressure (PSI): 84.0
Effluent pressure (PSI): 81.0
Panel Used: ☑ D ☐ E ☐ F
Reading: ☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.95	9/12/11 1420
B-Value (% saturation) post to test:	0.95	9/16/11 850

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

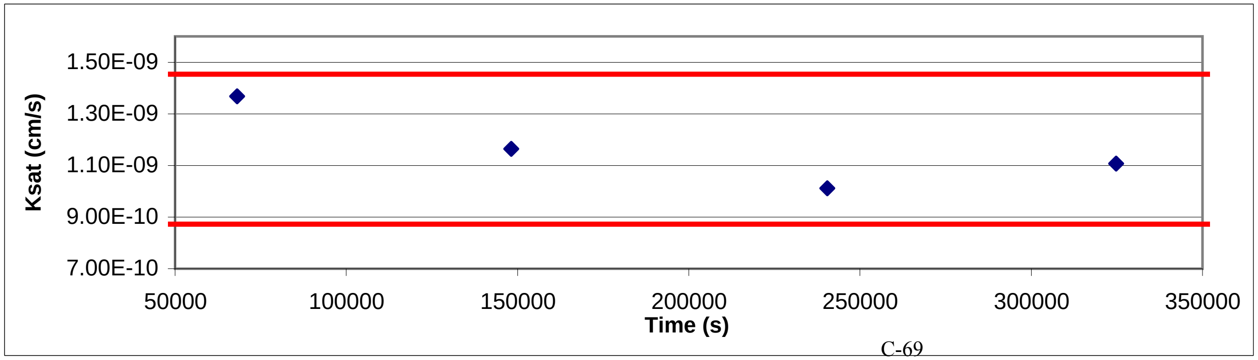
Daniel B. Stephens & Associates, Inc.

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B009RC58.5-59.5
Date sampled: 8/26/11
Depth: 58.5-59.5

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
12-Sep-11	14:23:00	23.0	2.35	22.40	63.94	0.17	68160	1.00	0%	1.47E-09	1.37E-09
13-Sep-11	09:19:00	23.0	2.55	22.20	63.82						
Test # 2:											
13-Sep-11	09:19:00	23.0	2.55	22.20	63.82	0.17	80030	1.00	0%	1.25E-09	1.16E-09
14-Sep-11	07:32:50	23.2	2.75	22.00	63.69						
Test # 3:											
14-Sep-11	07:32:50	23.2	2.75	22.00	63.69	0.17	92210	1.00	0%	1.09E-09	1.01E-09
15-Sep-11	09:09:40	23.1	2.95	21.80	63.57						
Test # 4:											
15-Sep-11	09:09:40	23.1	2.95	21.80	63.57	0.17	84410	1.00	0%	1.19E-09	1.11E-09
16-Sep-11	08:36:30	23.2	3.15	21.60	63.44						

***Average Ksat* (cm/sec):** **1.16E-09**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 8.72E-10

Ksat (+25%) (cm/s): 1.45E-09

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B009RC96.5-97.5
Date sampled: 8/26/11
Depth: 96.5-97.5

Remolded or Initial Sample Properties	
Initial Mass (g):	216.62
Diameter (cm):	6.277
Length (cm):	2.779
Area (cm^2):	30.95
Volume (cm^3):	86.00
Dry Density (g/cm^3):	2.42
Dry Density (pcf):	151.14
Water Content (%, g/g):	4.0
Water Content (%, vol):	9.8
Void Ratio (e):	0.13
Porosity (%, vol):	11.3
Saturation (%):	86.5

Post Permeation Sample Properties	
Saturated Mass (g):	218.02
Dry Mass (g):	208.2
Diameter (cm):	6.277
Length (cm):	2.779
*Deformation (%)**:*	0.02
Area (cm^2):	30.95
Volume (cm^3):	85.98
Dry Density (g/cm^3):	2.42
Dry Density (pcf):	151.17
Water Content (%, g/g):	4.7
Water Content (%, vol):	11.4
Void Ratio(e):	0.13
Porosity (%, vol):	11.3
Saturation (%):*	101.1

Test and Sample Conditions	
Permeant liquid used:	Tap Water
Sample Preparation:	☑ In situ sample, extruded ☐ Remolded Sample
Number of Lifts:	NA
Split:	NA
Percent Coarse Material (%):	NA
Particle Density(g/cm^3):	2.73 ☐ Assumed ☑ Measured
Cell pressure (PSI):	85.0
Influent pressure (PSI):	84.0
Effluent pressure (PSI):	81.0
Panel Used:	☑ A ☐ B ☐ C
Reading:	☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.95	9/12/11 1305
B-Value (% saturation) post to test:	0.95	9/16/11 840

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated or skewed during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

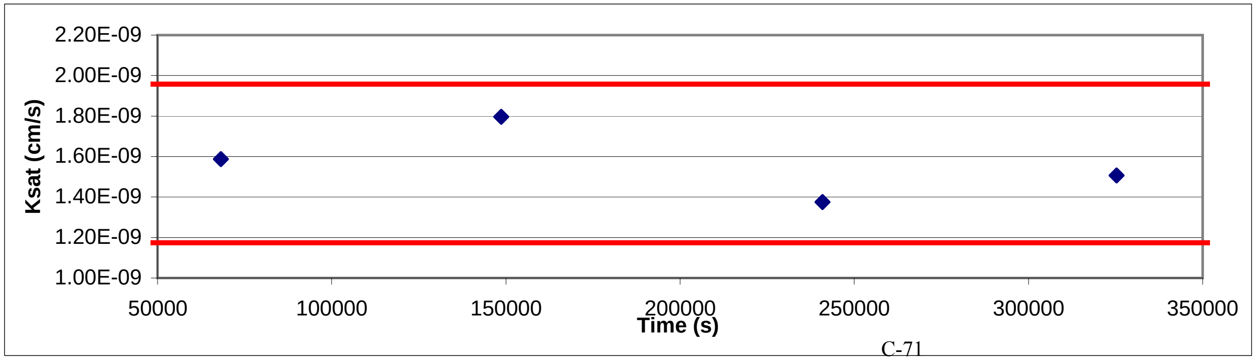
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B009RC96.5-97.5
Date sampled: 8/26/11
Depth: 96.5-97.5

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
12-Sep-11	14:13:15	23.0	2.00	20.20	83.51	0.26	68215	1.00	0%	1.70E-09	1.59E-09
13-Sep-11	09:10:10	23.0	2.30	19.90	83.26						
Test # 2:											
13-Sep-11	09:10:10	23.0	2.30	19.90	83.26	0.35	80460	1.00	0%	1.93E-09	1.80E-09
14-Sep-11	07:31:10	23.2	2.70	19.50	82.93						
Test # 3:											
14-Sep-11	07:31:10	23.2	2.70	19.50	82.93	0.30	92230	1.00	0%	1.48E-09	1.37E-09
15-Sep-11	09:08:20	23.1	3.05	19.15	82.64						
Test # 4:											
15-Sep-11	09:08:20	23.1	3.05	19.15	82.64	0.30	84400	1.00	0%	1.62E-09	1.51E-09
16-Sep-11	08:35:00	23.2	3.40	18.80	82.35						

***Average Ksat* (cm/sec): 1.57E-09**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 1.17E-09

Ksat (+25%) (cm/s): 1.96E-09

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B029RC19.0-20.0
Date sampled: 8/29/11
Depth: 19.0-20.0

Remolded or Initial Sample Properties

Initial Mass (g):	253.75
Diameter (cm):	6.273
Length (cm):	3.314
Area (cm^2):	30.91
Volume (cm^3):	102.42
Dry Density (g/cm^3):	2.24
Dry Density (pcf):	139.76
Water Content (%, g/g):	10.7
Water Content (%, vol):	23.9
Void Ratio (e):	0.32
Porosity (%, vol):	24.4
Saturation (%):	98.0

Post Permeation Sample Properties

Saturated Mass (g):	254.3
Dry Mass (g):	229.3
Diameter (cm):	6.239
Length (cm):	3.350
*Deformation (%)**:*	1.06
Area (cm^2):	30.57
Volume (cm^3):	102.40
Dry Density (g/cm^3):	2.24
Dry Density (pcf):	139.79
Water Content (%, g/g):	10.9
Water Content (%, vol):	24.4
Void Ratio(e):	0.32
Porosity (%, vol):	24.4
Saturation (%):*	100.3

Test and Sample Conditions

Permeant liquid used:	Tap Water
Sample Preparation:	☑ In situ sample, extruded ☐ Remolded Sample
Number of Lifts:	NA
Split:	NA
Percent Coarse Material (%):	NA
Particle Density(g/cm^3):	2.96 ☐ Assumed ☑ Measured
Cell pressure (PSI):	82.0
Influent pressure (PSI):	81.0
Effluent pressure (PSI):	80.0
Panel Used:	☐ D ☐ E ☑ F
Reading:	☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.95	9/12/11 1430
B-Value (% saturation) post to test:	0.95	9/12/11 1505

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

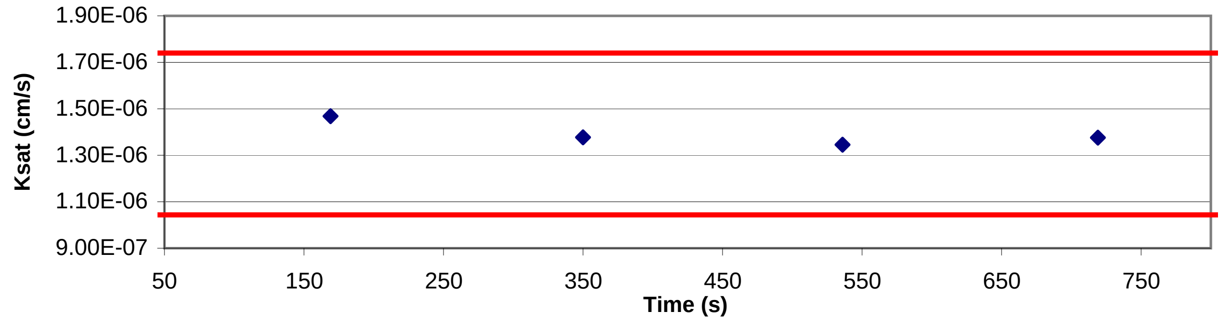
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B029RC19.0-20.0
Date sampled: 8/29/11
Depth: 19.0-20.0

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
12-Sep-11	14:38:37	23.0	10.00	20.75	24.71	0.17	169	1.00	1%	1.58E-06	1.47E-06
12-Sep-11	14:41:26	23.0	10.20	20.55	24.57						
Test # 2:											
12-Sep-11	14:41:26	23.0	10.20	20.55	24.57	0.17	181	1.00	1%	1.48E-06	1.38E-06
12-Sep-11	14:44:27	23.1	10.40	20.35	24.43						
Test # 3:											
12-Sep-11	14:44:27	23.1	10.40	20.35	24.43	0.17	186	1.00	1%	1.45E-06	1.35E-06
12-Sep-11	14:47:33	23.1	10.60	20.15	24.29						
Test # 4:											
12-Sep-11	14:47:33	23.1	10.60	20.15	24.29	0.17	183	1.00	1%	1.48E-06	1.38E-06
12-Sep-11	14:50:36	23.1	10.80	19.95	24.15						

***Average Ksat* (cm/sec):** **1.39E-06**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 1.04E-06

Ksat (+25%) (cm/s): 1.74E-06

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B029RC23.0-24.0
Date sampled: 8/29/11
Depth: 23.0-24.0

Remolded or Initial Sample Properties	
Initial Mass (g):	249.13
Diameter (cm):	6.36
Length (cm):	3.246
Area (cm^2):	31.77
Volume (cm^3):	103.12
Dry Density (g/cm^3):	2.27
Dry Density (pcf):	141.96
Water Content (%, g/g):	6.2
Water Content (%, vol):	14.2
Void Ratio (e):	0.20
Porosity (%, vol):	16.7
Saturation (%):	84.9

Post Permeation Sample Properties	
Saturated Mass (g):	251.76
Dry Mass (g):	234.5
Diameter (cm):	6.392
Length (cm):	3.213
*Deformation (%)**:*	1.03
Area (cm^2):	32.09
Volume (cm^3):	103.10
Dry Density (g/cm^3):	2.27
Dry Density (pcf):	141.99
Water Content (%, g/g):	7.4
Water Content (%, vol):	16.7
Void Ratio(e):	0.20
Porosity (%, vol):	16.7
Saturation (%):*	100.3

Test and Sample Conditions	
Permeant liquid used:	Tap Water
Sample Preparation:	☑ In situ sample, extruded ☐ Remolded Sample
Number of Lifts:	NA
Split:	NA
Percent Coarse Material (%):	NA
Particle Density(g/cm^3):	2.73 ☐ Assumed ☑ Measured
Cell pressure (PSI):	86.0
Influent pressure (PSI):	85.0
Effluent pressure (PSI):	81.0
Panel Used:	☐ D ☑ E ☐ F
Reading:	☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.98	9/12/11 1400
B-Value (% saturation) post to test:	0.98	9/17/11 841

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

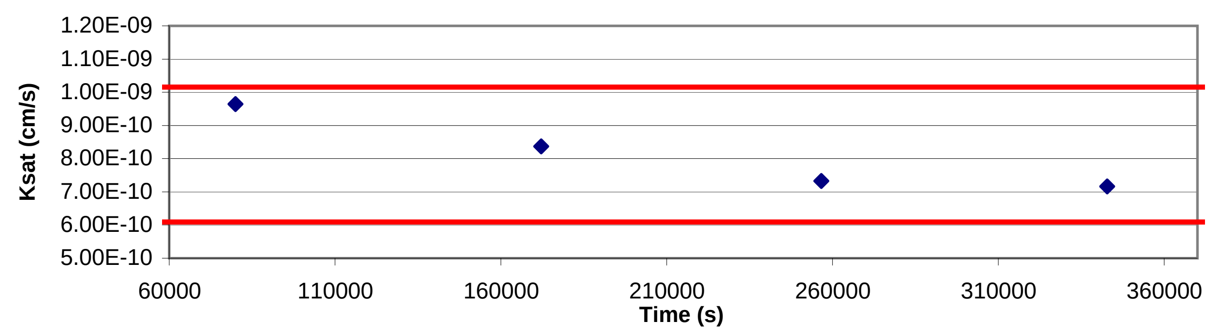
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B029RC23.0-24.0
Date sampled: 8/29/11
Depth: 23.0-24.0

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
13-Sep-11	09:21:00	23.0	3.20	21.85	94.27	0.22	79965	1.00	0%	1.04E-09	9.64E-10
14-Sep-11	07:33:45	23.2	3.45	21.60	94.09						
Test # 2:											
14-Sep-11	07:33:45	23.2	3.45	21.60	94.09	0.22	92175	1.00	0%	9.02E-10	8.37E-10
15-Sep-11	09:10:00	23.1	3.70	21.35	93.91						
Test # 3:											
15-Sep-11	09:10:00	23.1	3.70	21.35	93.91	0.17	84420	1.00	0%	7.89E-10	7.33E-10
16-Sep-11	08:37:00	23.2	3.90	21.15	93.77						
Test # 4:											
16-Sep-11	08:37:00	23.2	3.90	21.15	93.77	0.17	86220	1.00	0%	7.74E-10	7.17E-10
17-Sep-11	08:34:00	23.3	4.10	20.95	93.63						

***Average Ksat* (cm/sec):** **8.13E-10**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 6.10E-10

Ksat (+25%) (cm/s): 1.02E-09

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B029RC62.7-64.0
Date sampled: 8/31/11
Depth: 62.7-64.0

Remolded or Initial Sample Properties

Initial Mass (g): 244.39
Diameter (cm): 6.338
Length (cm): 3.374
Area (cm^2): 31.55
Volume (cm^3): 106.45
Dry Density (g/cm^3): 2.18
Dry Density (pcf): 136.21
Water Content (%, g/g): 5.2
Water Content (%, vol): 11.4
Void Ratio (e): 0.14
Porosity (%, vol): 12.4
Saturation (%): 92.1

Post Permeation Sample Properties

Saturated Mass (g): 245.55
Dry Mass (g): 232.26
Diameter (cm): 6.342
Length (cm): 3.370
*Deformation (%)**:* 0.12
Area (cm^2): 31.59
Volume (cm^3): 106.45
Dry Density (g/cm^3): 2.18
Dry Density (pcf): 136.21
Water Content (%, g/g): 5.7
Water Content (%, vol): 12.5
Void Ratio(e): 0.14
Porosity (%, vol): 12.4
Saturation (%):* 100.9

Test and Sample Conditions

Permeant liquid used: Tap Water
Sample Preparation: ☑ In situ sample, extruded
☐ Remolded Sample
Number of Lifts: NA
Split: NA
Percent Coarse Material (%): NA
Particle Density(g/cm^3): 2.49 ☐ Assumed ☑ Measured
Cell pressure (PSI): 85.0
Influent pressure (PSI): 84.0
Effluent pressure (PSI): 80.0
Panel Used: ☑ A ☐ B ☐ C
Reading: ☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.95	9/26/11 800
B-Value (% saturation) post to test:	0.98	10/1/11 930

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated or skewed during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

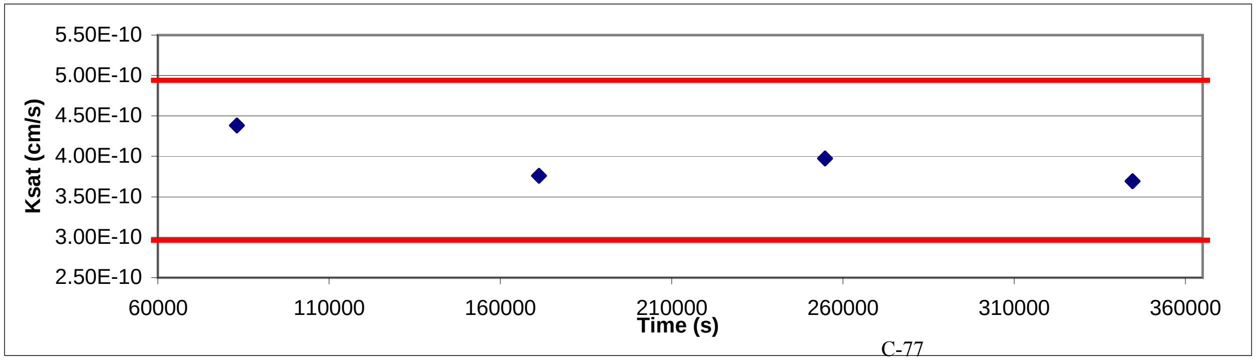
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B029RC62.7-64.0
Date sampled: 8/31/11
Depth: 62.7-64.0

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
27-Sep-11	09:20:30	22.8	2.78	20.40	89.53	0.10	83081	0.83	0%	4.68E-10	4.38E-10
28-Sep-11	08:25:11	22.8	2.90	20.30	89.46						
Test # 2:											
28-Sep-11	08:25:11	22.8	2.90	20.30	89.46	0.09	88154	1.00	0%	4.02E-10	3.76E-10
29-Sep-11	08:54:25	22.7	3.00	20.20	89.39						
Test # 3:											
29-Sep-11	08:54:25	22.7	3.00	20.20	89.39	0.09	83495	1.00	0%	4.24E-10	3.97E-10
30-Sep-11	08:06:00	22.8	3.10	20.10	89.32						
Test # 4:											
30-Sep-11	08:06:00	22.8	3.10	20.10	89.32	0.09	89775	1.00	0%	3.95E-10	3.69E-10
01-Oct-11	09:02:15	22.8	3.20	20.00	89.25						

***Average Ksat* (cm/sec):** **3.95E-10**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 2.96E-10

Ksat (+25%) (cm/s): 4.94E-10

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B031RC54.0.0-55.0
Date sampled: 8/30
Depth: 54.0-55.0

Remolded or Initial Sample Properties

Initial Mass (g):	240.22
Diameter (cm):	6.279
Length (cm):	3.190
Area (cm^2):	30.96
Volume (cm^3):	98.78
Dry Density (g/cm^3):	2.30
Dry Density (pcf):	143.33
Water Content (%, g/g):	5.9
Water Content (%, vol):	13.6
Void Ratio (e):	0.18
Porosity (%, vol):	15.6
Saturation (%):	87.3

Post Permeation Sample Properties

Saturated Mass (g):	242.5
Dry Mass (g):	226.78
Diameter (cm):	6.267
Length (cm):	3.203
*Deformation (%)**:*	0.40
Area (cm^2):	30.85
Volume (cm^3):	98.79
Dry Density (g/cm^3):	2.30
Dry Density (pcf):	143.30
Water Content (%, g/g):	6.9
Water Content (%, vol):	15.9
Void Ratio(e):	0.18
Porosity (%, vol):	15.6
Saturation (%):*	102.0

Test and Sample Conditions

Permeant liquid used:	Tap Water
Sample Preparation:	☑ In situ sample, extruded ☐ Remolded Sample
Number of Lifts:	NA
Split:	NA
Percent Coarse Material (%):	NA
Particle Density(g/cm^3):	2.72 ☐ Assumed ☑ Measured
Cell pressure (PSI):	82.0
Influent pressure (PSI):	80.0
Effluent pressure (PSI):	80.0
Panel Used:	☐ D ☑ E ☐ F
Reading:	☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.95	9/20/11 1230
B-Value (% saturation) post to test:	0.95	9/21/11 1320

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

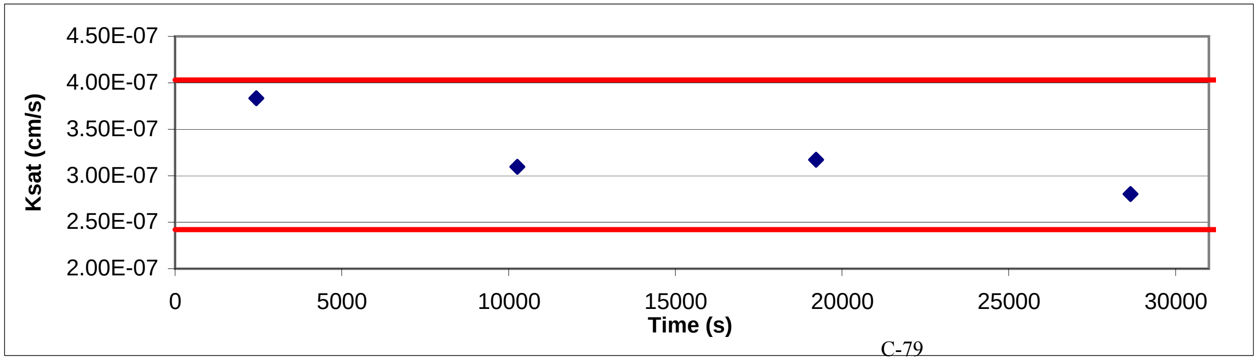
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B031RC54.0.0-55.0
Date sampled: 8/30
Depth: 54.0-55.0

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
20-Sep-11	12:41:00	22.7	4.40	22.70	6.60	0.17	2436	1.00	2%	4.09E-07	3.83E-07
20-Sep-11	13:21:36	22.8	4.60	22.50	6.45						
Test # 2:											
20-Sep-11	13:21:36	22.8	4.60	22.50	6.45	0.43	7824	1.00	6%	3.31E-07	3.10E-07
20-Sep-11	15:32:00	22.9	5.10	22.00	6.09						
Test # 3:											
21-Sep-11	08:06:10	22.3	7.30	19.70	4.47	0.35	8960	1.00	6%	3.36E-07	3.17E-07
21-Sep-11	10:35:30	22.5	7.70	19.30	4.18						
Test # 4:											
21-Sep-11	10:35:30	22.5	7.70	19.30	4.18	0.30	9430	1.00	6%	2.98E-07	2.80E-07
21-Sep-11	13:12:40	22.6	8.05	18.95	3.93						

***Average Ksat* (cm/sec):** **3.23E-07**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 2.42E-07

Ksat (+25%) (cm/s): 4.03E-07

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B031RC67.0-68.0
Date sampled: 8/29/11
Depth: 67.0-68.0

Remolded or Initial Sample Properties	
Initial Mass (g):	259.12
Diameter (cm):	6.227
Length (cm):	3.150
Area (cm^2):	30.45
Volume (cm^3):	95.93
Dry Density (g/cm^3):	2.59
Dry Density (pcf):	161.83
Water Content (%, g/g):	4.2
Water Content (%, vol):	10.9
Void Ratio (e):	0.13
Porosity (%, vol):	11.8
Saturation (%):	92.0

Post Permeation Sample Properties	
Saturated Mass (g):	260.08
Dry Mass (g):	248.68
Diameter (cm):	6.229
Length (cm):	3.148
*Deformation (%)**:*	0.07
Area (cm^2):	30.47
Volume (cm^3):	95.92
Dry Density (g/cm^3):	2.59
Dry Density (pcf):	161.85
Water Content (%, g/g):	4.6
Water Content (%, vol):	11.9
Void Ratio(e):	0.13
Porosity (%, vol):	11.8
Saturation (%):*	100.6

Test and Sample Conditions	
Permeant liquid used:	Tap Water
Sample Preparation:	☑ In situ sample, extruded ☐ Remolded Sample
Number of Lifts:	NA
Split:	NA
Percent Coarse Material (%):	NA
Particle Density(g/cm^3):	2.94 ☐ Assumed ☑ Measured
Cell pressure (PSI):	82.0
Influent pressure (PSI):	81.0
Effluent pressure (PSI):	80.0
Panel Used:	☑ D ☐ E ☐ F
Reading:	☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.95	9/19/11 1010
B-Value (% saturation) post to test:	0.95	9/19/11 1500

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated during depressurizing and sample removal.

**Percent Deformation: based on initial sample length and post permeation sample length.

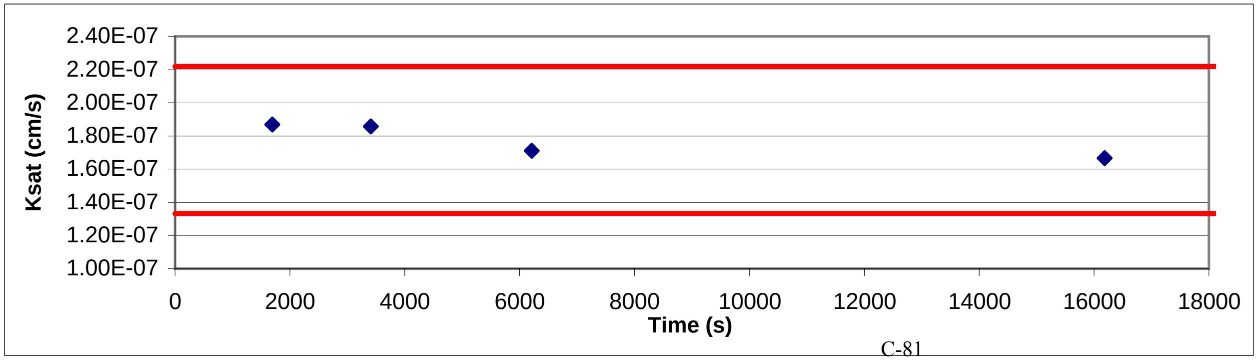
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B031RC67.0-68.0
Date sampled: 8/29/11
Depth: 67.0-68.0

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
19-Sep-11	10:15:30	22.4	2.20	21.70	29.50	0.26	1695	1.00	1%	1.98E-07	1.87E-07
19-Sep-11	10:43:45	22.6	2.50	21.40	29.28						
Test # 2:											
19-Sep-11	10:43:45	22.6	2.50	21.40	29.28	0.26	1712	1.00	1%	1.98E-07	1.86E-07
19-Sep-11	11:12:17	22.7	2.80	21.10	29.06						
Test # 3:											
19-Sep-11	11:12:17	22.7	2.80	21.10	29.06	0.39	2803	1.00	1%	1.83E-07	1.71E-07
19-Sep-11	11:59:00	22.8	3.25	20.65	28.73						
Test # 4:											
19-Sep-11	11:59:00	22.8	3.25	20.65	28.73	1.33	9975	0.97	4%	1.79E-07	1.67E-07
19-Sep-11	14:45:15	23.2	4.80	19.15	27.61						

***Average Ksat* (cm/sec):** **1.78E-07**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 1.33E-07

Ksat (+25%) (cm/s): 2.22E-07

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name:	Fluor-B&W Portsmouth LLC
Job number:	LB11.0188.00
Sample number:	B031RC87.0-88.0
Date sampled:	8/29/11
Depth:	87.0.0-88.0

Remolded or Initial Sample Properties

Initial Mass (g):	248.75
Diameter (cm):	6.299
Length (cm):	3.189
Area (cm^2):	31.16
Volume (cm^3):	99.38
Dry Density (g/cm^3):	2.41
Dry Density (pcf):	150.17
Water Content (%, g/g):	4.1
Water Content (%, vol):	9.8
Void Ratio (e):	0.13
Porosity (%, vol):	11.9
Saturation (%):	82.1

Post Permeation Sample Properties

Saturated Mass (g):	250.96
Dry Mass (g):	239.05
Diameter (cm):	6.302
Length (cm):	3.186
*Deformation (%)**:*	0.09
Area (cm^2):	31.19
Volume (cm^3):	99.38
Dry Density (g/cm^3):	2.41
Dry Density (pcf):	150.17
Water Content (%, g/g):	5.0
Water Content (%, vol):	12.0
Void Ratio(e):	0.13
Porosity (%, vol):	11.9
Saturation (%):*	100.8

Test and Sample Conditions

Permeant liquid used:	Tap Water
Sample Preparation:	☑ In situ sample, extruded ☐ Remolded Sample
Number of Lifts:	NA
Split:	NA
Percent Coarse Material (%):	NA
Particle Density(g/cm^3):	2.73 ☐ Assumed ☑ Measured
Cell pressure (PSI):	85.0
Influent pressure (PSI):	84.0
Effluent pressure (PSI):	80.0
Panel Used:	☐ D ☐ E ☑ F
Reading:	☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.98	9/26/11 800
B-Value (% saturation) post to test:	0.98	10/1/11 933

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated during depressurizing and sample removal.

**Percent Deformation: based on initial sample length and post permeation sample length.

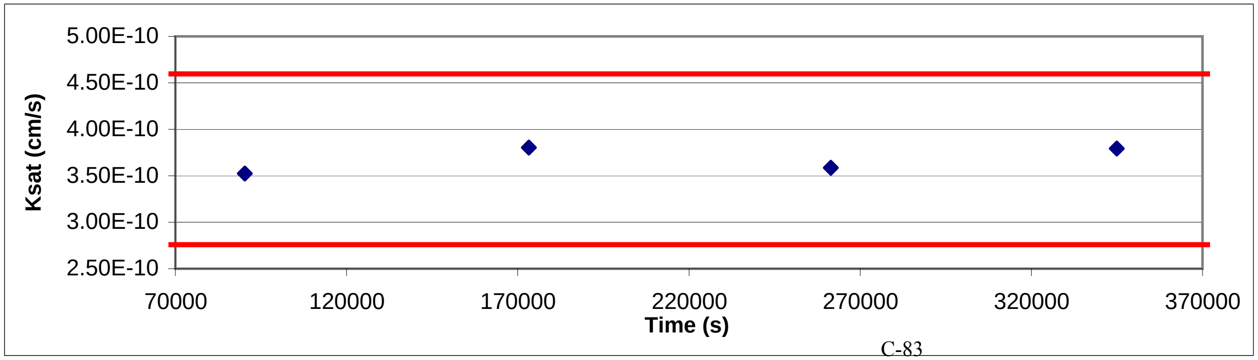
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B031RC87.0-88.0
Date sampled: 8/29/11
Depth: 87.0.0-88.0

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
26-Sep-11	08:17:30	22.1	2.75	22.30	95.40	0.09	90250	1.00	0%	3.74E-10	3.53E-10
27-Sep-11	09:21:40	22.8	2.85	22.20	95.32						
Test # 2:											
27-Sep-11	09:21:40	22.8	2.85	22.20	95.32	0.09	83030	1.00	0%	4.07E-10	3.80E-10
28-Sep-11	08:25:30	22.8	2.95	22.10	95.25						
Test # 3:											
28-Sep-11	08:25:30	22.8	2.95	22.10	95.25	0.09	88200	1.00	0%	3.83E-10	3.59E-10
29-Sep-11	08:55:30	22.7	3.05	22.00	95.18						
Test # 4:											
29-Sep-11	08:55:30	22.7	3.05	22.00	95.18	0.09	83475	1.00	0%	4.05E-10	3.79E-10
30-Sep-11	08:06:45	22.8	3.15	21.90	95.11						

***Average Ksat* (cm/sec):** **3.68E-10**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 2.76E-10

Ksat (+25%) (cm/s): 4.60E-10

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B031RC110.0-111.0
Date sampled: 8/31/11
Depth: 110.0-111.0

Remolded or Initial Sample Properties

Initial Mass (g):	240.34
Diameter (cm):	6.266
Length (cm):	3.341
Area (cm^2):	30.84
Volume (cm^3):	103.03
Dry Density (g/cm^3):	2.22
Dry Density (pcf):	138.38
Water Content (%, g/g):	5.2
Water Content (%, vol):	11.6
Void Ratio (e):	0.15
Porosity (%, vol):	13.1
Saturation (%):	88.9

Post Permeation Sample Properties

Saturated Mass (g):	242.1
Dry Mass (g):	228.37
Diameter (cm):	6.240
Length (cm):	3.369
*Deformation (%)**:*	0.82
Area (cm^2):	30.58
Volume (cm^3):	103.02
Dry Density (g/cm^3):	2.22
Dry Density (pcf):	138.39
Water Content (%, g/g):	6.0
Water Content (%, vol):	13.3
Void Ratio(e):	0.15
Porosity (%, vol):	13.1
Saturation (%):*	102.0

Test and Sample Conditions

Permeant liquid used:	Tap Water
Sample Preparation:	☑ In situ sample, extruded ☐ Remolded Sample
Number of Lifts:	NA
Split:	NA
Percent Coarse Material (%):	NA
Particle Density(g/cm^3):	2.55 ☐ Assumed ☑ Measured
Cell pressure (PSI):	85.0
Influent pressure (PSI):	84.0
Effluent pressure (PSI):	81.0
Panel Used:	☐ A ☐ B ☑ C
Reading:	☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.95	9/20/11 850
B-Value (% saturation) post to test:	0.95	9/21/11 1515

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated or skewed during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

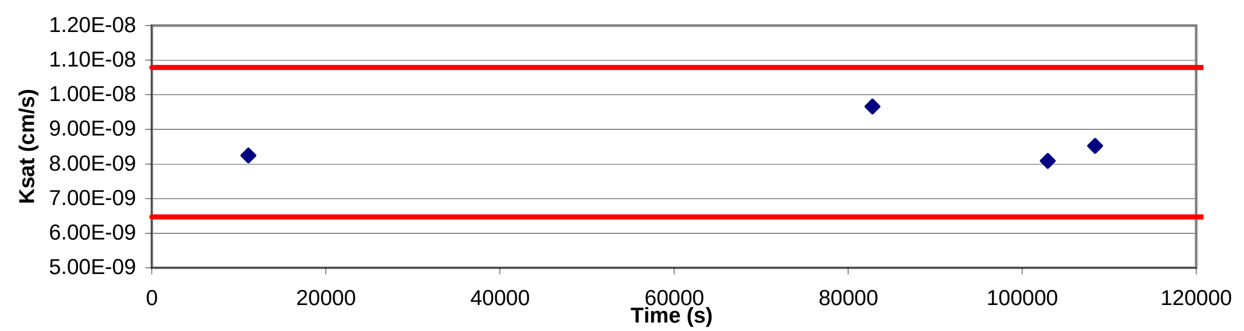
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B031RC110.0-111.0
Date sampled: 8/31/11
Depth: 110.0-111.0

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
20-Sep-11	09:05:00	22.4	5.70	19.70	67.44	0.17	11097	1.00	0%	8.75E-09	8.24E-09
20-Sep-11	12:09:57	22.6	5.90	19.50	67.30						
Test # 2:											
20-Sep-11	12:09:57	22.6	5.90	19.50	67.30	1.30	71725	1.00	2%	1.02E-08	9.66E-09
21-Sep-11	08:05:22	22.3	7.40	18.00	66.27						
Test # 3:											
21-Sep-11	08:05:22	22.3	7.40	18.00	66.27	0.30	20118	1.00	0%	8.60E-09	8.09E-09
21-Sep-11	13:40:40	22.8	7.75	17.65	66.03						
Test # 4:											
21-Sep-11	13:40:40	22.8	7.75	17.65	66.03	0.09	5433	1.00	0%	9.12E-09	8.52E-09
21-Sep-11	15:11:13	22.9	7.85	17.55	65.97						

***Average Ksat* (cm/sec):** **8.63E-09**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 6.47E-09

Ksat (+25%) (cm/s): 1.08E-08

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B031RC131.0-132.0
Date sampled: 8/31/11
Depth: 131-132.0

Remolded or Initial Sample Properties

Initial Mass (g): 264.1
Diameter (cm): 6.201
Length (cm): 3.729
Area (cm^2): 30.20
Volume (cm^3): 112.62
Dry Density (g/cm^3): 2.16
Dry Density (pcf): 134.82
Water Content (%, g/g): 8.6
Water Content (%, vol): 18.5
Void Ratio (e): 0.24
Porosity (%, vol): 19.4
Saturation (%): 95.5

Post Permeation Sample Properties

Saturated Mass (g): 265.41
Dry Mass (g): 243.21
Diameter (cm): 6.199
Length (cm): 3.731
*Deformation (%)**:* 0.06
Area (cm^2): 30.18
Volume (cm^3): 112.61
Dry Density (g/cm^3): 2.16
Dry Density (pcf): 134.83
Water Content (%, g/g): 9.1
Water Content (%, vol): 19.7
Void Ratio(e): 0.24
Porosity (%, vol): 19.4
Saturation (%):* 101.6

Test and Sample Conditions

Permeant liquid used: Tap Water
Sample Preparation: ☑ In situ sample, extruded
☐ Remolded Sample
Number of Lifts: NA
Split: NA
Percent Coarse Material (%): NA
Particle Density(g/cm^3): 2.68 ☐ Assumed ☑ Measured
Cell pressure (PSI): 82.0
Influent pressure (PSI): 80.0
Effluent pressure (PSI): 80.0
Panel Used: ☑ A ☐ B ☐ C
Reading: ☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.98	9/19/11 950
B-Value (% saturation) post to test:	0.98	9/19/11 1040

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated or skewed during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

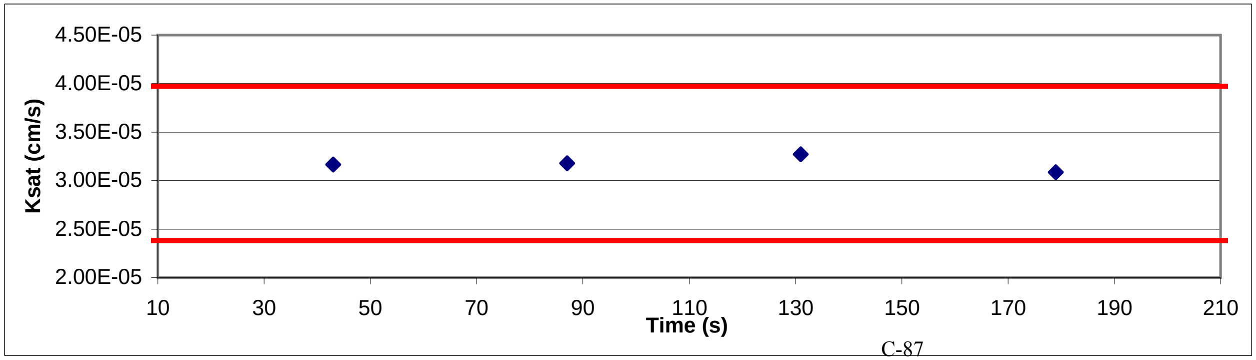
Daniel B. Stephens & Associates, Inc.

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: B031RC131.0-132.0
Date sampled: 8/31/11
Depth: 131-132.0

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient (ΔH/ΔL)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
19-Sep-11	10:17:46	22.4	7.40	22.45	4.66	0.17	43	1.00	3%	3.35E-05	3.17E-05
19-Sep-11	10:18:29	22.4	7.60	22.25	4.53						
Test # 2:											
19-Sep-11	10:18:29	22.4	7.60	22.25	4.53	0.17	44	1.00	3%	3.37E-05	3.18E-05
19-Sep-11	10:19:13	22.4	7.80	22.05	4.41						
Test # 3:											
19-Sep-11	10:19:13	22.4	7.80	22.05	4.41	0.17	44	1.00	3%	3.46E-05	3.27E-05
19-Sep-11	10:19:57	22.4	8.00	21.85	4.29						
Test # 4:											
19-Sep-11	10:19:57	22.4	8.00	21.85	4.29	0.17	48	1.00	3%	3.27E-05	3.09E-05
19-Sep-11	10:20:45	22.4	8.20	21.65	4.16						

***Average Ksat* (cm/sec):** **3.18E-05**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 2.38E-05

Ksat (+25%) (cm/s): 3.97E-05

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: W001RC128.0-129.0
Date sampled: 6/15/11
Depth: 128-129.0

Remolded or Initial Sample Properties

Initial Mass (g): 255.68
Diameter (cm): 6.262
Length (cm): 3.773
Area (cm^2): 30.80
Volume (cm^3): 116.20
Dry Density (g/cm^3): 2.07
Dry Density (pcf): 129.44
Water Content (%, g/g): 6.1
Water Content (%, vol): 12.7
Void Ratio (e): 0.27
Porosity (%, vol): 21.5
Saturation (%): 59.1

Post Permeation Sample Properties

Saturated Mass (g): 266.07
Dry Mass (g): 240.93
Diameter (cm): 6.264
Length (cm): 3.771
*Deformation (%)**:* 0.06
Area (cm^2): 30.82
Volume (cm^3): 116.21
Dry Density (g/cm^3): 2.07
Dry Density (pcf): 129.43
Water Content (%, g/g): 10.4
Water Content (%, vol): 21.6
Void Ratio(e): 0.27
Porosity (%, vol): 21.5
Saturation (%):* 100.8

Test and Sample Conditions

Permeant liquid used: Tap Water
Sample Preparation: ☑ In situ sample, extruded
☐ Remolded Sample
Number of Lifts: NA
Split: NA
Percent Coarse Material (%): NA
Particle Density(g/cm^3): 2.64 ☐ Assumed ☑ Measured
Cell pressure (PSI): 82.0
Influent pressure (PSI): 80.0
Effluent pressure (PSI): 80.0
Panel Used: ☐ A ☑ B ☐ C
Reading: ☐ Annulus ☑ Pipette

		Date/Time
B-Value (% saturation) prior to test*:	0.98	9/19/11 1000
B-Value (% saturation) post to test:	0.98	9/19/11 1043

* Per ASTM D5084 percent saturation is ensured (B-Value ≥ 95%) prior to testing, as post test saturation values may be exaggerated or skewed during depressurizing and sample removal.
**Percent Deformation: based on initial sample length and post permeation sample length.

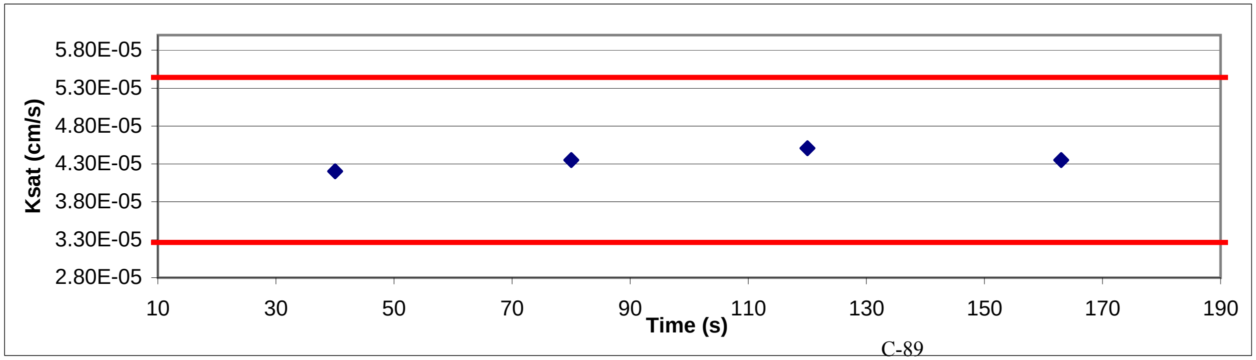
Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Saturated Hydraulic Conductivity
Flexible Wall Falling Head-Rising Tail Method

Job name: Fluor-B&W Portsmouth LLC
Job number: LB11.0188.00
Sample number: W001RC128.0-129.0
Date sampled: 6/15/11
Depth: 128-129.0

Date	Time	Temp (°C)	Influent Pipette Reading	Effluent Pipette Reading	Gradient ($\Delta H/\Delta L$)	Average Flow (cm^3)	Elapsed Time (s)	Ratio (outflow to inflow)	Change in Head (Not to exceed 25%)	k_{sat} T°C (cm/s)	k_{sat} Corrected (cm/s)
Test # 1:											
19-Sep-11	10:23:13	22.4	7.70	19.80	3.71	0.17	40	1.00	3%	4.45E-05	4.20E-05
19-Sep-11	10:23:53	22.4	7.90	19.60	3.58						
Test # 2:											
19-Sep-11	10:23:53	22.4	7.90	19.60	3.58	0.17	40	1.00	3%	4.61E-05	4.35E-05
19-Sep-11	10:24:33	22.4	8.10	19.40	3.46						
Test # 3:											
19-Sep-11	10:24:33	22.4	8.10	19.40	3.46	0.17	40	1.00	4%	4.77E-05	4.51E-05
19-Sep-11	10:25:13	22.4	8.30	19.20	3.34						
Test # 4:											
19-Sep-11	10:25:13	22.4	8.30	19.20	3.34	0.17	43	1.00	4%	4.61E-05	4.35E-05
19-Sep-11	10:25:56	22.4	8.50	19.00	3.22						

Average Ksat **(cm/sec):** **4.35E-05**
Calculated Gravel Corrected Average Ksat (cm/sec): ---



ASTM Required Range (+/- 25%)

Ksat (-25%) (cm/s): 3.27E-05

Ksat (+25%) (cm/s): 5.44E-05

Moisture Retention Characteristics

Summary of Moisture Characteristics and Nonwetting Phase (Air) Permeability of the Initial Drainage Curve

Sample Number	Pressure Head (-cm water)	Moisture Content (%, cm^3/cm^3)		Calculated Air Permeability VGM[1] (cm^2)	Measured Air Permeability ASTM D4525 (cm^2)	
B007RC50.0-51.0	0	13.9		0.0E+00	---	
	63	13.7		2.1E-14	---	
	186	13.4		2.8E-13	---	
	337	13.3		3.7E-13	---	
	1275	13.2		4.4E-13	---	
	As Received	11.7		1.7E-12	1.9E-13	
	857025	3.5		5.2E-12	---	
	Oven Dry	0.0		6.0E-12	3.3E-09	*
B007RC62.7-63.7	0	14.1		0.0E+00	---	
	71	14.0		2.8E-16	---	
	175	13.6		3.5E-15	---	
	337	13.5		4.0E-15	---	
	1275	13.2		6.5E-15	---	
	As Received	12.1		1.3E-14	ND	
	857025	4.7		3.5E-14	---	
	Oven Dry	0.0		4.4E-14	5.1E-12	*
B009RC58.5-59.5	0	16.1	‡‡	0.0E+00	---	
	69	16.1	‡‡	6.4E-18	---	
	158	15.9	‡‡	6.7E-17	---	
	337	15.9	‡‡	8.6E-17	---	
	1275	15.8	‡‡	1.8E-16	---	
	As Received	13.0	‡‡	3.0E-15	ND	
	15705	10.3	‡‡	5.6E-15	---	
	23863	8.0	‡‡	7.6E-15	---	
	39466	5.9	‡‡	9.0E-15	---	
	73426	4.8	‡‡	9.7E-15	---	
	148687	3.4	‡‡	1.0E-14	---	
	250973	2.9	‡‡	1.1E-14	---	
	857025	1.2	‡‡	1.1E-14	---	
	Oven Dry	0.0	‡‡	1.2E-14	2.0E-12	*

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[1] Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728. van Genuchten (VGM) model used.

* = Fractures visible, preferential flow suspected.

Summary of Moisture Characteristics and Nonwetting Phase (Air) Permeability of the Initial Drainage Curve

Sample Number	Pressure Head (-cm water)	Moisture Content (%, cm^3/cm^3)	Calculated Air Permeability VGM[1] (cm^2)	Measured Air Permeability ASTM D4525 (cm^2)
B009RC96.5-97.5	0	11.7	0.0E+00	---
	70	11.3	2.0E-16	---
	173	11.2	6.2E-16	---
	337	11.2	6.8E-16	---
	1275	11.1	8.1E-16	---
	As Received	9.8	4.4E-15	ND
	857025	3.0	1.4E-14	---
	Oven Dry	0.0	1.6E-14	1.0E-12
B029RC19.0-20.0	As Received	23.9	0.0E+00	4.0E-13
	0	22.7	0.0E+00	---
	66	22.7	7.3E-14	---
	161	22.6	9.8E-14	---
	337	22.6	1.1E-13	---
	1275	22.0	5.5E-13	---
	18968	8.7	1.1E-11	---
	27739	7.3	1.1E-11	---
	40486	6.0	1.2E-11	---
	66083	4.3	1.3E-11	---
	140936	2.9	1.3E-11	---
	820837	1.9	1.4E-11	---
	857025	1.7	1.4E-11	---
	Oven Dry	0.0	1.4E-11	3.8E-12
B029RC23.0-24.0	0	17.0	0.0E+00	---
	70	16.7	9.5E-18	---
	171	16.5	6.5E-17	---
	337	16.5	8.3E-17	---
	1275	16.1	3.6E-16	---
	As Received	14.2	1.9E-15	ND
	37631	10.6	4.3E-15	---
	62718	8.3	5.5E-15	---
	140936	6.8	6.2E-15	---
	245364	5.0	6.9E-15	---
	857025	3.0	7.5E-15	---
	Oven Dry	0.0	8.3E-15	5.6E-12 *

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[1] Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728. van Genuchten (VGM) model used.

* = Fractures visible, preferential flow suspected.

Summary of Moisture Characteristics and Nonwetting Phase (Air) Permeability of the Initial Drainage Curve

Sample Number	Pressure Head (-cm water)	Moisture Content (%, cm^3/cm^3)	Calculated Air Permeability VGM[1] (cm^2)	Measured Air Permeability ASTM D4525 (cm^2)
B029RC62.7-64.0	As Received	11.4	0.0E+00	ND
	0	11.2	0.0E+00	---
	72	10.5	3.4E-16	---
	171	10.3	5.8E-16	---
	337	10.3	6.1E-16	---
	1275	10.2	6.5E-16	---
	857025	5.2	2.9E-15	---
	Oven Dry	0.0	4.0E-15	2.7E-12
B031RC54.0-55.0	As Received	13.6	0.0E+00	1.0E-13
	0	13.5	0.0E+00	---
	73	13.5	6.5E-15	---
	174	13.4	3.0E-14	---
	337	13.3	6.1E-14	---
	1275	13.3	8.2E-14	---
	857025	3.1	2.9E-12	---
	Oven Dry	0.0	3.3E-12	5.7E-12 *
B031RC67.0-68.0	0	11.3	0.0E+00	---
	67	11.0	8.9E-15	---
	180	10.9	2.3E-14	---
	337	10.9	3.8E-14	---
	As Received	10.9	3.1E-14	1.1E-13
	1275	10.5	1.2E-13	---
	16929	5.4	1.2E-12	---
	28146	4.3	1.4E-12	---
	58842	3.1	1.5E-12	---
	183258	2.0	1.6E-12	---
	857025	0.7	1.8E-12	---
	Oven Dry	0.0	1.8E-12	1.3E-12

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[1] Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728. van Genuchten (VGM) model used.

* = Fractures visible, preferential flow suspected.

Summary of Moisture Characteristics and Nonwetting Phase (Air) Permeability of the Initial Drainage Curve

Sample Number	Pressure Head (-cm water)	Moisture Content (%, cm^3/cm^3)	Calculated Air Permeability VGM[1] (cm^2)	Measured Air Permeability ASTM D4525 (cm^2)	
B031RC87.0-88.0	0	12.7	0.0E+00	---	
	69	12.4	4.3E-17	---	
	172	12.3	7.4E-17	---	
	337	12.3	8.4E-17	---	
	1275	12.2	1.0E-16	---	
	As Received	9.8	1.4E-15	ND	
	857025	2.7	3.3E-15	---	
	Oven Dry	0.0	3.8E-15	4.4E-11	*
B031RC110-111.0	0	11.8	0.0E+00	---	
	As Received	11.6	0.0E+00	ND	
	77	11.2	6.1E-15	---	
	152	11.2	7.1E-15	---	
	337	11.1	7.7E-15	---	
	1275	11.1	8.6E-15	---	
	857025	4.8	6.7E-14	---	
	Oven Dry	0.0	8.8E-14	2.6E-12	*
B031RC131-132.0	0	18.6	0.0E+00	---	
	18	18.5	1.3E-11	---	
	As Received	18.5	1.2E-11	3.0E-12	
	72	18.5	1.4E-11	---	
	155	18.4	1.5E-11	---	
	337	11.4	1.7E-10	---	
	1275	5.7	2.7E-10	---	
	27433	2.3	3.0E-10	---	
	41506	2.0	3.1E-10	---	
	69244	1.4	3.1E-10	---	
	152358	1.1	3.1E-10	---	
	290031	0.9	3.2E-10	---	
	857025	0.4	3.2E-10	---	
	Oven Dry	0.0	3.2E-10	9.8E-10	

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[1] Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728. van Genuchten (VGM) model used.

* = Fractures visible, preferential flow suspected.

Summary of Moisture Characteristics and Nonwetting Phase (Air) Permeability of the Initial Drainage Curve

Sample Number	Pressure Head (-cm water)	Moisture Content (%, cm^3/cm^3)	Calculated Air Permeability VGM[1] (cm^2)	Measured Air Permeability ASTM D4525 (cm^2)
W001RC128-129.0	0	19.0	0.0E+00	---
	22	19.2	2.9E-12	---
	80	19.3	2.2E-12	---
	173	18.3	1.4E-11	---
	As Received	12.7	1.5E-10	9.4E-12
	337	9.6	2.5E-10	---
	1275	5.4	3.6E-10	---
	25291	1.9	4.3E-10	---
	35693	1.6	4.4E-10	---
	89538	1.2	4.4E-10	---
	196108	0.9	4.4E-10	---
	324602	0.8	4.4E-10	---
	660321	0.6	4.4E-10	---
	857025	0.3	4.4E-10	---
	Oven Dry	0.0	4.4E-10	1.4E-09

---

[1] Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728. van Genuchten (VGM) model used.

* = Fractures visible, preferential flow suspected.

Summary of Calculated Unsaturated Hydraulic Properties

					Oversize Corrected	
Sample Number	α (cm^{-1})	N (dimensionless)	θ_r (% vol)	θ_s (% vol)	θ_r (% vol)	θ_s (% vol)
B007RC50.0-51.0	0.0002	1.2606	0.00	13.60	NA	NA
B007RC62.7-63.7	0.0004	1.1856	0.00	13.91	NA	NA
B009RC58.5-59.5	0.0001	1.5321	0.00	16.04	NA	NA
B009RC96.5-97.5	0.0002	1.2776	0.00	11.37	NA	NA
B029RC19.0-20.0	0.0003	1.5515	0.00	22.84	NA	NA
B029RC23.0-24.0	0.0001	1.4125	0.00	16.59	NA	NA
B029RC62.7-64.0	0.0006	1.1154	0.00	10.67	NA	NA
B031RC54.0-55.0	0.0001	1.3359	0.00	13.43	NA	NA
B031RC67.0-68.0	0.0003	1.4713	0.00	11.05	NA	NA
B031RC87.0-88.0	0.0001	1.3398	0.00	12.43	NA	NA
B031RC110-111.0	0.0003	1.1580	0.00	11.37	NA	NA
B031RC131-132.0	0.0049	1.5510	0.00	19.24	NA	NA
W001RC128-129.0	0.0040	2.1378	1.14	19.67	NA	NA

--- = Oversize correction is unnecessary since coarse fraction < 5% of composite mass
NR = Not requested
NA = Not applicable

Moisture Retention Data

Hanging Column / Pressure Plate

(Soil-Water Characteristic Curve)

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B007RC50.0-51.0
Date Sampled: 8/26/11
Depth: 50.0-51.0

Dry wt. of sample (g)*:* 290.77
Tare wt., ring (g)*:* 0.00
Tare wt., screen & clamp (g)*:* 0.00
Initial sample volume (cm^3)*:* 123.78
Initial dry bulk density (g/cm^3)*:* 2.35
Measured particle density (g/cm^3)*:* 2.73
Initial calculated total porosity (%)*:* 14.01

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content[†] (% vol)
Hanging column:	11-Oct-11	12:30	307.92	0	13.86
	18-Oct-11	9:20	307.70	63.0	13.68
	25-Oct-11	13:40	307.31	186.0	13.36
Pressure plate:	7-Nov-11	7:45	307.20	337	13.27
	19-Nov-11	12:15	307.12	1275	13.21

Volume Adjusted Data[1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	63.0	---	---	---	---
	186.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

[†] Assumed density of water is 1.0 g/cm^3

[‡‡] Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: B007RC50.0-51.0

Initial sample bulk density (g/cm^3)*:* 2.35
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of relative humidity box sample* (g)*:* 92.20
Tare weight (g)*:* 47.60

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content [†] (% vol)
Relative humidity box:	21-Sep-11	10:00	92.87	857025	3.54

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

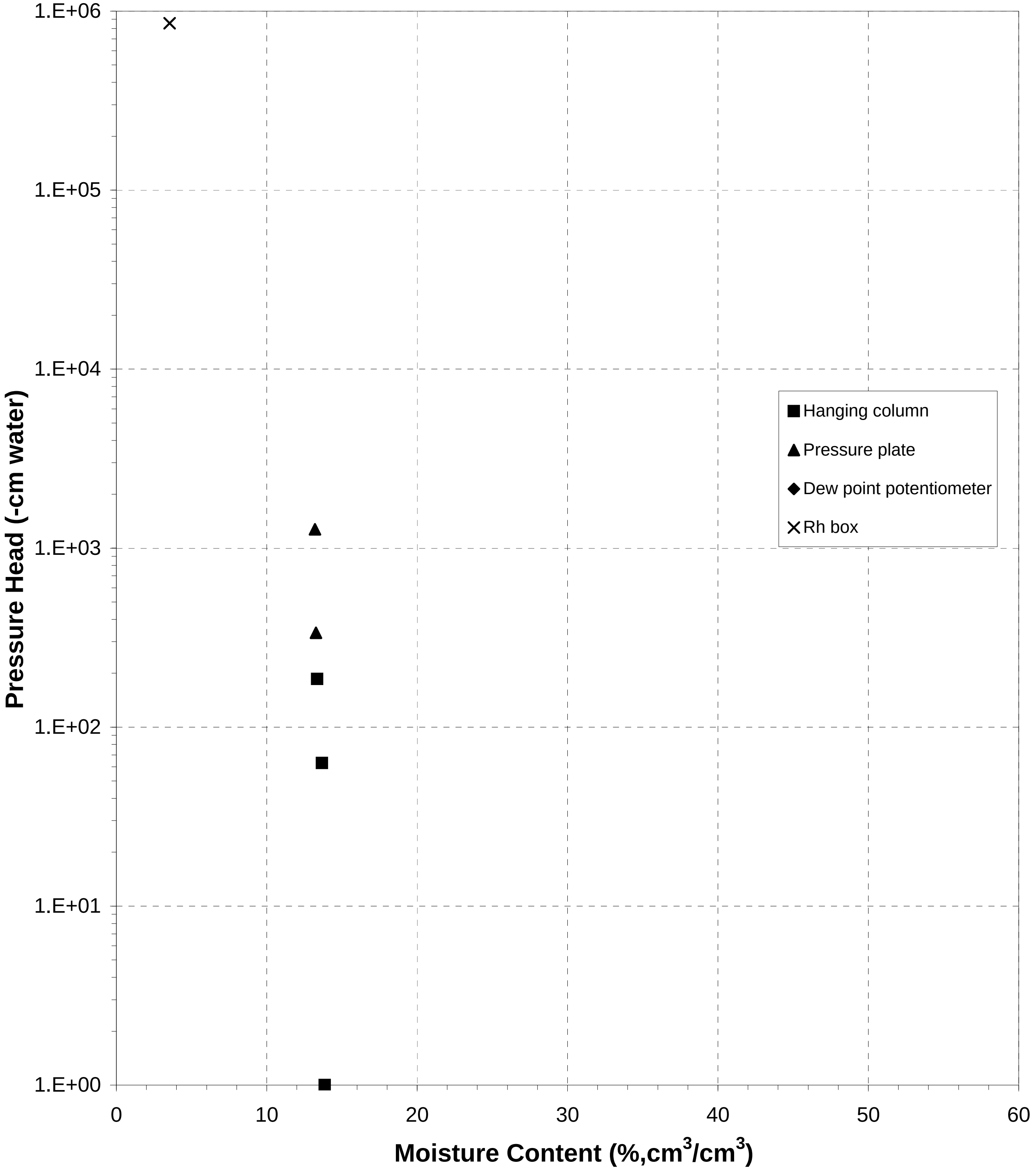
[†] Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

[‡‡] Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

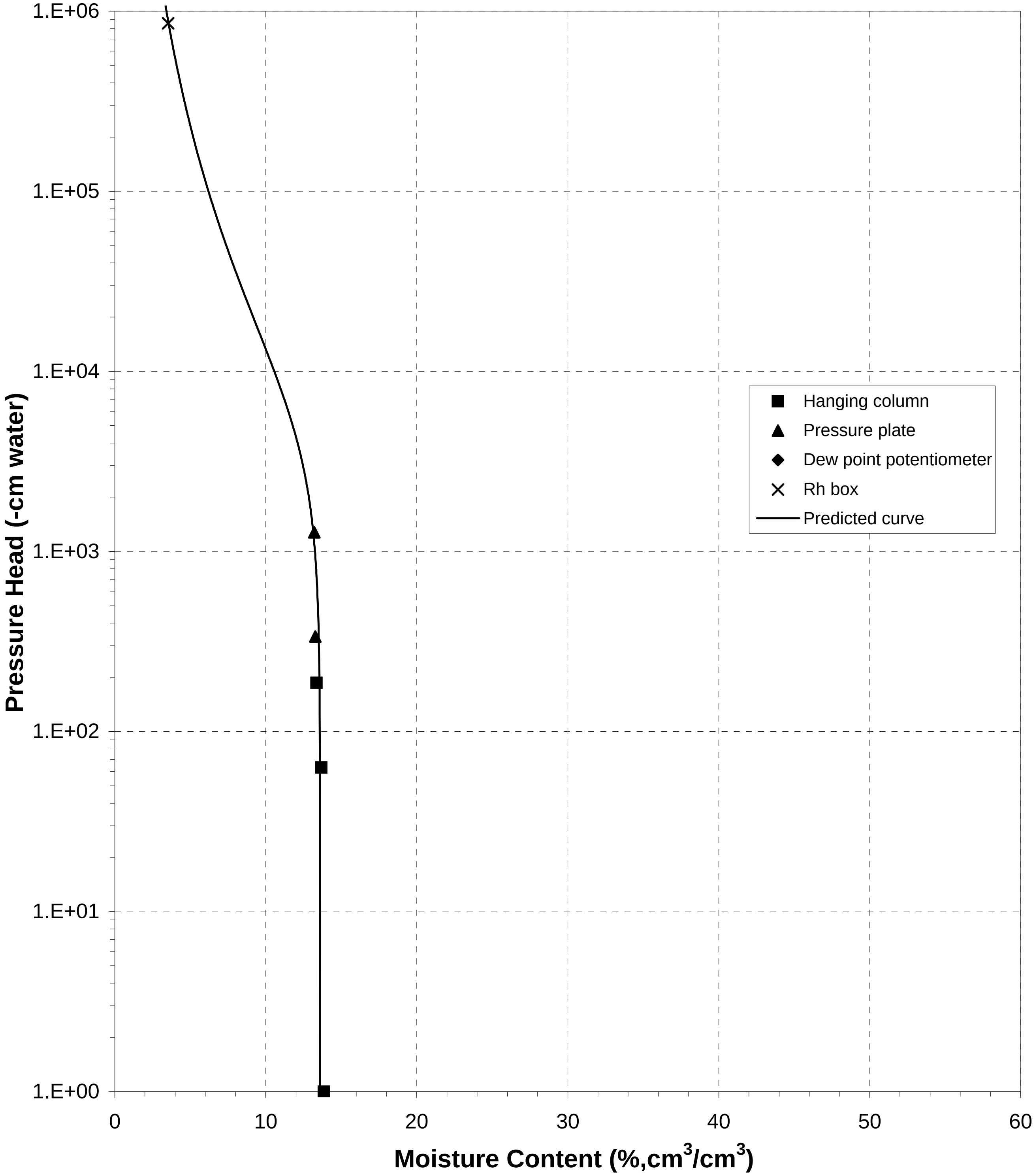
Water Retention Data Points

Sample Number: B007RC50.0-51.0



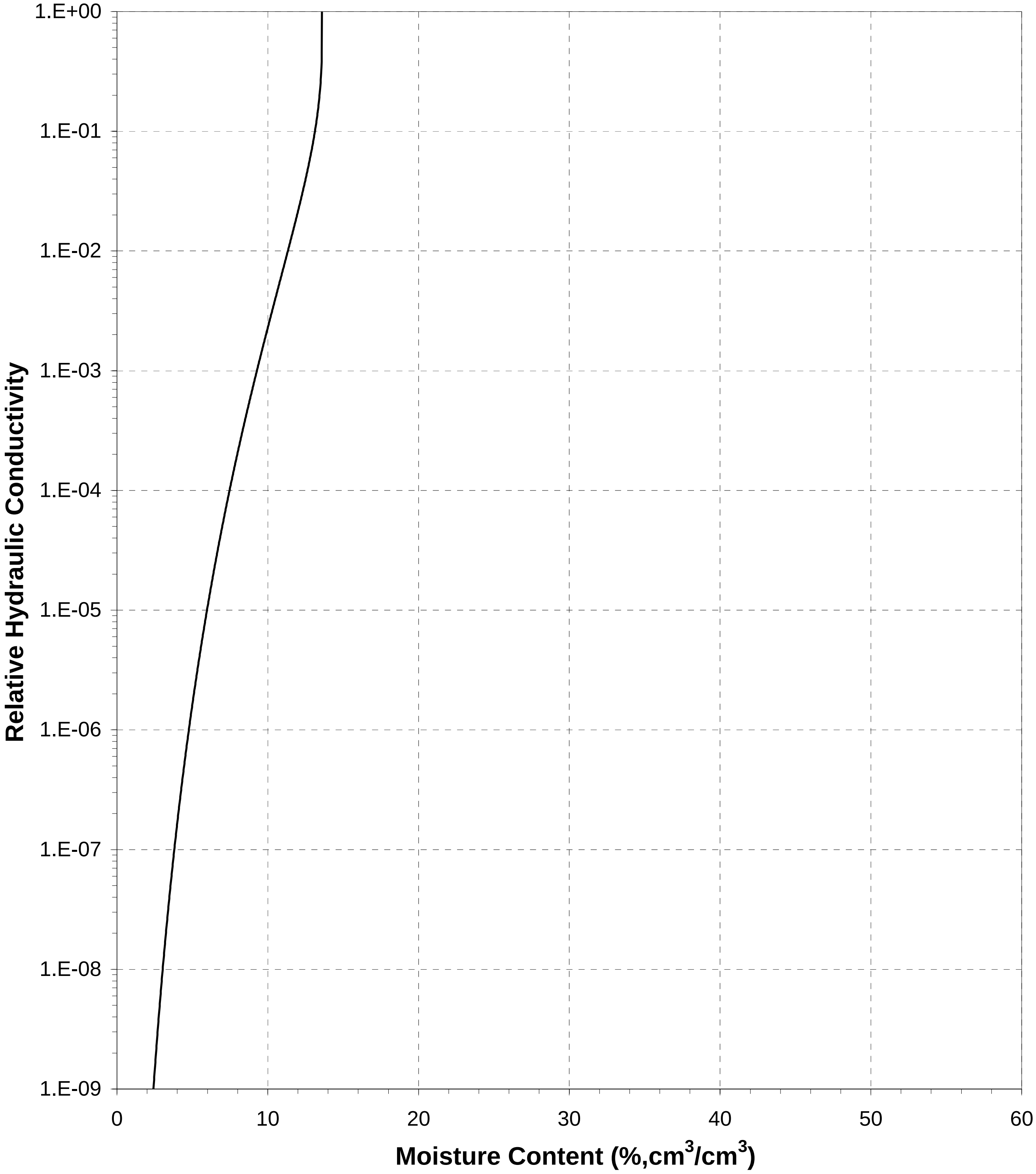
Predicted Water Retention Curve and Data Points

Sample Number: B007RC50.0-51.0



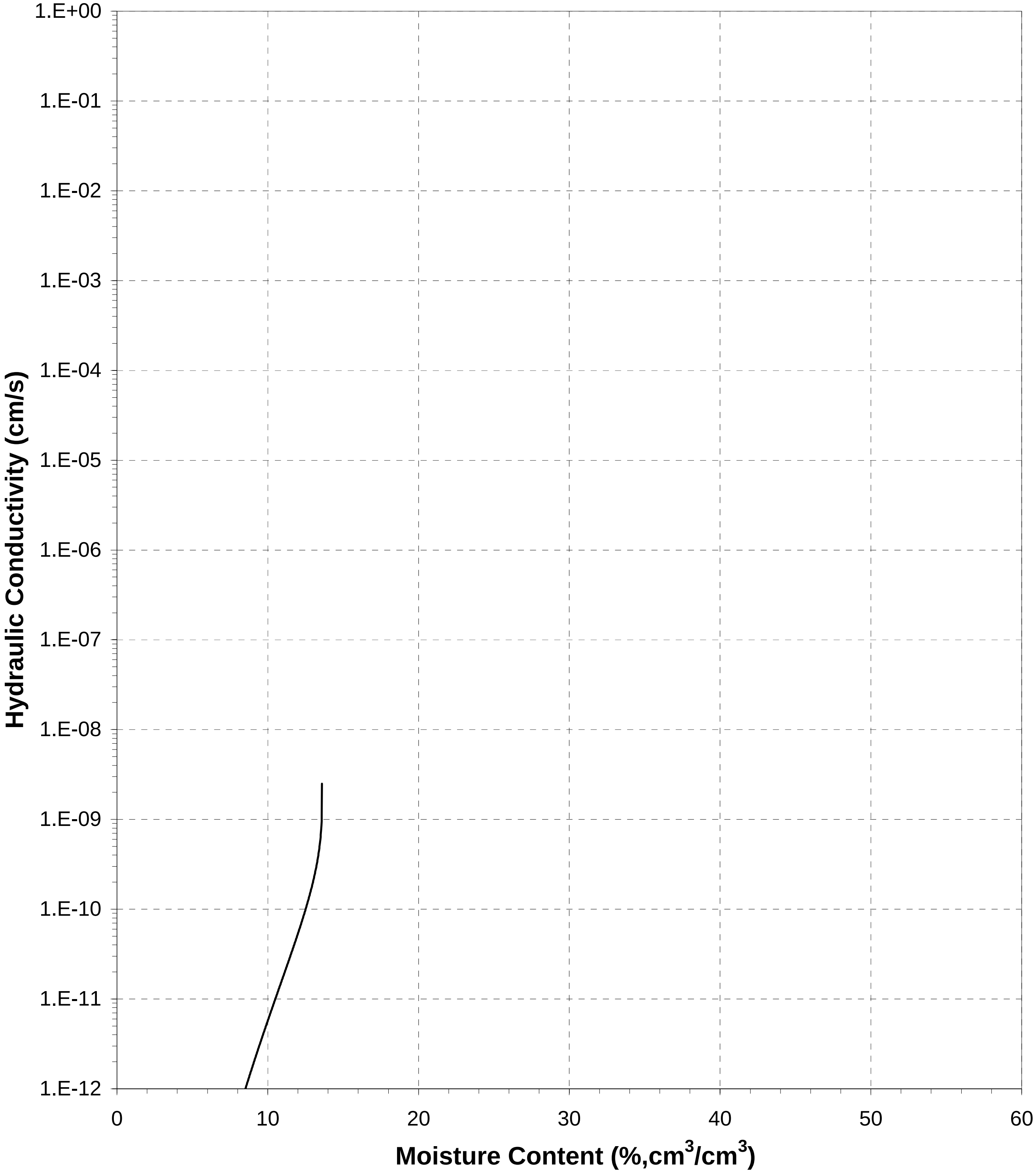
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B007RC50.0-51.0



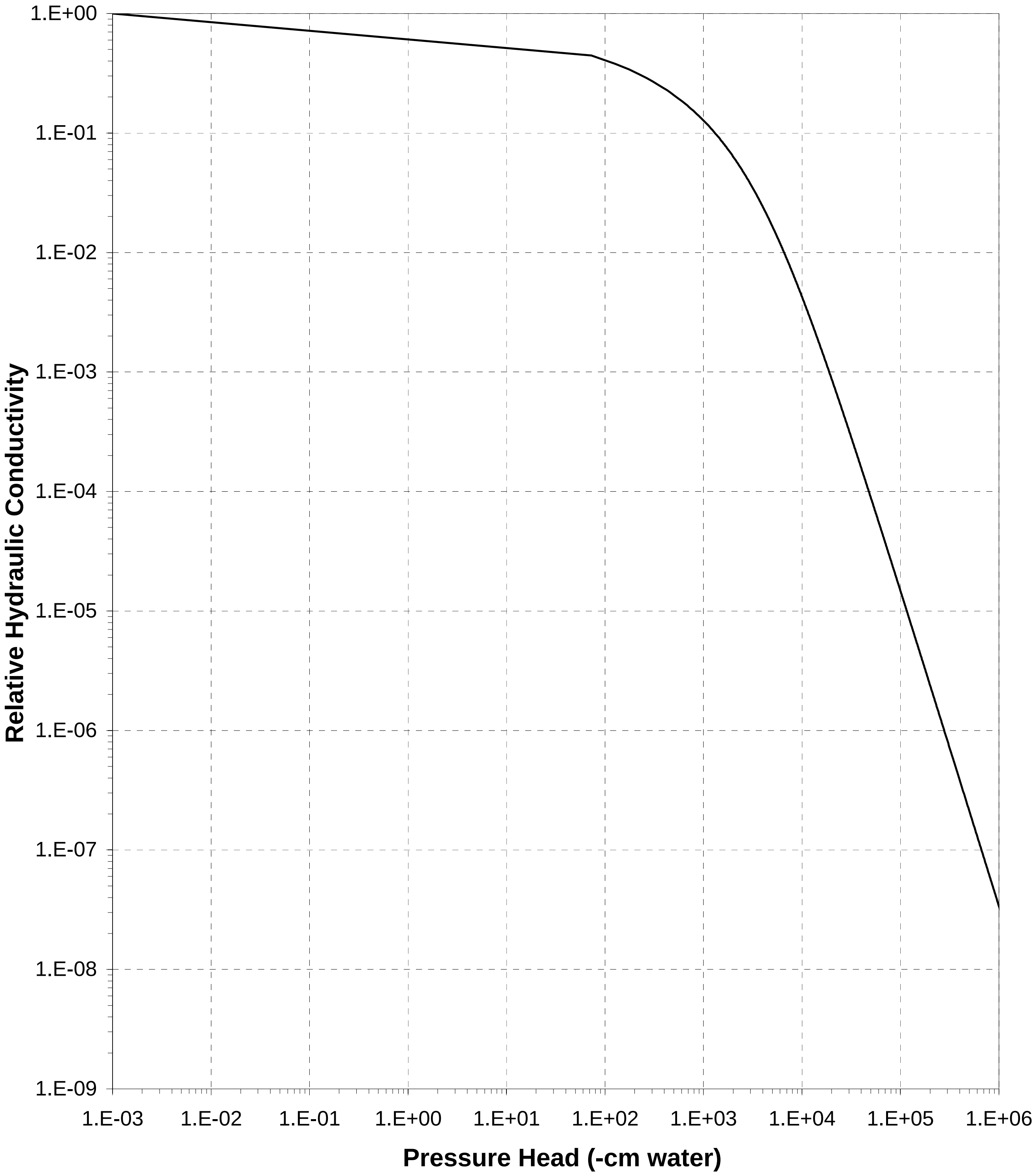
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B007RC50.0-51.0



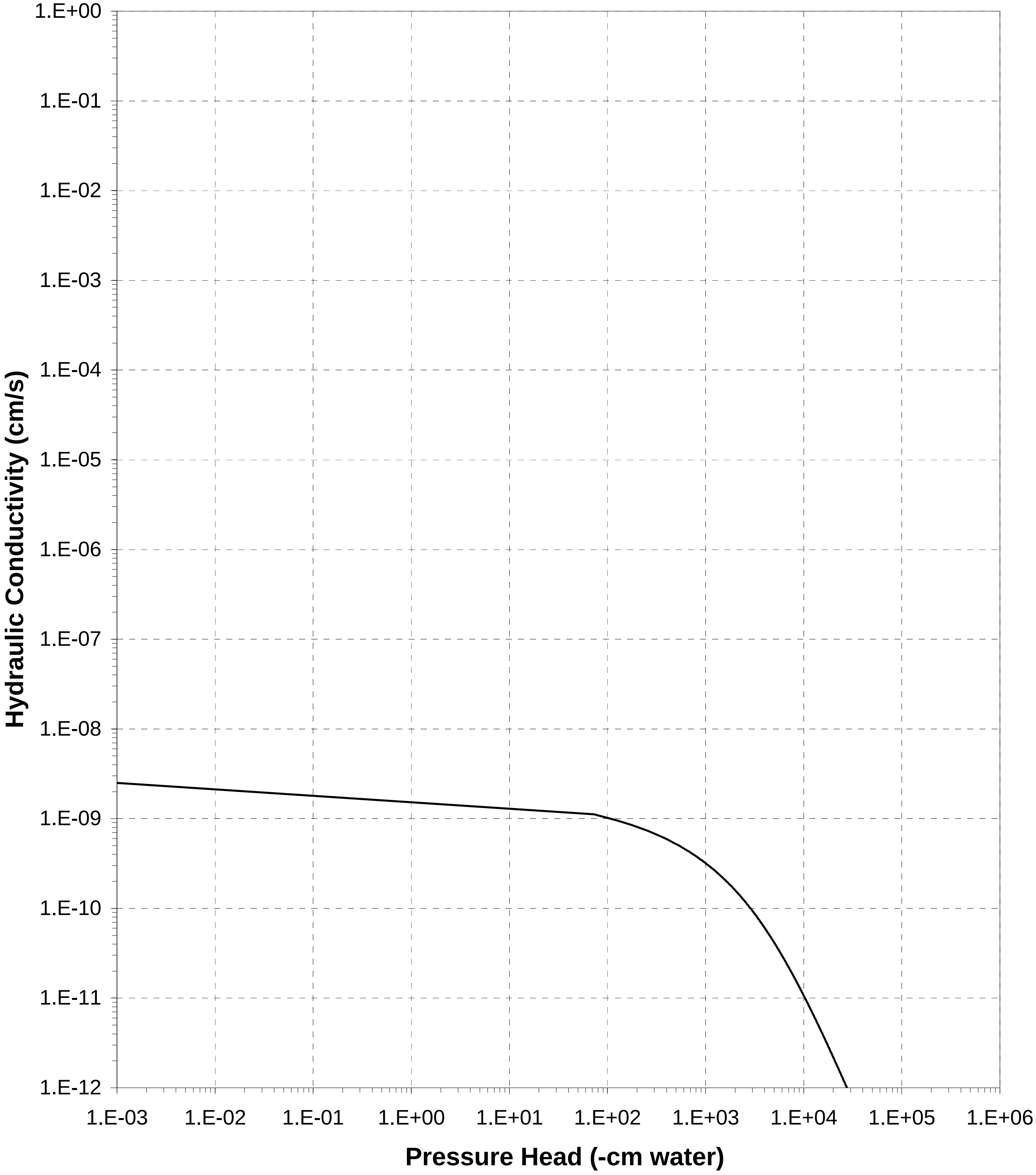
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B007RC50.0-51.0



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B007RC50.0-51.0



Moisture Retention Data
Hanging Column / Pressure Plate
(Soil-Water Characteristic Curve)

Job Name:	Fluor-B&W Portsmouth LLC	*Dry wt. of sample* (g):	160.45
Job Number:	LB11.0188.00	*Tare wt., ring* (g):	0.00
Sample Number:	B007RC62.7-63.7	*Tare wt., screen & clamp* (g):	0.00
Date Sampled:	8/26/11	*Initial sample volume* (cm^3):	74.66
Depth:	62.7-63.7	*Initial dry bulk density* (g/cm^3):	2.15
		Measured particle density (g/cm^3):	2.47
		Initial calculated total porosity (%):	12.92

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content[†] (% vol)
Hanging column:	7-Oct-11	10:55	170.98	0	14.10
	14-Oct-11	11:45	170.92	71.0	14.02
	21-Oct-11	8:08	170.60	175.0	13.59
Pressure plate:	7-Nov-11	7:30	170.56	337	13.54
	19-Nov-11	12:00	170.32	1275	13.22

Volume Adjusted Data[1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	71.0	---	---	---	---
	175.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

[†] Assumed density of water is 1.0 g/cm^3

[‡‡] Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

Daniel B. Stephens & Associates, Inc.

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: B007RC62.7-63.7

Initial sample bulk density (g/cm^3)*:* 2.15
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of relative humidity box sample* (g)*:* 61.18
Tare weight (g)*:* 41.04

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content [†] (% vol)
Relative humidity box:	21-Sep-11	10:00	61.63	857025	4.72

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

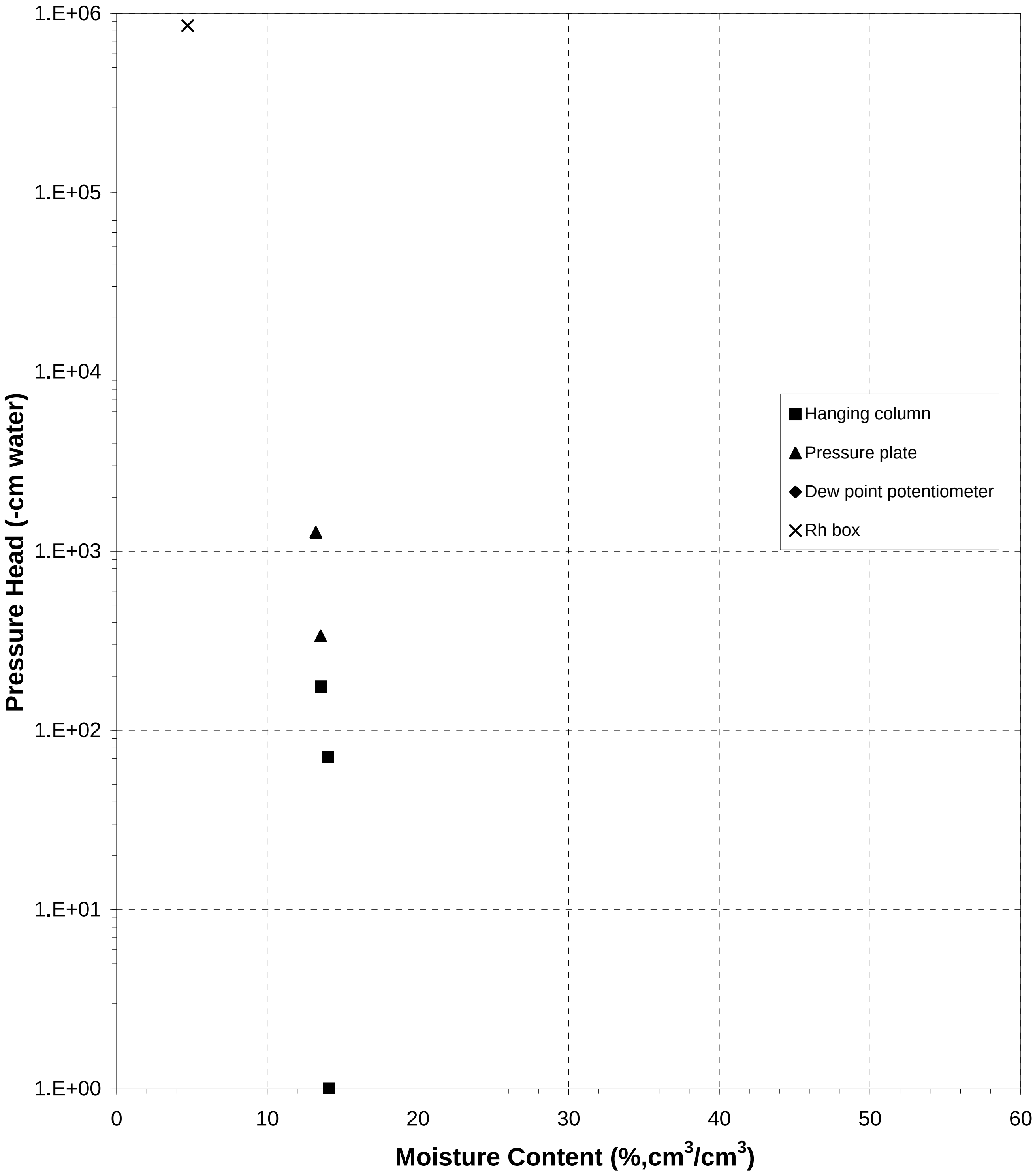
[†] Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

[‡‡] Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

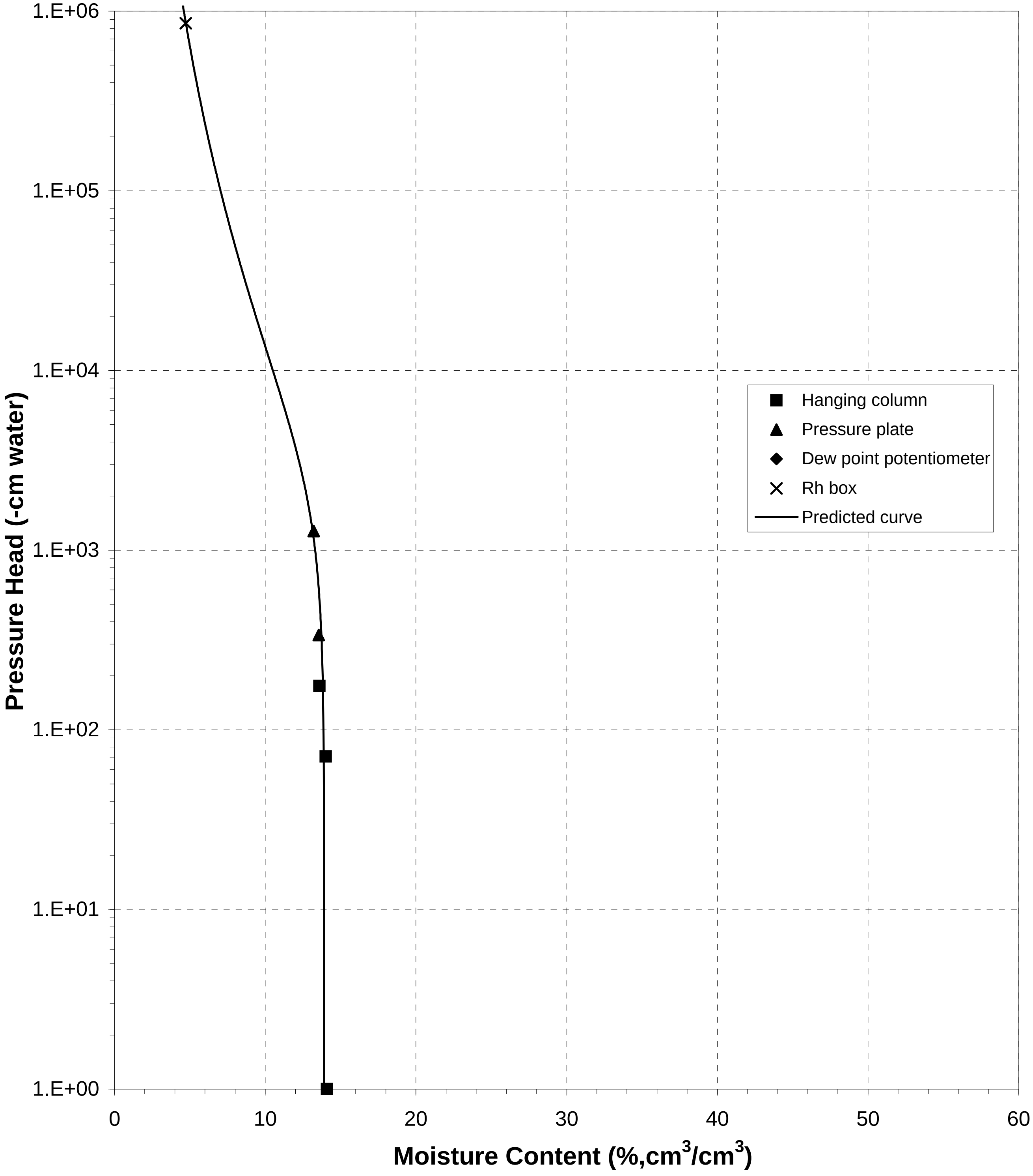
Water Retention Data Points

Sample Number: B007RC62.7-63.7



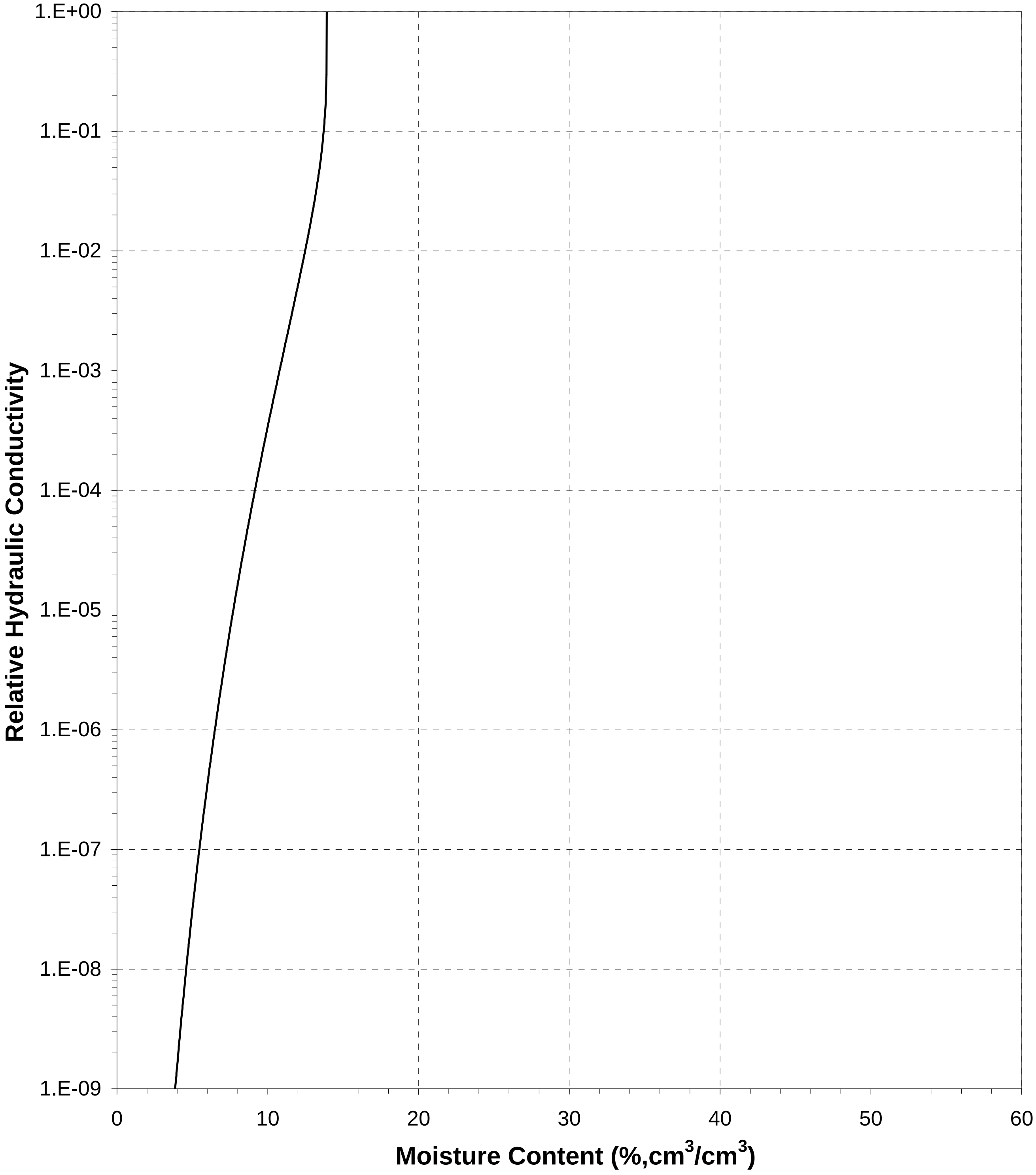
Predicted Water Retention Curve and Data Points

Sample Number: B007RC62.7-63.7



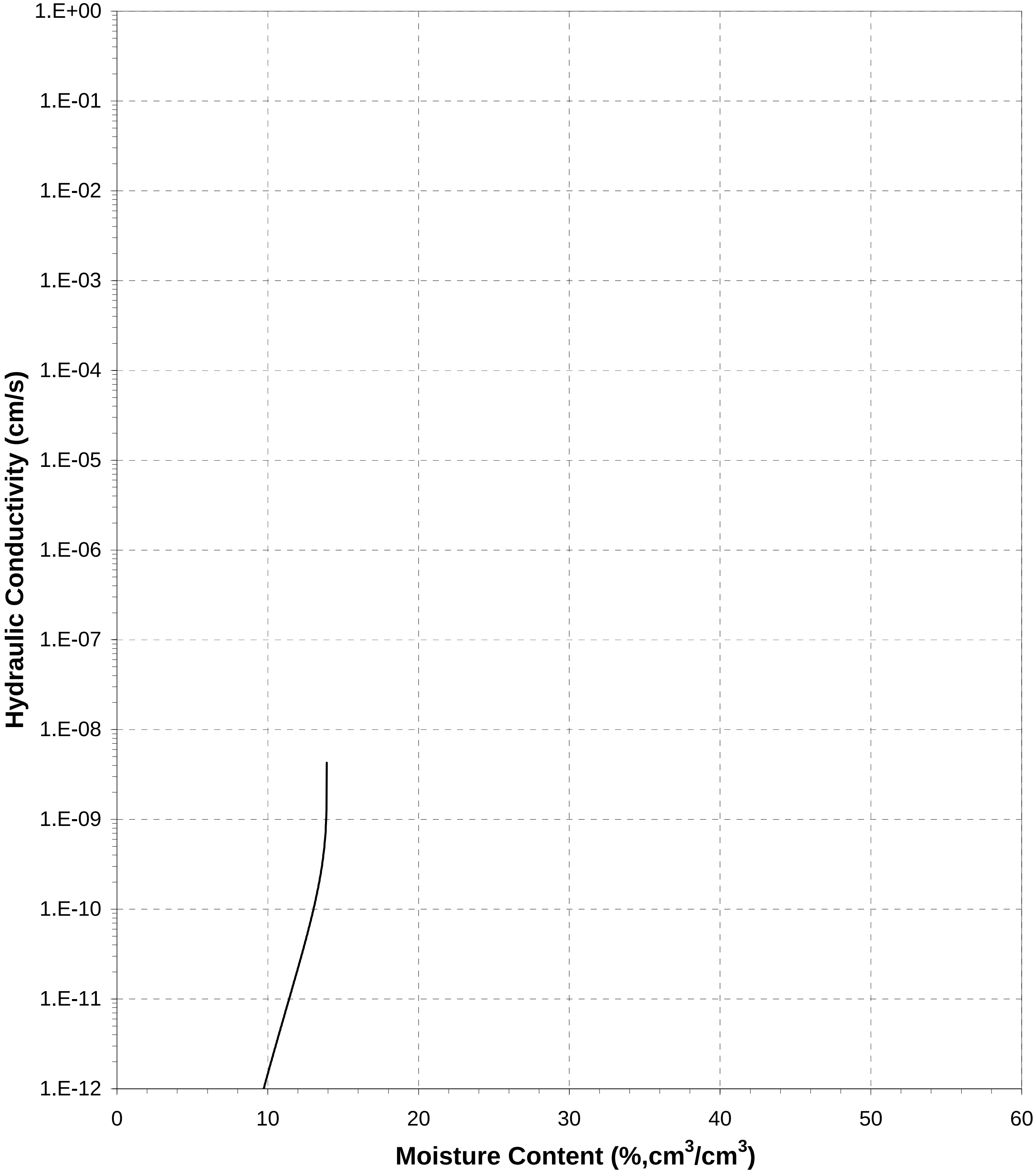
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B007RC62.7-63.7



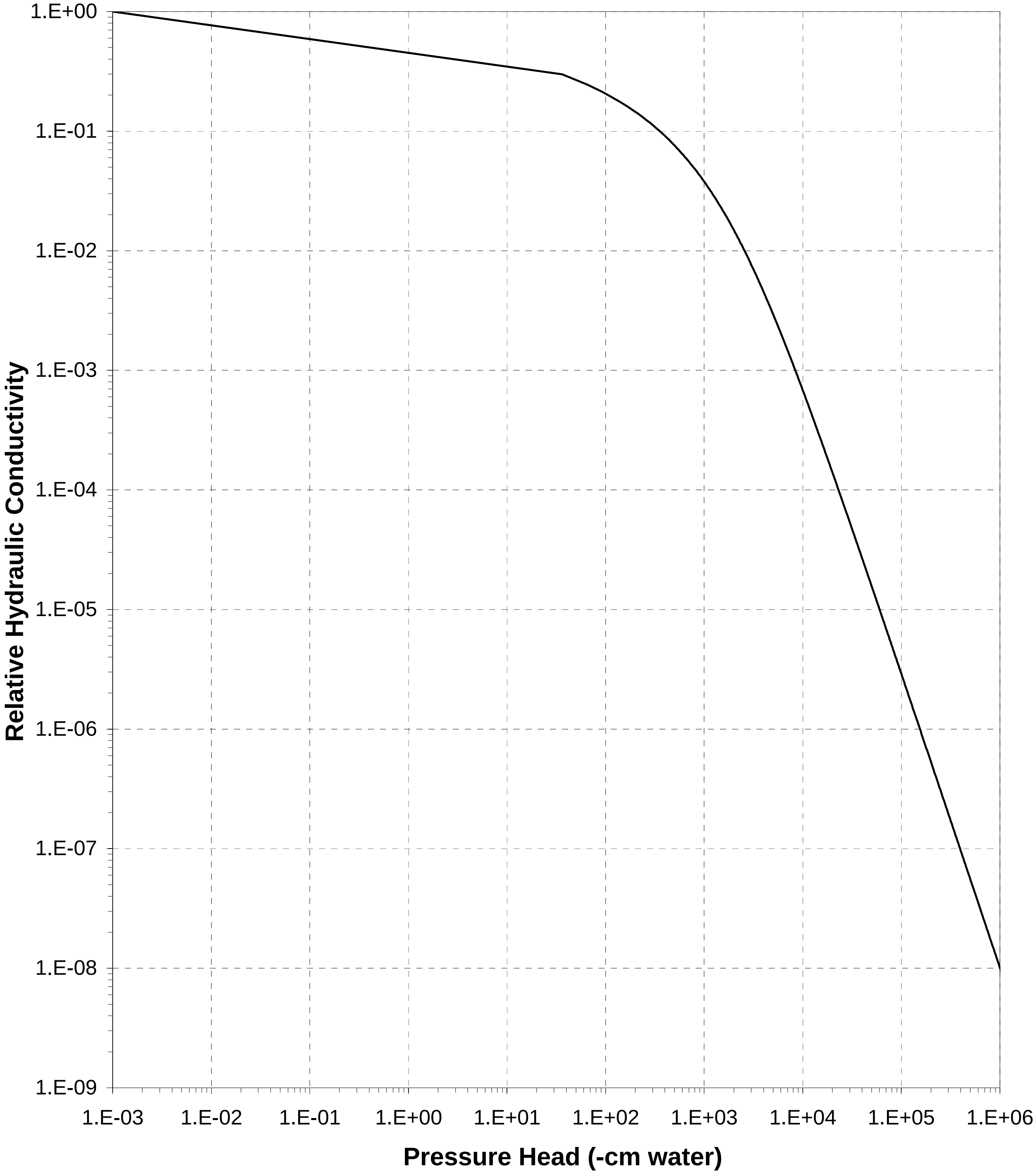
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B007RC62.7-63.7



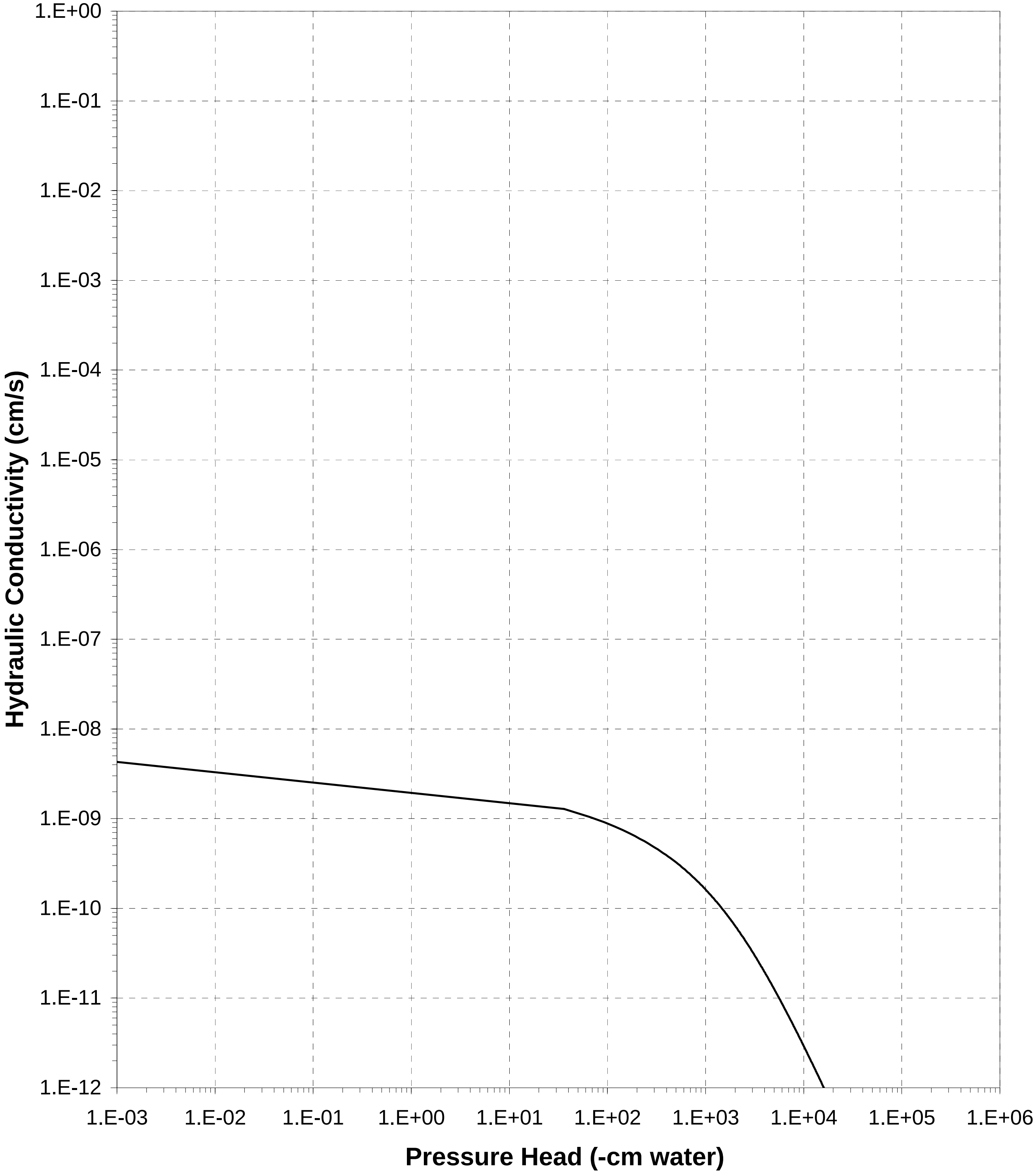
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B007RC62.7-63.7



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B007RC62.7-63.7



Moisture Retention Data
Hanging Column / Pressure Plate
(Soil-Water Characteristic Curve)

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B009RC58.5-59.5
Date Sampled: 8/26/11
Depth: 58.5-59.5

Dry wt. of sample (g): 255.71
Tare wt., ring (g): 135.67
Tare wt., screen & clamp (g): 0.00
Initial sample volume (cm^3): 111.33
Initial dry bulk density (g/cm^3): 2.30
Measured particle density (g/cm^3): 2.71
Initial calculated total porosity (%): 15.31

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content[†] (% vol)	
Hanging column:	3-Oct-11	16:30	409.60	0	16.08	‡‡
	10-Oct-11	12:30	409.58	69.0	16.07	‡‡
	17-Oct-11	13:45	409.42	158.0	15.92	‡‡
Pressure plate:	2-Nov-11	16:18	409.39	337	15.90	‡‡
	15-Nov-11	14:55	409.25	1275	15.77	‡‡

Volume Adjusted Data[1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	113.29	+1.76%	2.26	16.77
	69.0	113.29	+1.76%	2.26	16.77
	158.0	113.29	+1.76%	2.26	16.77
Pressure plate:	337	113.29	+1.76%	2.26	16.77
	1275	113.29	+1.76%	2.26	16.77

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

[†] Assumed density of water is 1.0 g/cm^3

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: B009RC58.5-59.5

Initial sample bulk density (g/cm^3)*:* 2.30
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of dew point potentiometer sample* (g)*:* 169.34
Tare weight, jar (g)*:* 112.35

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content [†] (% vol)	
Dew point potentiometer:	6-Oct-11	14:15	171.95	15705	10.34	‡‡
	6-Oct-11	13:15	171.35	23863	7.96	‡‡
	14-Sep-11	15:15	170.84	39466	5.94	‡‡
	14-Sep-11	13:25	170.54	73426	4.75	‡‡
	13-Sep-11	13:15	170.21	148687	3.45	‡‡
	13-Sep-11	9:50	170.06	250973	2.85	‡‡

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Dew point potentiometer:	15705	113.29	+1.76%	2.26	16.77
	23863	113.29	+1.76%	2.26	16.77
	39466	113.29	+1.76%	2.26	16.77
	73426	113.29	+1.76%	2.26	16.77
	148687	113.29	+1.76%	2.26	16.77
	250973	113.29	+1.76%	2.26	16.77

Dry weight of relative humidity box sample* (g)*:* 90.43
Tare weight (g)*:* 44.10

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content [†] (% vol)	
Relative humidity box:	21-Sep-11	10:00	90.67	857025	1.20	‡‡

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	113.29	+1.76%	2.26	16.77

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

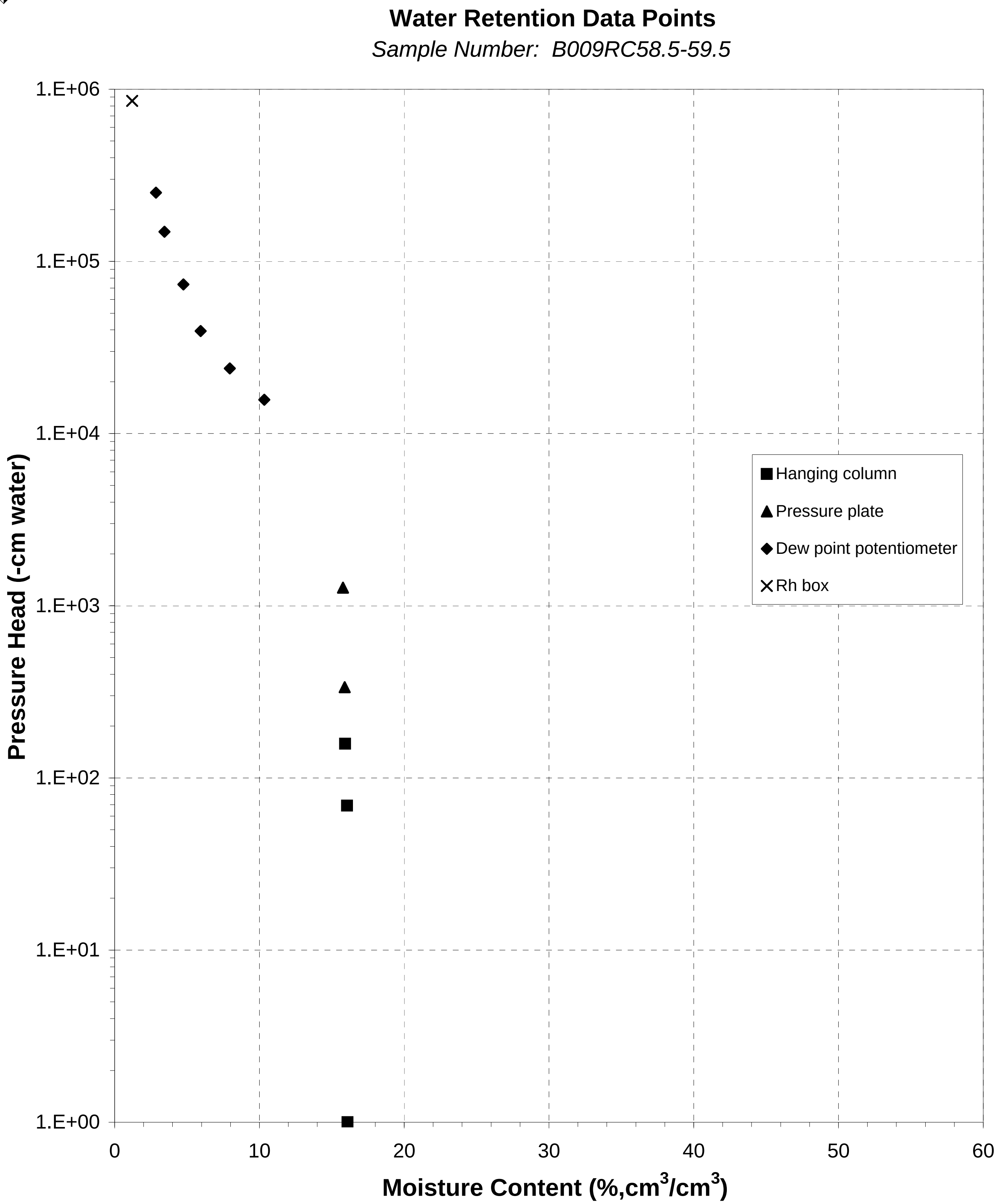
[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

[*] Weight including tares

[†] Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

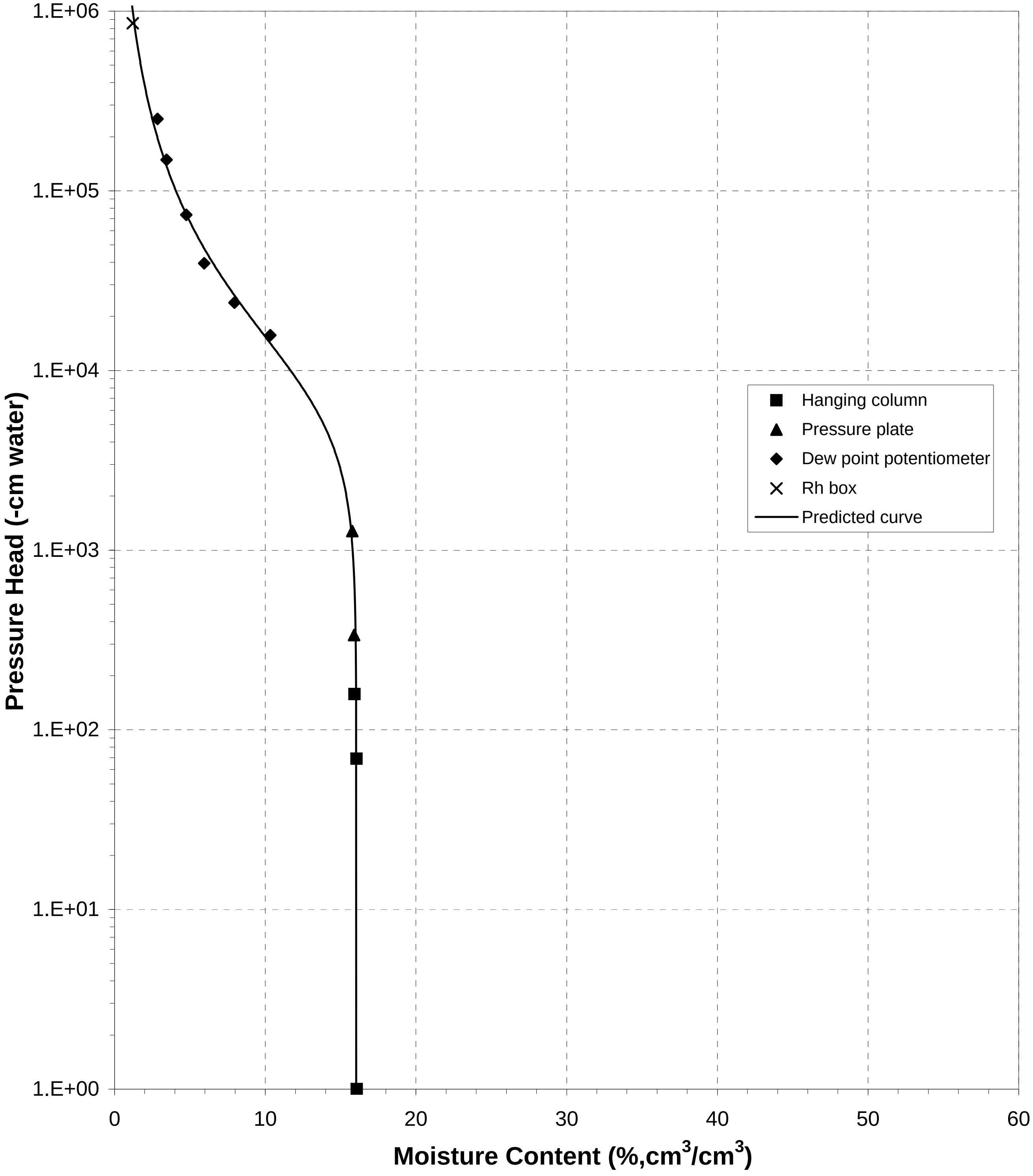
[‡‡] Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines


Water Retention Data Points
Sample Number: B009RC58.5-59.5
1.E+06
1.E+05
1.E+04
1.E+03
1.E+02
1.E+01
1.E+00
0
10
20
30
40
50
60
Pressure Head (-cm water)
Moisture Content (%,cm3/cm3)
■ Hanging column
▲ Pressure plate
◆ Dew point potentiometer
✕ Rh box

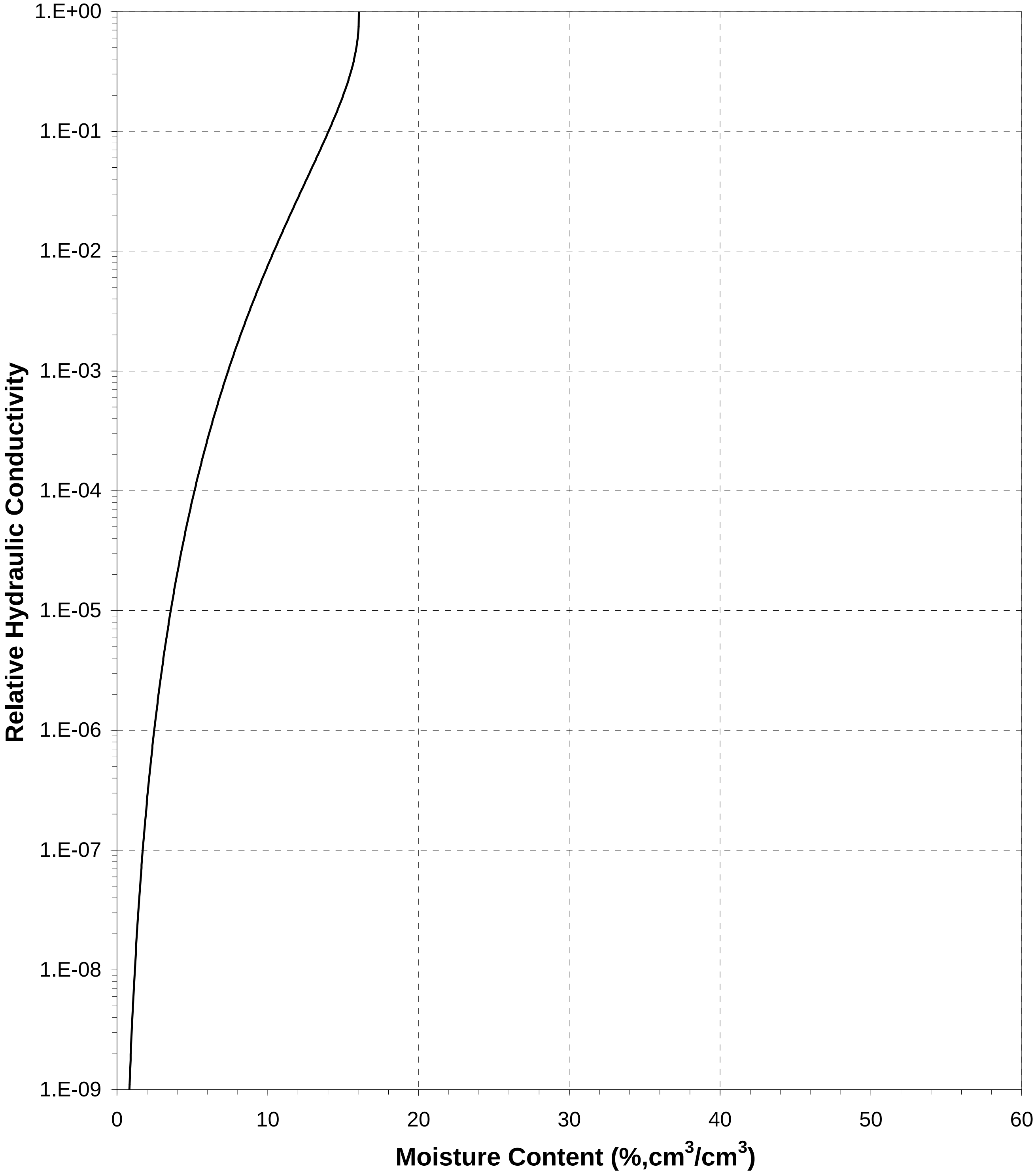
Predicted Water Retention Curve and Data Points

Sample Number: B009RC58.5-59.5



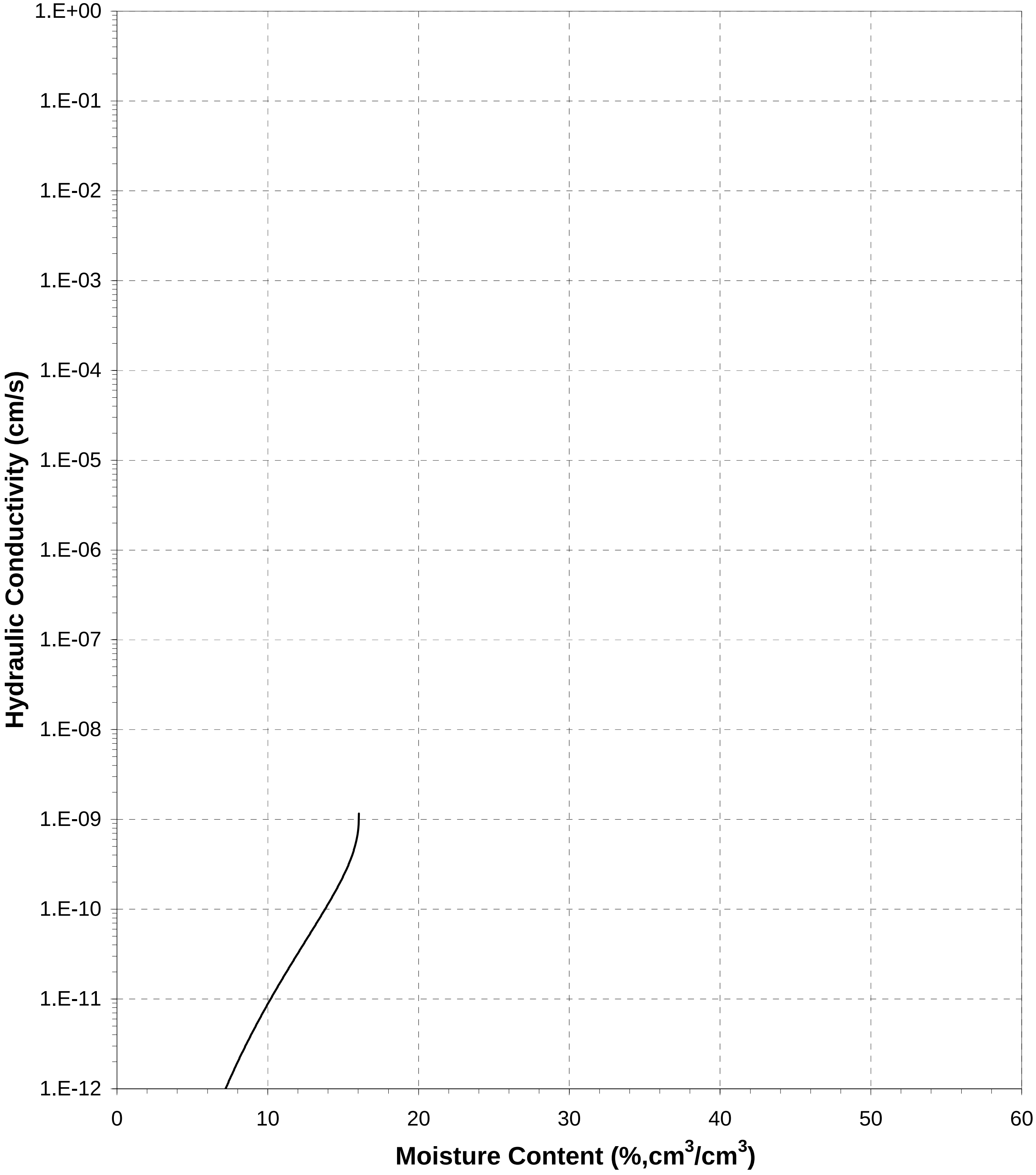
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B009RC58.5-59.5



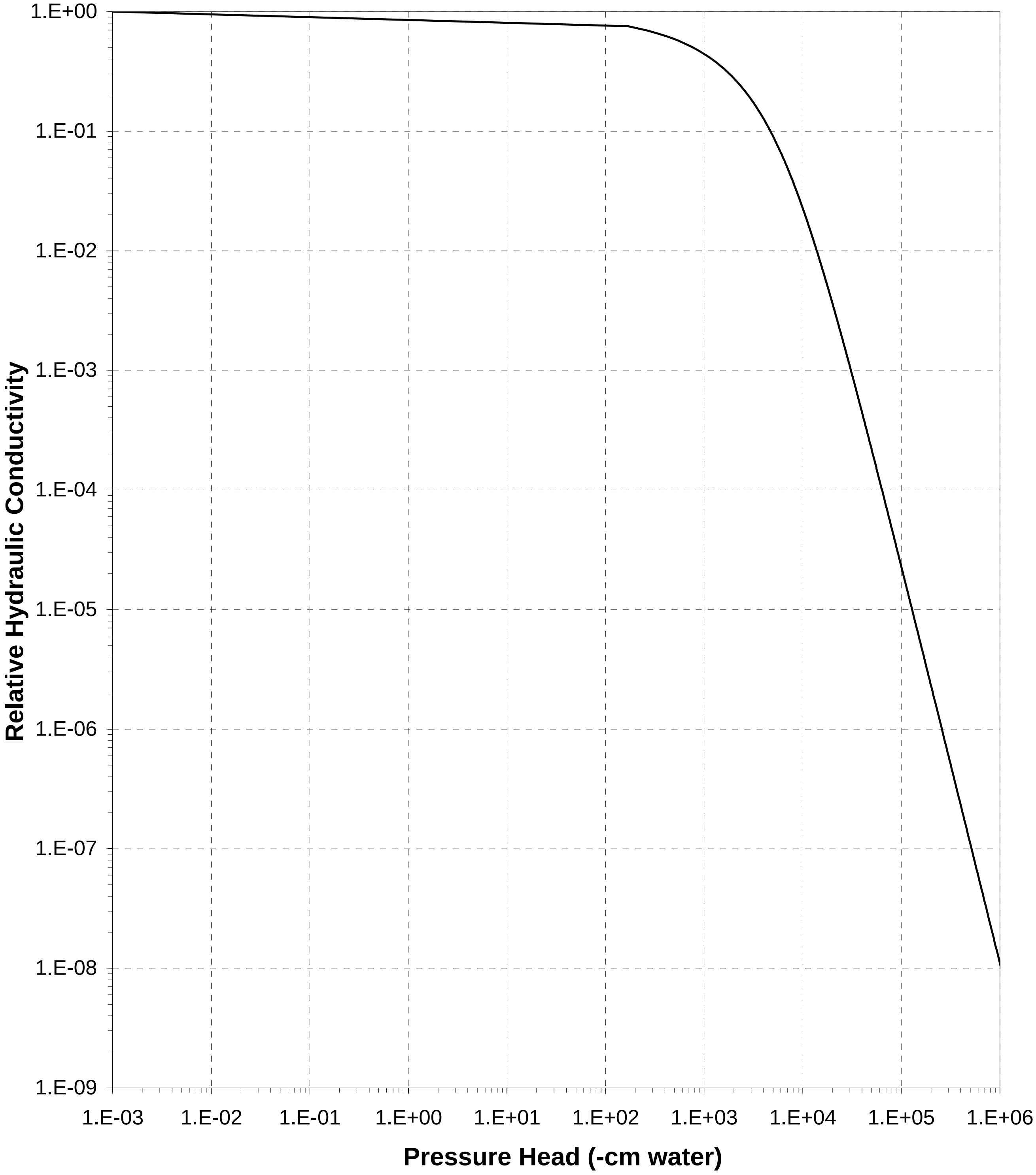
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B009RC58.5-59.5



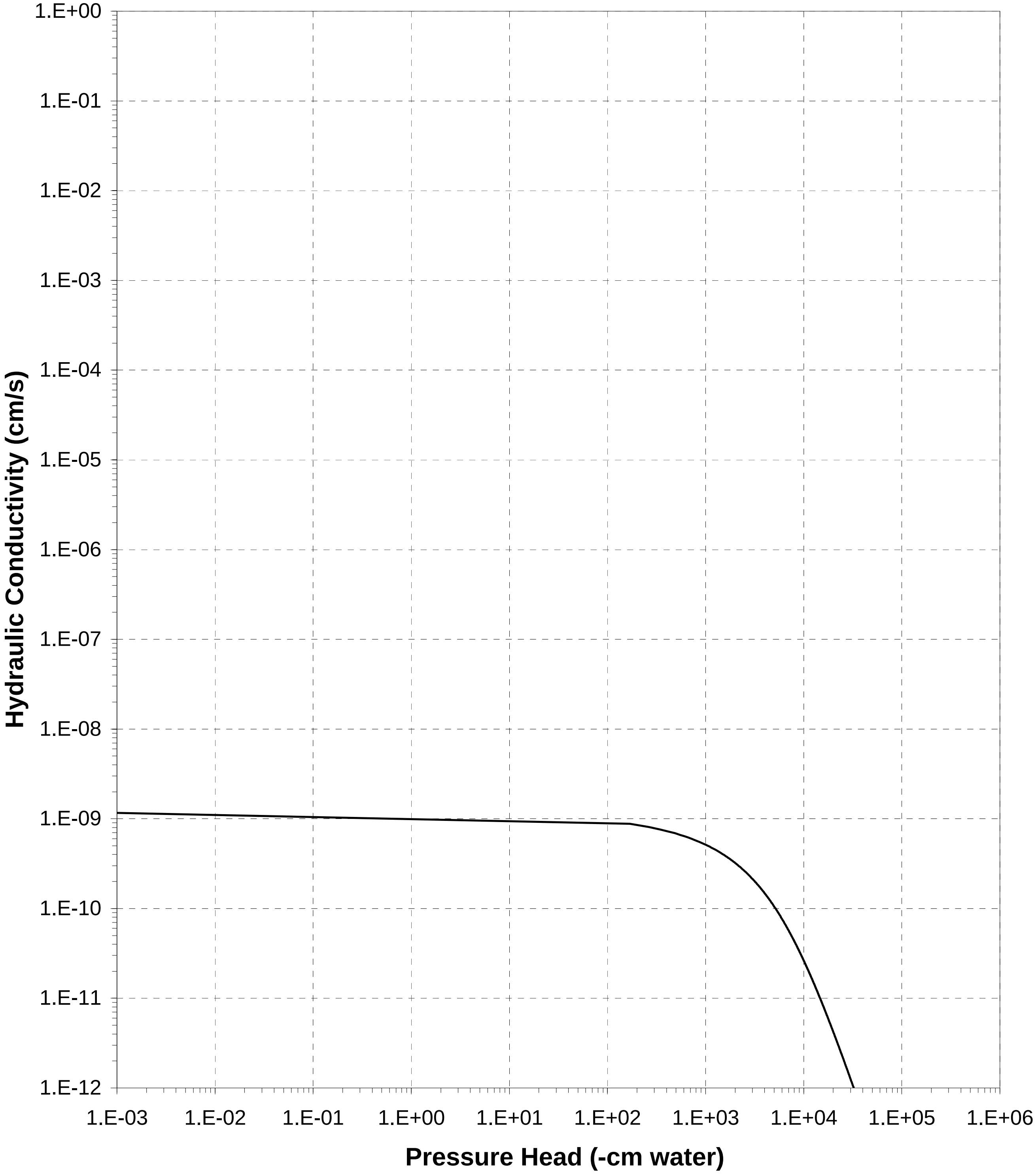
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B009RC58.5-59.5



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B009RC58.5-59.5



Moisture Retention Data
Hanging Column / Pressure Plate
(Soil-Water Characteristic Curve)

Job Name:	Fluor-B&W Portsmouth LLC	*Dry wt. of sample* (g):	294.49
Job Number:	LB11.0188.00	*Tare wt., ring* (g):	0.00
Sample Number:	B009RC96.5-97.5	*Tare wt., screen & clamp* (g):	0.00
Date Sampled:	8/26/11	*Initial sample volume* (cm^3):	121.64
Depth:	96.5-97.5	*Initial dry bulk density* (g/cm^3):	2.42
		Measured particle density (g/cm^3):	2.73
		Initial calculated total porosity (%):	11.22

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content† (% vol)
Hanging column:	11-Oct-11	12:00	308.67	0	11.66
	18-Oct-11	9:10	308.26	70.0	11.32
	25-Oct-11	13:33	308.11	173.0	11.20
Pressure plate:	7-Nov-11	7:45	308.09	337	11.18
	19-Nov-11	12:15	308.04	1275	11.14

Volume Adjusted Data [1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	70.0	---	---	---	---
	173.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

† Assumed density of water is 1.0 g/cm^3

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: B009RC96.5-97.5

Initial sample bulk density (g/cm^3): 2.42
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of relative humidity box sample* (g): 71.22
Tare weight (g): 38.03

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content[†] (% vol)
Relative humidity box:	21-Sep-11	10:00	71.63	857025	2.95

Volume Adjusted Data[1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

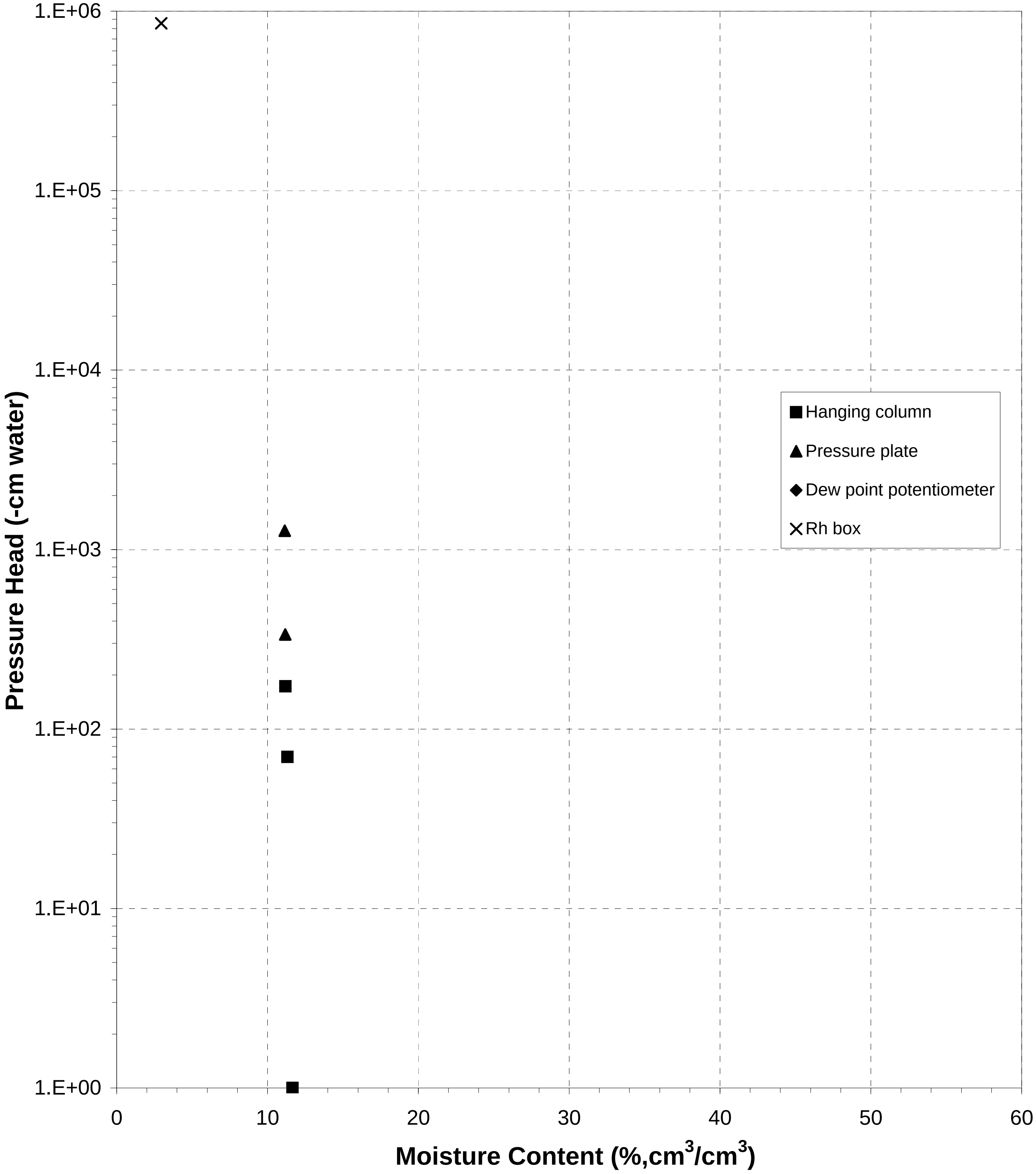
[†] Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

[‡‡] Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

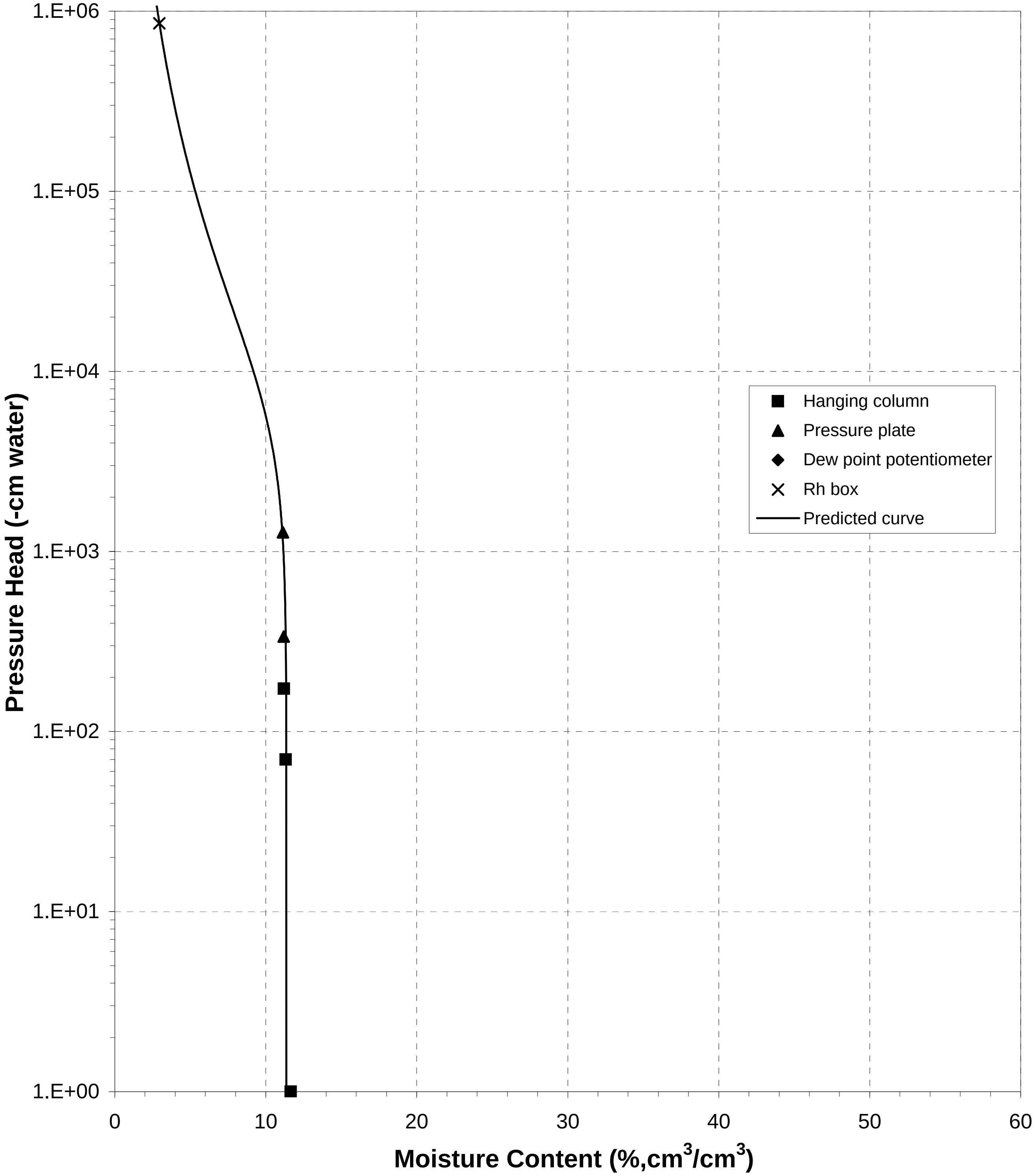
Water Retention Data Points

Sample Number: B009RC96.5-97.5



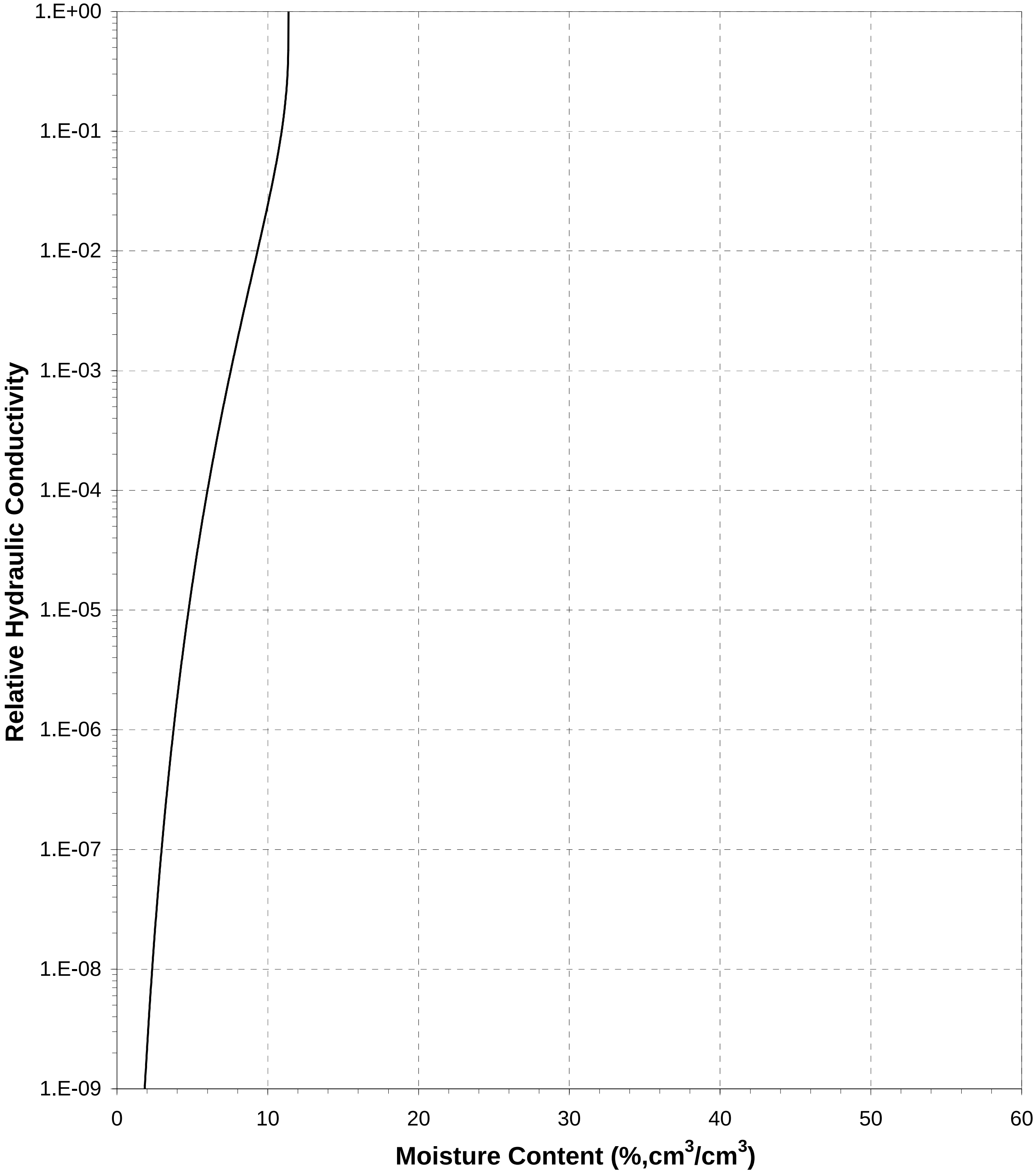
Predicted Water Retention Curve and Data Points

Sample Number: B009RC96.5-97.5



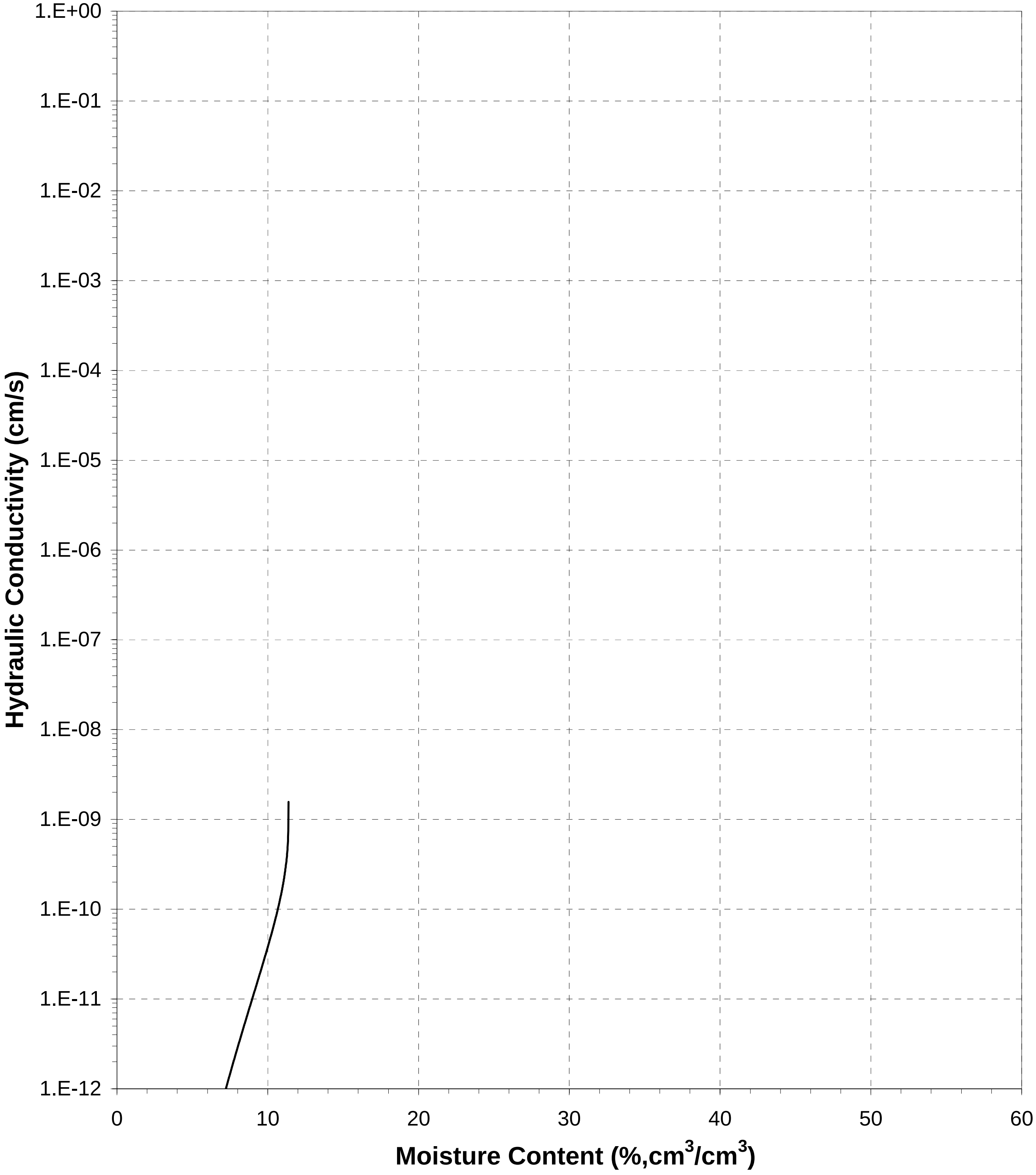
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B009RC96.5-97.5



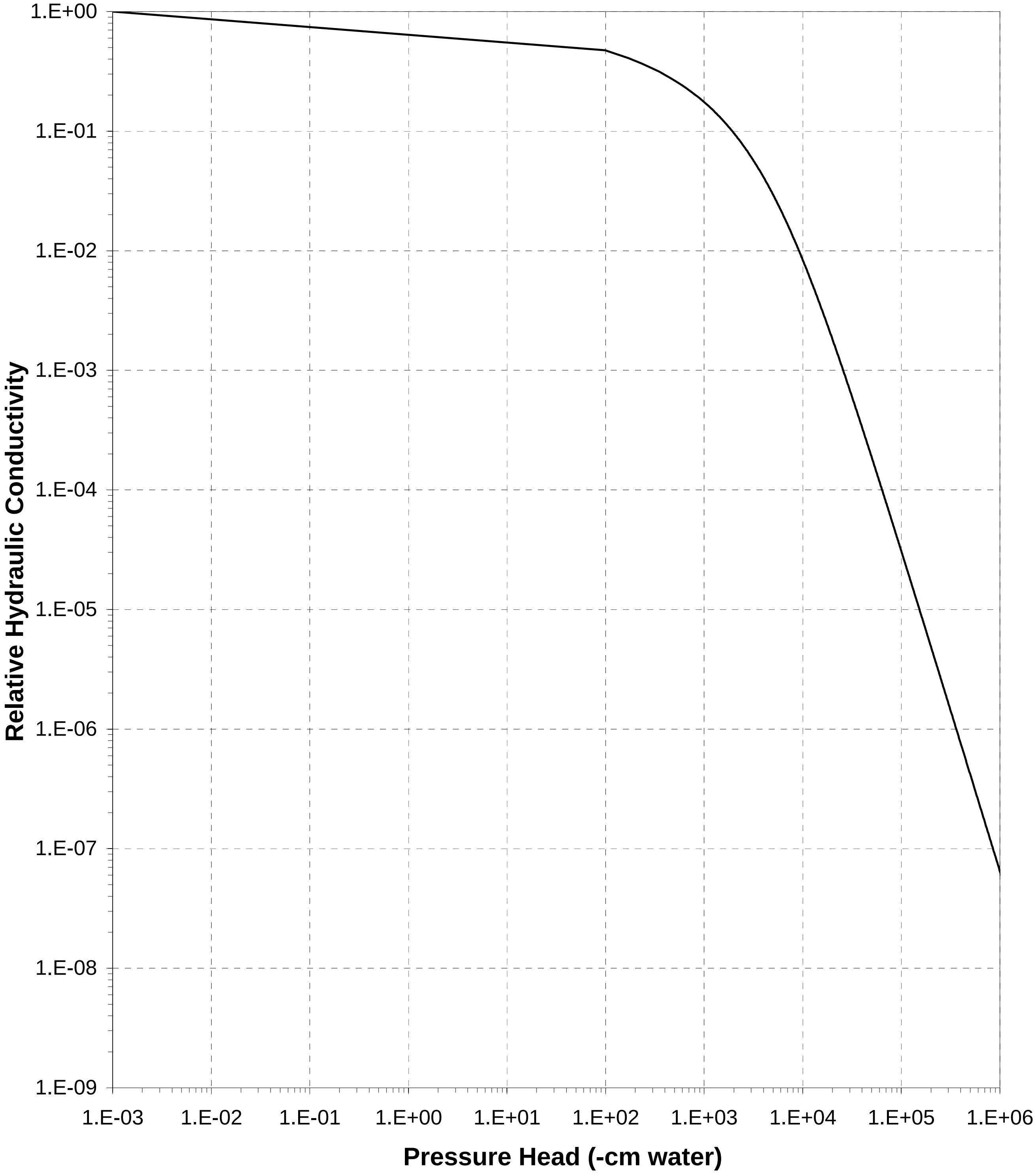
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B009RC96.5-97.5



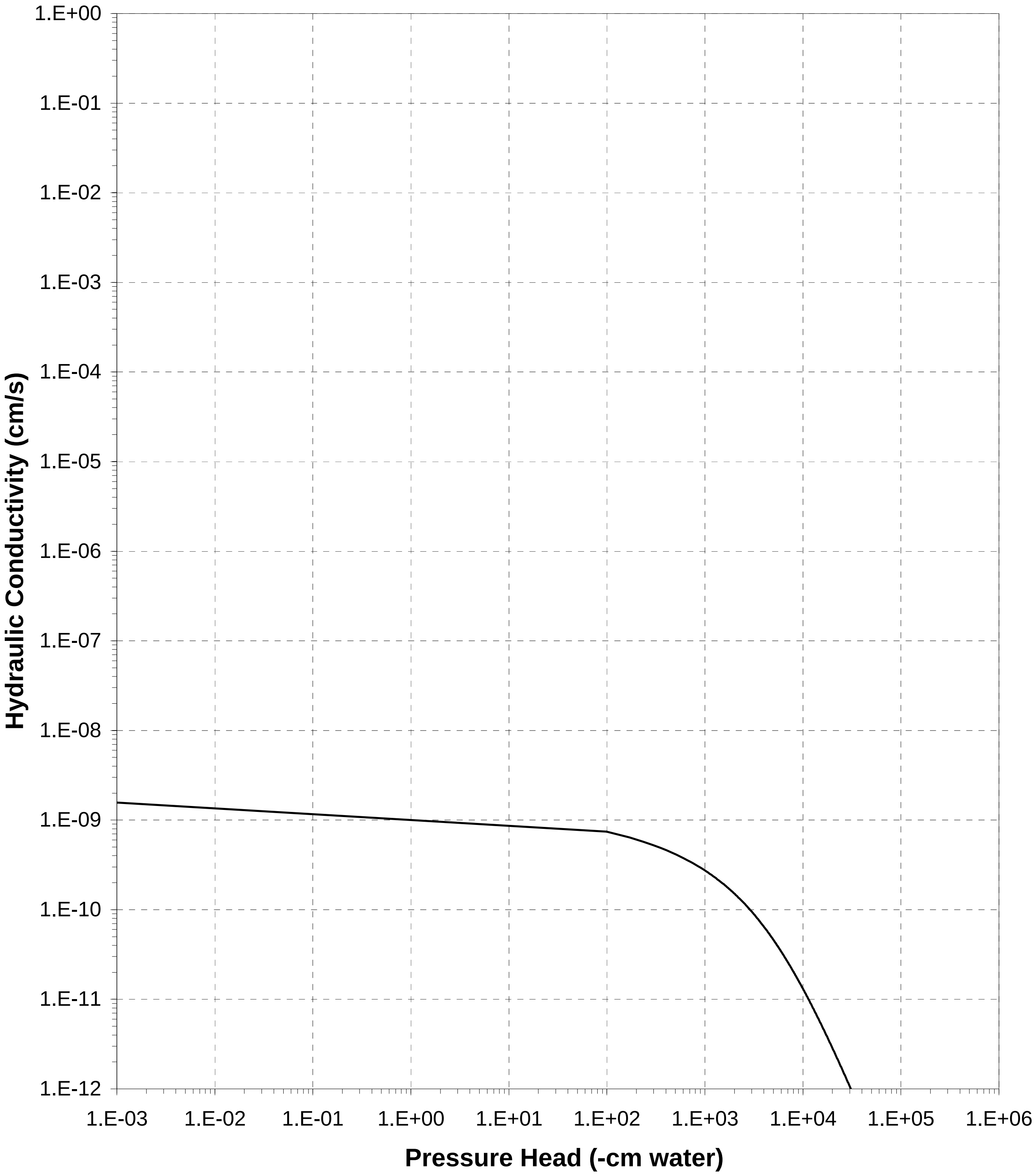
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B009RC96.5-97.5



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B009RC96.5-97.5



Moisture Retention Data

Hanging Column / Pressure Plate

(Soil-Water Characteristic Curve)

Job Name:	Fluor-B&W Portsmouth LLC	*Dry wt. of sample* (g):	250.24
Job Number:	LB11.0188.00	*Tare wt., ring* (g):	132.61
Sample Number:	B029RC19.0-20.0	*Tare wt., screen & clamp* (g):	0.00
Date Sampled:	8/29/11	*Initial sample volume* (cm^3):	111.78
Depth:	19.0-20.0	*Initial dry bulk density* (g/cm^3):	2.24
		Measured particle density (g/cm^3):	2.96
		Initial calculated total porosity (%):	24.26

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content† (% vol)
Hanging column:	15-Sep-11	13:05	408.23	0	22.70
	3-Oct-11	15:00	408.20	66.0	22.68
	10-Oct-11	10:20	408.15	161.0	22.63
Pressure plate:	24-Oct-11	14:30	408.13	337	22.62
	7-Nov-11	7:25	407.41	1275	21.97

Volume Adjusted Data [1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	66.0	---	---	---	---
	161.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

† Assumed density of water is 1.0 g/cm^3

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Krous
Checked by: J. Hines

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: B029RC19.0-20.0

Initial sample bulk density (g/cm^3)*:* 2.24
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of dew point potentiometer sample* (g)*:* 161.44
Tare weight, jar (g)*:* 113.10

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content† (% vol)
Dew point potentiometer:	7-Oct-11	13:04	163.32	18968	8.71
	7-Oct-11	12:05	163.01	27739	7.27
	7-Oct-11	10:31	162.73	40486	5.97
	6-Oct-11	15:45	162.36	66083	4.26
	6-Oct-11	15:15	162.06	140936	2.87
	14-Sep-11	13:20	161.86	820837	1.94

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Dew point potentiometer:	18968	---	---	---	---
	27739	---	---	---	---
	40486	---	---	---	---
	66083	---	---	---	---
	140936	---	---	---	---
	820837	---	---	---	---

Dry weight of relative humidity box sample* (g)*:* 75.84
Tare weight (g)*:* 36.88

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content† (% vol)
Relative humidity box:	21-Sep-11	10:00	76.14	857025	1.73

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

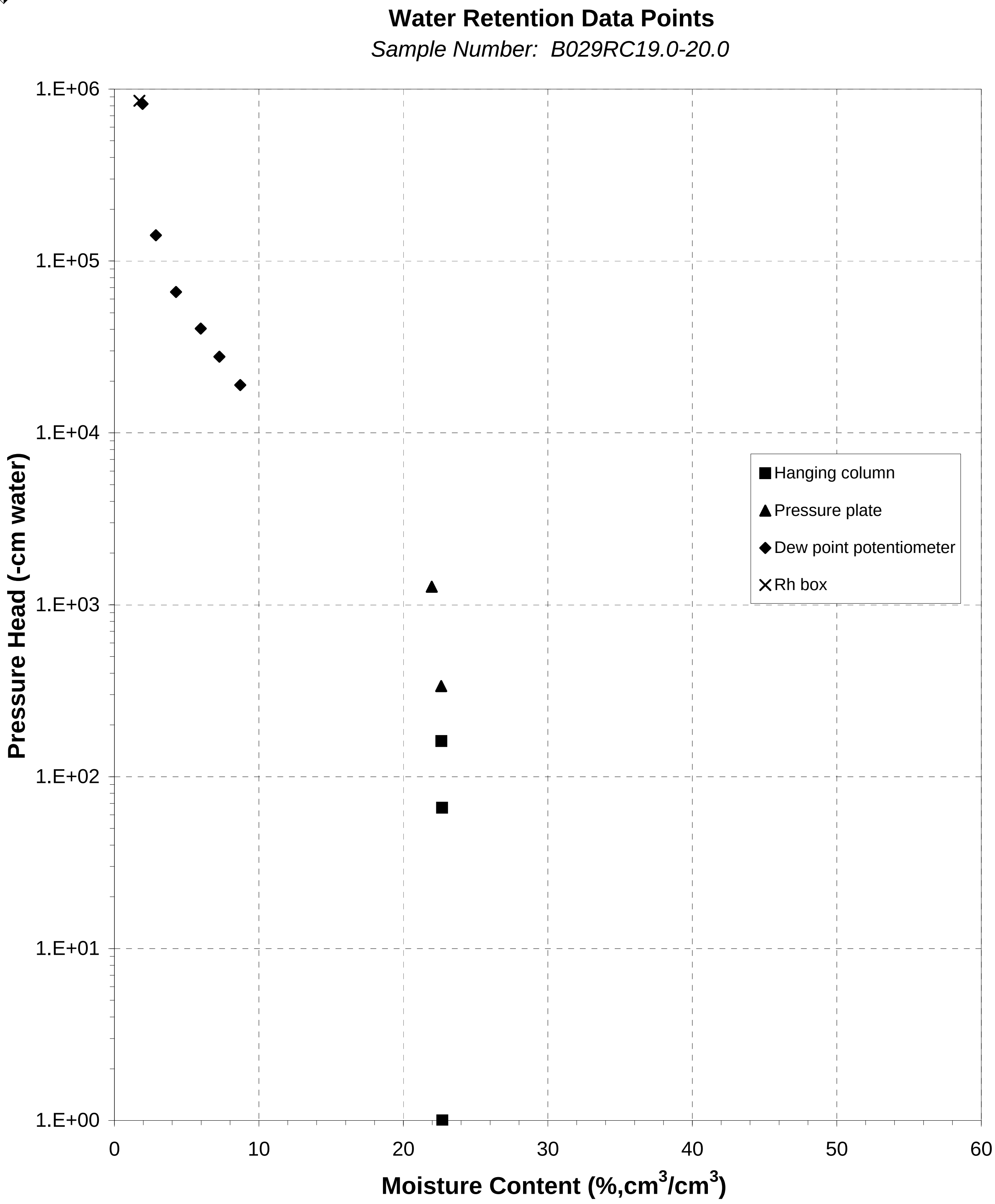
[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

† Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

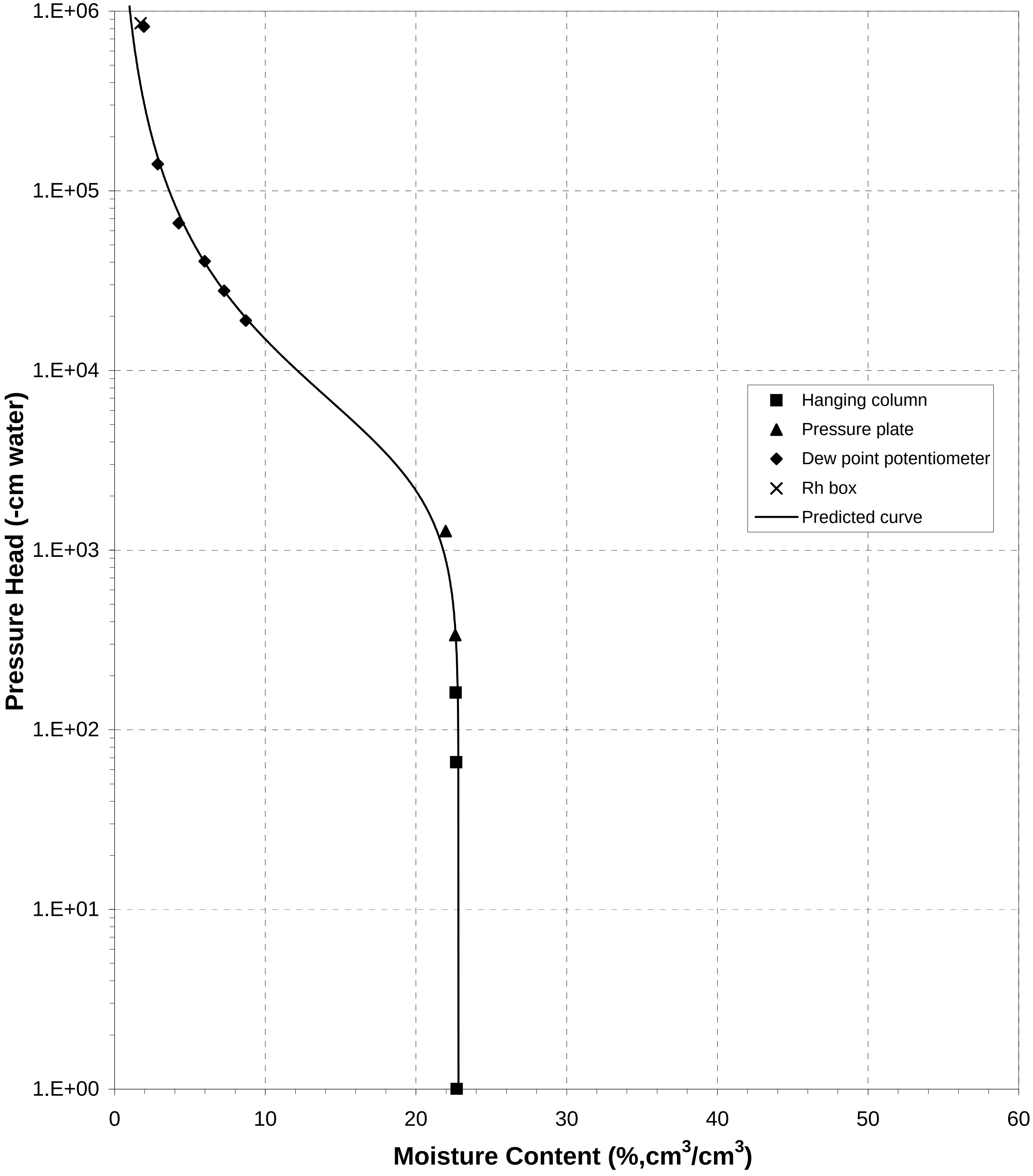
‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Krous
Checked by: J. Hines


Water Retention Data Points
Sample Number: B029RC19.0-20.0
Pressure Head (-cm water)
1.E+06
1.E+05
1.E+04
1.E+03
1.E+02
1.E+01
1.E+00
Moisture Content (%,cm³/cm³)
0
10
20
30
40
50
60
■ Hanging column
▲ Pressure plate
◆ Dew point potentiometer
× Rh box

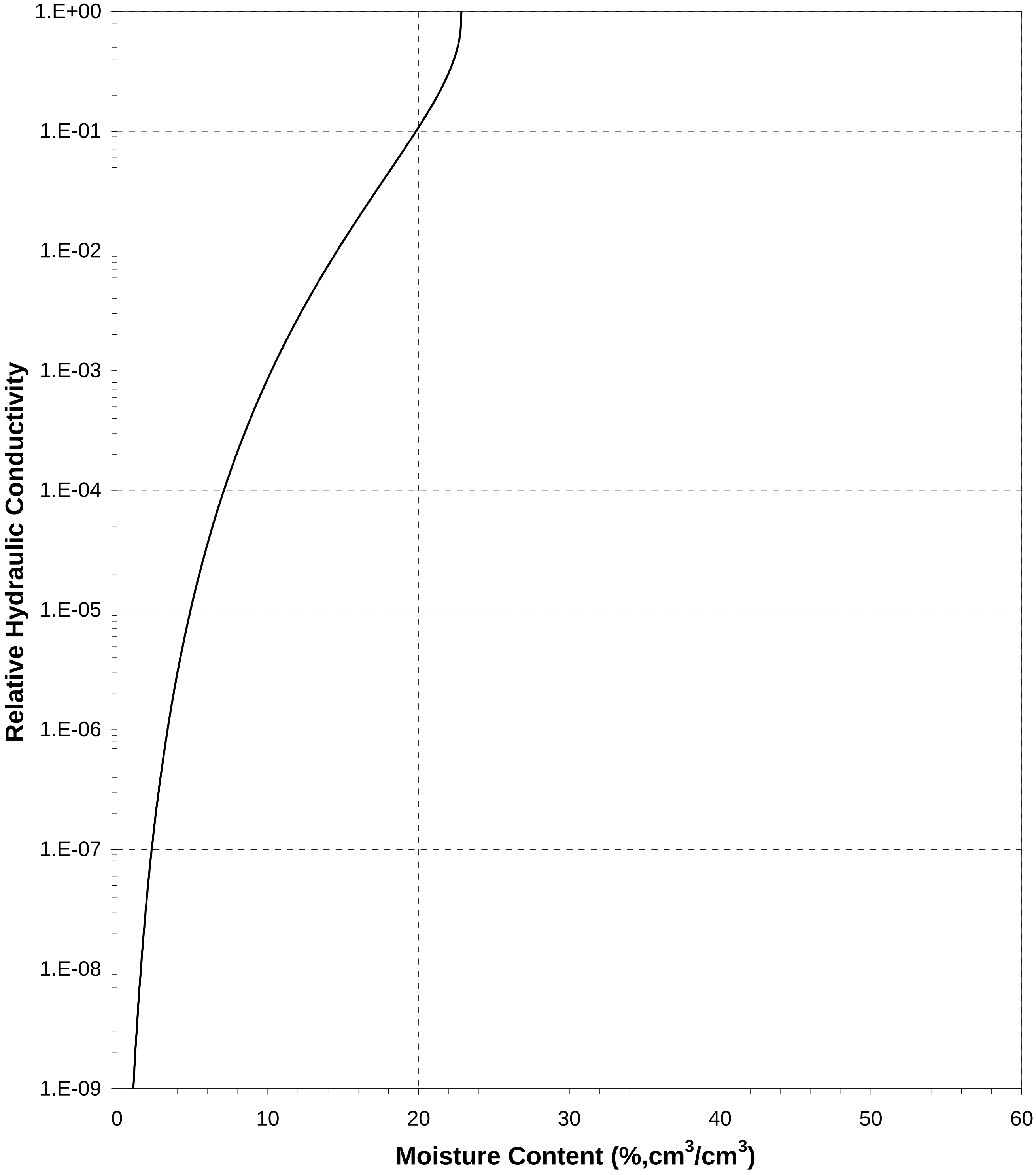
Predicted Water Retention Curve and Data Points

Sample Number: B029RC19.0-20.0



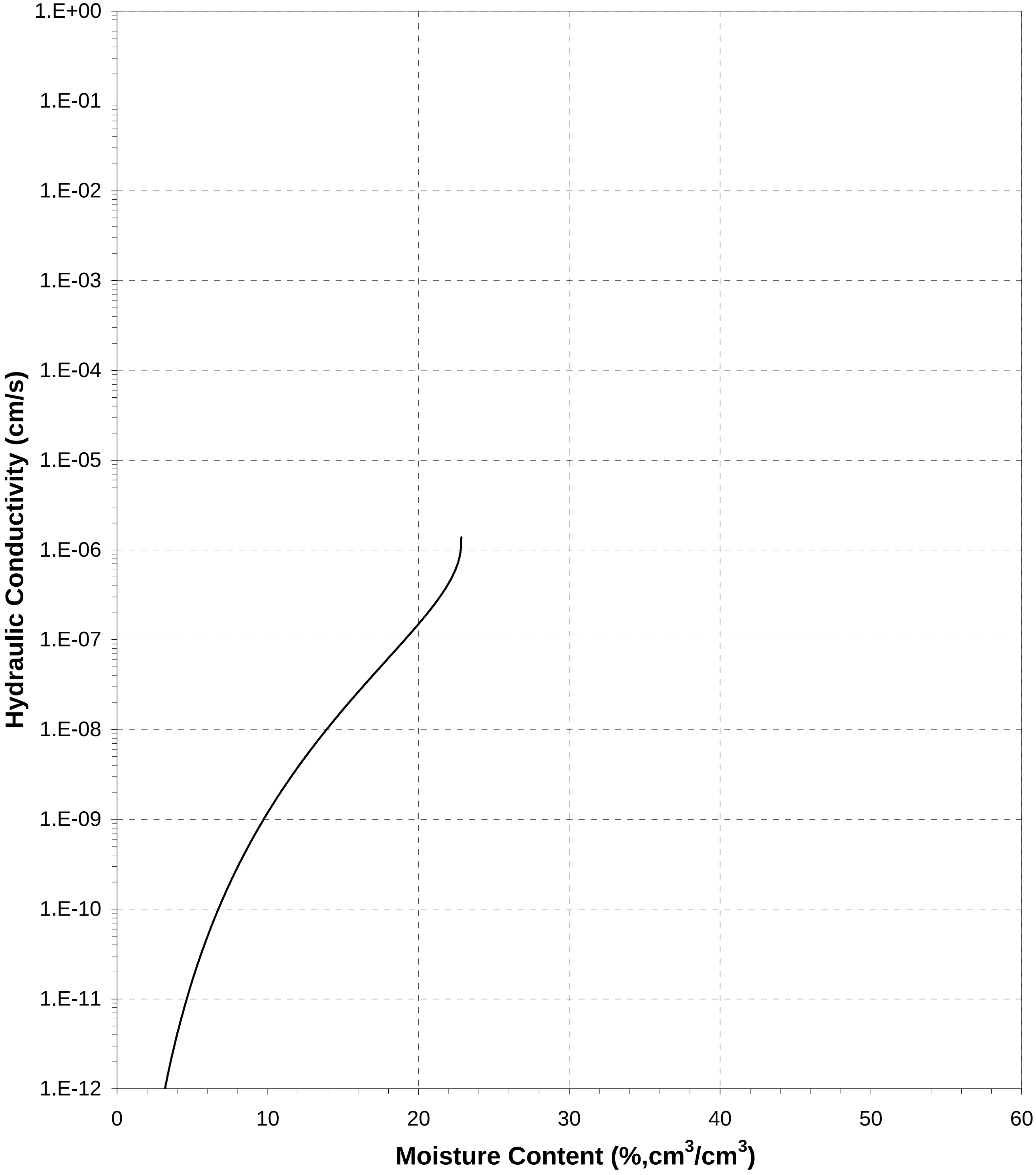
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B029RC19.0-20.0



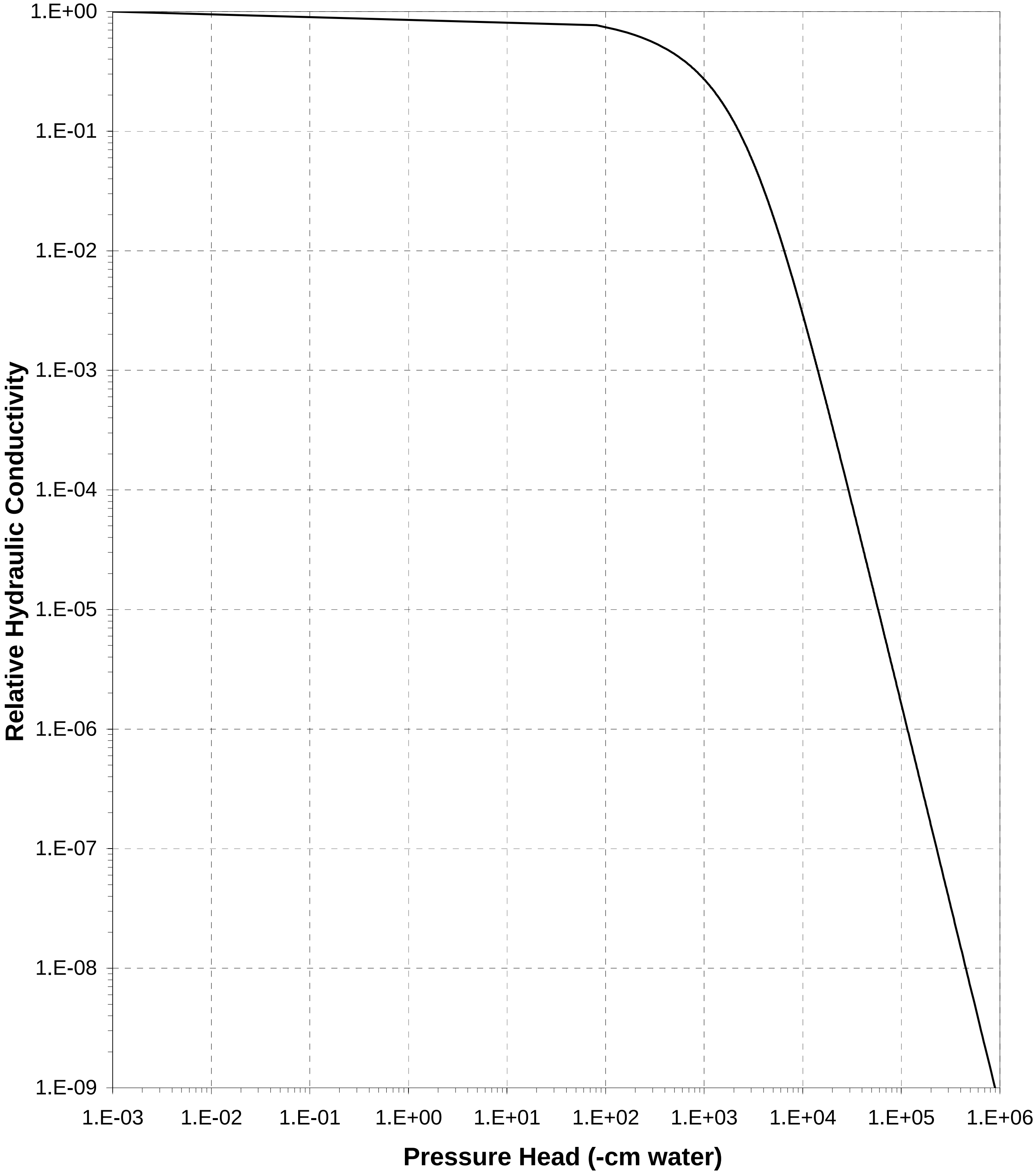
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B029RC19.0-20.0



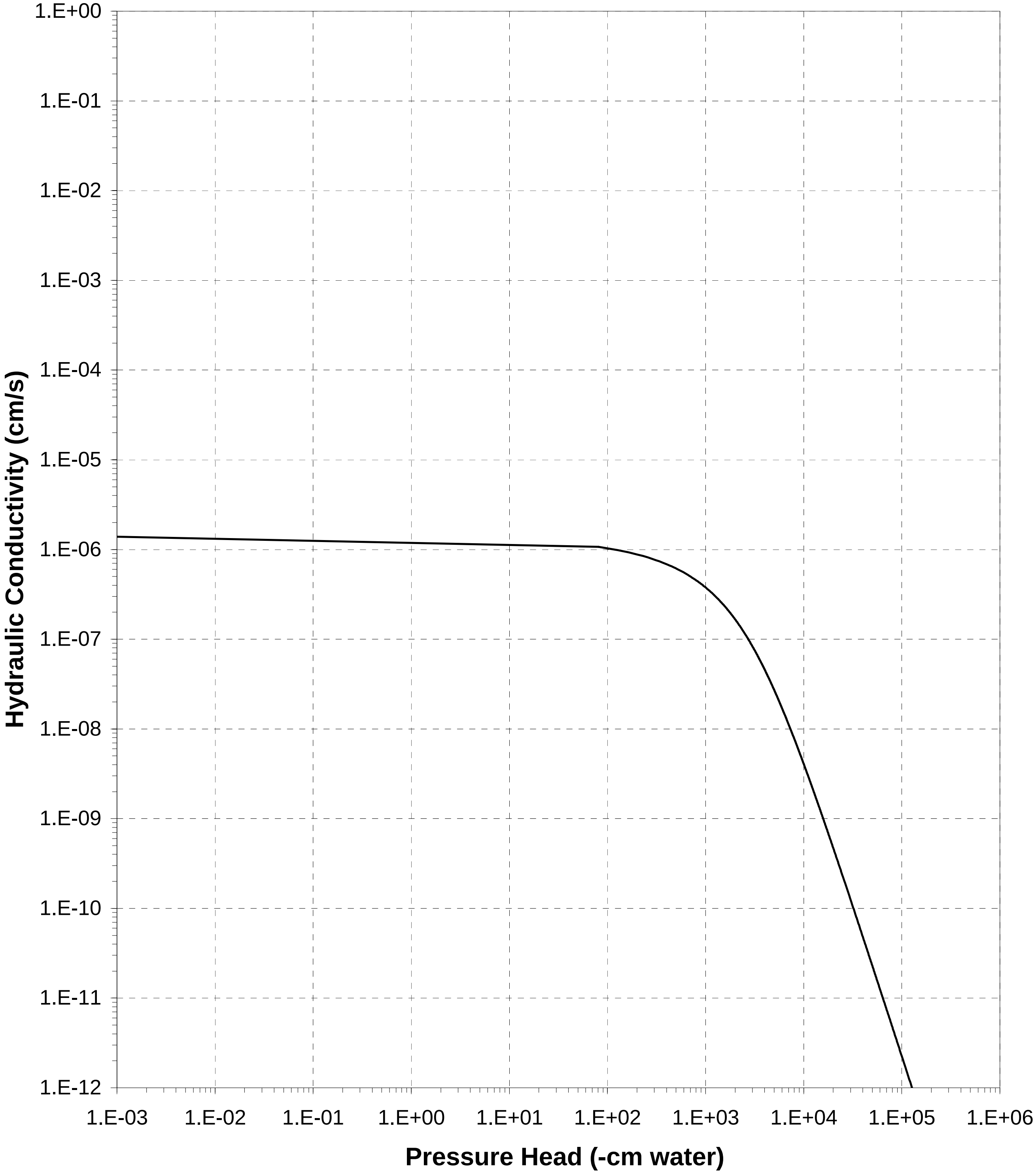
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B029RC19.0-20.0



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B029RC19.0-20.0



Moisture Retention Data
Hanging Column / Pressure Plate
(Soil-Water Characteristic Curve)

Job Name:	Fluor-B&W Portsmouth LLC	*Dry wt. of sample* (g):	271.05
Job Number:	LB11.0188.00	*Tare wt., ring* (g):	0.00
Sample Number:	B029RC23.0-24.0	*Tare wt., screen & clamp* (g):	0.00
Date Sampled:	8/29/11	*Initial sample volume* (cm^3):	119.18
Depth:	23.0-24.0	*Initial dry bulk density* (g/cm^3):	2.27
		Measured particle density (g/cm^3):	2.73
		Initial calculated total porosity (%):	16.55

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content† (% vol)
Hanging column:	10-Oct-11	13:20	291.26	0	16.96
	17-Oct-11	13:00	290.95	70.0	16.70
	24-Oct-11	13:30	290.70	171.0	16.49
Pressure plate:	7-Nov-11	7:30	290.67	337	16.46
	19-Nov-11	12:00	290.24	1275	16.10

Volume Adjusted Data [1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	70.0	---	---	---	---
	171.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

† Assumed density of water is 1.0 g/cm^3

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

Moisture Retention Data
Dew Point Potentiometer / Relative Humidity Box
(Soil-Water Characteristic Curve)

Sample Number: B029RC23.0-24.0

Initial sample bulk density (g/cm^3)*:* 2.27
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of dew point potentiometer sample* (g)*:* 159.12
Tare weight, jar (g)*:* 114.43

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content † (% vol)
Dew point potentiometer:	3-Oct-11	13:40	161.21	37631	10.64
	14-Sep-11	13:45	160.75	62718	8.30
	14-Sep-11	9:30	160.45	140936	6.77
	13-Sep-11	10:10	160.10	245364	4.99

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Dew point potentiometer:	37631	---	---	---	---
	62718	---	---	---	---
	140936	---	---	---	---
	245364	---	---	---	---

Dry weight of relative humidity box sample* (g)*:* 81.01
Tare weight (g)*:* 41.74

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content † (% vol)
Relative humidity box:	21-Sep-11	10:00	81.53	857025	2.99

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

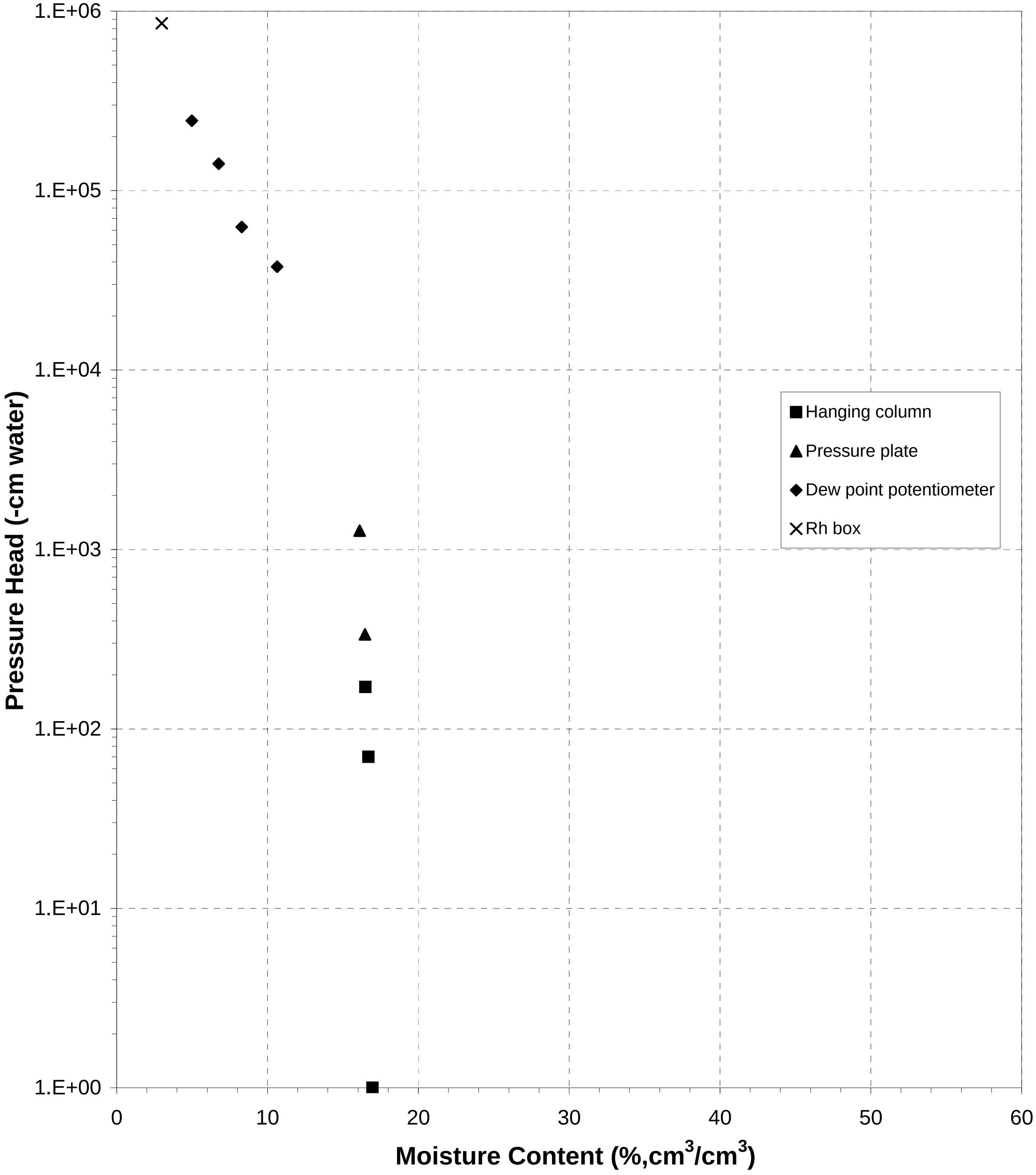
† Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

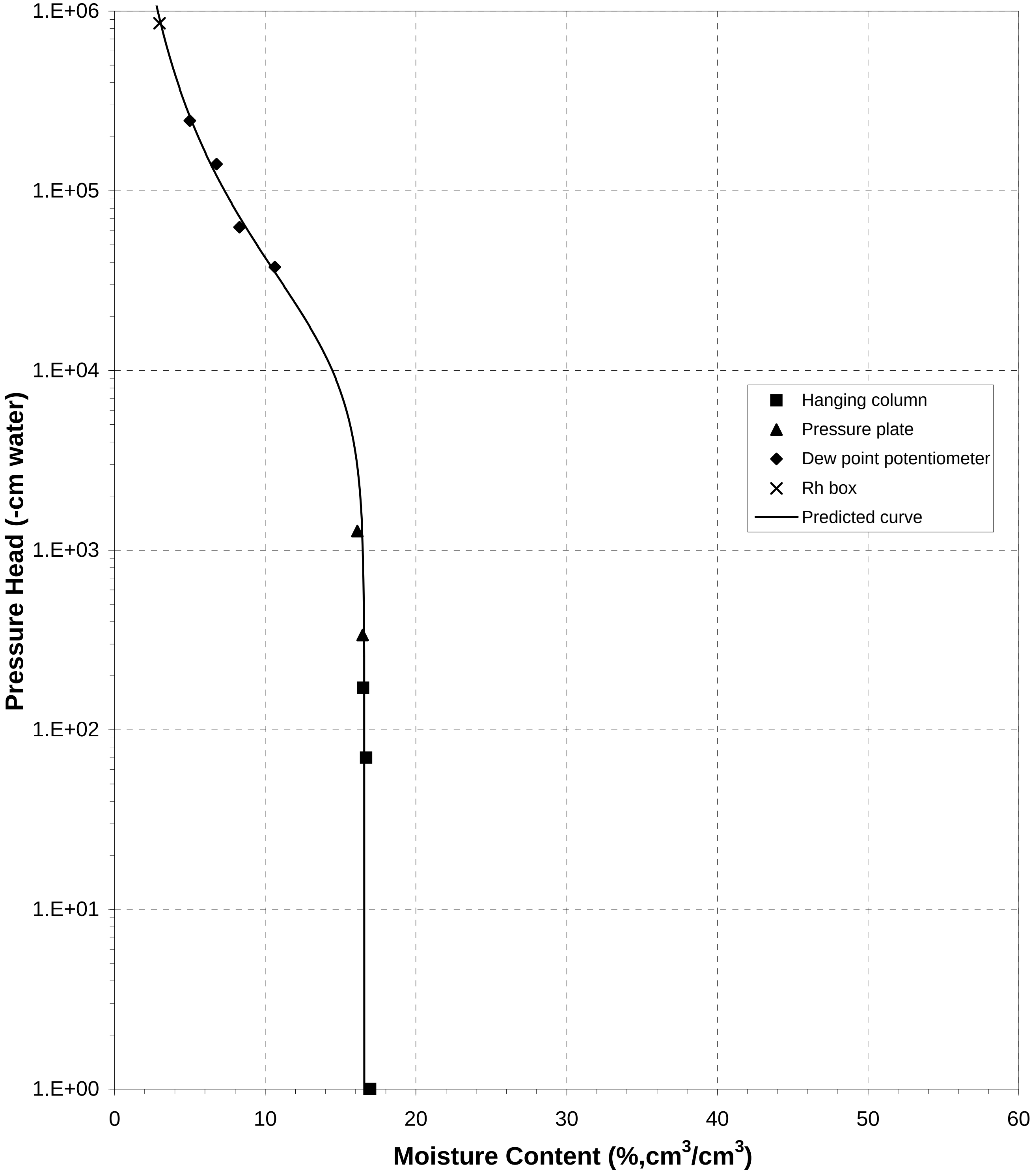
Water Retention Data Points

Sample Number: B029RC23.0-24.0



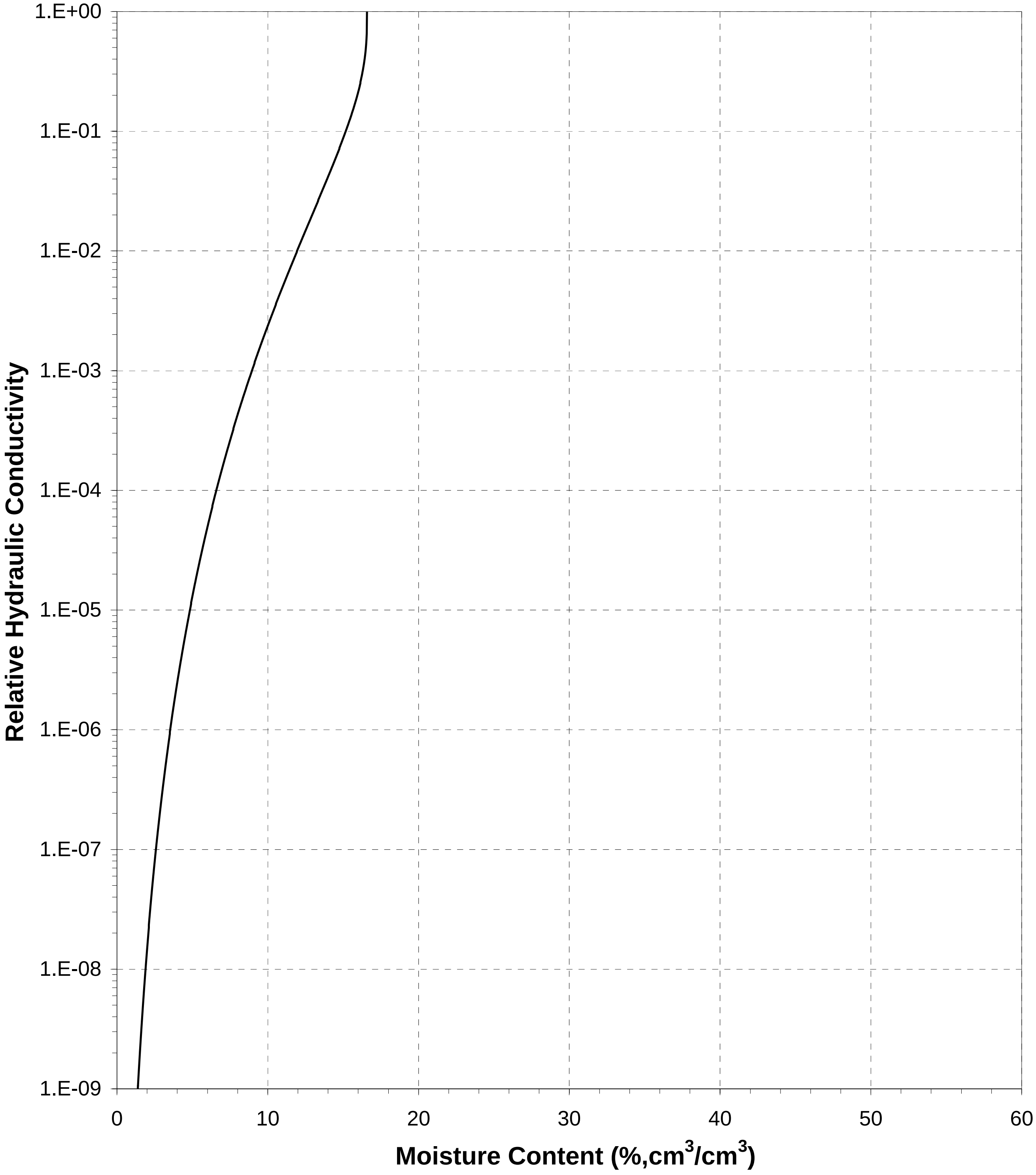
Predicted Water Retention Curve and Data Points

Sample Number: B029RC23.0-24.0



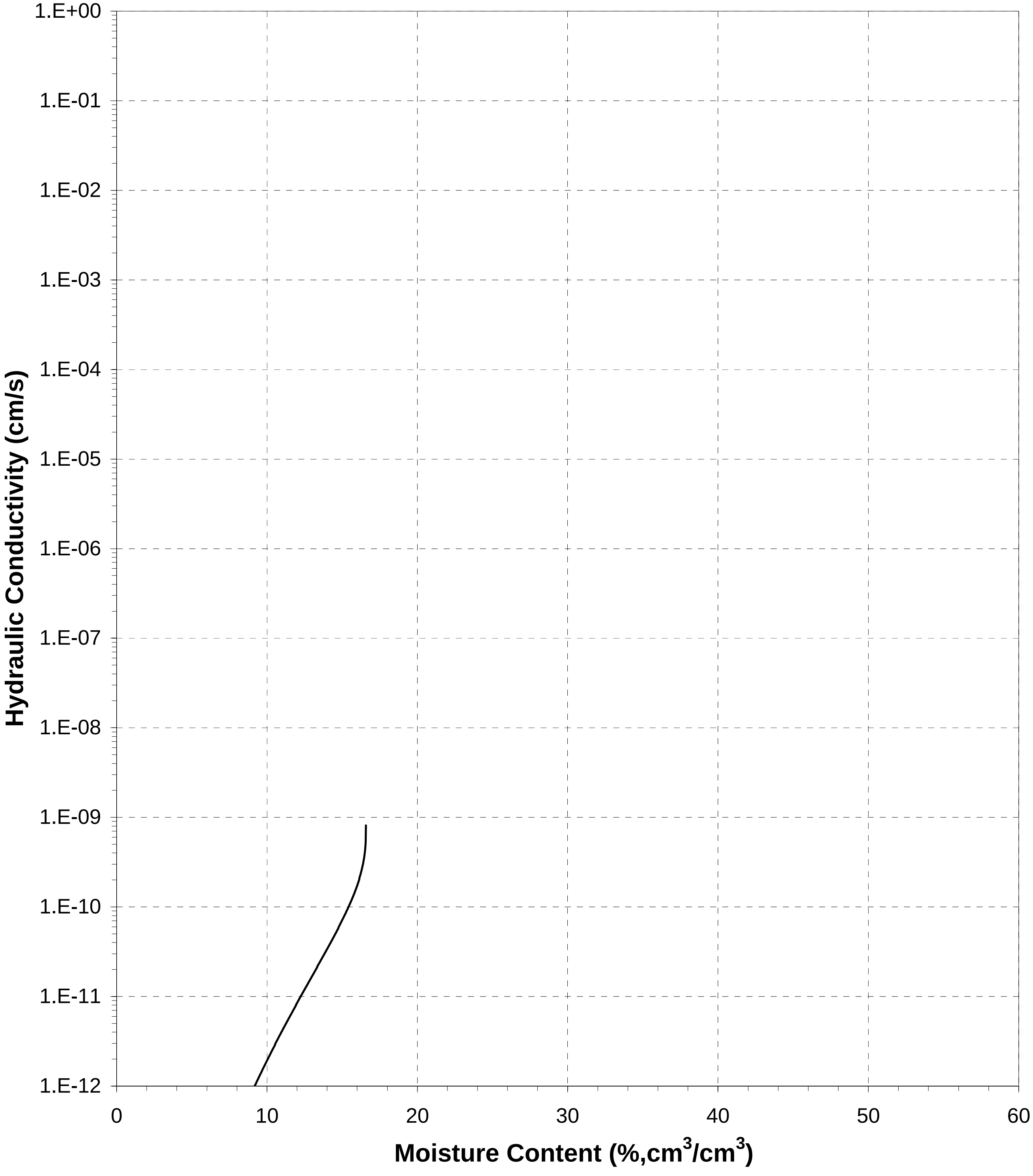
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B029RC23.0-24.0



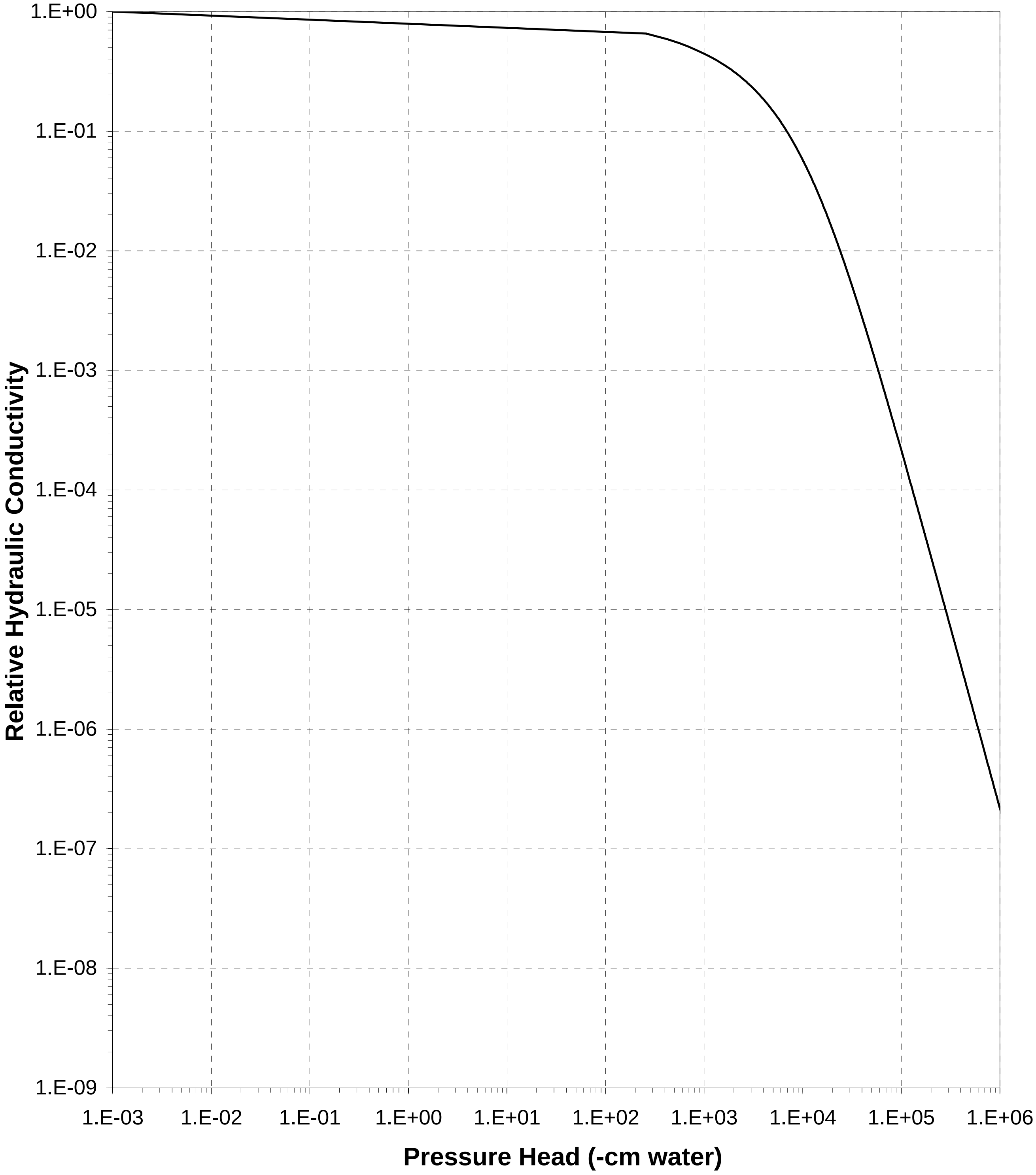
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B029RC23.0-24.0



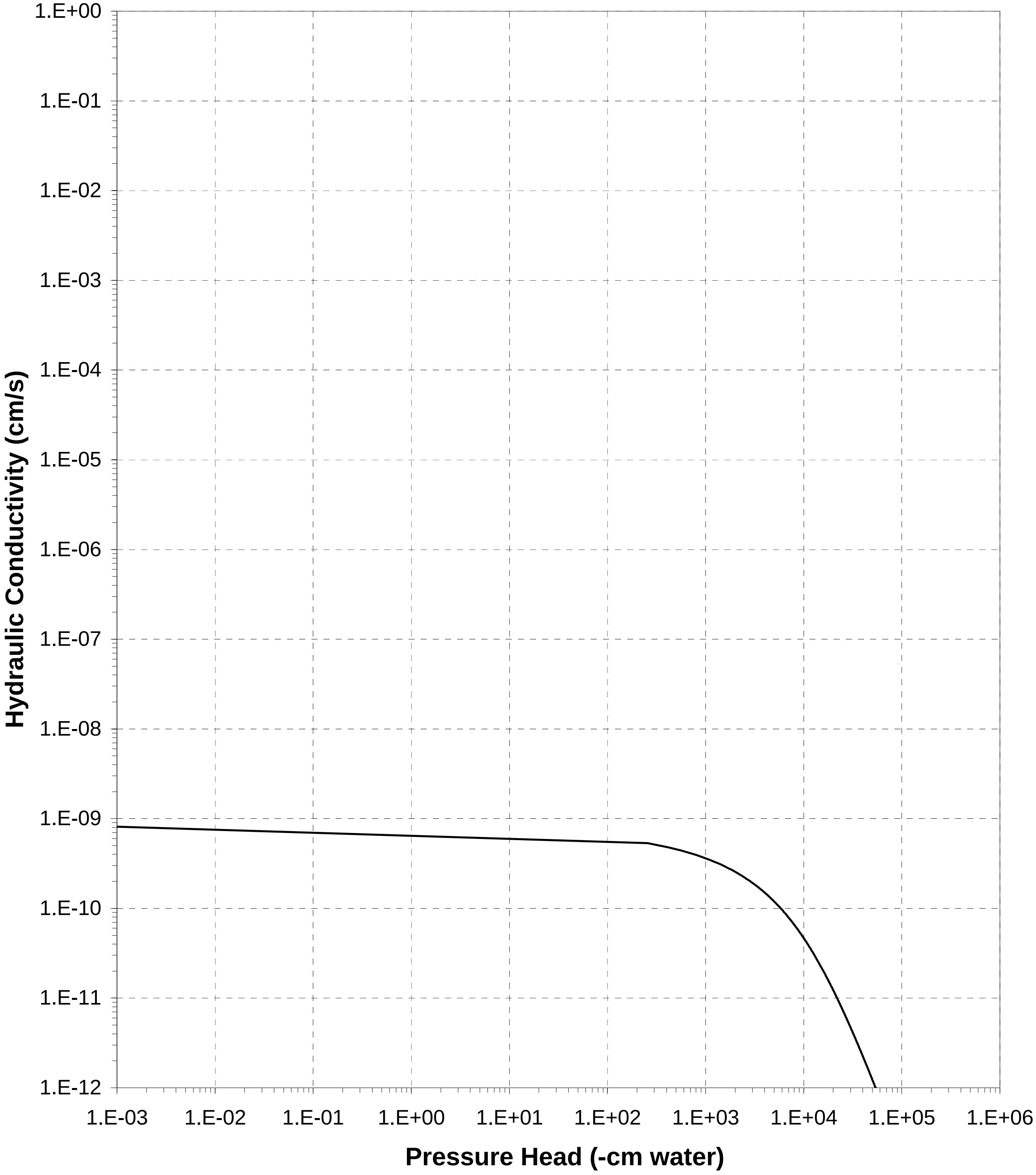
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B029RC23.0-24.0



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B029RC23.0-24.0



Moisture Retention Data
Hanging Column / Pressure Plate
(Soil-Water Characteristic Curve)

Job Name:	Fluor-B&W Portsmouth LLC	*Dry wt. of sample* (g)*:*	185.76
Job Number:	LB11.0188.00	*Tare wt., ring* (g)*:*	0.00
Sample Number:	B029RC62.7-64.0	*Tare wt., screen & clamp* (g)*:*	0.00
Date Sampled:	8/29/11	*Initial sample volume* (cm^3)*:*	85.14
Depth:	62.7-64.0	*Initial dry bulk density* (g/cm^3)*:*	2.18
		Measured particle density (g/cm^3)*:*	2.49
		Initial calculated total porosity (%)*:*	12.31

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content† (% vol)
Hanging column:	11-Oct-11	11:40	195.27	0	11.17
	18-Oct-11	8:55	194.70	72.0	10.50
	25-Oct-11	13:30	194.53	171.0	10.30
Pressure plate:	7-Nov-11	7:45	194.50	337	10.27
	19-Nov-11	12:10	194.47	1275	10.23

Volume Adjusted Data[1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	72.0	---	---	---	---
	171.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

† Assumed density of water is 1.0 g/cm^3

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: B029RC62.7-64.0

Initial sample bulk density (g/cm^3)*:* 2.18
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of relative humidity box sample* (g)*:* 89.13
Tare weight (g)*:* 44.41

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content † (% vol)
Relative humidity box:	21-Sep-11	10:00	90.20	857025	5.19

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

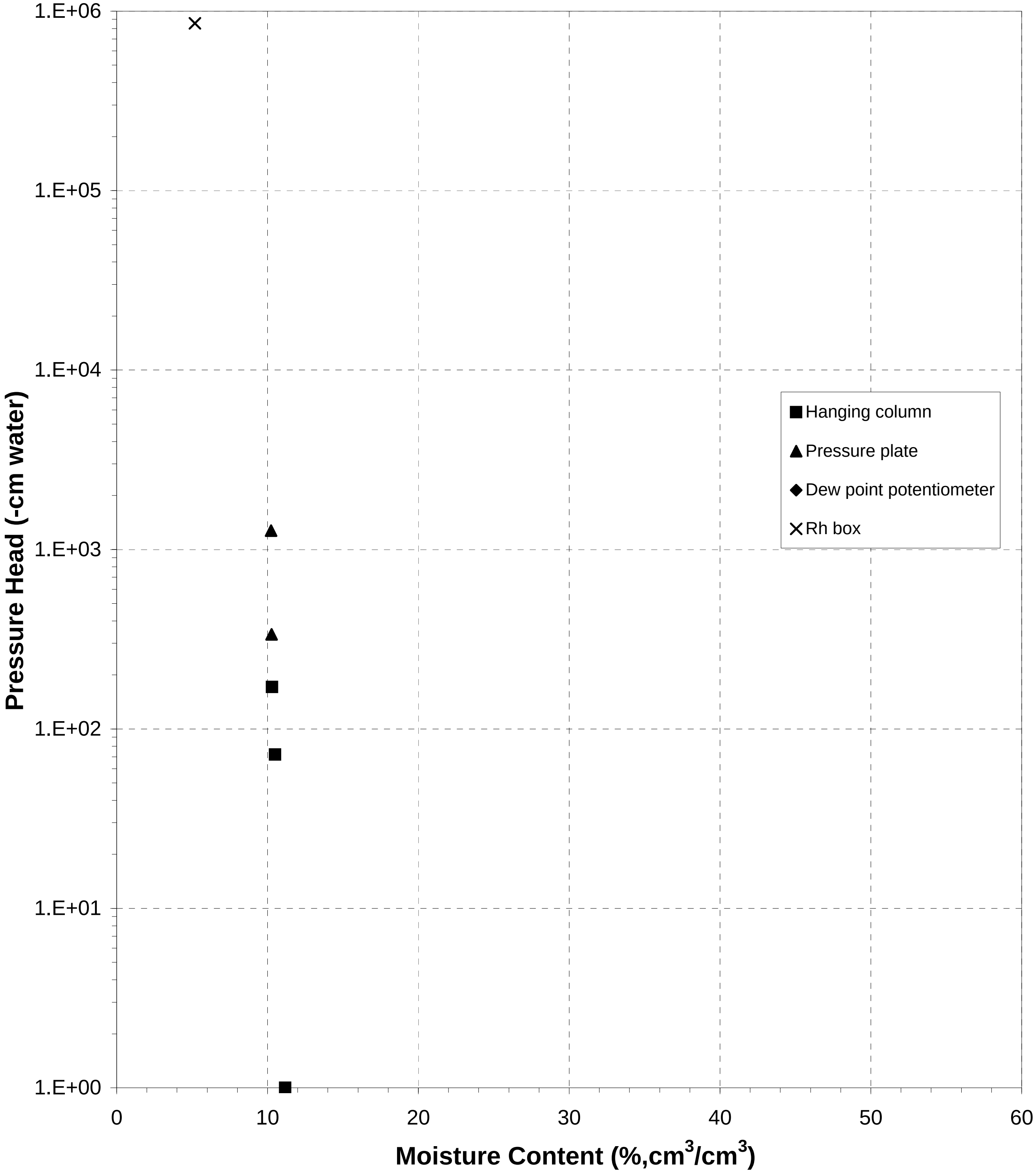
† Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

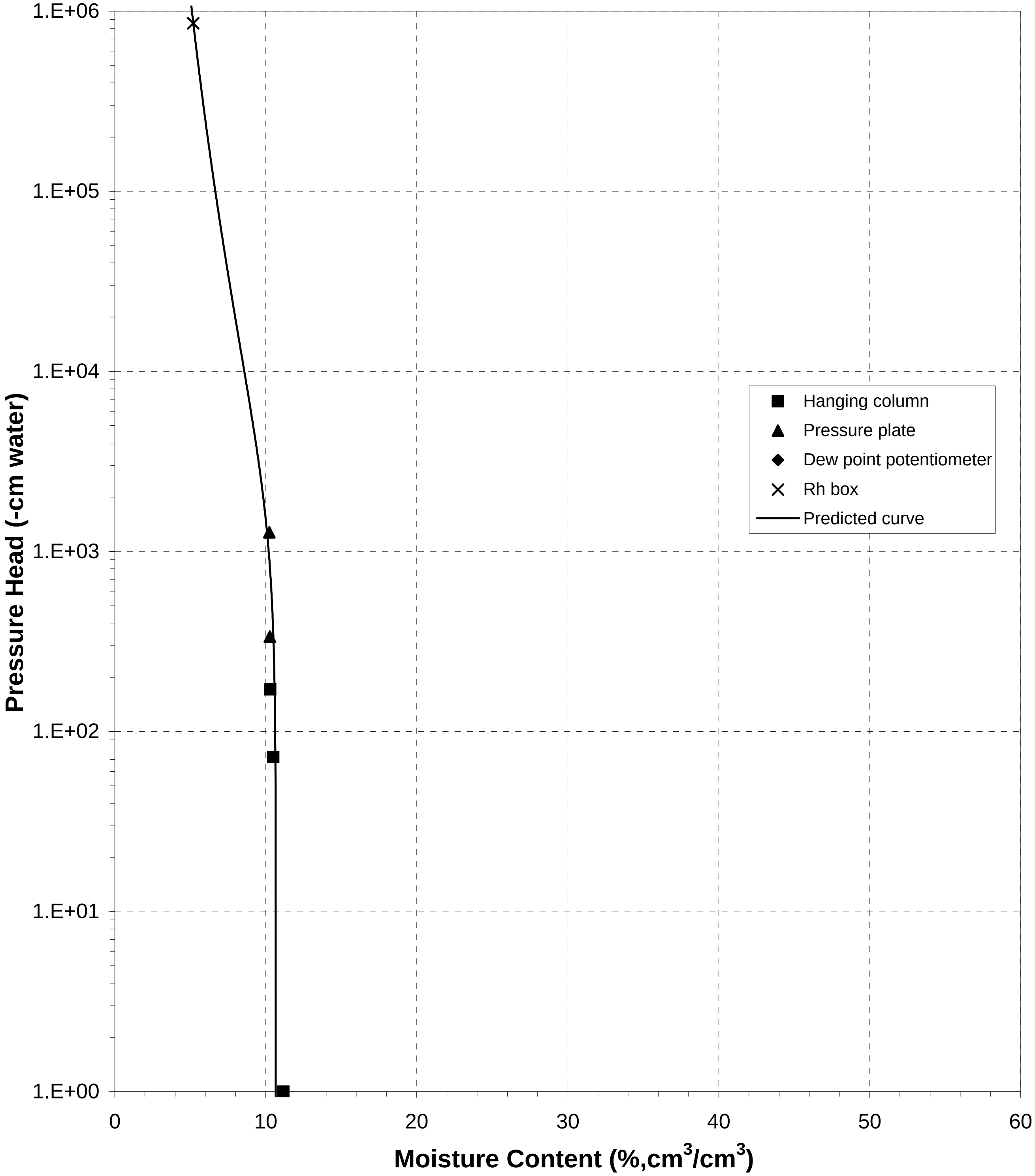
Water Retention Data Points

Sample Number: B029RC62.7-64.0



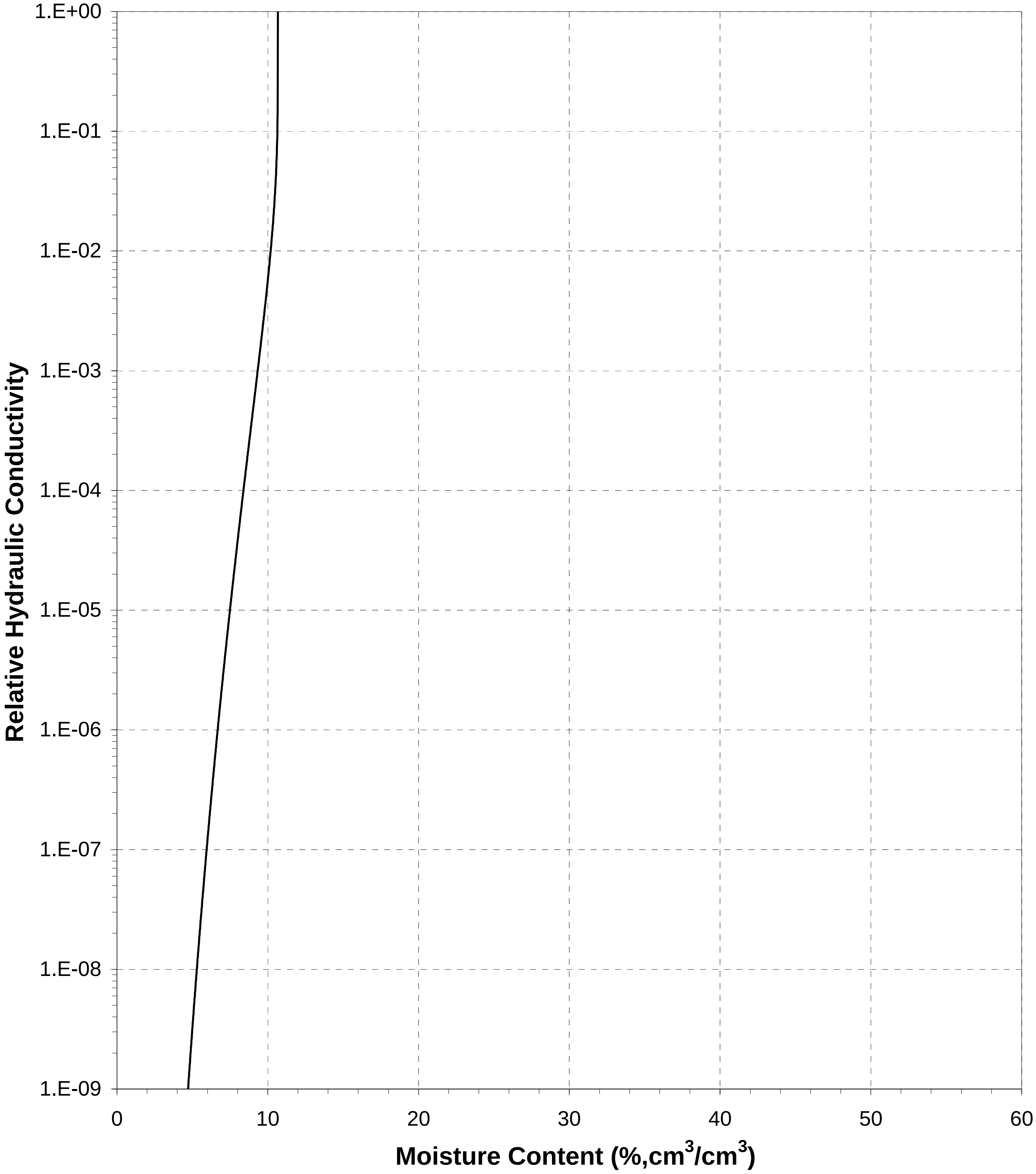
Predicted Water Retention Curve and Data Points

Sample Number: B029RC62.7-64.0



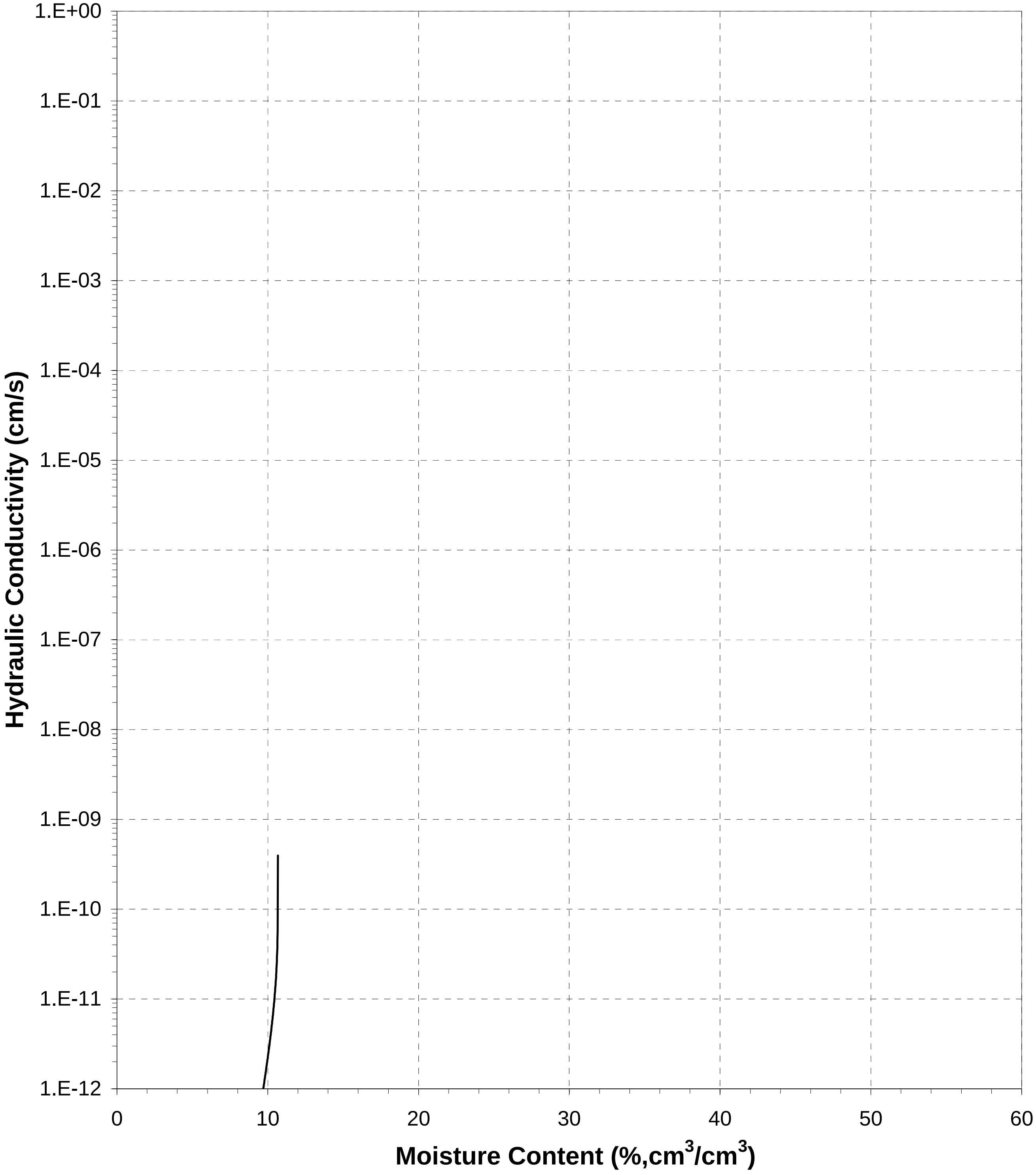
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B029RC62.7-64.0



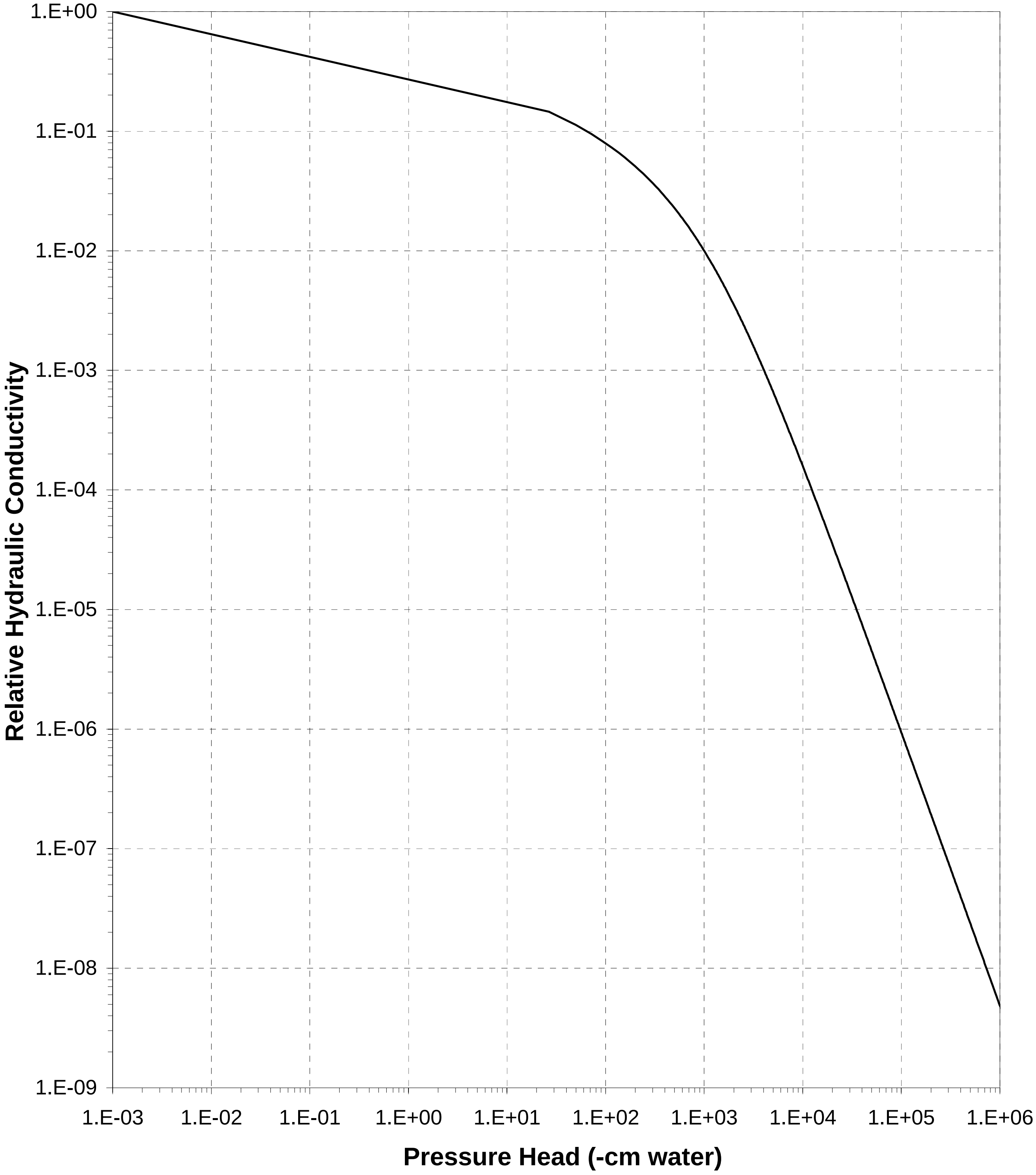
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B029RC62.7-64.0



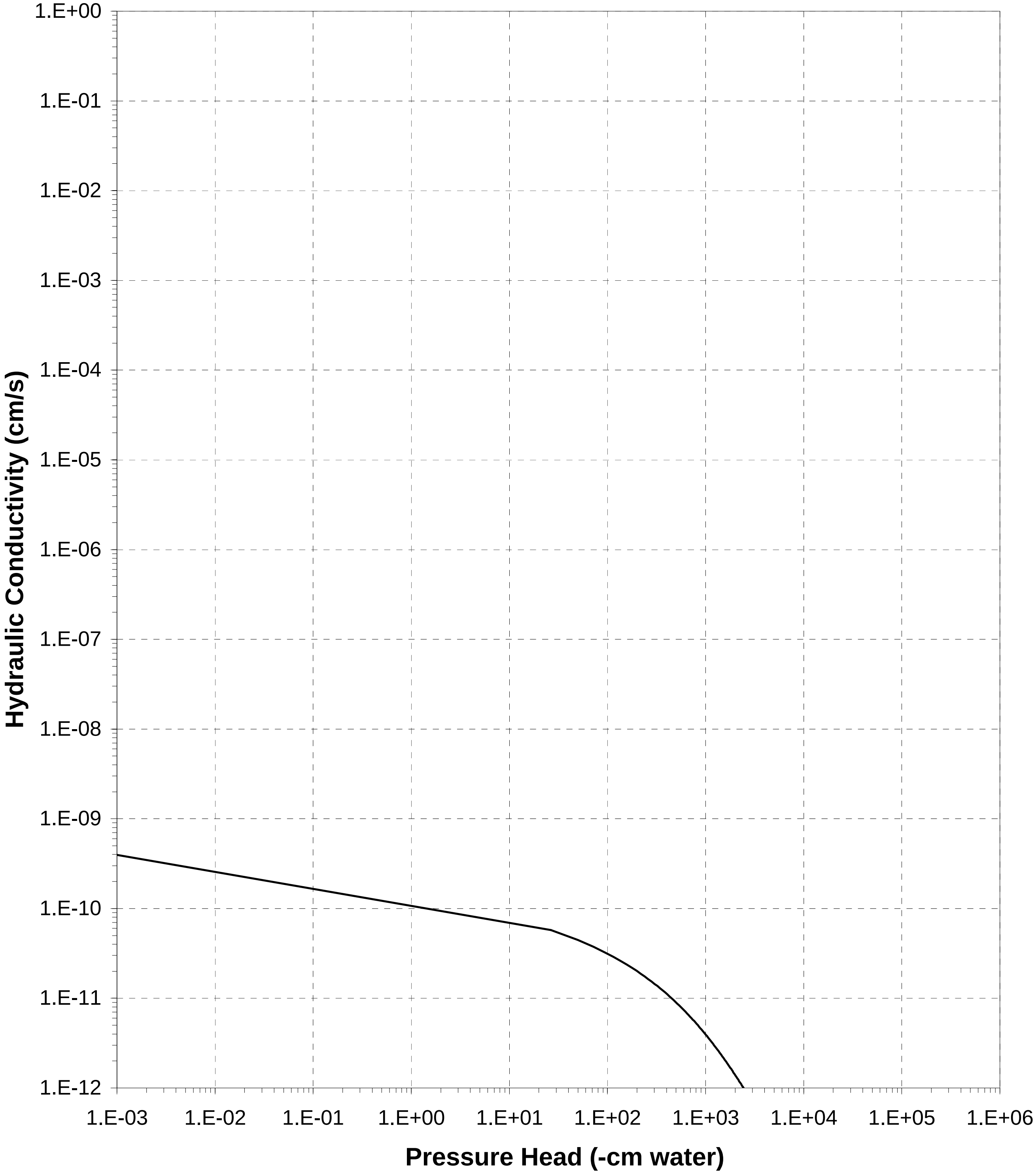
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B029RC62.7-64.0



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B029RC62.7-64.0



Moisture Retention Data

Hanging Column / Pressure Plate

(Soil-Water Characteristic Curve)

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC54.0-55.0
Date Sampled: 8/30/11
Depth: 54.0-55.0

Dry wt. of sample (g): 251.73
Tare wt., ring (g): 149.27
Tare wt., screen & clamp (g): 0.00
Initial sample volume (cm^3): 109.66
Initial dry bulk density (g/cm^3): 2.30
Measured particle density (g/cm^3): 2.72
Initial calculated total porosity (%): 15.75

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content[†] (% vol)
Hanging column:	3-Oct-11	16:40	415.80	0	13.50
	10-Oct-11	12:35	415.78	73.0	13.48
	17-Oct-11	13:47	415.66	174.0	13.37
Pressure plate:	2-Nov-11	16:15	415.59	337	13.30
	15-Nov-11	14:53	415.54	1275	13.26

Volume Adjusted Data[1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	73.0	---	---	---	---
	174.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

[†] Assumed density of water is 1.0 g/cm^3

[‡‡] Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: B031RC54.0-55.0

Initial sample bulk density (g/cm^3)*:* 2.30
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of relative humidity box sample* (g)*:* 95.07
Tare weight (g)*:* 42.29

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content† (% vol)
Relative humidity box:	21-Sep-11	10:00	95.78	857025	3.07

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

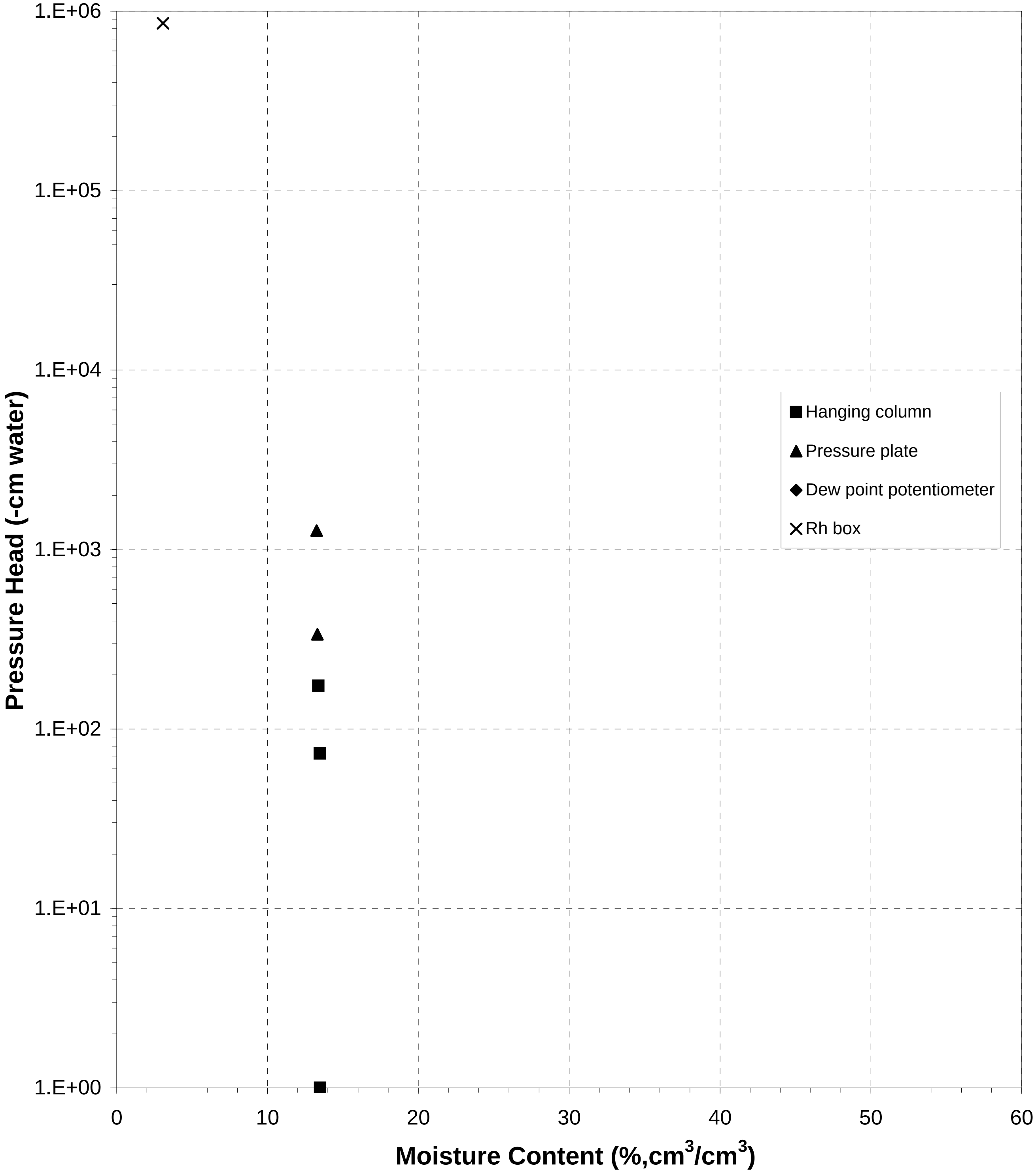
† Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

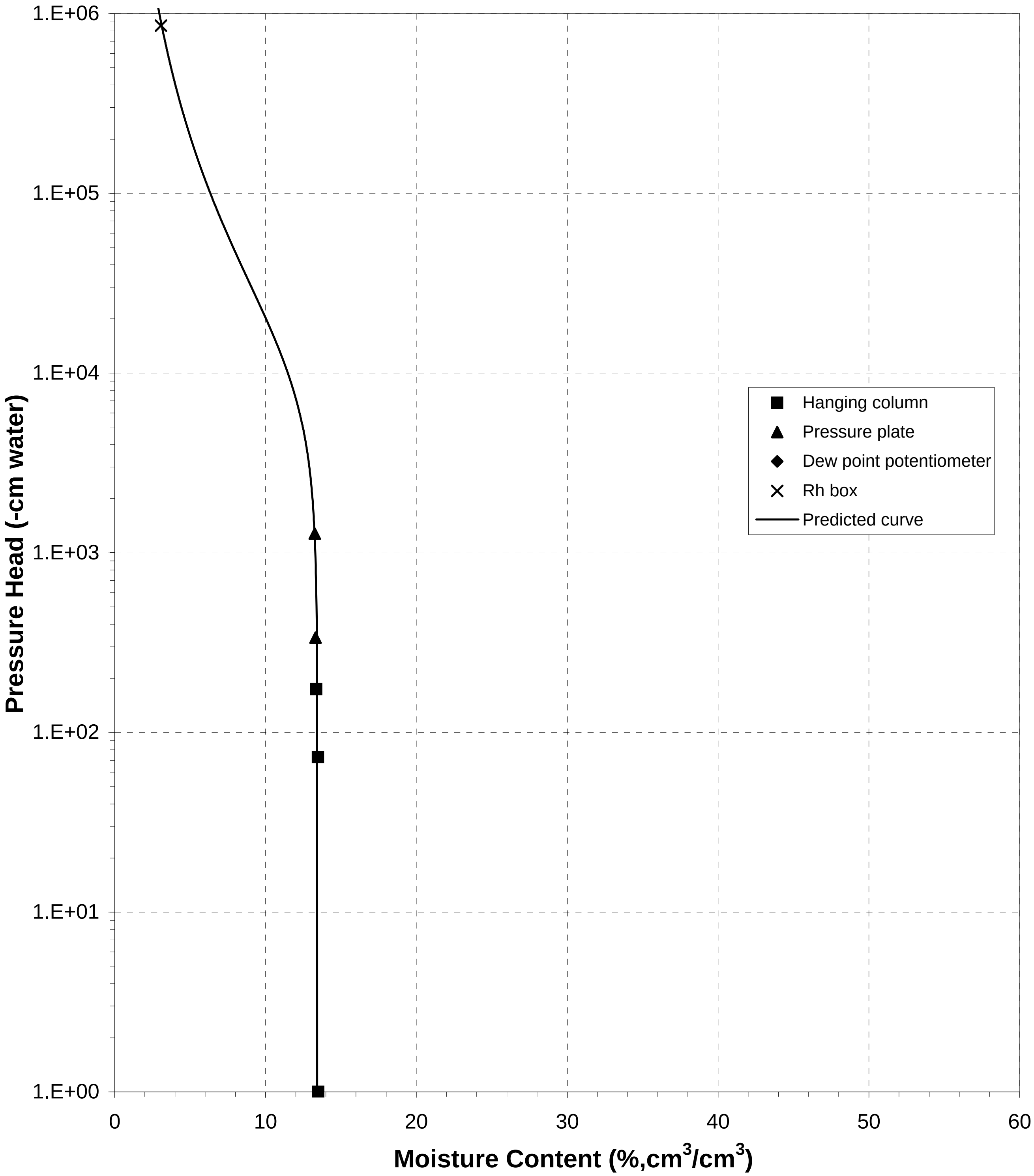
Water Retention Data Points

Sample Number: B031RC54.0-55.0



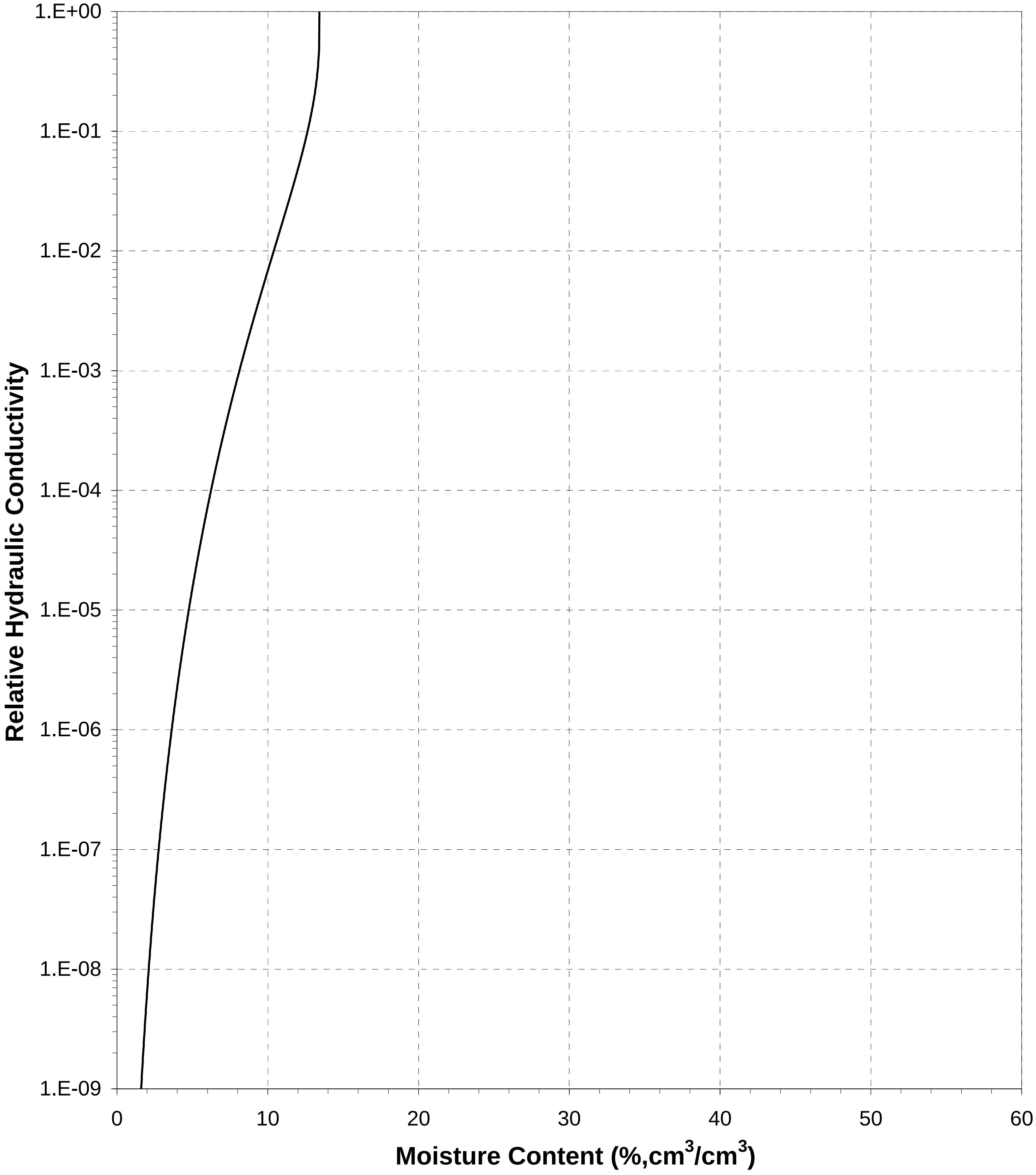
Predicted Water Retention Curve and Data Points

Sample Number: B031RC54.0-55.0



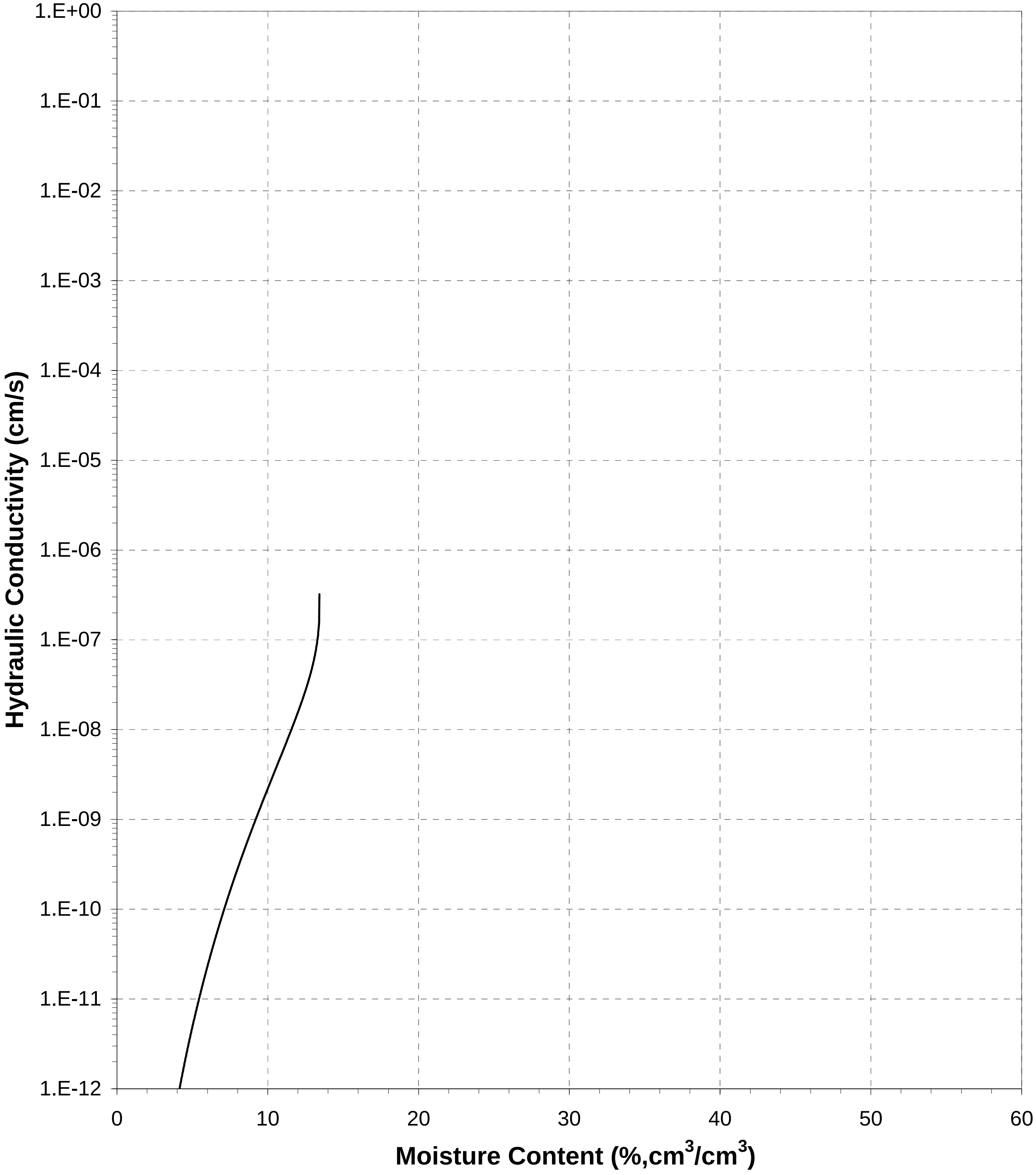
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B031RC54.0-55.0



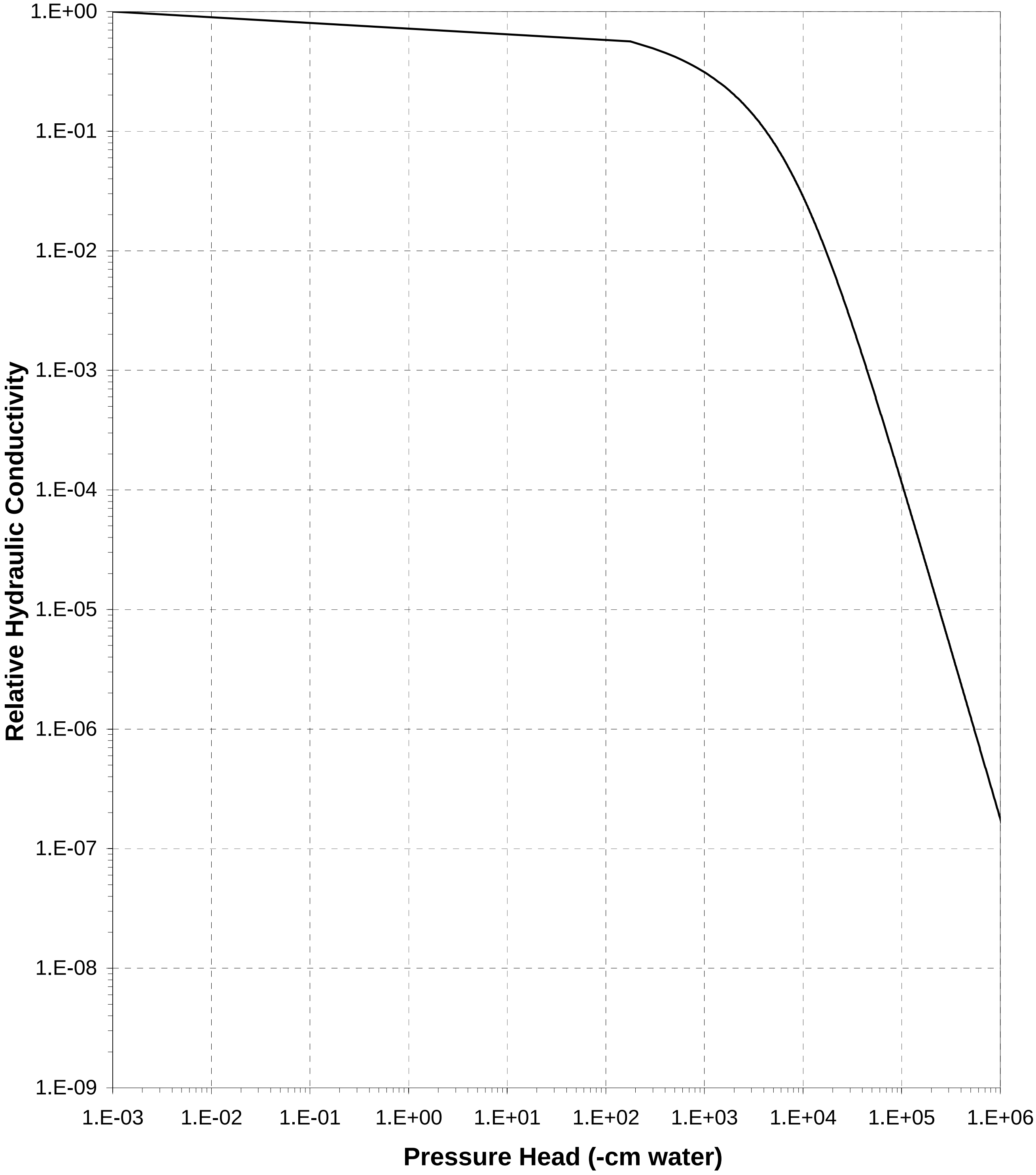
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B031RC54.0-55.0



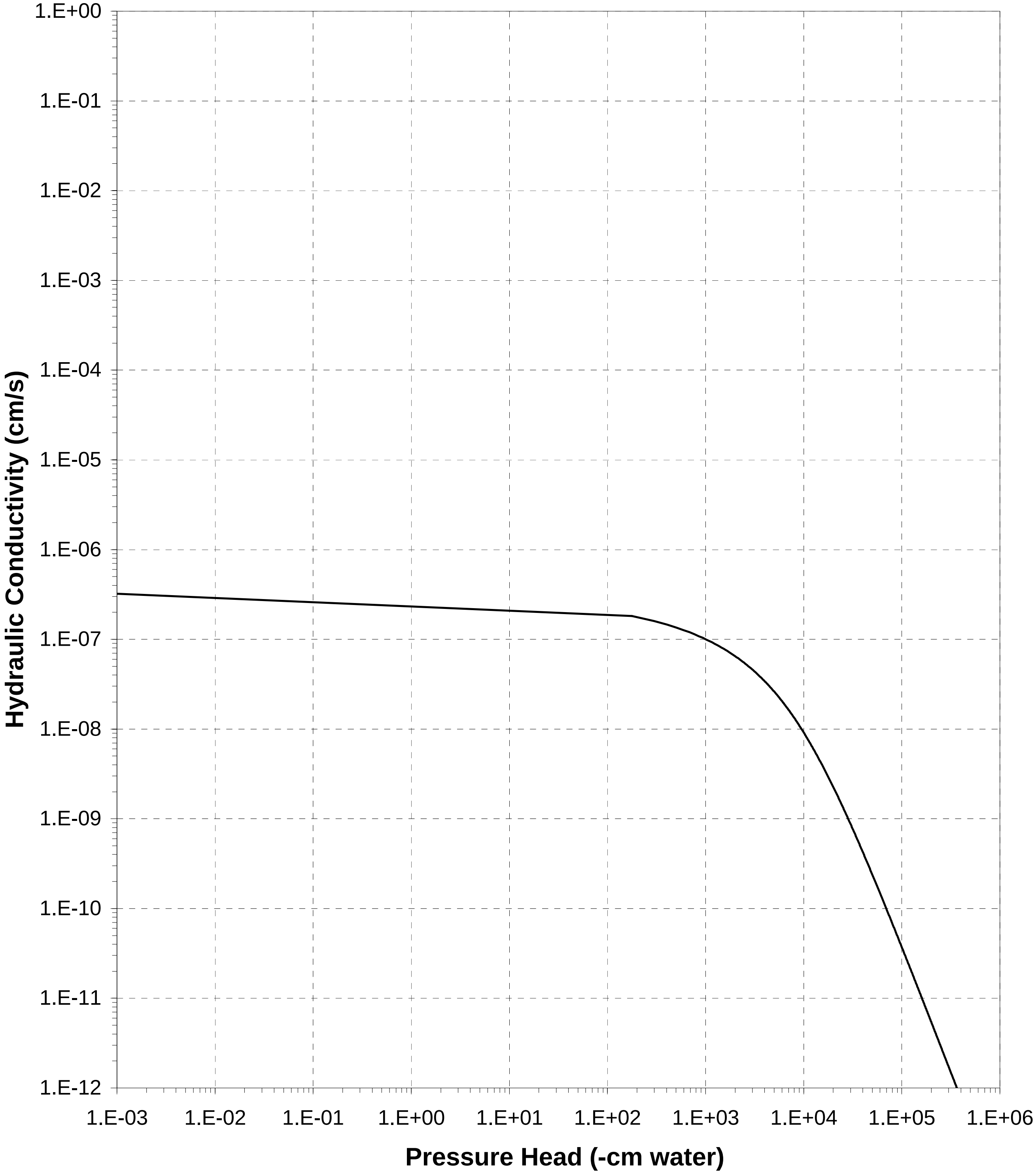
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B031RC54.0-55.0



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B031RC54.0-55.0



Moisture Retention Data

Hanging Column / Pressure Plate

(Soil-Water Characteristic Curve)

Job Name:	Fluor-B&W Portsmouth LLC	*Dry wt. of sample* (g):	289.33
Job Number:	LB11.0188.00	*Tare wt., ring* (g):	146.91
Sample Number:	B031RC67.0-68.0	*Tare wt., screen & clamp* (g):	0.00
Date Sampled:	8/30/11	*Initial sample volume* (cm^3):	111.61
Depth:	67.0-68.0	*Initial dry bulk density* (g/cm^3):	2.59
		Measured particle density (g/cm^3):	2.94
		Initial calculated total porosity (%):	11.71

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content† (% vol)
Hanging column:	22-Sep-11	15:45	448.82	0	11.27
	3-Oct-11	15:18	448.51	67.0	10.99
	10-Oct-11	10:50	448.43	180.0	10.92
Pressure plate:	24-Oct-11	14:30	448.35	337	10.85
	7-Nov-11	7:25	447.96	1275	10.50

Volume Adjusted Data[1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	67.0	---	---	---	---
	180.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

† Assumed density of water is 1.0 g/cm^3

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Krous
Checked by: J. Hines

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: B031RC67.0-68.0

Initial sample bulk density (g/cm^3)*:* 2.59
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of dew point potentiometer sample* (g)*:* 175.86
Tare weight, jar (g)*:* 112.57

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content [†] (% vol)
Dew point potentiometer:	6-Oct-11	11:03	177.19	16929	5.45
	14-Sep-11	14:45	176.90	28146	4.26
	14-Sep-11	9:45	176.62	58842	3.11
	13-Sep-11	11:15	176.35	183258	2.01

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Dew point potentiometer:	16929	---	---	---	---
	28146	---	---	---	---
	58842	---	---	---	---
	183258	---	---	---	---

Dry weight of relative humidity box sample* (g)*:* 75.30
Tare weight (g)*:* 38.33

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content [†] (% vol)
Relative humidity box:	21-Sep-11	10:00	75.40	857025	0.70

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

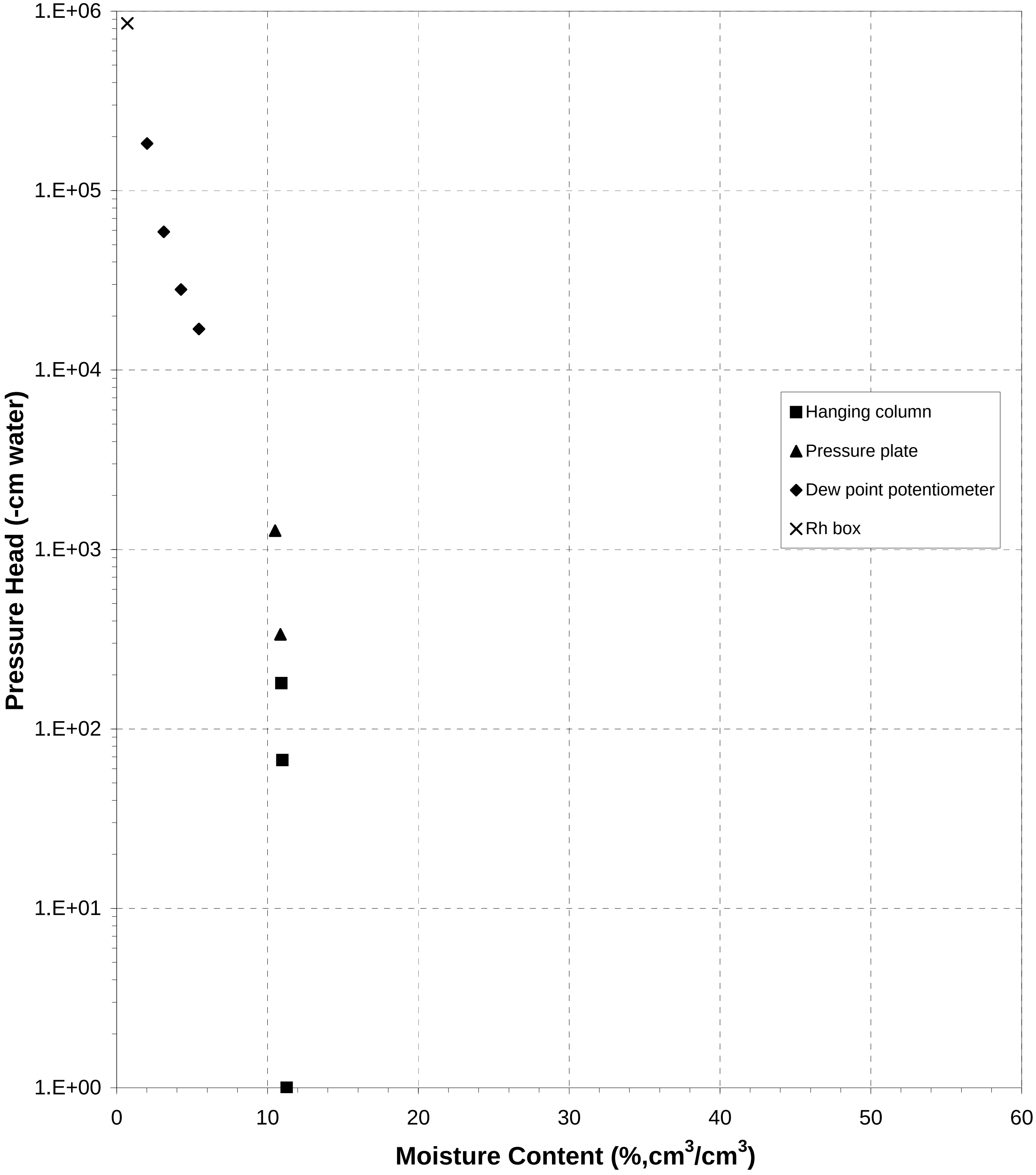
[†] Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

[‡‡] Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Krous
Checked by: J. Hines

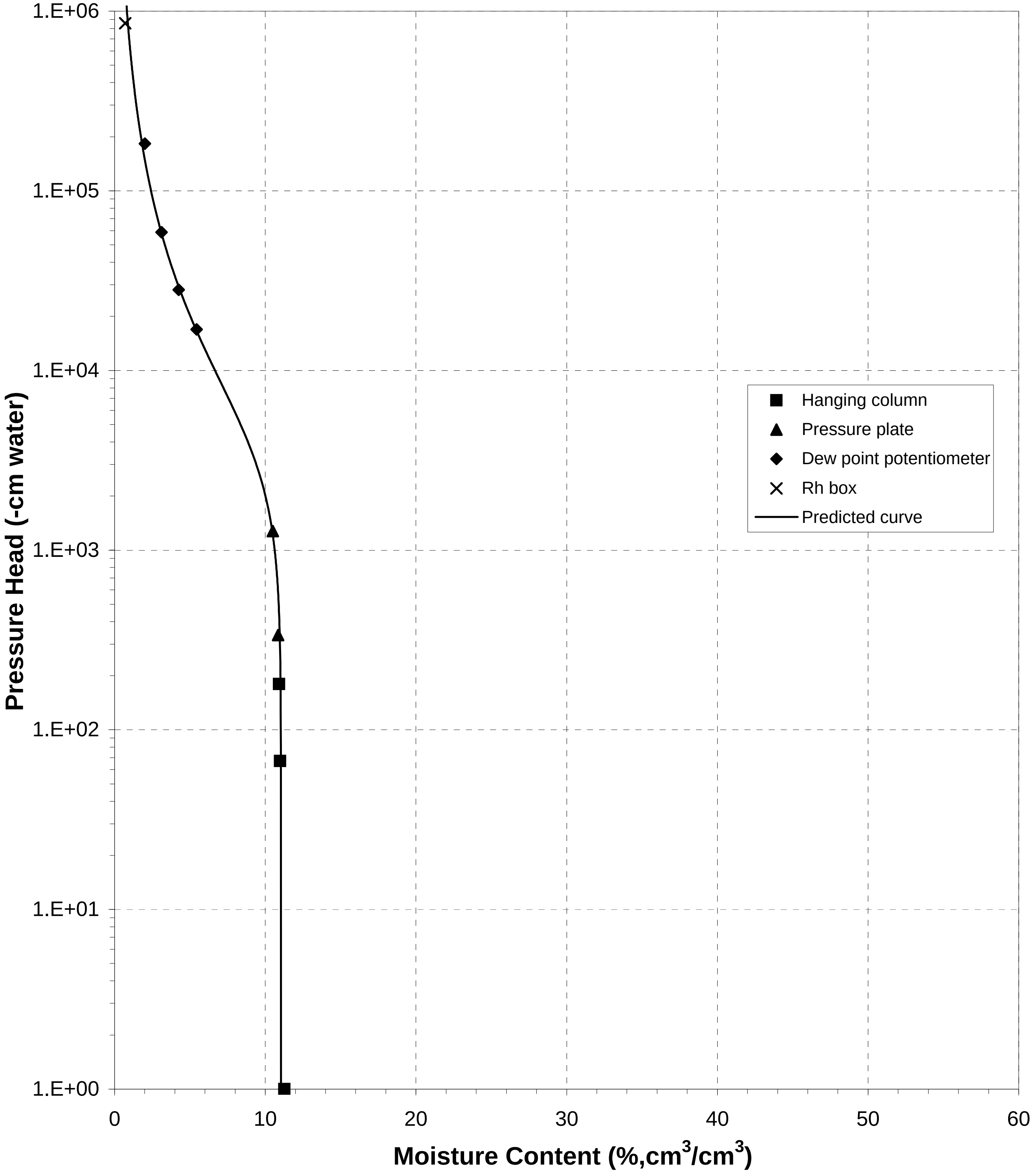
Water Retention Data Points

Sample Number: B031RC67.0-68.0



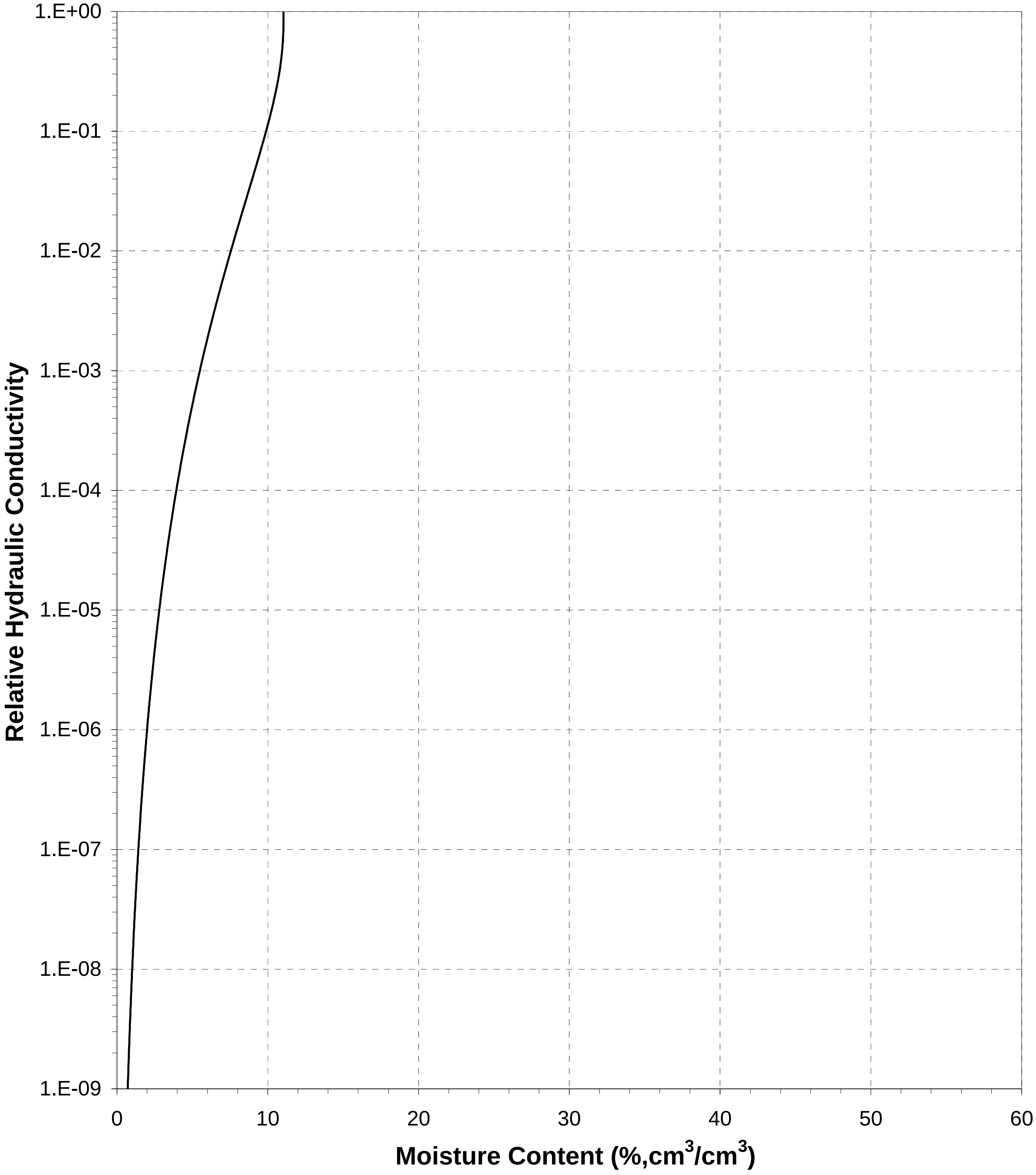
Predicted Water Retention Curve and Data Points

Sample Number: B031RC67.0-68.0



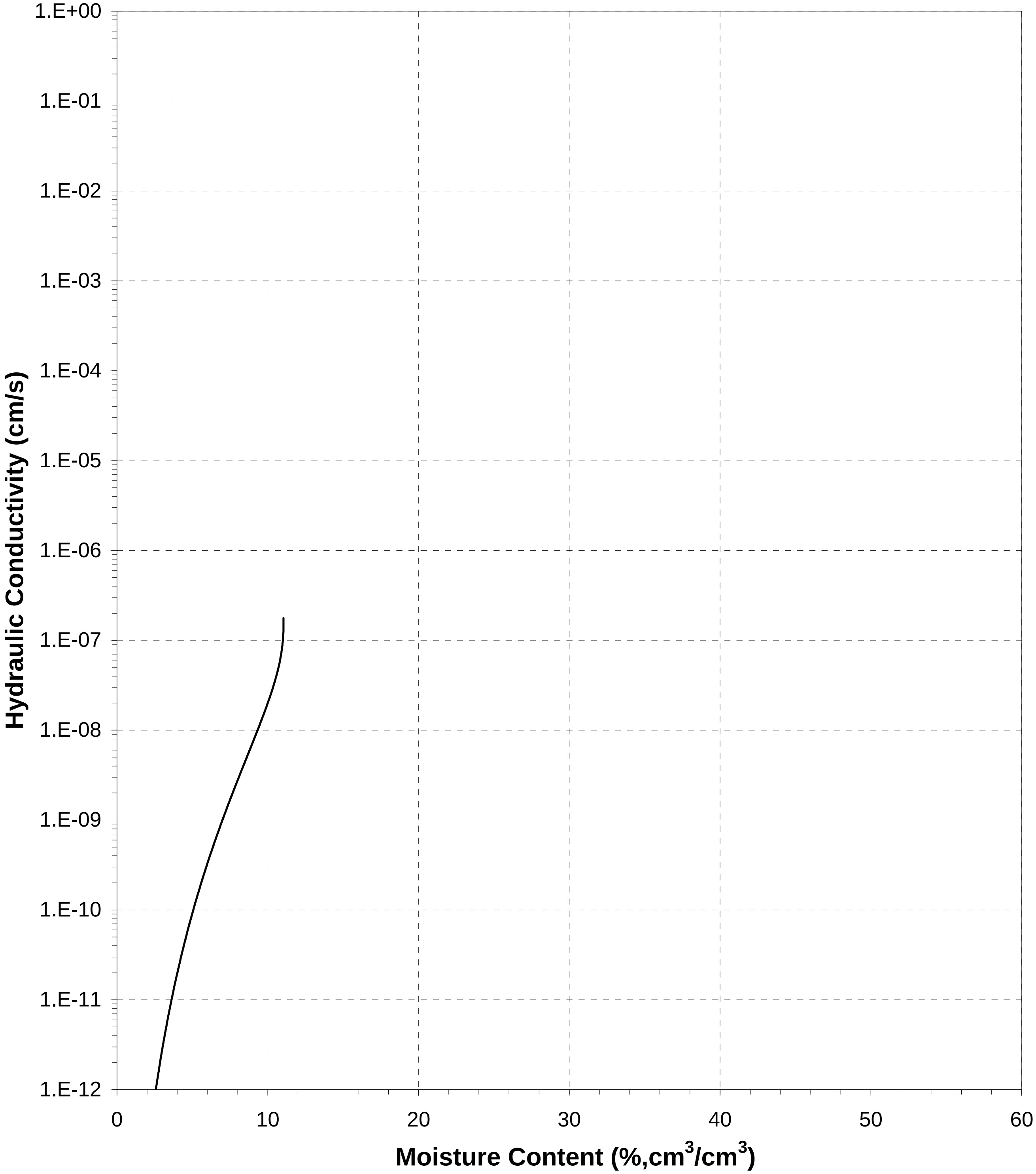
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B031RC67.0-68.0



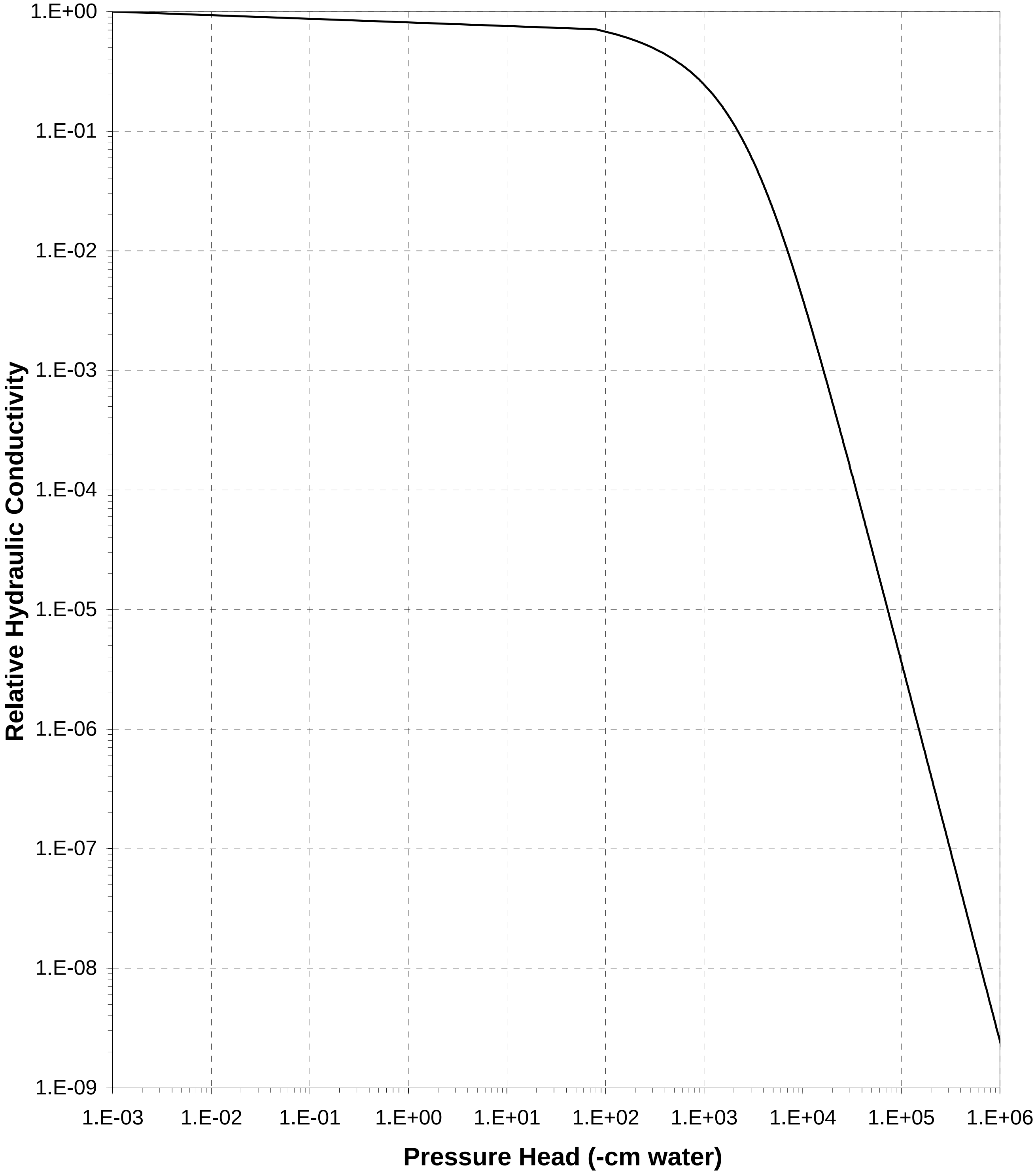
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B031RC67.0-68.0



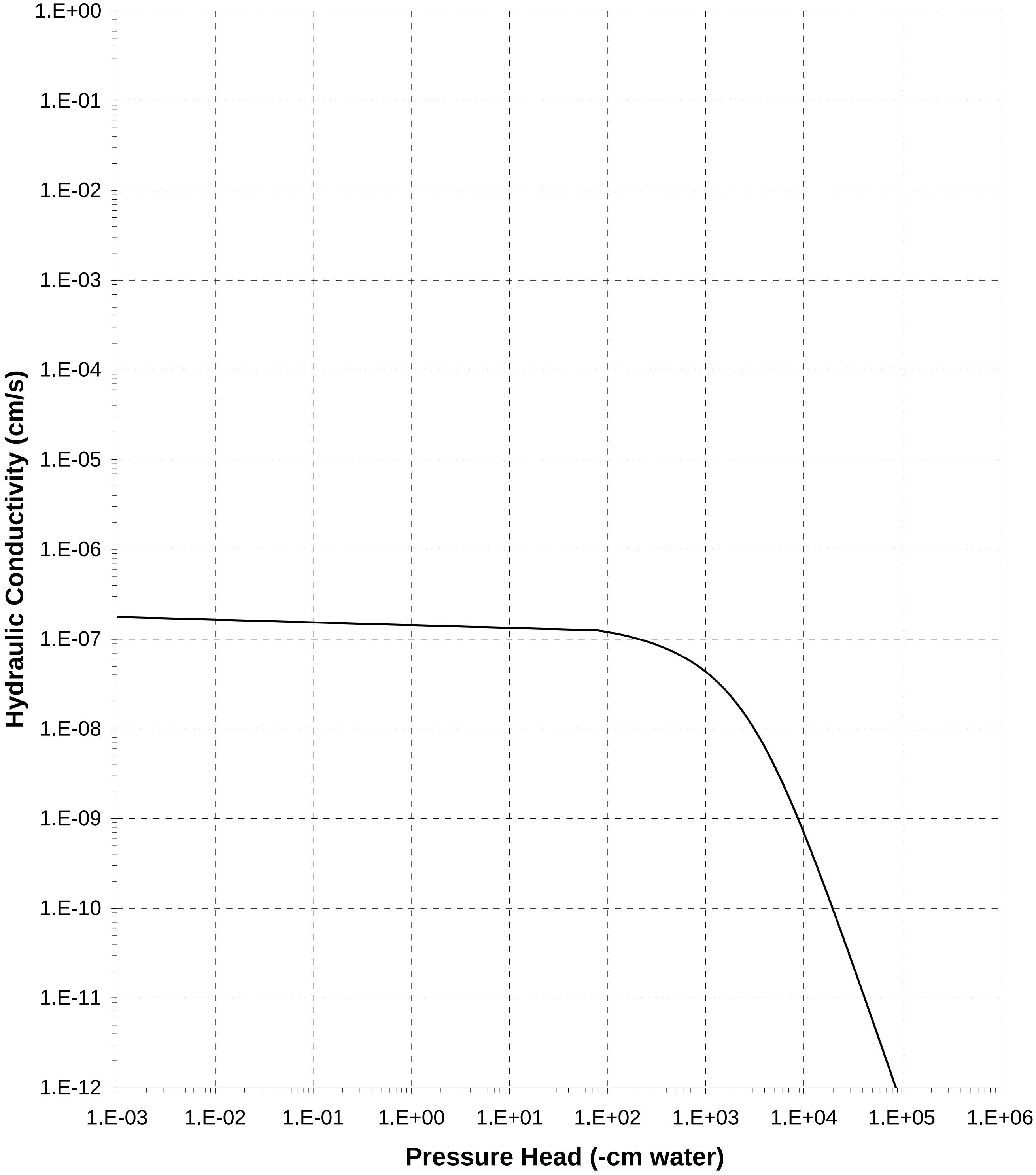
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B031RC67.0-68.0



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B031RC67.0-68.0



Moisture Retention Data
Hanging Column / Pressure Plate
(Soil-Water Characteristic Curve)

Job Name:	Fluor-B&W Portsmouth LLC	*Dry wt. of sample* (g):	273.87
Job Number:	LB11.0188.00	*Tare wt., ring* (g):	0.00
Sample Number:	B031RC87.0-88.0	*Tare wt., screen & clamp* (g):	0.00
Date Sampled:	8/31/11	*Initial sample volume* (cm^3):	113.84
Depth:	87.0-88.0	*Initial dry bulk density* (g/cm^3):	2.41
		Measured particle density (g/cm^3):	2.73
		Initial calculated total porosity (%):	11.81

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content† (% vol)
Hanging column:	11-Oct-11	10:20	288.30	0	12.68
	17-Oct-11	13:50	287.93	69.0	12.35
	24-Oct-11	13:35	287.87	172.0	12.30
Pressure plate:	7-Nov-11	7:30	287.85	337	12.28
	19-Nov-11	12:10	287.81	1275	12.24

Volume Adjusted Data [1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	69.0	---	---	---	---
	172.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

† Assumed density of water is 1.0 g/cm^3

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Krous
Checked by: J. Hines

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: B031RC87.0-88.0

Initial sample bulk density (g/cm^3)*:* 2.41
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of relative humidity box sample* (g)*:* 75.83
Tare weight (g)*:* 42.10

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content [†] (% vol)
Relative humidity box:	21-Sep-11	10:00	76.21	857025	2.65

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

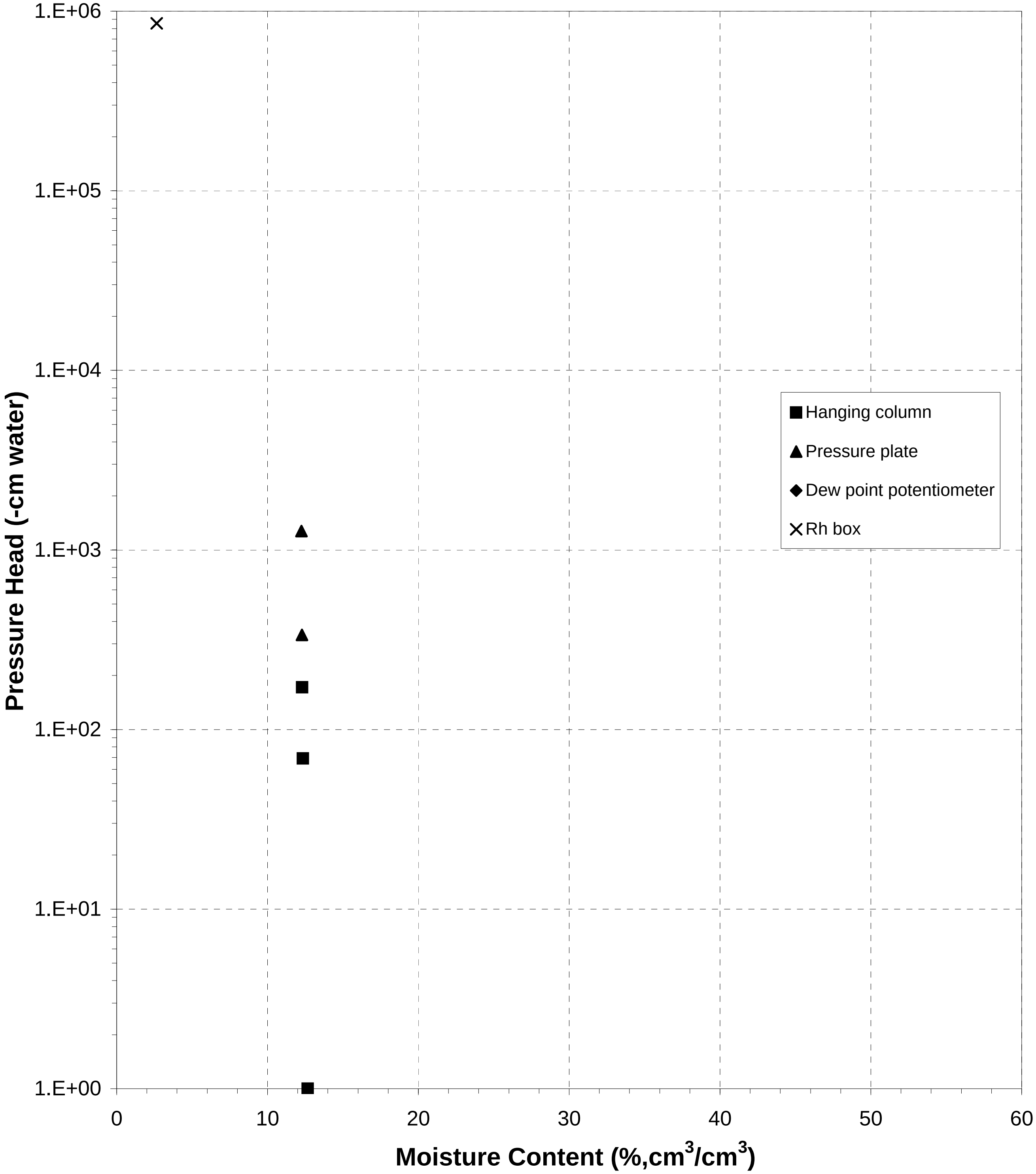
[†] Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

[‡‡] Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Krous
Checked by: J. Hines

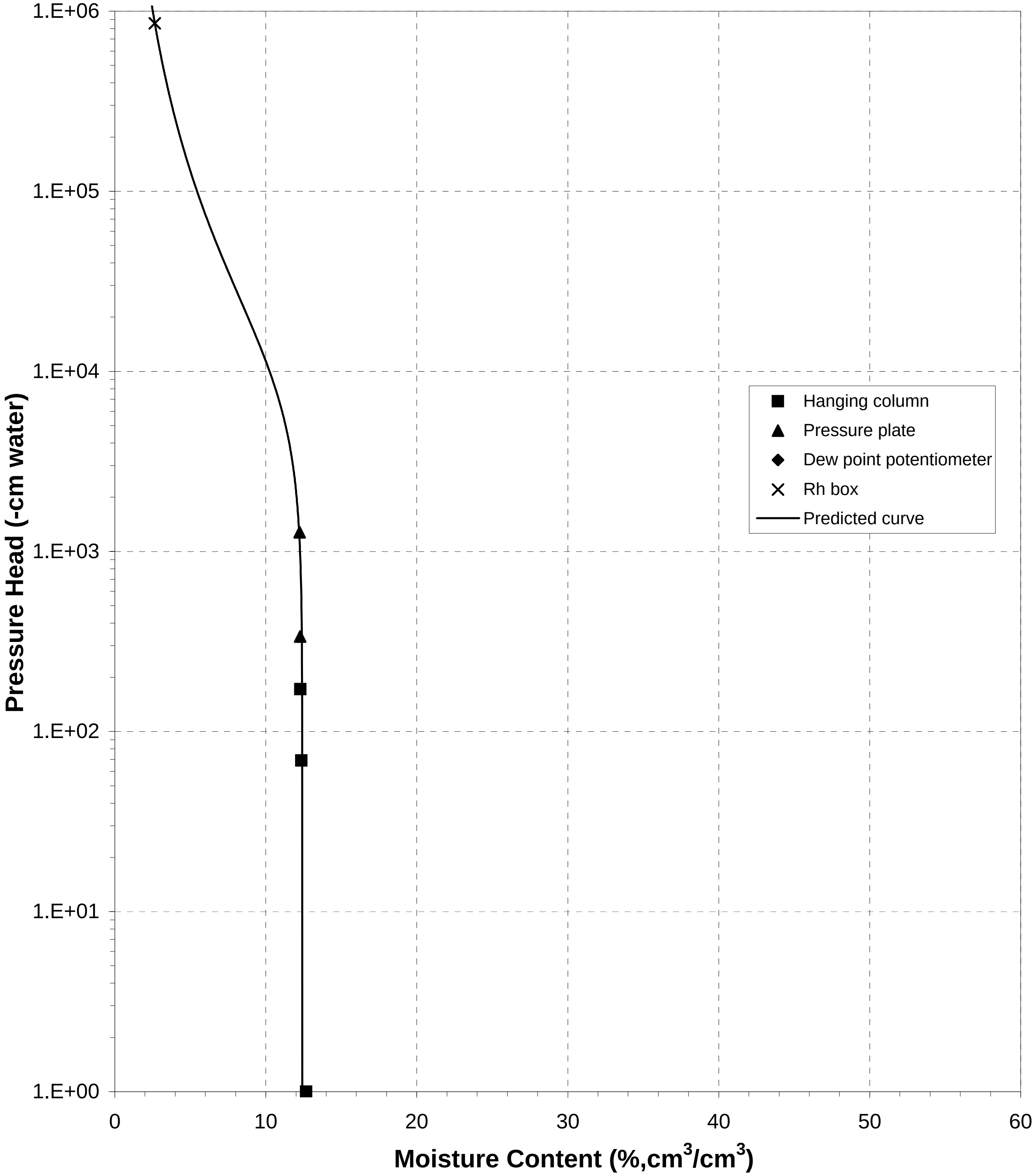
Water Retention Data Points

Sample Number: B031RC87.0-88.0



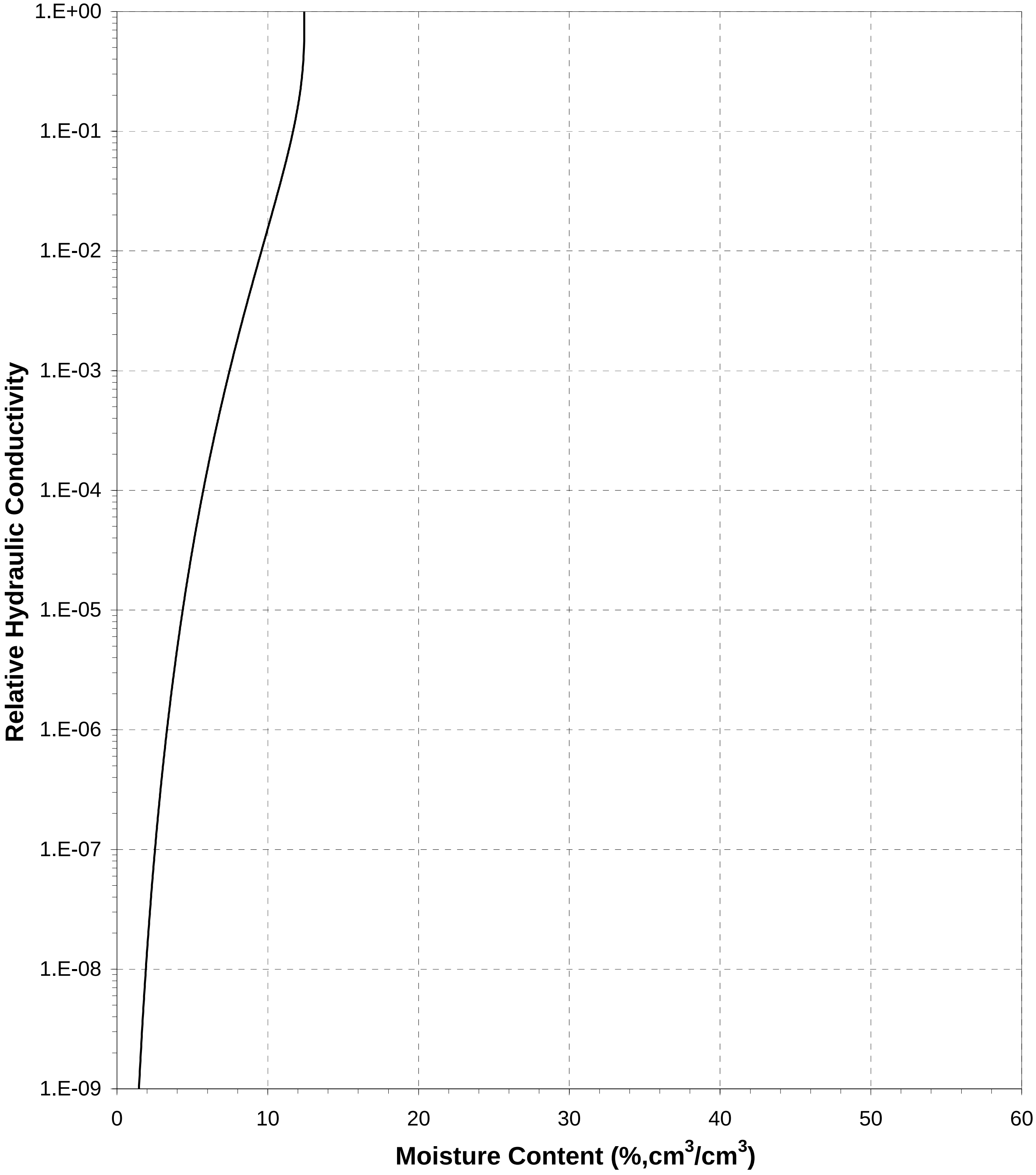
Predicted Water Retention Curve and Data Points

Sample Number: B031RC87.0-88.0



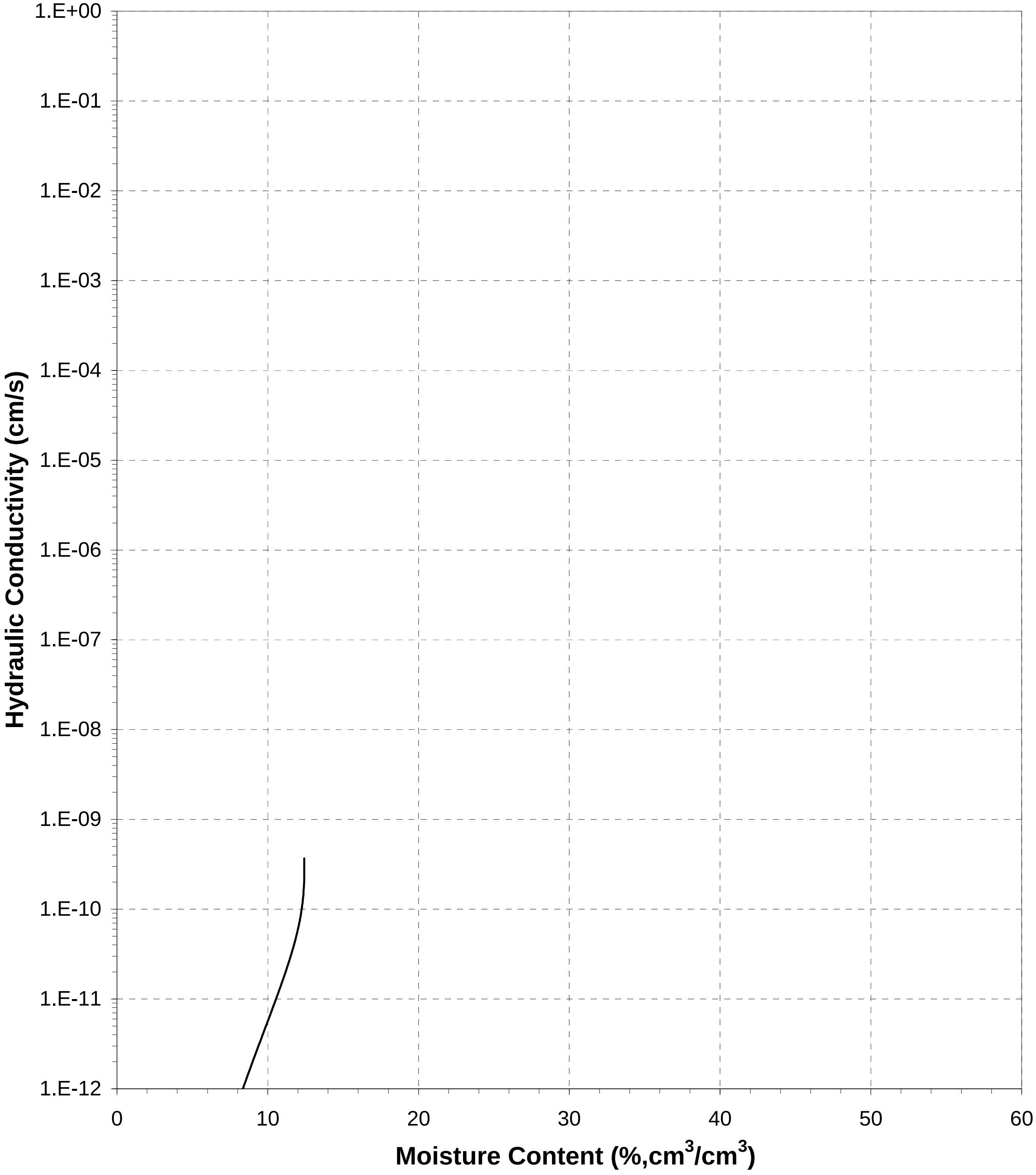
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B031RC87.0-88.0



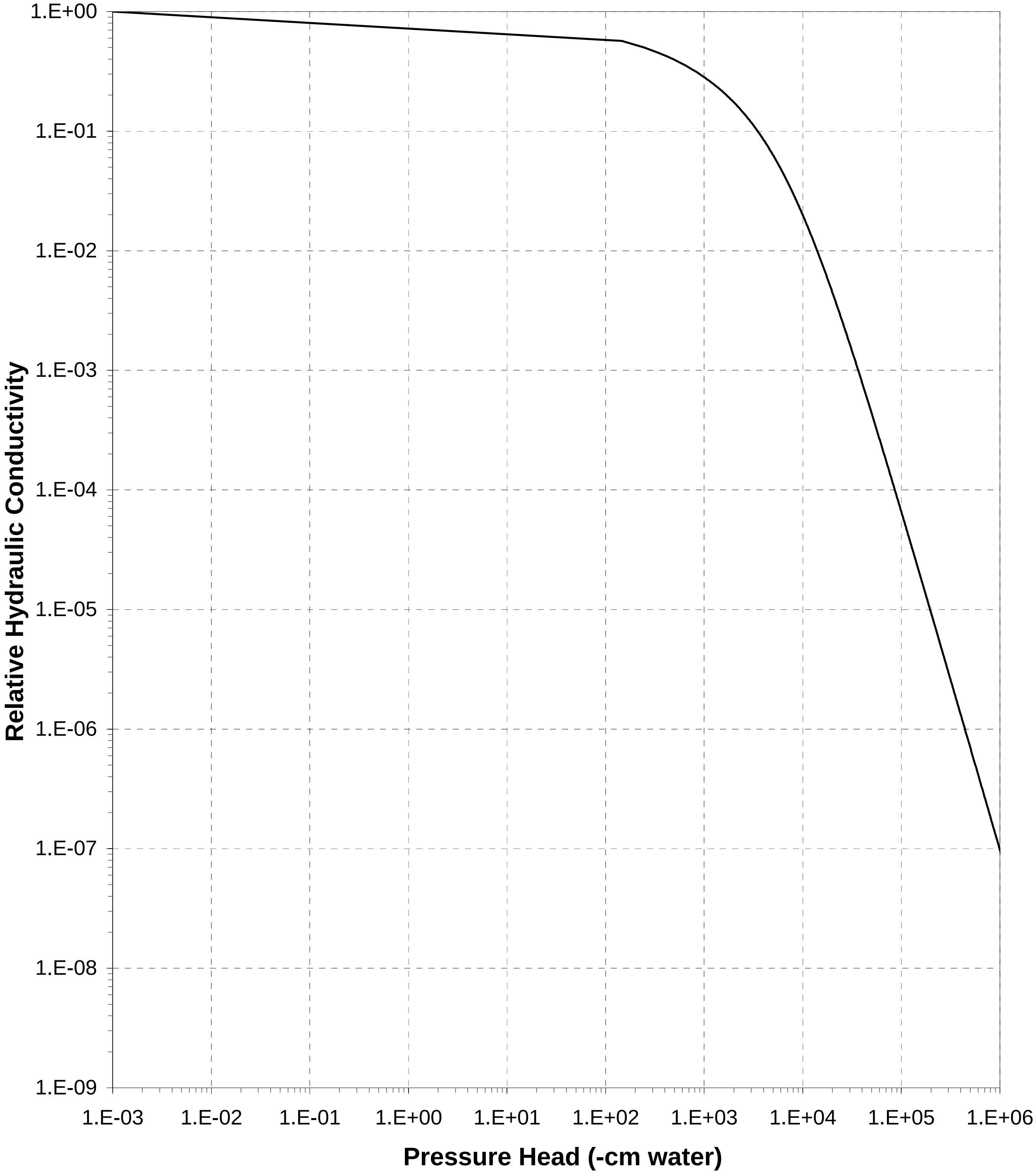
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B031RC87.0-88.0



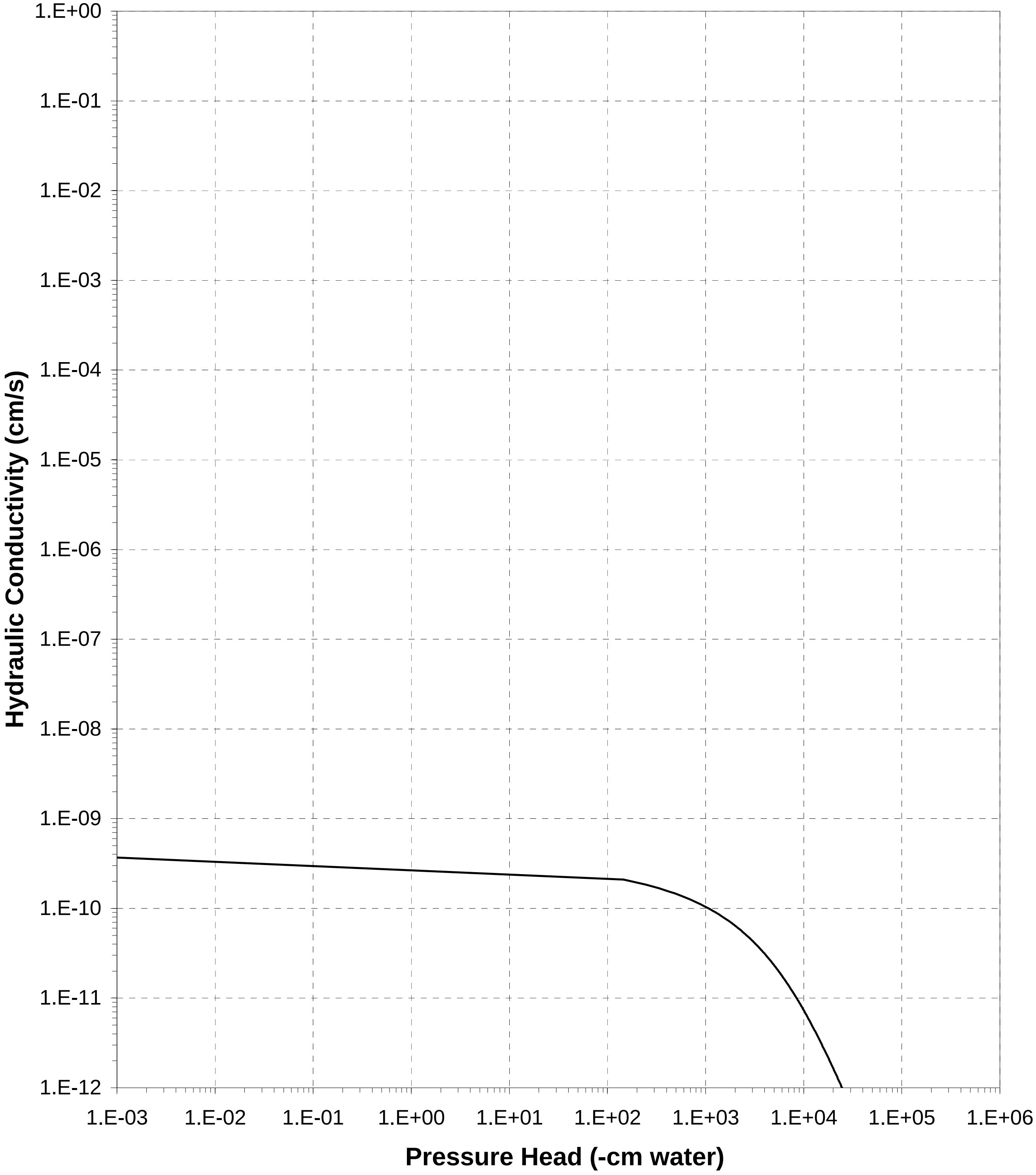
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B031RC87.0-88.0



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B031RC87.0-88.0



Moisture Retention Data
Hanging Column / Pressure Plate
(Soil-Water Characteristic Curve)

Job Name:	Fluor-B&W Portsmouth LLC	*Dry wt. of sample* (g):	167.55
Job Number:	LB11.0188.00	*Tare wt., ring* (g):	0.00
Sample Number:	B031RC110-111.0	*Tare wt., screen & clamp* (g):	0.00
Date Sampled:	8/31/11	*Initial sample volume* (cm^3):	75.60
Depth:	110-111.0	*Initial dry bulk density* (g/cm^3):	2.22
		Measured particle density (g/cm^3):	2.55
		Initial calculated total porosity (%):	13.15

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content† (% vol)
Hanging column:	10-Oct-11	16:00	176.48	0	11.81
	17-Oct-11	13:15	176.01	77.0	11.19
	24-Oct-11	13:30	175.98	151.5	11.15
Pressure plate:	7-Nov-11	7:30	175.96	337	11.12
	19-Nov-11	12:00	175.93	1275	11.08

Volume Adjusted Data[1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	77.0	---	---	---	---
	151.5	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

† Assumed density of water is 1.0 g/cm^3

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

Moisture Retention Data
Dew Point Potentiometer / Relative Humidity Box
(Soil-Water Characteristic Curve)

Sample Number: B031RC110-111.0

Initial sample bulk density (g/cm^3)*:* 2.22
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of relative humidity box sample* (g)*:* 75.53
Tare weight (g)*:* 38.35

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content† (% vol)
Relative humidity box:	21-Sep-11	10:00	76.34	857025	4.85

Volume Adjusted Data[1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

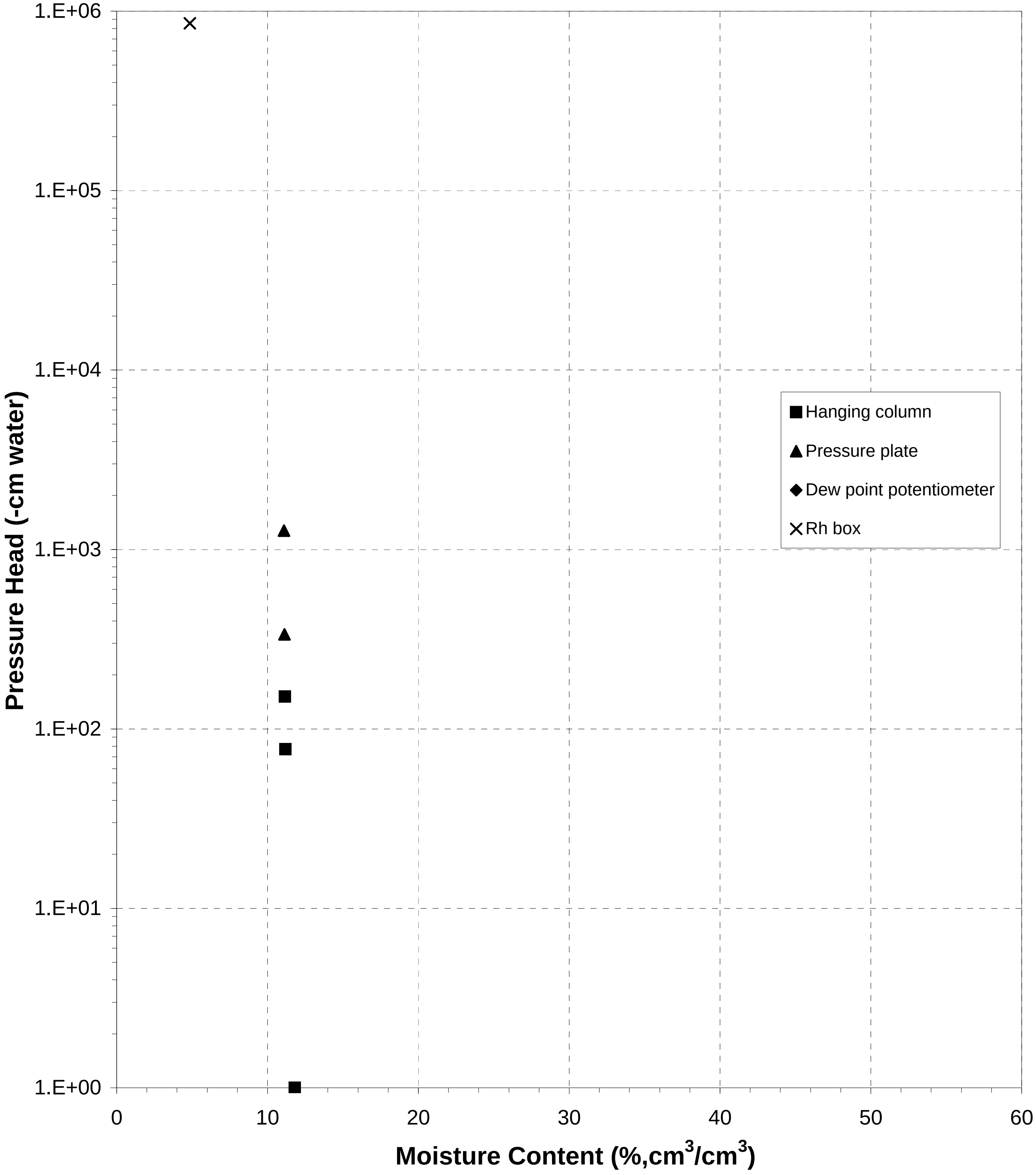
† Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

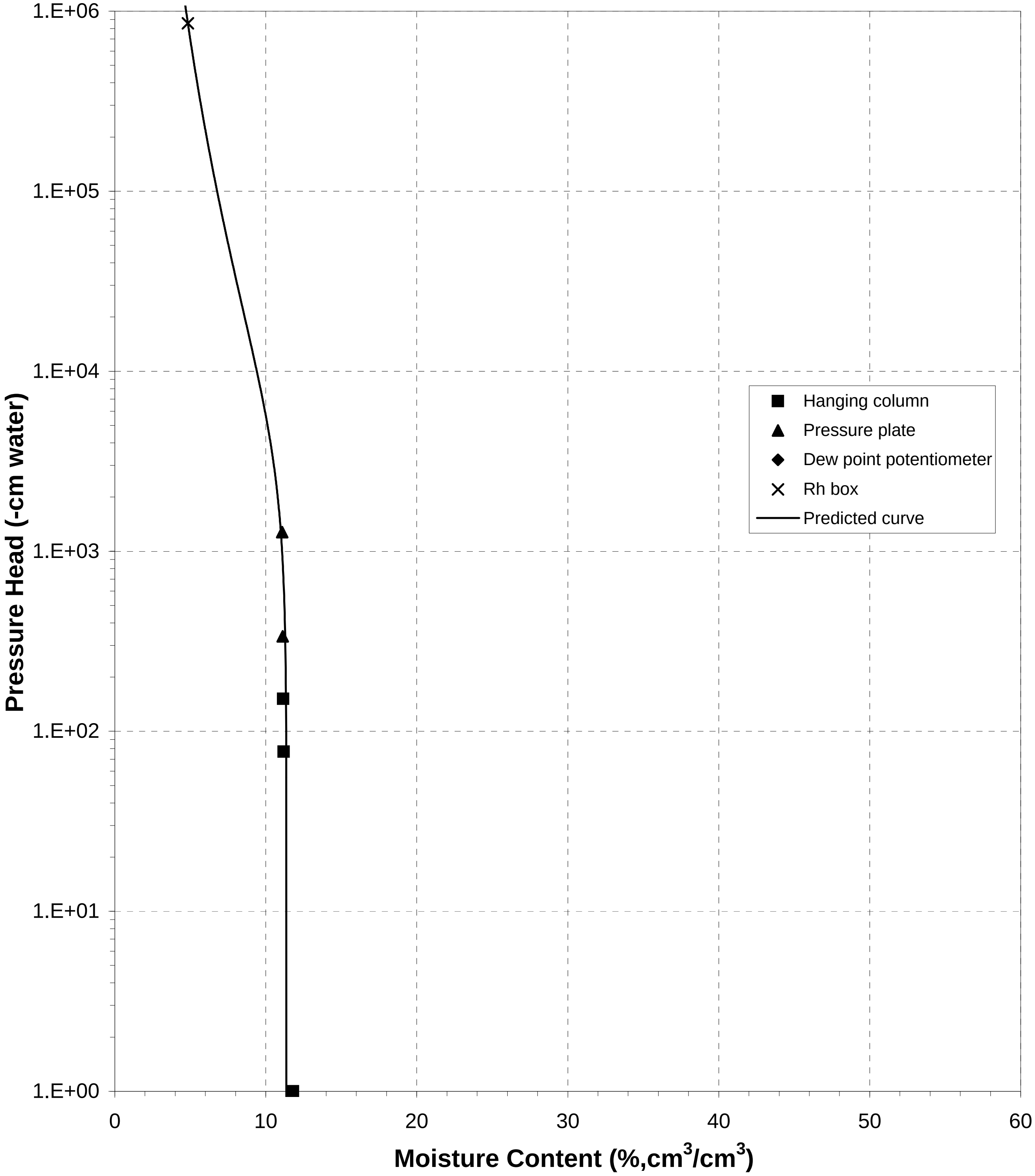
Water Retention Data Points

Sample Number: B031RC110-111.0



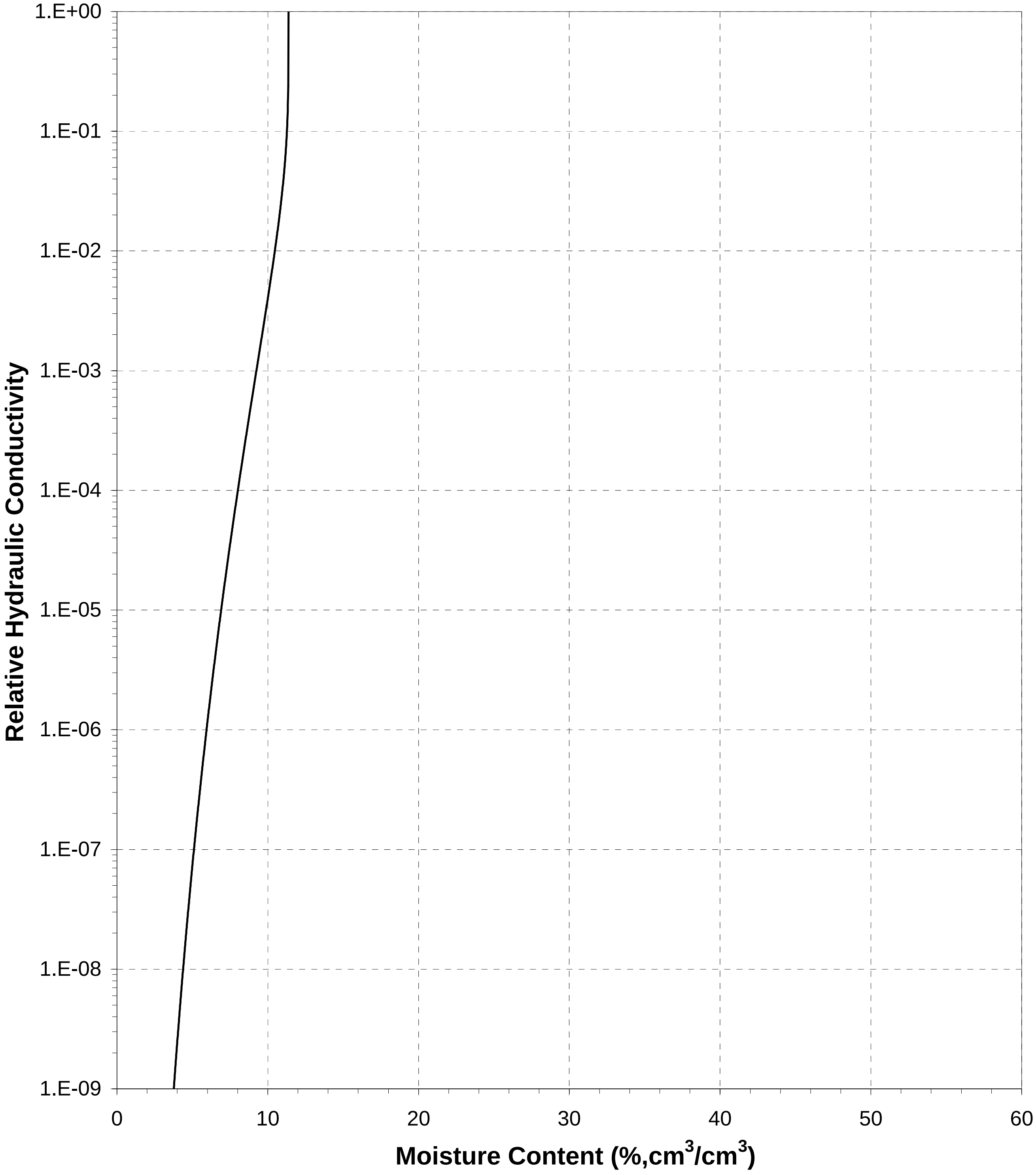
Predicted Water Retention Curve and Data Points

Sample Number: B031RC110-111.0



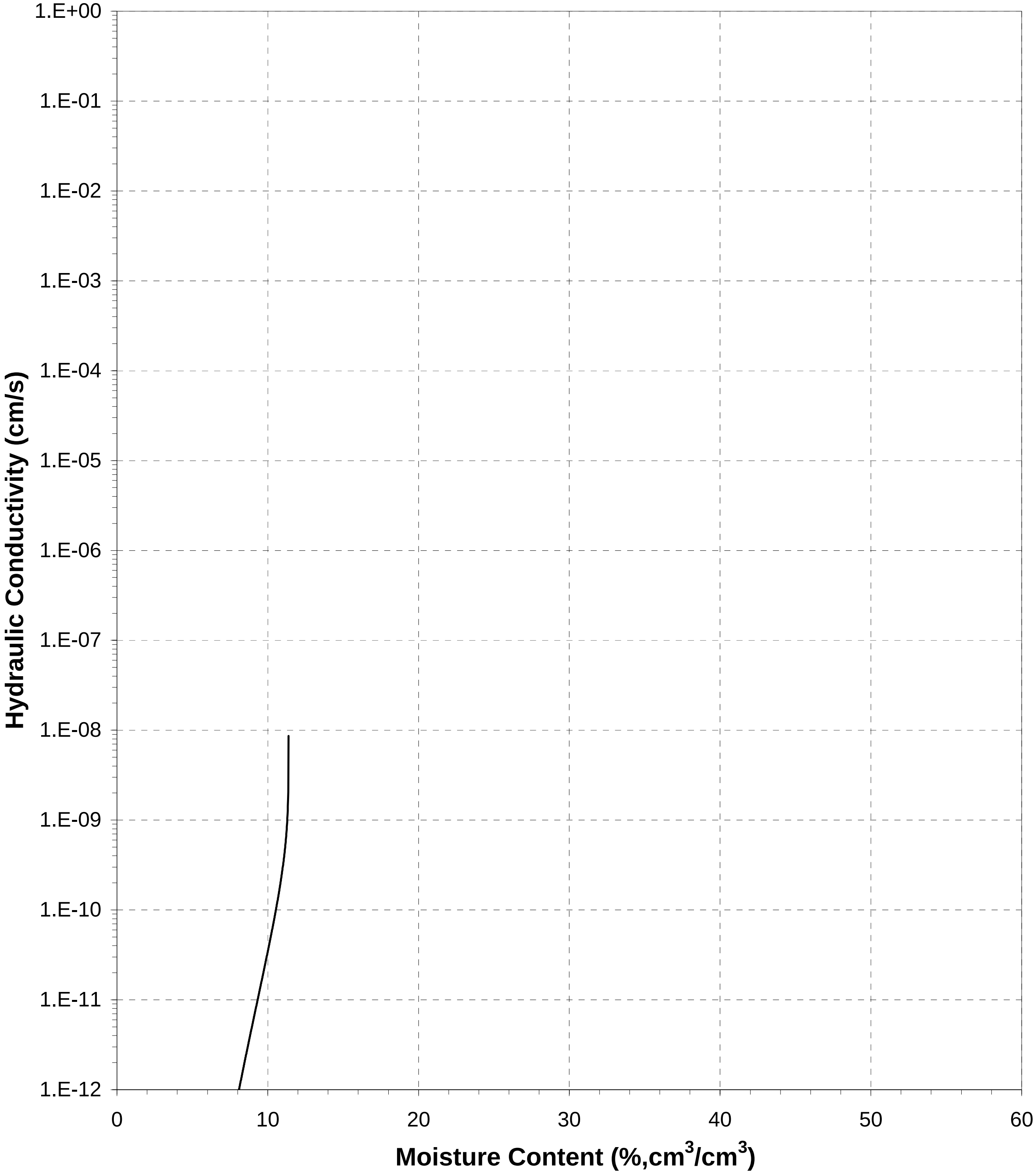
Plot of Relative Hydraulic Conductivity vs Moisture Content

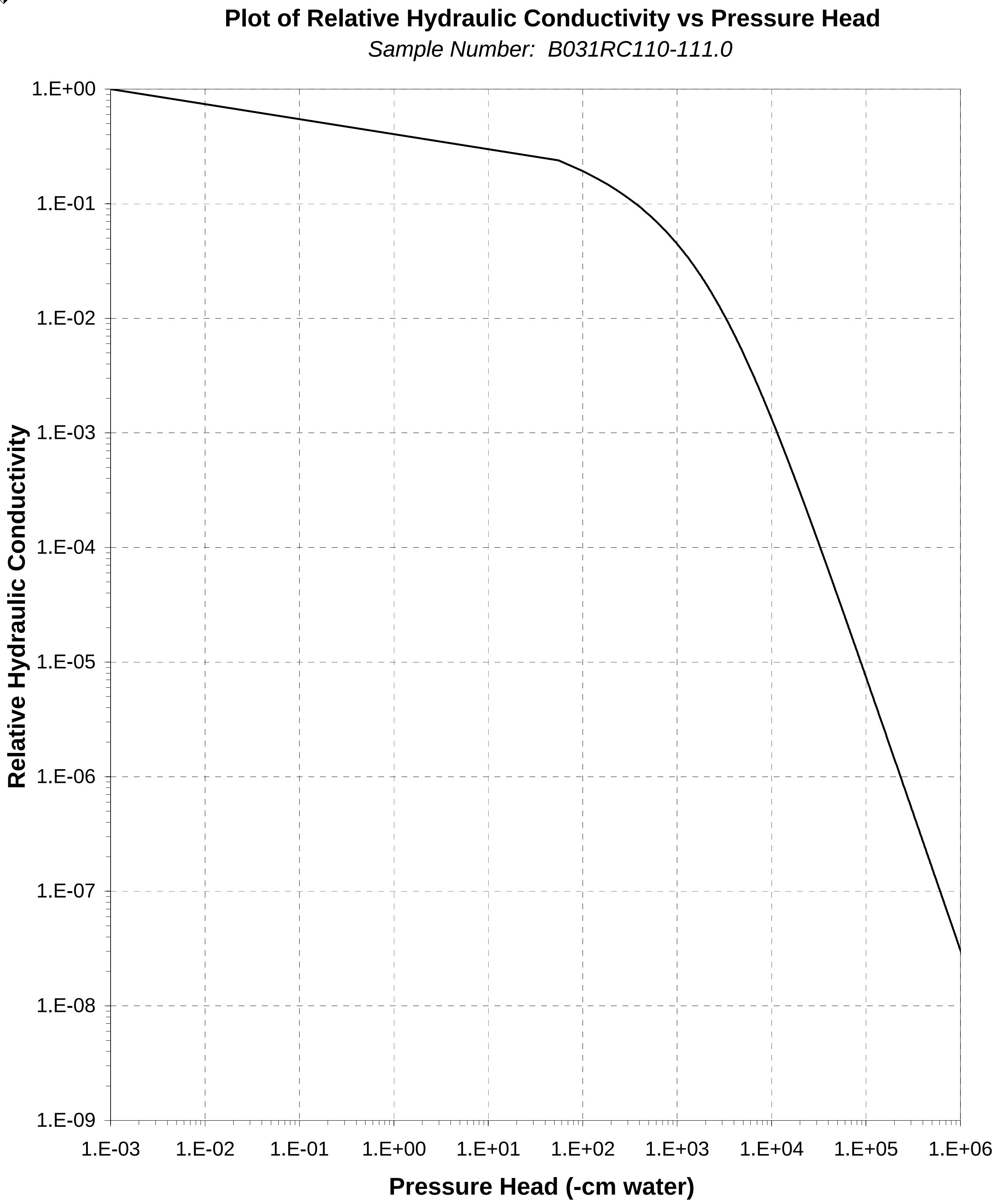
Sample Number: B031RC110-111.0



Plot of Hydraulic Conductivity vs Moisture Content

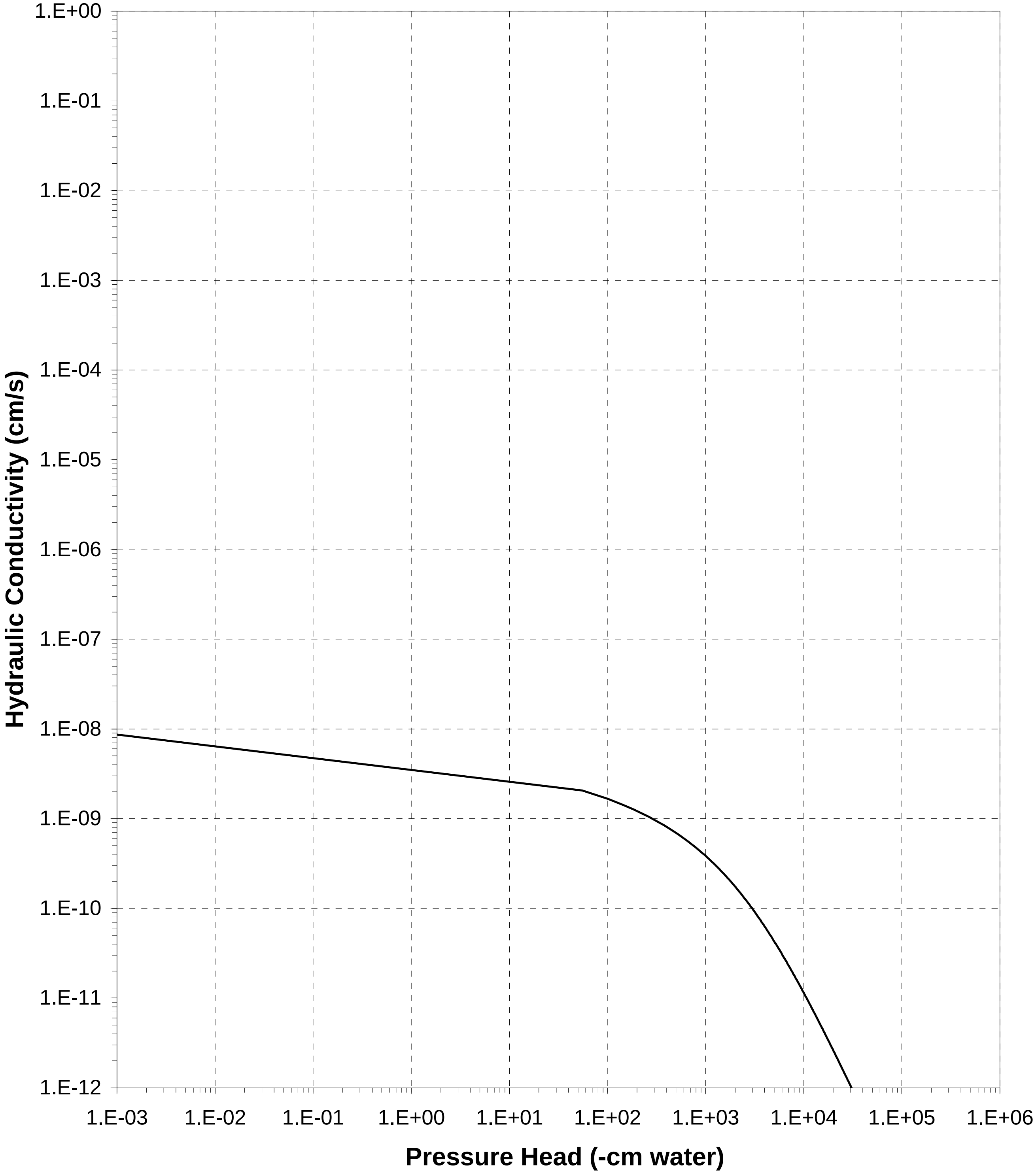
Sample Number: B031RC110-111.0




Plot of Relative Hydraulic Conductivity vs Pressure Head
Sample Number: B031RC110-111.0
Relative Hydraulic Conductivity
1.E+00
1.E-01
1.E-02
1.E-03
1.E-04
1.E-05
1.E-06
1.E-07
1.E-08
1.E-09
1.E-03
1.E-02
1.E-01
1.E+00
1.E+01
1.E+02
1.E+03
1.E+04
1.E+05
1.E+06
Pressure Head (-cm water)

Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B031RC110-111.0



Moisture Retention Data
Hanging Column / Pressure Plate
(Soil-Water Characteristic Curve)

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC131-132.0
Date Sampled: 8/31/11
Depth: 131-132.0

Dry wt. of sample (g): 253.19
Tare wt., ring (g): 154.76
Tare wt., screen & clamp (g): 0.00
Initial sample volume (cm^3): 117.24
Initial dry bulk density (g/cm^3): 2.16
Measured particle density (g/cm^3): 2.68
Initial calculated total porosity (%): 19.55

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content† (% vol)
Hanging column:	19-Sep-11	16:30	429.75	0	18.59
	3-Oct-11	15:15	429.64	18.0	18.50
	10-Oct-11	12:20	429.59	72.0	18.46
	17-Oct-11	13:40	429.53	155.0	18.41
Pressure plate:	2-Nov-11	16:10	421.30	337	11.39
	15-Nov-11	14:45	414.59	1275	5.66

Volume Adjusted Data[1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	18.0	---	---	---	---
	72.0	---	---	---	---
	155.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

† Assumed density of water is 1.0 g/cm^3

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: B031RC131-132.0

Initial sample bulk density (g/cm^3)*:* 2.16
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of dew point potentiometer sample* (g)*:* 173.56
Tare weight, jar (g)*:* 117.97

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content † (% vol)
Dew point potentiometer:	7-Oct-11	9:45	174.16	27433	2.33
	6-Oct-11	14:05	174.07	41506	1.98
	7-Oct-11	9:15	173.93	69244	1.44
	6-Oct-11	16:25	173.85	152358	1.13
	14-Sep-11	14:45	173.79	290031	0.89

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Dew point potentiometer:	27433	---	---	---	---
	41506	---	---	---	---
	69244	---	---	---	---
	152358	---	---	---	---
	290031	---	---	---	---

Dry weight of relative humidity box sample* (g)*:* 82.78
Tare weight (g)*:* 41.39

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content † (% vol)
Relative humidity box:	21-Sep-11	10:00	82.86	857025	0.39

Volume Adjusted Data [1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change [2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

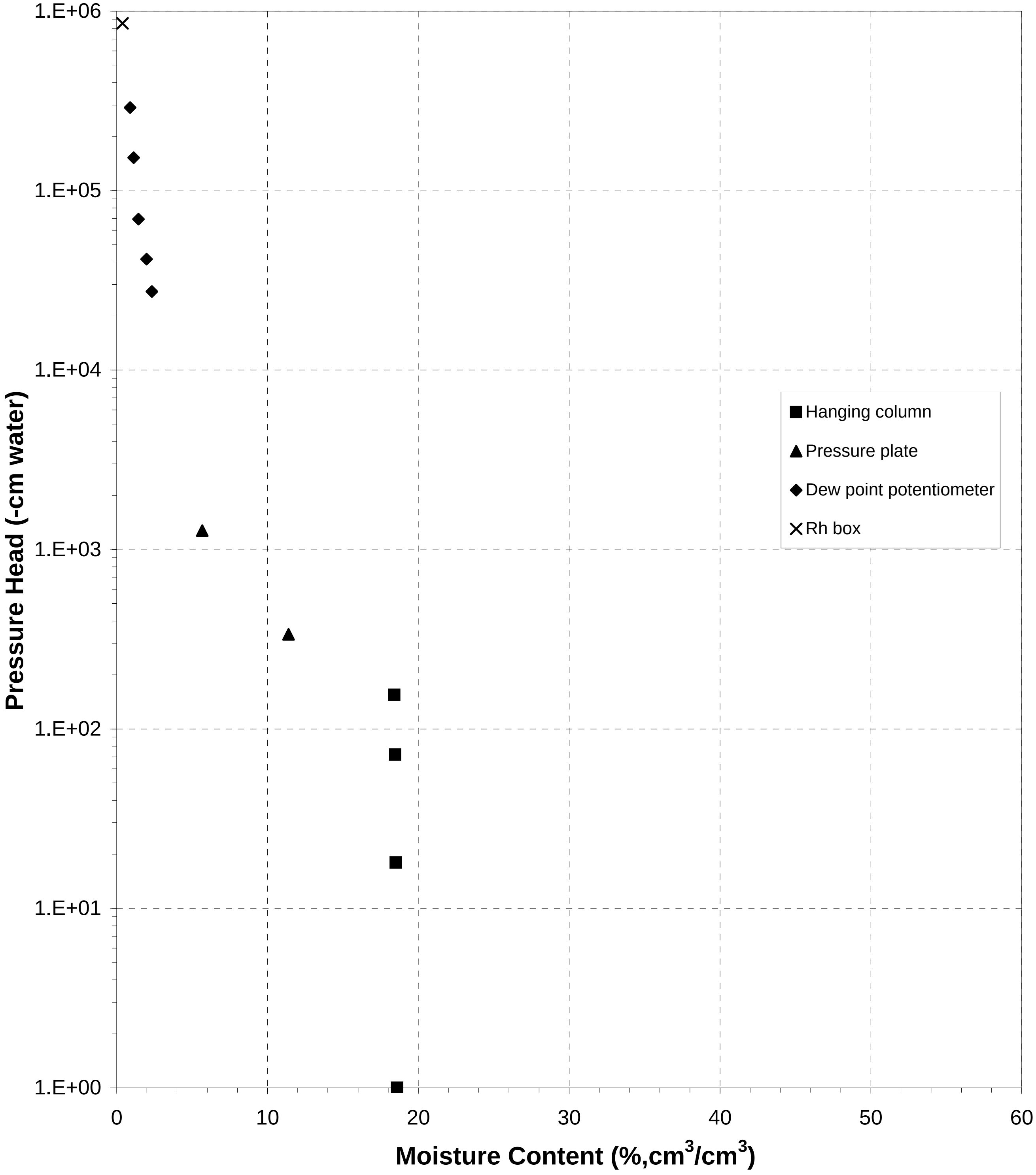
† Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

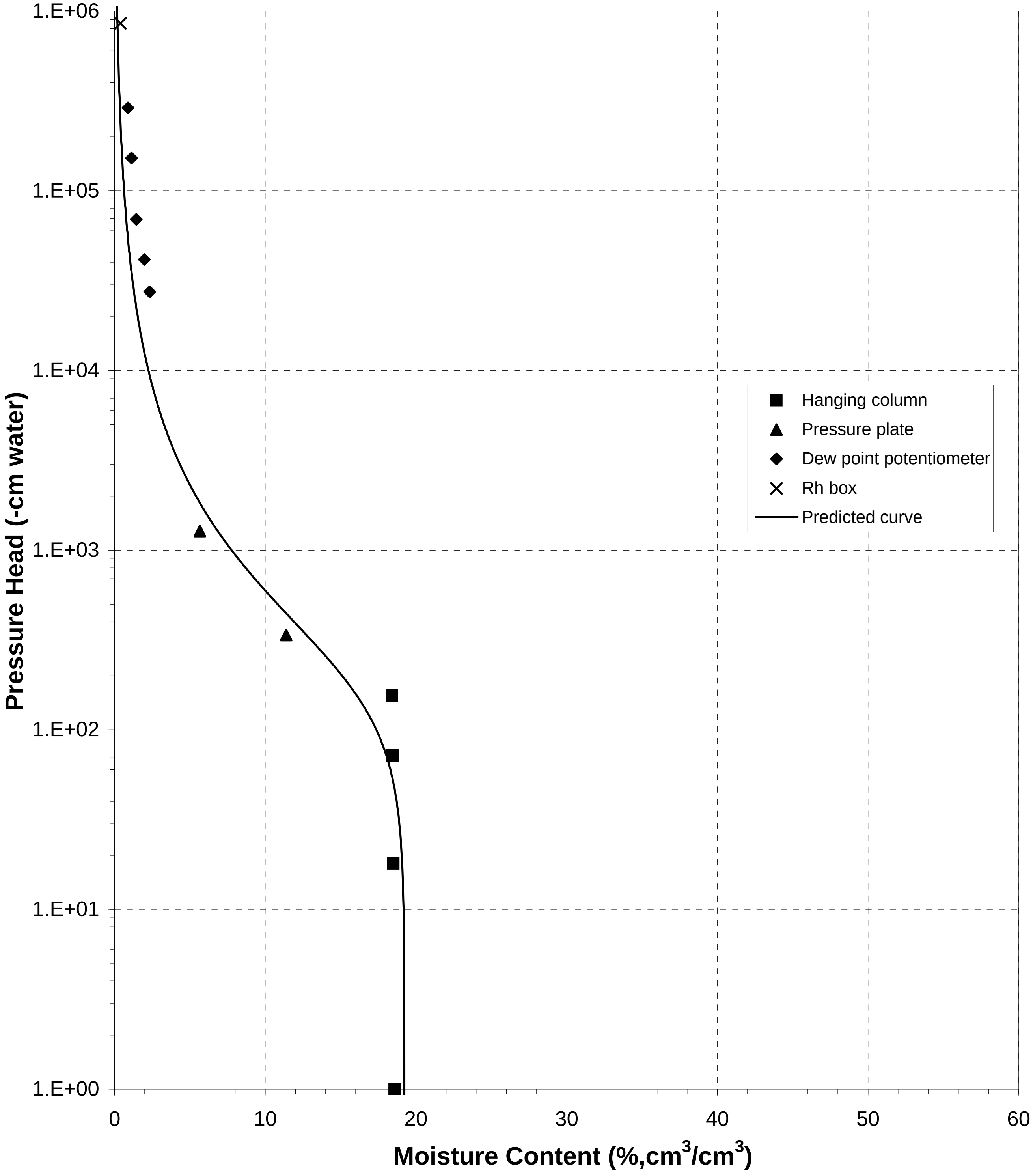
Water Retention Data Points

Sample Number: B031RC131-132.0



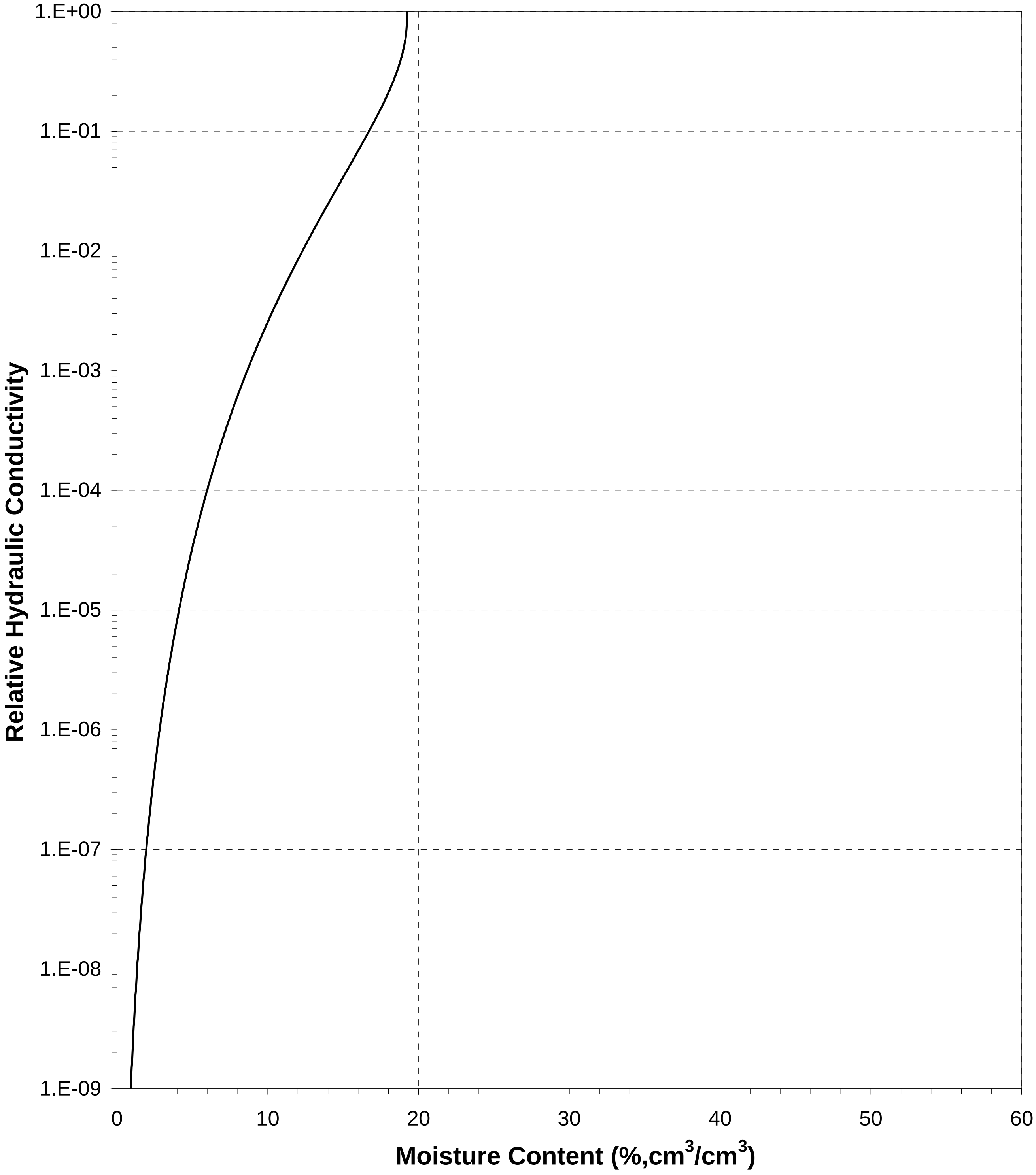
Predicted Water Retention Curve and Data Points

Sample Number: B031RC131-132.0



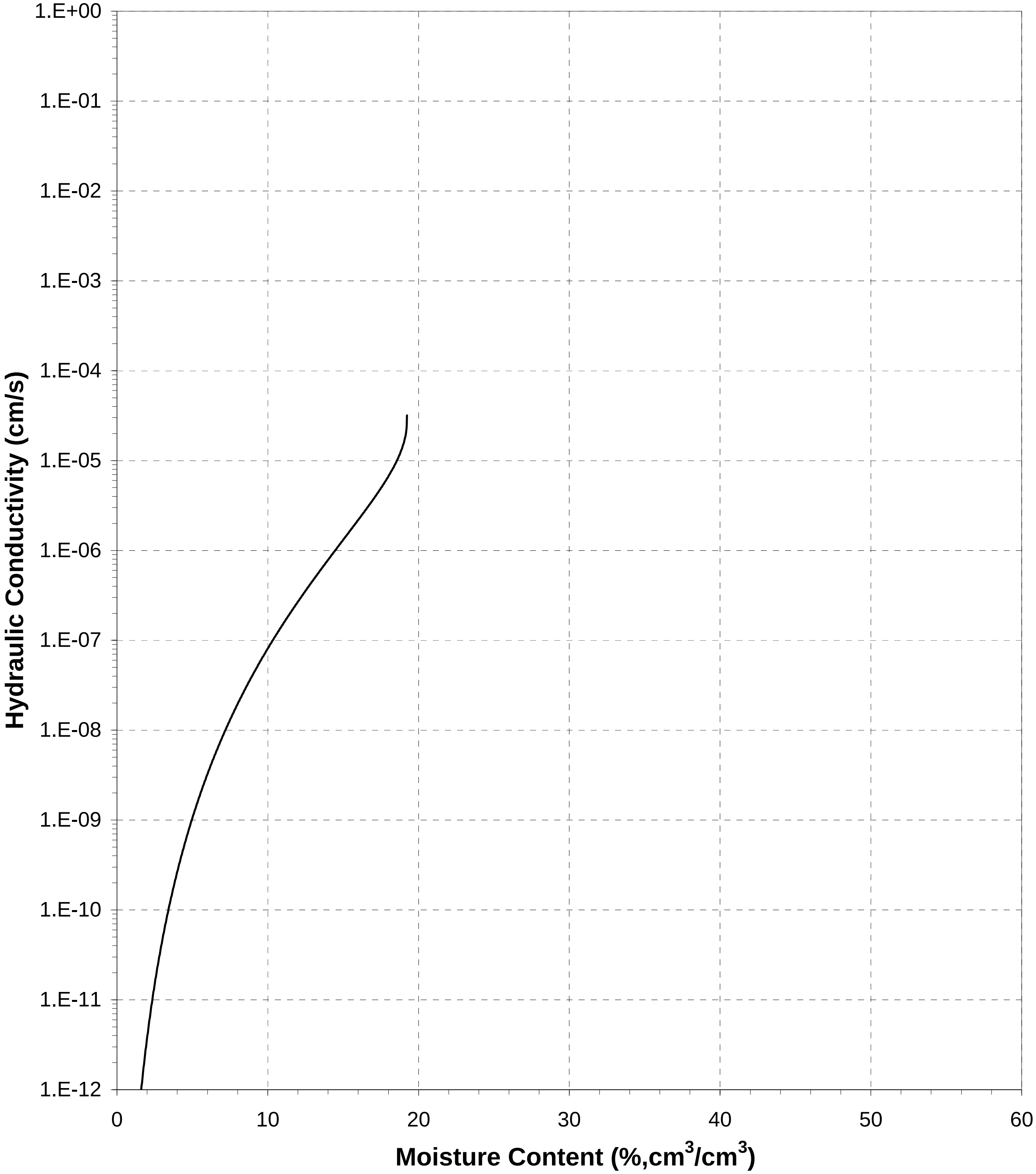
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: B031RC131-132.0



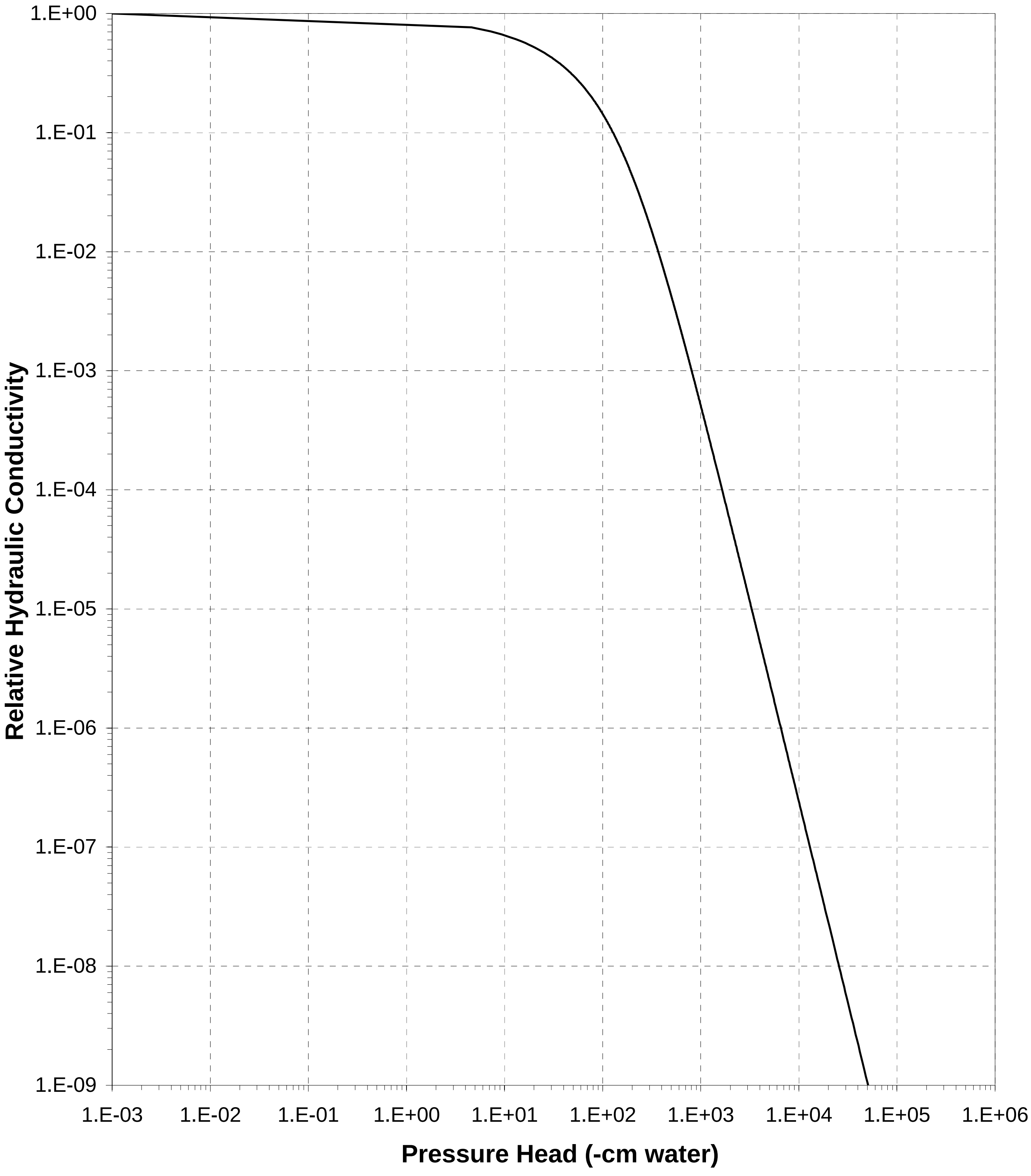
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: B031RC131-132.0



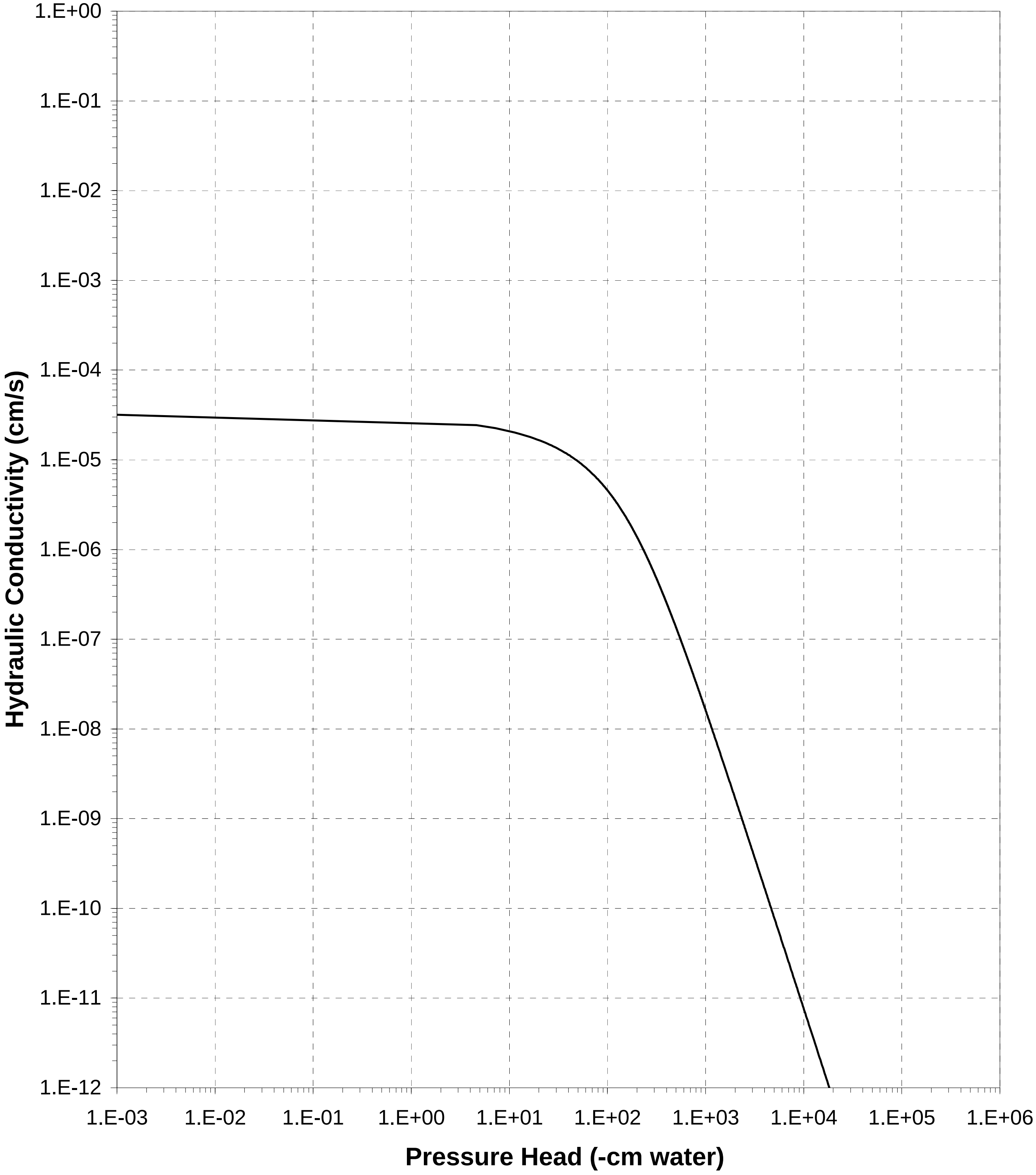
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: B031RC131-132.0



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: B031RC131-132.0



Moisture Retention Data

Hanging Column / Pressure Plate

(Soil-Water Characteristic Curve)

Job Name:	Fluor-B&W Portsmouth LLC	*Dry wt. of sample* (g):	248.18
Job Number:	LB11.0188.00	*Tare wt., ring* (g):	151.95
Sample Number:	W001RC128-129.0	*Tare wt., screen & clamp* (g):	0.00
Date Sampled:	6/15/11	*Initial sample volume* (cm^3):	119.70
Depth:	128-129.0	*Initial dry bulk density* (g/cm^3):	2.07
		Measured particle density (g/cm^3):	2.64
		Initial calculated total porosity (%):	21.48

	Date	Time	Weight* (g)	Matric Potential (-cm water)	Moisture Content† (% vol)
Hanging column:	15-Sep-11	13:15	422.88	0	19.01
	3-Oct-11	15:10	423.09	22.0	19.18
	10-Oct-11	10:30	423.18	80.0	19.26
	17-Oct-11	13:10	422.05	173.0	18.31
Pressure plate:	2-Nov-11	16:15	411.66	337	9.63
	15-Nov-11	14:50	406.56	1275	5.37

Volume Adjusted Data[1]

	Matric Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calculated Porosity (%)
Hanging column:	0.0	---	---	---	---
	22.0	---	---	---	---
	80.0	---	---	---	---
	173.0	---	---	---	---
Pressure plate:	337	---	---	---	---
	1275	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. 'Volume Adjusted' values represent each of the volume change measurements obtained after saturated hydraulic conductivity testing and throughout hanging column/pressure plate testing. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

† Assumed density of water is 1.0 g/cm^3

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Technician Notes:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

Moisture Retention Data

Dew Point Potentiometer / Relative Humidity Box

(Soil-Water Characteristic Curve)

Sample Number: W001RC128-129.0

Initial sample bulk density (g/cm^3)*:* 2.07
Fraction of bulk sample used (<2.00mm fraction) (%): 100.00

Dry weight of dew point potentiometer sample* (g)*:* 180.36
Tare weight, jar (g)*:* 114.27

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content† (% vol)
Dew point potentiometer:	7-Oct-11	10:15	180.98	25291	1.95
	14-Sep-11	10:30	180.88	35693	1.63
	7-Oct-11	9:03	180.74	89538	1.19
	6-Oct-11	14:50	180.66	196108	0.94
	6-Oct-11	14:16	180.63	324602	0.85
	13-Sep-11	11:18	180.56	660321	0.63

Volume Adjusted Data[1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Dew point potentiometer:	25291	---	---	---	---
	35693	---	---	---	---
	89538	---	---	---	---
	196108	---	---	---	---
	324602	---	---	---	---
	660321	---	---	---	---

Dry weight of relative humidity box sample* (g)*:* 83.90
Tare weight (g)*:* 42.30

	Date	Time	Weight* (g)	Water Potential (-cm water)	Moisture Content† (% vol)
Relative humidity box:	21-Sep-11	10:00	83.97	857025	0.34

Volume Adjusted Data[1]

	Water Potential (-cm water)	Adjusted Volume (cm^3)	% Volume Change[2] (%)	Adjusted Density (g/cm^3)	Adjusted Calc. Porosity (%)
Relative humidity box:	857025	---	---	---	---

Comments:

[1] Applicable if the sample experienced volume changes during testing. ‘Volume Adjusted’ values represent the volume change measurements obtained after the last hanging column or pressure plate point. "---" indicates no volume changes occurred.

[2] Represents percent volume change from original sample volume. A '+' denotes measured sample swelling, a '-' denotes measured sample settling, and '---' denotes no volume change occurred.

* Weight including tares

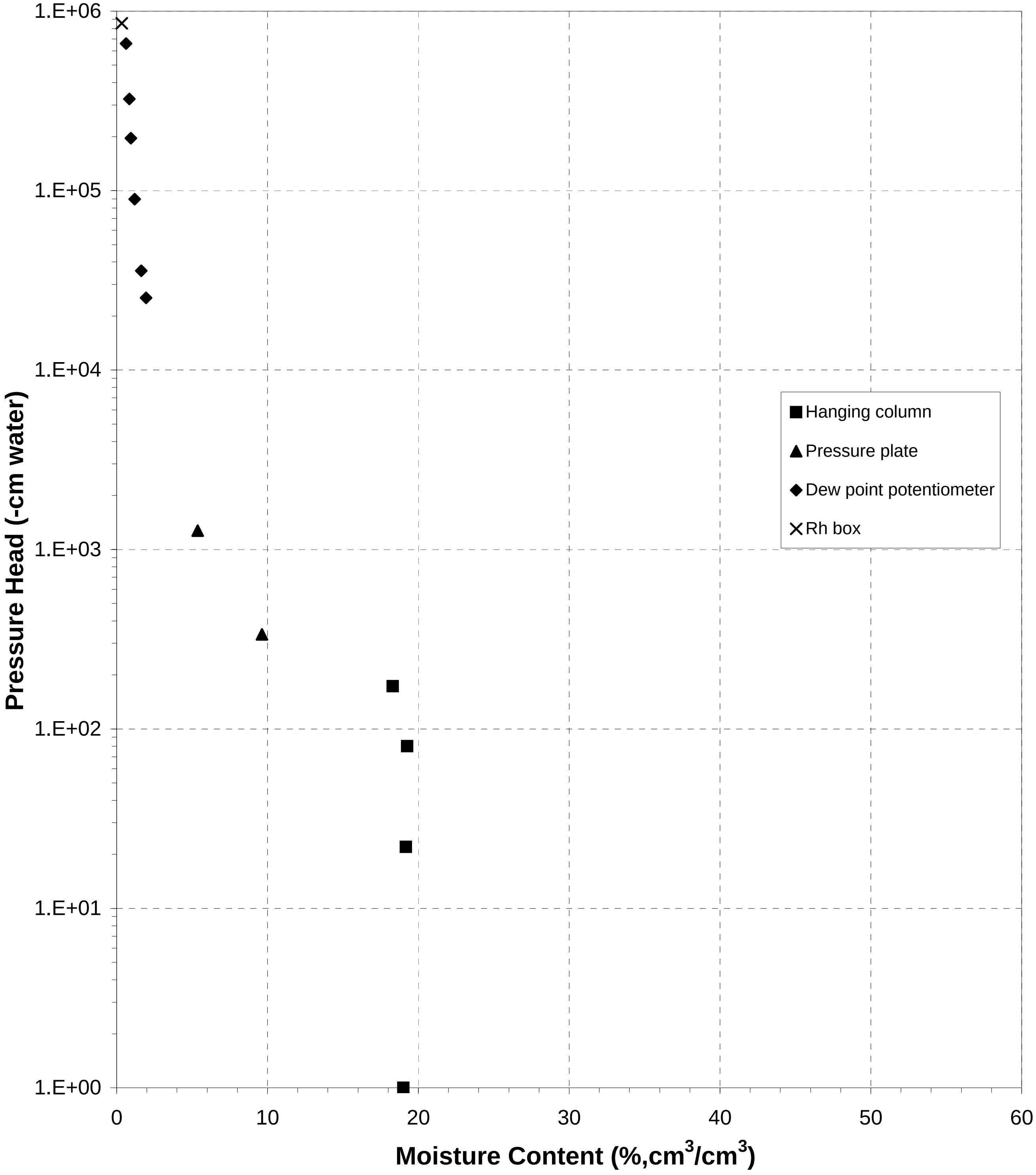
† Adjusted for >2.00mm (#10 sieve) material not used in DPP/RH testing. Assumed moisture content of material >2.00mm is zero, and assumed density of water is 1.0 g/cm^3.

‡‡ Volume adjustments are applicable at this matric potential (see comment #1). Changes in volume, if applicable, are estimated based on obtainable measurements of changes in sample length and diameter.

Laboratory analysis by: D. O'Dowd
Data entered by: C. Sessa
Checked by: J. Hines

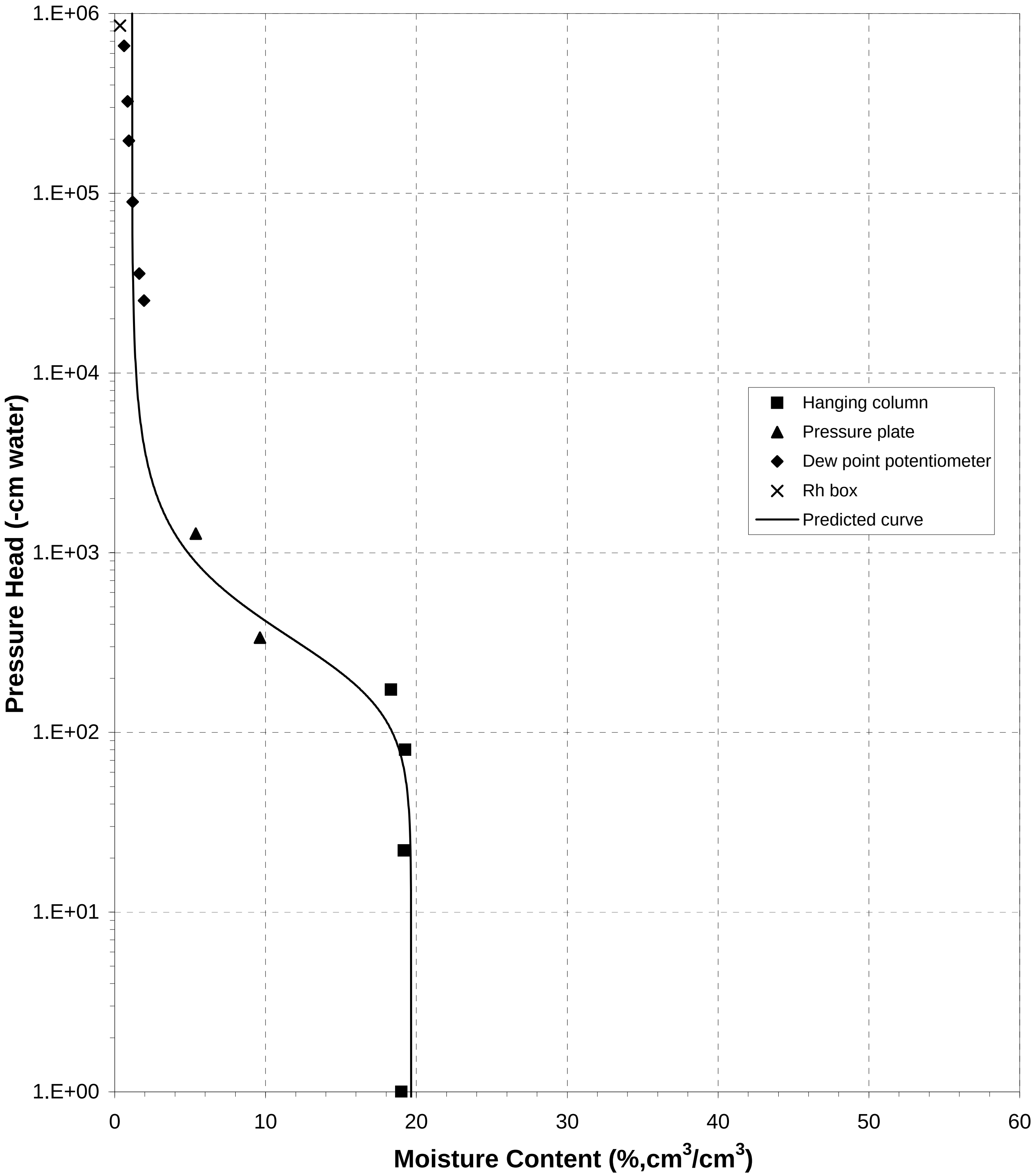
Water Retention Data Points

Sample Number: W001RC128-129.0



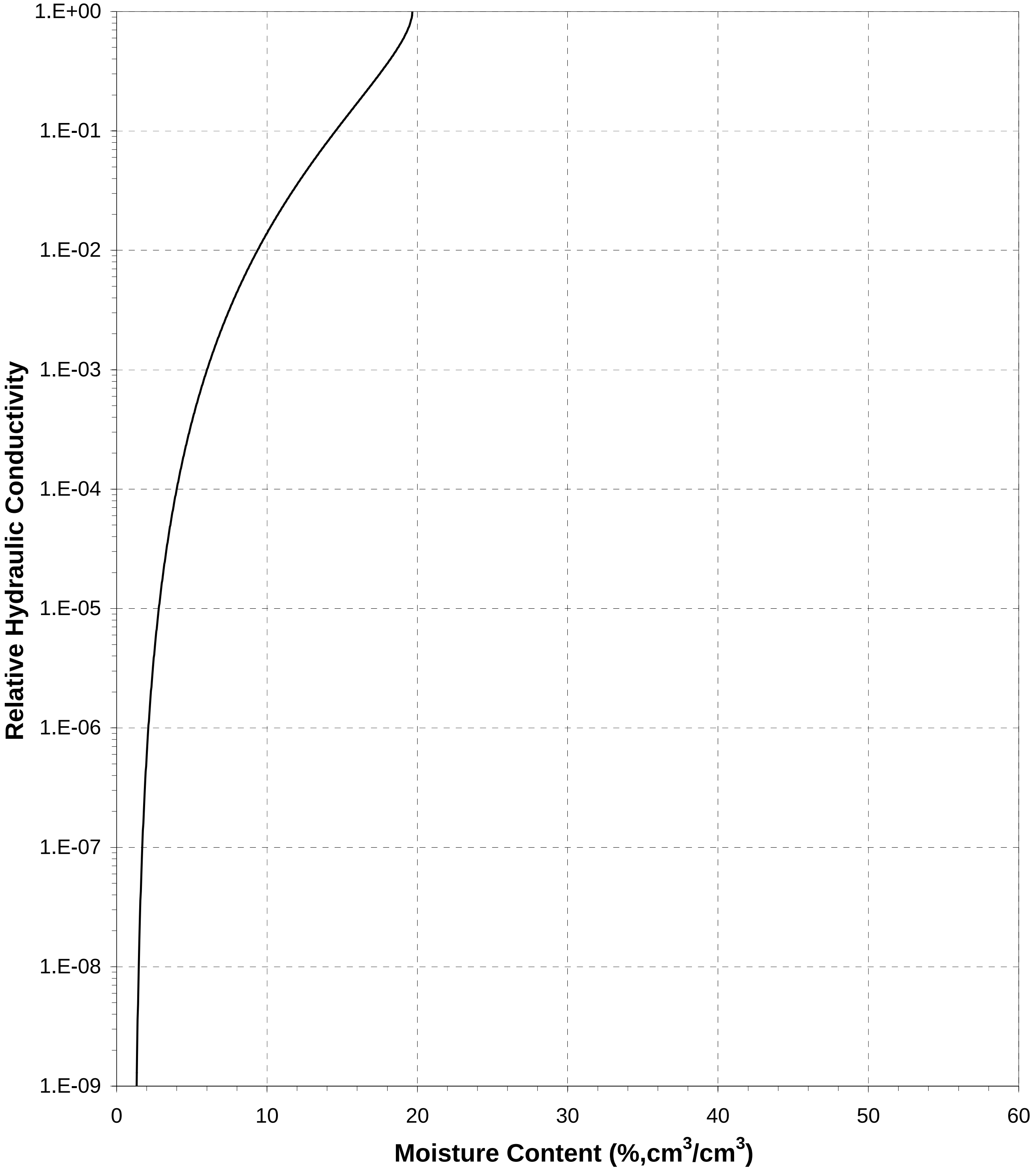
Predicted Water Retention Curve and Data Points

Sample Number: W001RC128-129.0



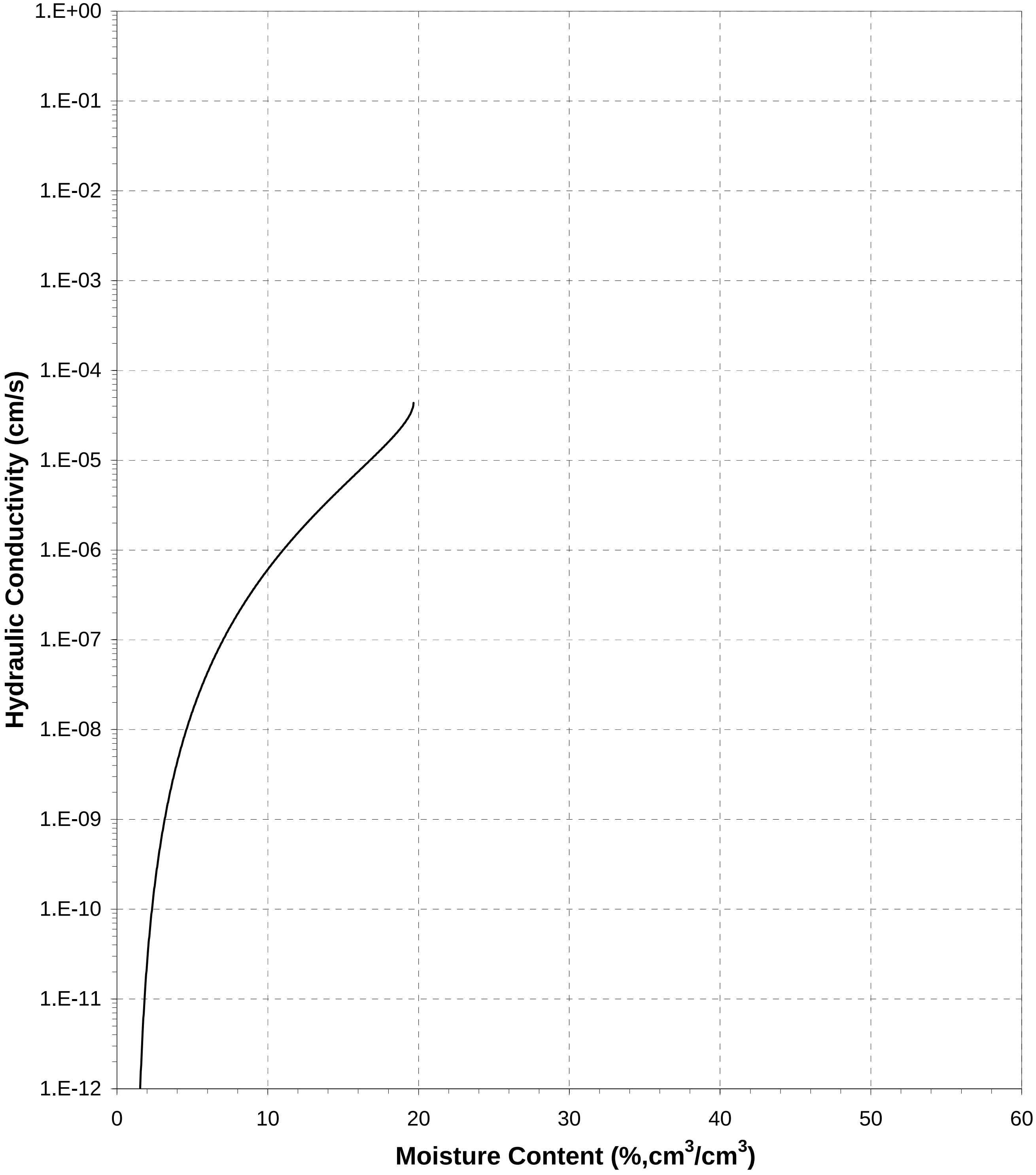
Plot of Relative Hydraulic Conductivity vs Moisture Content

Sample Number: W001RC128-129.0



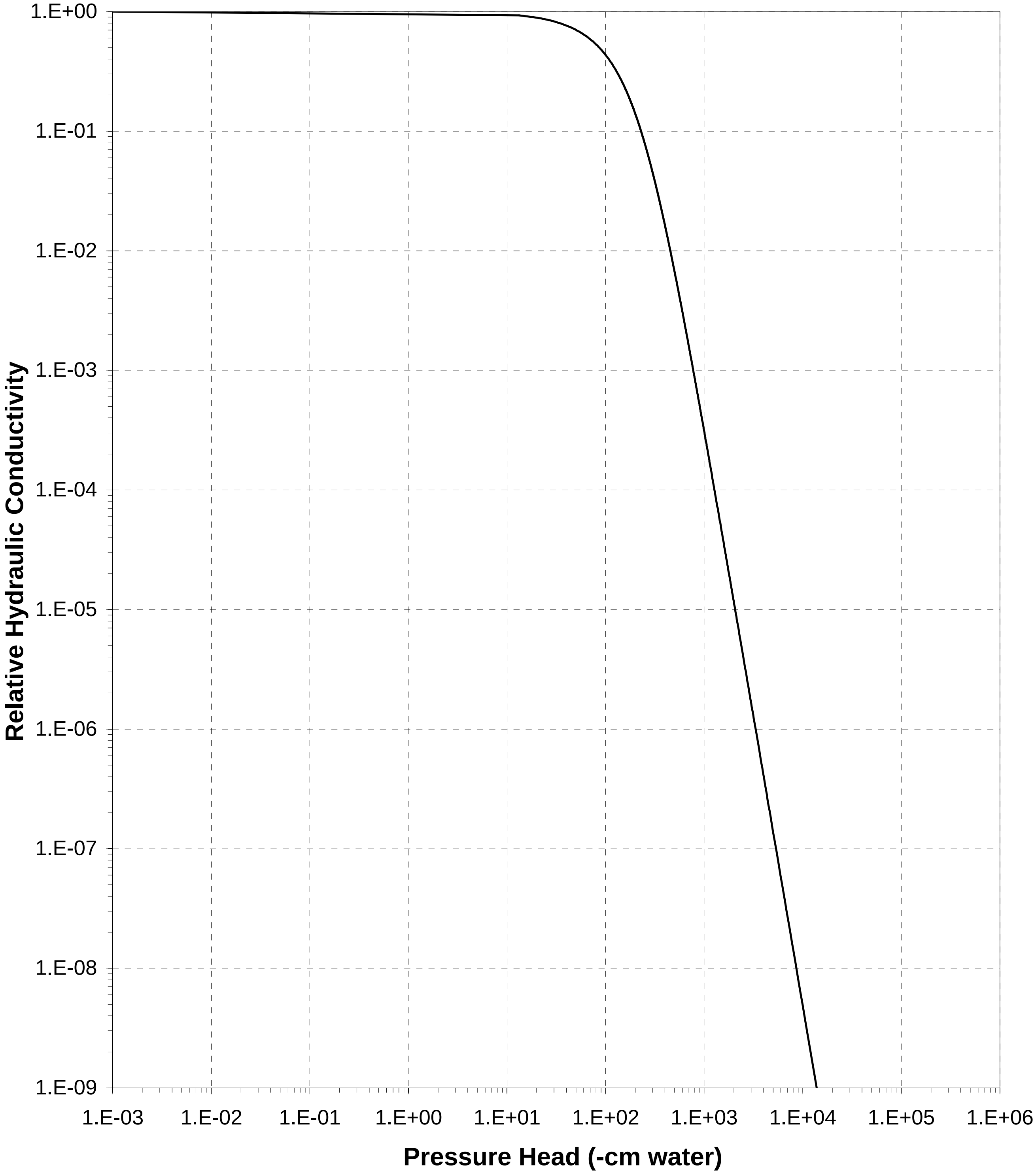
Plot of Hydraulic Conductivity vs Moisture Content

Sample Number: W001RC128-129.0



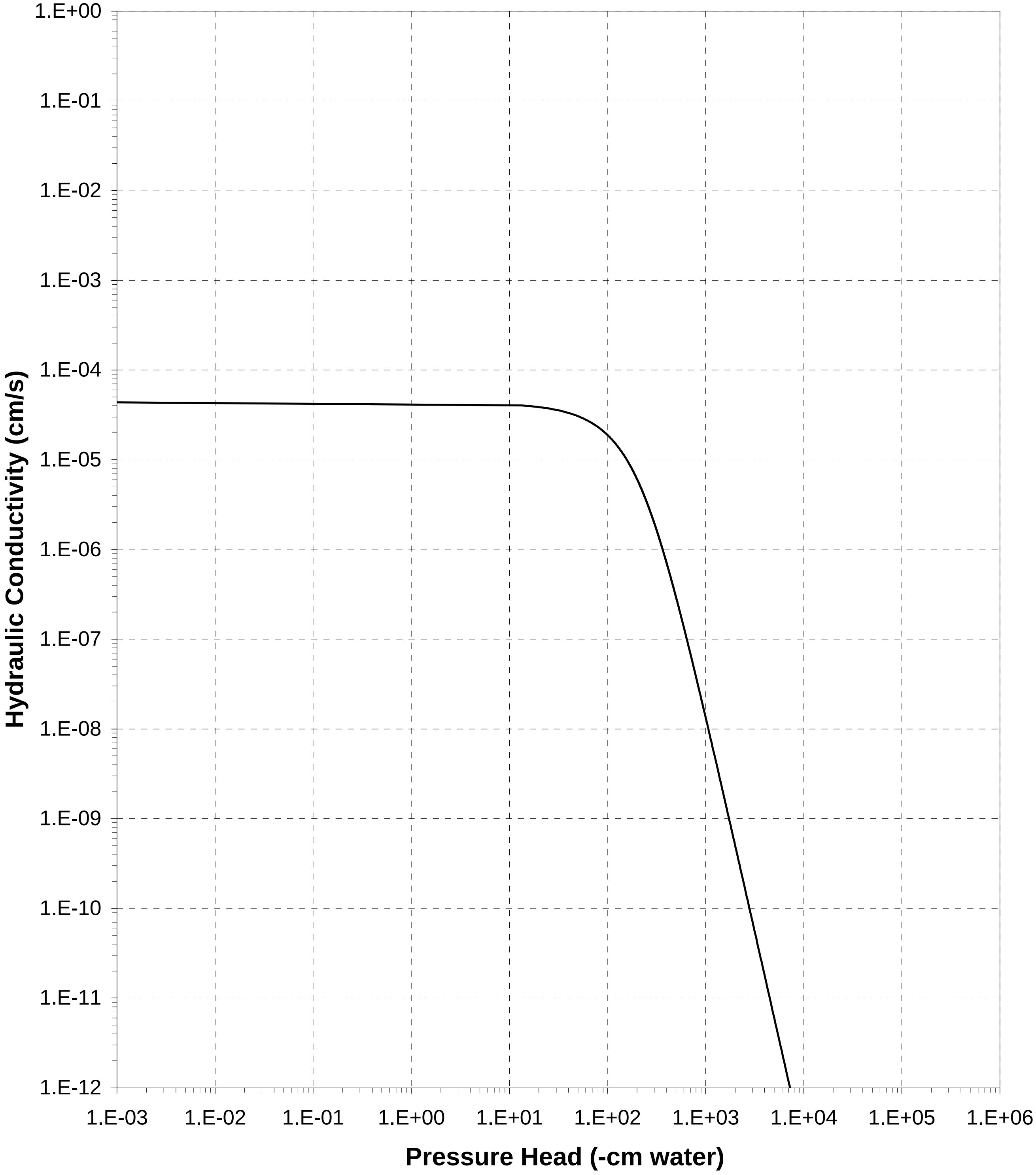
Plot of Relative Hydraulic Conductivity vs Pressure Head

Sample Number: W001RC128-129.0



Plot of Hydraulic Conductivity vs Pressure Head

Sample Number: W001RC128-129.0



Air Permeability

Summary of Air Permeability as a Function of Soil Water Content

Sample Number	Moisture Content (% cm^3/cm^3)	Intrinsic Permeability (cm^2)	
B007RC50.0-51.0 (As Received)	11.66	1.91E-13	
B007RC50.0-51.0 (Oven Dried)	11.66	3.30E-09	*
B007RC62.7-63.7 (As Received)	12.09	ND	
B007RC62.7-63.7 (Oven Dried)	12.09	5.07E-12	*
B009RC58.5-59.5 (As Received)	12.97	ND	
B009RC58.5-59.5 (Oven Dried)	12.97	2.04E-12	*
B009RC96.5-97.5 (As Received)	9.79	ND	
B009RC96.5-97.5 (Oven Dried)	9.79	1.04E-12	
B029RC19.0-20.0 (As Received)	23.87	4.03E-13	
B029RC19.0-20.0 (Oven Dried)	23.87	3.80E-12	
B029RC23.0-24.0 (As Received)	14.19	ND	
B029RC23.0-24.0 (Oven Dried)	14.19	5.63E-12	*
B029RC62.7-64.0 (As Received)	11.40	ND	
B029RC62.7-64.0 (Oven Dried)	11.40	2.68E-12	
B031RC54.0-55.0 (As Received)	13.60	1.02E-13	
B031RC54.0-55.0 (Oven Dried)	13.60	5.66E-12	*
B031RC67.0-68.0 (As Received)	10.88	1.14E-13	
B031RC67.0-68.0 (Oven Dried)	10.88	1.27E-12	

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec

* = Fractures visible, preferential flow suspected.

Summary of Air Permeability as a Function of Soil Water Content

Sample Number	Moisture Content (% cm^3/cm^3)	Intrinsic Permeability (cm^2)	
B031RC87.0-88.0 (As Received)	9.76	ND	
B031RC87.0-88.0 (Oven Dried)	9.76	4.37E-11	*
B031RC110-111.0 (As Received)	11.62	ND	
B031RC110-111.0 (Oven Dried)	11.62	2.64E-12	*
B031RC131-132.0 (As Received)	18.55	3.03E-12	
B031RC131-132.0 (Oven Dried)	18.55	9.80E-10	
W001RC128-129.0 (As Received)	12.69	9.41E-12	
W001RC128-129.0 (Oven Dried)	12.69	1.37E-09	

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec
* = Fractures visible, preferential flow suspected.

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B007RC50.0-51.0 (As Received)
Date Sampled: 8/26/11
Depth: 50.0-51.0

Test Date: 9-Sep-11

Sample length (cm): 3.99
Sample diameter (cm): 6.29

Sample x-sectional area (cm^2): 31.03
Sample volume (cm^3): 123.78

Type of fluid used: Compressed air
Rotometer type: #4213

Sample bulk density (g/cm^3): 2.35
Moisture content (% cm^3/cm^3): 11.66

	Test 1	Test 2	Test 3
Observed temperature (°C):	22.2	22.2	22.2
Inlet pressure (cm):	655.43	385.36	316.27
Outlet pressure (cm):	0.06	-0.04	-0.04
Rotometer reading:	20.0	9.5	3.0
Flow (cm^3/sec):	0.0115	0.0037	0.0009
Viscosity (c-poise):	0.01829	0.01829	0.01828
Air permeability (m-darcies):	3.24E-02	1.97E-02	5.99E-03
Air permeability (cm^2):	3.19E-13	1.94E-13	5.92E-14

***Average air permeability* (m-darcies): 1.94E-02**
***Average air permeability* (cm^2): 1.91E-13**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B007RC50.0-51.0 (Oven Dried)
Date Sampled: 8/26/11
Depth: 50.0-51.0

Test Date: 21-Nov-11

Sample length (cm):	4.02	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.26	*Rotometer type:*	Other
Sample x-sectional area (cm^2):	30.82	*Sample bulk density* (g/cm^3):	2.35
Sample volume (cm^3):	123.78	*Moisture content* (% cm^3/cm^3):	11.66

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	22.3	22.3	22.3
Inlet pressure (cm):	1076.50	351.80	175.90
Outlet pressure (cm):	738.80	190.00	77.40
Rotometer reading:	5.0	3.3	2.0
Flow (cm^3/sec):	39.3300	25.5645	15.7320
Viscosity (c-poise):	0.01829	0.01829	0.01829
Air permeability (m-darcies):	2.62E+02	3.65E+02	3.77E+02
Air permeability (cm^2):	2.58E-09	3.60E-09	3.72E-09

***Average air permeability* (m-darcies): 3.35E+02**
***Average air permeability* (cm^2): 3.30E-09**

Technician Comments: Cracks visible on sample post oven drying, potential preferential flow.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B007RC62.7-63.7 (As Received)
Date Sampled: 8/26/11
Depth: 62.7-63.7

Test Date: 8-Sep-11

Sample length (cm): 3.78
Sample diameter (cm): 5.01

Sample x-sectional area (cm^2): 19.75
Sample volume (cm^3): 74.66

Type of fluid used: Compressed air
Rotometer type: #4213

Sample bulk density (g/cm^3): 2.15
Moisture content (% cm^3/cm^3): 12.09

Test 1		**Test 2**		**Test 3**	
Observed temperature (°C):	22.1	*Observed temperature* (°C):	22.2	*Observed temperature* (°C):	22.2
Inlet pressure (cm):	478.14	*Inlet pressure* (cm):	132.31	*Inlet pressure* (cm):	44.12
Outlet pressure (cm):	-0.21	*Outlet pressure* (cm):	-0.21	*Outlet pressure* (cm):	-0.21
Rotometer reading:	0.0	*Rotometer reading:*	0.0	*Rotometer reading:*	0.0
Flow (cm^3/sec):	ND	*Flow* (cm^3/sec):	ND	*Flow* (cm^3/sec):	ND
Viscosity (c-poise):	0.01828	*Viscosity* (c-poise):	0.01828	*Viscosity* (c-poise):	0.01829
Air permeability (m-darcies):	<2.79E-03	*Air permeability* (m-darcies):	<1.17E-02	*Air permeability* (m-darcies):	<3.64E-02
Air permeability (cm^2):	<2.76E-14	*Air permeability* (cm^2):	<1.15E-13	*Air permeability* (cm^2):	<3.59E-13

***Average air permeability* (m-darcies):** **ND**
***Average air permeability* (cm^2):** **ND**

Comments:

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec at the applied air pressure.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B007RC62.7-63.7 (Oven Dried)
Date Sampled: 8/26/11
Depth: 62.7-63.7

Test Date: 21-Nov-11

Sample length (cm)*:* 2.42
Sample diameter (cm)*:* 6.26

Sample x-sectional area (cm^2)*:* 30.81
Sample volume (cm^3)*:* 74.66

Type of fluid used: Compressed air
Rotometer type: #4213

Sample bulk density (g/cm^3)*:* 2.15
Moisture content (% cm^3/cm^3)*:* 12.09

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C)*:*	22.4	22.4	22.5
Inlet pressure (cm)*:*	1076.50	365.90	190.00
Outlet pressure (cm)*:*	795.00	267.40	133.70
Rotometer reading:	95.5	35.0	21.5
Flow (cm^3/sec)*:*	0.1497	0.0315	0.0136
Viscosity (c-poise)*:*	0.01830	0.01830	0.01830
Air permeability (m-darcies)*:*	7.34E-01	4.58E-01	3.51E-01
Air permeability (cm^2)*:*	7.24E-12	4.52E-12	3.46E-12

Average air permeability* (m-darcies)*: **5.14E-01**
Average air permeability* (cm^2)*: **5.07E-12**

Technician Comments: Cracks visible on sample post oven drying.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B009RC58.5-59.5 (As Received)
Date Sampled: 8/26/11
Depth: 58.5-59.5

Test Date: 9-Sep-11

Sample length (cm):	3.53	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.34	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	31.53	*Sample bulk density* (g/cm^3):	2.30
Sample volume (cm^3):	111.33	*Moisture content* (% cm^3/cm^3):	12.97

	Test 1	Test 2	Test 3
Observed temperature (°C):	22.3	22.3	22.3
Inlet pressure (cm):	797.76	228.04	74.54
Outlet pressure (cm):	0.14	0.14	0.14
Rotometer reading:	0.0	0.0	0.0
Flow (cm^3/sec):	ND	ND	ND
Viscosity (c-poise):	0.01829	0.01829	0.01829
Air permeability (m-darcies):	<8.71E-04	<3.81E-03	<1.25E-02
Air permeability (cm^2):	<8.60E-15	<3.76E-14	<1.23E-13

***Average air permeability* (m-darcies):** **ND**
***Average air permeability* (cm^2):** **ND**

Comments:

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec at the applied air pressure.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B009RC58.5-59.5 (Oven Dried)
Date Sampled: 8/26/11
Depth: 58.5-59.5

Test Date: 18-Nov-11

Sample length (cm): 3.53
Sample diameter (cm): 6.34

Sample x-sectional area (cm^2): 31.53
Sample volume (cm^3): 111.33

Type of fluid used: Compressed air
Rotometer type: #4213

Sample bulk density (g/cm^3): 2.30
Moisture content (% cm^3/cm^3): 12.97

	Test 1	Test 2	Test 3
Observed temperature (°C):	23.0	23.0	23.0
Inlet pressure (cm):	1076.50	365.90	182.90
Outlet pressure (cm):	42.20	14.10	7.00
Rotometer reading:	86.0	47.0	23.0
Flow (cm^3/sec):	0.1327	0.0530	0.0148
Viscosity (c-poise):	0.01833	0.01832	0.01832
Air permeability (m-darcies):	1.84E-01	2.74E-01	1.65E-01
Air permeability (cm^2):	1.81E-12	2.70E-12	1.62E-12

***Average air permeability* (m-darcies): 2.08E-01**
***Average air permeability* (cm^2): 2.04E-12**

Technician Comments: Horizontal fracturing on sample upon removal of silicone.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B009RC96.5-97.5 (As Received)
Date Sampled: 8/26/11
Depth: 96.5-97.5

Test Date: 8-Sep-11

Sample length (cm): 3.86
Sample diameter (cm): 6.33

Sample x-sectional area (cm^2): 31.51
Sample volume (cm^3): 121.64

Type of fluid used: Compressed air
Rotometer type: #4213

Sample bulk density (g/cm^3): 2.42
Moisture content (% cm^3/cm^3): 9.79

	Test 1	Test 2	Test 3
Observed temperature (°C):	21.9	22.0	22.0
Inlet pressure (cm):	613.34	174.93	59.25
Outlet pressure (cm):	-0.04	-0.28	-0.32
Rotometer reading:	0.0	0.0	0.0
Flow (cm^3/sec):	ND	ND	ND
Viscosity (c-poise):	0.01827	0.01828	0.01828
Air permeability (m-darcies):	<1.32E-03	<5.54E-03	<1.72E-02
Air permeability (cm^2):	<1.31E-14	<5.47E-14	<1.70E-13

***Average air permeability* (m-darcies):** **ND**
***Average air permeability* (cm^2):** **ND**

Comments:

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec at the applied air pressure.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B009RC96.5-97.5 (Oven Dried)
Date Sampled: 8/26/11
Depth: 96.5-97.5

Test Date: 21-Nov-11

Sample length (cm):	3.90	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.30	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	31.19	*Sample bulk density* (g/cm^3):	2.42
Sample volume (cm^3):	121.64	*Moisture content* (% cm^3/cm^3):	9.79

Test 1		**Test 2**		**Test 3**	
Observed temperature (°C):	22.5	*Observed temperature* (°C):	22.6	*Observed temperature* (°C):	22.5
Inlet pressure (cm):	2138.90	*Inlet pressure* (cm):	724.70	*Inlet pressure* (cm):	372.90
Outlet pressure (cm):	14.10	*Outlet pressure* (cm):	7.00	*Outlet pressure* (cm):	7.00
Rotometer reading:	92.0	*Rotometer reading:*	47.0	*Rotometer reading:*	27.0
Flow (cm^3/sec):	0.1432	*Flow* (cm^3/sec):	0.0530	*Flow* (cm^3/sec):	0.0197
Viscosity (c-poise):	0.01830	*Viscosity* (c-poise):	0.01830	*Viscosity* (c-poise):	0.01830
Air permeability (m-darcies):	7.91E-02	*Air permeability* (m-darcies):	1.30E-01	*Air permeability* (m-darcies):	1.08E-01
Air permeability (cm^2):	7.81E-13	*Air permeability* (cm^2):	1.28E-12	*Air permeability* (cm^2):	1.07E-12

***Average air permeability* (m-darcies):** **1.06E-01**
***Average air permeability* (cm^2):** **1.04E-12**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B029RC19.0-20.0 (As Received)
Date Sampled: 8/29/11
Depth: 19.0-20.0

Test Date: 9-Sep-11

Sample length (cm):	3.61	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.28	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	30.97	*Sample bulk density* (g/cm^3):	2.24
Sample volume (cm^3):	111.78	*Moisture content* (% cm^3/cm^3):	23.87

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	22.1	22.2	22.2
Inlet pressure (cm):	686.14	265.83	129.68
Outlet pressure (cm):	0.10	0.06	0.02
Rotometer reading:	27.0	15.5	3.5
Flow (cm^3/sec):	0.0197	0.0078	0.0011
Viscosity (c-poise):	0.01828	0.01829	0.01829
Air permeability (m-darcies):	4.75E-02	5.73E-02	1.76E-02
Air permeability (cm^2):	4.69E-13	5.65E-13	1.74E-13

***Average air permeability* (m-darcies): 4.08E-02**
***Average air permeability* (cm^2): 4.03E-13**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B029RC19.0-20.0 (Oven Dried)
Date Sampled: 8/29/11
Depth: 19.0-20.0

Test Date: 11-Nov-11

Sample length (cm):	3.61	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.28	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	30.97	*Sample bulk density* (g/cm^3):	2.24
Sample volume (cm^3):	111.78	*Moisture content* (% cm^3/cm^3):	23.87

Test 1		**Test 2**		**Test 3**	
Observed temperature (°C):	20.0	*Observed temperature* (°C):	20.1	*Observed temperature* (°C):	20.1
Inlet pressure (cm):	928.10	*Inlet pressure* (cm):	541.40	*Inlet pressure* (cm):	182.80
Outlet pressure (cm):	218.00	*Outlet pressure* (cm):	133.60	*Outlet pressure* (cm):	49.20
Rotometer reading:	87.5	*Rotometer reading:*	70.0	*Rotometer reading:*	30.0
Flow (cm^3/sec):	0.1362	*Flow* (cm^3/sec):	0.1008	*Flow* (cm^3/sec):	0.0238
Viscosity (c-poise):	0.01818	*Viscosity* (c-poise):	0.01818	*Viscosity* (c-poise):	0.01818
Air permeability (m-darcies):	3.27E-01	*Air permeability* (m-darcies):	4.61E-01	*Air permeability* (m-darcies):	3.68E-01
Air permeability (cm^2):	3.23E-12	*Air permeability* (cm^2):	4.55E-12	*Air permeability* (cm^2):	3.63E-12

***Average air permeability* (m-darcies):** **3.85E-01**
***Average air permeability* (cm^2):** **3.80E-12**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Krous
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B029RC23.0-24.0 (As Received)
Date Sampled: 8/29/11
Depth: 23.0-24.0

Test Date: 10-Sep-11

Sample length (cm):	3.75	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.36	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	31.76	*Sample bulk density* (g/cm^3):	2.27
Sample volume (cm^3):	119.18	*Moisture content* (% cm^3/cm^3):	14.19

	Test 1	Test 2	Test 3
Observed temperature (°C):	22.0	22.1	22.1
Inlet pressure (cm):	601.67	172.65	57.64
Outlet pressure (cm):	0.02	-0.26	-0.26
Rotometer reading:	0.0	0.0	0.0
Flow (cm^3/sec):	ND	ND	ND
Viscosity (c-poise):	0.01828	0.01828	0.01828
Air permeability (m-darcies):	<1.31E-03	<5.42E-03	<1.71E-02
Air permeability (cm^2):	<1.29E-14	<5.35E-14	<1.68E-13

***Average air permeability* (m-darcies):** **ND**
***Average air permeability* (cm^2):** **ND**

Comments:

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec at the applied air pressure.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Daniel B. Stephens & Associates, Inc.

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B029RC23.0-24.0 (Oven Dried)
Date Sampled: 8/29/11
Depth: 23.0-24.0

Test Date: 21-Nov-11

Sample length (cm):	3.79	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.33	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	31.44	*Sample bulk density* (g/cm^3):	2.27
Sample volume (cm^3):	119.18	*Moisture content* (% cm^3/cm^3):	14.19

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	22.5	22.4	22.5
Inlet pressure (cm):	1069.40	365.90	182.90
Outlet pressure (cm):	675.40	218.10	112.60
Rotometer reading:	93.0	37.5	22.5
Flow (cm^3/sec):	0.1448	0.0365	0.0136
Viscosity (c-poise):	0.01830	0.01830	0.01830
Air permeability (m-darcies):	7.51E-01	5.32E-01	4.28E-01
Air permeability (cm^2):	7.42E-12	5.25E-12	4.22E-12

***Average air permeability* (m-darcies):** **5.70E-01**
***Average air permeability* (cm^2):** **5.63E-12**

Technician Comments: Cracks visible on sample post oven drying.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B029RC62.7-64.0 (As Received)
Date Sampled: 8/29/11
Depth: 62.7-64.0

Test Date: 13-Sep-11

Sample length (cm):	3.79	*Type of fluid used:*	Compressed air
Sample diameter (cm):	5.35	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	22.48	*Sample bulk density* (g/cm^3):	2.18
Sample volume (cm^3):	85.14	*Moisture content* (% cm^3/cm^3):	11.40

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	22.0	22.1	22.1
Inlet pressure (cm):	654.11	189.43	61.90
Outlet pressure (cm):	0.42	-0.28	-0.23
Rotometer reading:	0.0	0.0	0.0
Flow (cm^3/sec):	ND	ND	ND
Viscosity (c-poise):	0.01828	0.01828	0.01828
Air permeability (m-darcies):	<1.68E-03	<6.99E-03	<2.26E-02
Air permeability (cm^2):	<1.66E-14	<6.90E-14	<2.23E-13

***Average air permeability* (m-darcies):** **ND**
***Average air permeability* (cm^2):** **ND**

Comments:

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec at the applied air pressure.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B029RC62.7-64.0 (Oven Dried)
Date Sampled: 8/29/11
Depth: 62.7-64.0

Test Date: 21-Nov-11

Sample length (cm):	2.59	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.47	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	32.86	*Sample bulk density* (g/cm^3):	2.18
Sample volume (cm^3):	85.14	*Moisture content* (% cm^3/cm^3):	11.40

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	22.7	22.7	22.7
Inlet pressure (cm):	1069.40	365.90	182.90
Outlet pressure (cm):	140.70	56.30	28.10
Rotometer reading:	92.5	65.0	34.0
Flow (cm^3/sec):	0.1432	0.0902	0.0298
Viscosity (c-poise):	0.01831	0.01831	0.01831
Air permeability (m-darcies):	1.65E-01	3.81E-01	2.68E-01
Air permeability (cm^2):	1.63E-12	3.76E-12	2.64E-12

***Average air permeability* (m-darcies): 2.71E-01**
***Average air permeability* (cm^2): 2.68E-12**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC54.0-55.0 (As Received)
Date Sampled: 8/30/11
Depth: 54.0-55.0

Test Date: 13-Sep-11

Sample length (cm): 3.52
Sample diameter (cm): 6.30
Sample x-sectional area (cm^2): 31.19
Sample volume (cm^3): 109.66

Type of fluid used: Compressed air
Rotometer type: #4213
Sample bulk density (g/cm^3): 2.30
Moisture content (% cm^3/cm^3): 13.60

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	21.9	22.2	22.3
Inlet pressure (cm):	667.67	530.45	460.28
Outlet pressure (cm):	0.57	0.38	0.38
Rotometer reading:	14.5	10.0	4.5
Flow (cm^3/sec):	0.0062	0.0037	0.0011
Viscosity (c-poise):	0.01827	0.01829	0.01829
Air permeability (m-darcies):	1.50E-02	1.18E-02	4.17E-03
Air permeability (cm^2):	1.48E-13	1.17E-13	4.11E-14

***Average air permeability* (m-darcies): 1.03E-02**
***Average air permeability* (cm^2): 1.02E-13**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC54.0-55.0 (Oven Dried)
Date Sampled: 8/30/11
Depth: 54.0-55.0

Test Date: 21-Nov-11

Sample length (cm):	3.52	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.30	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	31.19	*Sample bulk density* (g/cm^3):	2.30
Sample volume (cm^3):	109.66	*Moisture content* (% cm^3/cm^3):	13.60

Test 1		**Test 2**		**Test 3**	
Observed temperature (°C):	22.9	*Observed temperature* (°C):	22.9	*Observed temperature* (°C):	22.9
Inlet pressure (cm):	1076.50	*Inlet pressure* (cm):	365.90	*Inlet pressure* (cm):	190.00
Outlet pressure (cm):	175.90	*Outlet pressure* (cm):	91.50	*Outlet pressure* (cm):	56.30
Rotometer reading:	95.0	*Rotometer reading:*	66.0	*Rotometer reading:*	48.0
Flow (cm^3/sec):	0.1480	*Flow* (cm^3/sec):	0.0923	*Flow* (cm^3/sec):	0.0550
Viscosity (c-poise):	0.01832	*Viscosity* (c-poise):	0.01832	*Viscosity* (c-poise):	0.01832
Air permeability (m-darcies):	2.56E-01	*Air permeability* (m-darcies):	6.40E-01	*Air permeability* (m-darcies):	8.27E-01
Air permeability (cm^2):	2.52E-12	*Air permeability* (cm^2):	6.31E-12	*Air permeability* (cm^2):	8.16E-12

***Average air permeability* (m-darcies): 5.74E-01**
***Average air permeability* (cm^2): 5.66E-12**

Technician Comments: Cracks visible on sample post oven drying, potential preferential flow.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC67.0-68.0 (As Received)
Date Sampled: 8/30/11
Depth: 67.0-68.0

Test Date: 15-Sep-11

Sample length (cm):	3.67	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.23	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	30.44	*Sample bulk density* (g/cm^3):	2.59
Sample volume (cm^3):	111.61	*Moisture content* (% cm^3/cm^3):	10.88

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	21.9	22.0	22.0
Inlet pressure (cm):	677.69	265.67	197.87
Outlet pressure (cm):	0.04	0.04	0.06
Rotometer reading:	15.0	5.0	2.5
Flow (cm^3/sec):	0.0070	0.0014	0.0006
Viscosity (c-poise):	0.01827	0.01828	0.01828
Air permeability (m-darcies):	1.77E-02	1.06E-02	6.30E-03
Air permeability (cm^2):	1.75E-13	1.05E-13	6.22E-14

***Average air permeability* (m-darcies): 1.15E-02**
***Average air permeability* (cm^2): 1.14E-13**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC67.0-68.0 (Oven Dried)
Date Sampled: 8/30/11
Depth: 67.0-68.0

Test Date: 11-Nov-11

Sample length (cm):	3.67	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.23	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	30.44	*Sample bulk density* (g/cm^3):	2.59
Sample volume (cm^3):	111.61	*Moisture content* (% cm^3/cm^3):	10.88

Test 1		**Test 2**		**Test 3**	
Observed temperature (°C):	20.2	*Observed temperature* (°C):	20.3	*Observed temperature* (°C):	20.4
Inlet pressure (cm):	935.10	*Inlet pressure* (cm):	541.40	*Inlet pressure* (cm):	182.80
Outlet pressure (cm):	42.20	*Outlet pressure* (cm):	21.10	*Outlet pressure* (cm):	7.03
Rotometer reading:	65.0	*Rotometer reading:*	35.0	*Rotometer reading:*	18.5
Flow (cm^3/sec):	0.0902	*Flow* (cm^3/sec):	0.0315	*Flow* (cm^3/sec):	0.0096
Viscosity (c-poise):	0.01819	*Viscosity* (c-poise):	0.01819	*Viscosity* (c-poise):	0.01820
Air permeability (m-darcies):	1.62E-01	*Air permeability* (m-darcies):	1.10E-01	*Air permeability* (m-darcies):	1.14E-01
Air permeability (cm^2):	1.60E-12	*Air permeability* (cm^2):	1.09E-12	*Air permeability* (cm^2):	1.13E-12

***Average air permeability* (m-darcies):** **1.29E-01**
***Average air permeability* (cm^2):** **1.27E-12**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: C. Krous
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC87.0-88.0 (As Received)
Date Sampled: 8/31/11
Depth: 87.0-88.0

Test Date: 15-Sep-11

Sample length (cm): 3.65
Sample diameter (cm): 6.30

Sample x-sectional area (cm^2): 31.22
Sample volume (cm^3): 113.84

Type of fluid used: Compressed air
Rotometer type: #4213

Sample bulk density (g/cm^3): 2.41
Moisture content (% cm^3/cm^3): 9.76

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	22.0	22.2	22.2
Inlet pressure (cm):	674.22	196.62	65.71
Outlet pressure (cm):	0.02	-0.17	-0.17
Rotometer reading:	0.0	0.0	0.0
Flow (cm^3/sec):	ND	ND	ND
Viscosity (c-poise):	0.01828	0.01829	0.01829
Air permeability (m-darcies):	<1.12E-03	<4.66E-03	<1.48E-02
Air permeability (cm^2):	<1.11E-14	<4.60E-14	<1.46E-13

***Average air permeability* (m-darcies):** **ND**
***Average air permeability* (cm^2):** **ND**

Comments:

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec at the applied air pressure.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Daniel B. Stephens & Associates, Inc.

Air Permeability Data

Job Name:	Fluor-B&W Portsmouth LLC
Job Number:	LB11.0188.00
Sample Number:	B031RC87.0-88.0 (Oven Dried)
Date Sampled:	8/31/11
Depth:	87.0-88.0
Test Date:	21-Nov-11

Sample length (cm):	3.67	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.28	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	31.00	*Sample bulk density* (g/cm^3):	2.41
Sample volume (cm^3):	113.84	*Moisture content* (% cm^3/cm^3):	9.76

Test 1		**Test 2**		**Test 3**	
Observed temperature (°C):	22.6	*Observed temperature* (°C):	22.6	*Observed temperature* (°C):	22.5
Inlet pressure (cm):	1076.50	*Inlet pressure* (cm):	365.90	*Inlet pressure* (cm):	182.90
Outlet pressure (cm):	1020.20	*Outlet pressure* (cm):	344.80	*Outlet pressure* (cm):	161.80
Rotometer reading:	95.0	*Rotometer reading:*	48.0	*Rotometer reading:*	24.0
Flow (cm^3/sec):	0.1480	*Flow* (cm^3/sec):	0.0550	*Flow* (cm^3/sec):	0.0159
Viscosity (c-poise):	0.01831	*Viscosity* (c-poise):	0.01831	*Viscosity* (c-poise):	0.01830
Air permeability (m-darcies):	5.81E+00	*Air permeability* (m-darcies):	5.80E+00	*Air permeability* (m-darcies):	1.67E+00
Air permeability (cm^2):	5.73E-11	*Air permeability* (cm^2):	5.72E-11	*Air permeability* (cm^2):	1.65E-11

***Average air permeability* (m-darcies):**	**4.43E+00**
***Average air permeability* (cm^2):**	**4.37E-11**

Technician Comments: Cracks visible on sample post oven drying, potential preferential flow.

Laboratory analysis by:	D. O'Dowd
Data entered by:	D. O'Dowd
Checked by:	J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC110-111.0 (As Received)
Date Sampled: 8/31/11
Depth: 110-111.0

Test Date: 15-Sep-11

Sample length (cm):	3.70	*Type of fluid used:*	Compressed air
Sample diameter (cm):	5.10	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	20.41	*Sample bulk density* (g/cm^3):	2.22
Sample volume (cm^3):	75.60	*Moisture content* (% cm^3/cm^3):	11.62

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	22.4	22.4	22.3
Inlet pressure (cm):	720.55	204.58	72.29
Outlet pressure (cm):	0.60	-0.03	-0.03
Rotometer reading:	0.0	0.0	0.0
Flow (cm^3/sec):	ND	ND	ND
Viscosity (c-poise):	0.01829	0.01830	0.01829
Air permeability (m-darcies):	<1.61E-03	<6.94E-03	<2.09E-02
Air permeability (cm^2):	<1.59E-14	<6.85E-14	<2.06E-13

***Average air permeability* (m-darcies):** **ND**
***Average air permeability* (cm^2):** **ND**

Comments:

ND = Non detect. Air flow is below the detection limit of 4.55 x 10^{-4} cm^3/sec at the applied air pressure.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC110-111.0 (Oven Dried)
Date Sampled: 8/31/11
Depth: 110-111.0

Test Date: 21-Nov-11

Sample length (cm): 2.57
Sample diameter (cm): 6.12

Sample x-sectional area (cm^2): 29.43
Sample volume (cm^3): 75.60

Type of fluid used: Compressed air
Rotometer type: #4213

Sample bulk density (g/cm^3): 2.22
Moisture content (% cm^3/cm^3): 11.62

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	22.3	22.3	22.4
Inlet pressure (cm):	1076.50	365.90	182.90
Outlet pressure (cm):	56.30	21.10	14.10
Rotometer reading:	96.0	61.0	35.5
Flow (cm^3/sec):	0.1497	0.0817	0.0332
Viscosity (c-poise):	0.01829	0.01829	0.01829
Air permeability (m-darcies):	1.65E-01	3.36E-01	3.00E-01
Air permeability (cm^2):	1.63E-12	3.32E-12	2.96E-12

***Average air permeability* (m-darcies): 2.67E-01**
***Average air permeability* (cm^2): 2.64E-12**

Technician Comments: Cracks visible on sample post oven drying.

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC131-132.0 (As Received)
Date Sampled: 8/31/11
Depth: 131-132.0

Test Date: 14-Sep-11

Sample length (cm):	3.88	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.20	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	30.19	*Sample bulk density* (g/cm^3):	2.16
Sample volume (cm^3):	117.24	*Moisture content* (% cm^3/cm^3):	18.55

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	22.2	22.5	22.5
Inlet pressure (cm):	466.87	133.81	43.85
Outlet pressure (cm):	0.53	0.08	0.06
Rotometer reading:	95.0	22.0	4.5
Flow (cm^3/sec):	0.1480	0.0136	0.0011
Viscosity (c-poise):	0.01829	0.01830	0.01830
Air permeability (m-darcies):	6.30E-01	2.32E-01	5.98E-02
Air permeability (cm^2):	6.21E-12	2.29E-12	5.91E-13

***Average air permeability* (m-darcies): 3.07E-01**
***Average air permeability* (cm^2): 3.03E-12**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: B031RC131-132.0 (Oven Dried)
Date Sampled: 8/31/11
Depth: 131-132.0

Test Date: 18-Nov-11

Sample length (cm):	3.88	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.20	*Rotometer type:*	Other
Sample x-sectional area (cm^2):	30.19	*Sample bulk density* (g/cm^3):	2.16
Sample volume (cm^3):	117.24	*Moisture content* (% cm^3/cm^3):	18.55

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	23.2	23.3	23.3
Inlet pressure (cm):	1998.20	696.50	358.80
Outlet pressure (cm):	752.80	119.60	42.20
Rotometer reading:	11.0	3.5	1.5
Flow (cm^3/sec):	86.5260	27.5310	11.7990
Viscosity (c-poise):	0.01833	0.01834	0.01834
Air permeability (m-darcies):	1.26E+02	9.31E+01	7.92E+01
Air permeability (cm^2):	1.24E-09	9.19E-10	7.82E-10

***Average air permeability* (m-darcies): 9.94E+01**
***Average air permeability* (cm^2): 9.80E-10**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: W001RC128-129.0 (As Received)
Date Sampled: 6/15/11
Depth: 128-129.0

Test Date: 13-Sep-11

Sample length (cm):	3.81	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.33	*Rotometer type:*	#4213
Sample x-sectional area (cm^2):	31.42	*Sample bulk density* (g/cm^3):	2.07
Sample volume (cm^3):	119.70	*Moisture content* (% cm^3/cm^3):	12.69

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	22.3	22.5	22.5
Inlet pressure (cm):	272.67	75.45	23.59
Outlet pressure (cm):	0.42	0.12	0.06
Rotometer reading:	88.0	35.0	17.5
Flow (cm^3/sec):	0.1362	0.0315	0.0096
Viscosity (c-poise):	0.01829	0.01830	0.01830
Air permeability (m-darcies):	1.01E+00	9.25E-01	9.24E-01
Air permeability (cm^2):	9.99E-12	9.13E-12	9.12E-12

***Average air permeability* (m-darcies):** **9.53E-01**
***Average air permeability* (cm^2):** **9.41E-12**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Air Permeability Data

Job Name: Fluor-B&W Portsmouth LLC
Job Number: LB11.0188.00
Sample Number: W001RC128-129.0 (Oven Dried)
Date Sampled: 6/15/11
Depth: 128-129.0

Test Date: 21-Nov-11

Sample length (cm):	3.81	*Type of fluid used:*	Compressed air
Sample diameter (cm):	6.33	*Rotometer type:*	Other
Sample x-sectional area (cm^2):	31.42	*Sample bulk density* (g/cm^3):	2.07
Sample volume (cm^3):	119.70	*Moisture content* (% cm^3/cm^3):	12.69

	Test 1	**Test 2**	**Test 3**
Observed temperature (°C):	20.9	21.0	21.1
Inlet pressure (cm):	1041.30	358.80	175.90
Outlet pressure (cm):	197.00	35.20	14.10
Rotometer reading:	6.5	3.3	1.5
Flow (cm^3/sec):	51.1290	25.5645	11.7990
Viscosity (c-poise):	0.01822	0.01823	0.01823
Air permeability (m-darcies):	1.03E+02	1.57E+02	1.55E+02
Air permeability (cm^2):	1.02E-09	1.55E-09	1.53E-09

***Average air permeability* (m-darcies): 1.38E+02**
***Average air permeability* (cm^2): 1.37E-09**

Comments:

Laboratory analysis by: D. O'Dowd
Data entered by: D. O'Dowd
Checked by: J. Hines

Laboratory Tests and Methods

Tests and Methods

Dry Bulk Density:	ASTM D7263
Moisture Content:	ASTM D7263
Calculated Porosity:	ASTM D7263
Saturated Hydraulic Conductivity:	
Falling Head: (Rigid Wall)	Klute, A. and C. Dirkson. 1986. Hydraulic Conductivity and Diffusivity: Laboratory Methods.Chp. 28, pp. 200-203, in A. Klute (ed.), Methods of Soil Analysis, American Society of Agronomy, Madison, WI
Falling Head Rising Tail: (Flexible Wall)	ASTM D5084
Hanging Column Method:	ASTM D6836 (modified apparatus)
Pressure Plate Method:	ASTM D6836 (modified apparatus)
Water Potential (Dewpoint Potentiometer) Method:	ASTM D6836
Relative Humidity (Box) Method:	Karathanasis & Hajek. 1982. Quantitative Evaluation of Water Adsorption on Soil Clays. SSA Journal 46:1321-1325; Campbell, G. and G. Gee. 1986. Water Potential: Miscellaneous Methods. Chp. 25, pp. 631-632, in A. Klute (ed.), Methods of Soil Analysis, American Society of Agronomy, Madison, WI
Moisture Retention Characteristics & Calculated Unsaturated Hydraulic Conductivity:	ASTM D6836; van Genuchten, M.T. 1980. A closed-form equation for predicting the hydraulic conductivity of unsaturated soils. SSSAJ 44:892-898; van Genuchten, M.T., F.J. Leij, and S.R. Yates. 1991. The RETC code for quantifying the hydraulic functions of unsaturated soils. Robert S. Kerr Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Ada, Oklahoma. EPA/600/2091/065. December 1991
Air Permeability, Measured	ASTM D4525
Air Permeability, Calculated	Kuang, X., and J. J. Jiao (2011), A new model for predicting relative nonwetting phase permeability from soil water retention curves, Water Resour. Res., 47, W08520, doi:10.1029/2011WR010728.

SOUTHWEST RESEARCH INSTITUTE®

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Chemistry and Chemical Engineering Division
Department of Analytical and Environmental Chemistry

August 31, 2011

Fluor-B&W Portsmouth LLC
3930 U.S. Route 23 South
Bldg. X-1000
Piketon, OH 45661

Attn: Gerald Fulkerson

Subject:		
	Client ID:	FXP02234L04
	SwRI Project Number:	16526.05.00X
	SDG:	469498
	SwRI Task Order Number:	110614-8
	SwRI Sample Receipt Number:	44937
	Samples Received:	June 14, 2011
	Fraction:	Distribution Coefficient Results

Dear Mr. Fulkerson:

Please find the enclosed results for the seven (07) samples received on the above referenced date. Should you have any questions, please feel free to contact me at 210-522-3242.

Sincerely,

Radonna Spies
Group Leader

APPROVED:

Michael J. Dammann
Director

RS:aa

Encl

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110614-8
SRR: 44937
CASE: FXP02234L04
VTSR: 06.14.11
PROJECT#: 16526.05.00X

NARRATIVE

Client: Fluor-B&W Portsmouth LLC
SDG: 469498
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110614-8

INORGANICS ANALYSIS

The Distribution Coefficients (K_d) for Tc-99 and Total Uranium (U) were determined using the following modification to ASTM C1733.

The contact solution was be prepared by mixing two contaminated ground waters immediately prior to testing. The groundwater contaminated with Tc-99 (749-EPE-02) contained a significant amount of sediment and was filtered through a Whatman #1810-125 acid treated TCLP filter prior to combining at a 50:50 ratio, by mass, with the uranium contaminated groundwater (231A-01G-01). Only the minimum volume needed for the sample batch was prepared. Samples were weighted in duplicate for 8 time points (24 hr, 48 hr, Day 4, Day 7, Day 10, Day 14, Day 21 and Day X). The method specifies a 1:25 soil to contact solution test ratio; therefore, 200 mL of contact solution was added to 8 g of soil in a 250-mL Nalgene bottle. Samples were tumbled using the TCLP tumbler for 12-hours a day. For each time point, a 200 mL of the contact solution was added to an empty Nalgene and processed alongside the sample as a time point "Blank" for each Day n.

At each time point, the sample duplicates and time point "Blank" were filtered using a Whatman #1810-125 acid treated TCLP filter. The filtrate was preserved with nitric acid and stored for analysis. After the 5th time point (Day 10), all samples and "Blanks" were submitted for Tc-99 and total uranium analysis.

To calculate Kd in C1733, the following equation is used:

$$K_d = \frac{\frac{(C_s\,x\,V) - (C_f\,x\,V)}{m}}{C_f}$$

Where:
Cs = Starting Concentration of analyte of interest in contact solution
Cf = Final Concentration of analyte of interest in contact solution
V = Total Volume of contact liquid (mL)
m = Dry Mass of Solid (g)

For the purposes of this modified analysis at multiple time points, the concentrations of all "Blanks" analyzed were averaged and used as the starting concentration of the contact solution. The samples were not dried prior to the sample analysis; therefore, a percent solids was performed, and the results are reported on a dry weight basis. Therefore, following equation was used:

$$K_d = \frac{\frac{(C_{avg\ blk}\,x\,V) - (C_{day\,x}\,x\,V)}{m\ x\ \%\ soilds}}{C_{day\,x}}$$

Client: Fluor-B&W Portsmouth LLC
SDG: 469498
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110614-8

Where:
$C_{avg\ blk}$ = average "Blank" concentration which represents the starting concentration of analyte of interest in contact solution
$C_{day\ x}$ = concentration of analyte of interest in contact solution at time point x
V = total volume of contact liquid (mL)
m = weight of Solid (g)

In addition to the K_d values, the propagated uncertainties were also calculated. The K_d values and the uncertainties for the sample duplicates were averaged for each time point. By evaluating these values, it was established when the Tc-99 and U sorption equilibrium had been reached. With the exception of for sample WDPZ05-06-2.0 (SwRI #469500), all samples had reached equilibrium by Day 10. Since just the Total U had not reach equilibrium by Day 10, the total uranium analysis of Day 14 and Day 21 sample duplicates and blanks was necessary for SwRI #469500.

The final K_d value reported is an average of all K_d time points values once equilibrium was achieved. The uncertainty reported was also the average from these time points. For Tc-99, equilibrium was achieved by Day 2; therefore, the final K_d and uncertainties values are the averages of Days 2-10. With the exception of SwRI #469500, the uranium sorption reached equilibrium by Day 4; therefore, the average of Days 4-10 was reported. For SwRI #469500, the uranium sorption reached equilibrium by Day 14; therefore, the average of Days 14 and 21 was reported.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."

8/30/11

Group Leader **Date**

Client: Fluor – B&W Portsmouth LLC
SDG: 469498
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110614-8

TOTAL URANIUM ANALYSIS

The acidified leachates were analyzed directly (no digestion was required) for total uranium by ICP-MS. All instrument QC criteria were met. The percent recoveries for the initial and continuing calibration verifications were within 90-110%. Total uranium was not detected above SwRI's reporting limit in the initial and continuing calibration blanks. The low level, CRI standard recoveries were within 50-150%. The percent recoveries for the interference check sample ICSABs were within 80-120%. The internal standard recoveries were within 80-120% for the ICV/CCV/ICB/CCBs and within 30-120% for all samples.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."

8/24/11

Group Leader **Date**

Client: Fluor B&W Portsmouth
SDG: 469498
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110614-8

RADIOLOGICAL ANALYSIS

The sample SDG 469498 consisted of seven soil samples received for radiological analysis. The water samples for radiological analysis were reported on an "as received" basis. The recommended sample holding time of six months was met.

The sample was analyzed for the following:

Matrix	Analysis	Method
Soil	^{99}Technetium	Liquid Scintillation Spectroscopy

^{99}Technetium

A 100ml aliquot of each sample fraction was analyzed for ^{99}Technetium. The sample aliquots were digested at 80°C for 4 hours with nitric acid and then one additional hour with hydrogen peroxide. The aliquots were then brought to a final volume of 50ml and then chemically separated using resins. A preparation blank and two laboratory control samples were analyzed with each sample batch. Each sample fraction was analyzed in duplicate.

For all liquid scintillation analysis, the daily instrument performance checks were within the running statistical control limits.

For ^{99}Tc analysis, the ^{99}Tc was separated from the digestion using chemical separation resins. After chemical separation, the resin containing the ^{99}Tc was placed into a liquid scintillation vial and 15 ml of scintillation cocktail was added. The samples were counted on a liquid scintillation counter programmed to count only the ^{99}Tc region of interest. The liquid scintillation counter ^{99}Tc program was standardized using ^{99}Tc as the radioisotope to establish a specific efficiency quench curve. Four preparation blanks and eight laboratory control samples were analyzed with the sample batches. The preparation blank result for SwRI sample ID PBWG26JV1 was less than 1.65 times the TPU, the MDA, and the RL. The preparation blank results for SwRI sample ID PBWG25JV1, PBWG25JV2, and PBWG26JV2 were greater than 1.65 times the TPU, but were less than the MDA and the RL. The results for all of the laboratory control samples were within the recovery control limits of 75-125%. Each sample fraction was analyzed in duplicate and the sample duplicate evaluation ratio was less than three for all duplicates. A matrix spike and matrix spike duplicate were not performed with any of the analyses.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."

Warren G. Naegeli

Research Scientist

8/25/11

Date

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110614-8
SRR: 44937
CASE: FXP02234L04
VTSR: 06.14.11
PROJECT#: 16526.05.00X

SAMPLE RECEIPT, TASK ORDER & CHAIN OF CUSTODY

Sample Receipt

Southwest Research Institute
Sample Receipt Number: 44937
VTSR: 06/14/11
Time: 08:30:00

Project: **16526.05.00X**
Revision: 1
Manager: DAMMANN, MIKE

Case #: **FXP02234L04**
Logged in by: DRoman

Client: **Fluor-B&W Portsmouth LLC**
This Receipt was Revised Jul 12 2011 10:00AM
Creation Date: 06/13/11

Notes

Samples were received intact 3.0 °C (wet & blue ice)
Fed Ex Tracking #s:
875591108881
875591108892

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:
001 - admin
006 - metals
007 - drg
*** DRoman Jun 14 2011 9:35AM ***
Rev. 1
Corrected 469486.
*** DRoman Jul 12 2011 10:00AM ***

System ID	Customer ID	CED	Matrix	Containers	Special Reqs.
469486	231A-01G-01	06/09/11	WG	1	
469487	749-WPW-01	06/09/11	WG	1	
469488	WDMW02B-04-12.0	06/12/11	SO	1	
469489	WDMW02B-04-19.5	06/12/11	SO	1	
469490	WDMW02B-04-2.0	06/12/11	SO	1	
469491	WDMW02B-04-4.5	06/12/11	SO	1	
469492	WDMW02B-14-2.0	06/12/11	WQ	3	
469493	WDMW02B-26-12.0	06/12/11	WQ	3	
469494	WDPZ05-04-12.0	06/09/11	SO	1	
469495	WDPZ05-04-19.5	06/10/11	SO	1	
469496	WDPZ05-04-2.0	06/09/11	SO	1	
469497	WDPZ05-04-4.5	06/09/11	SO	1	
469498	WDPZ05-06-12.0	06/09/11	SO	1	
469499	WDPZ05-06-19.5	06/10/11	SO	1	
469500	WDPZ05-06-2.0	06/09/11	SO	1	
469501	WDPZ05-06-4.5	06/09/11	SO	1	
469502	WDPZ05-08-12.0	06/09/11	SO	1	
469503	WDPZ05-08-19.5	06/10/11	SO	1	
469504	WDPZ05-08-2.0	06/09/11	SO	1	
469505	WDPZ05-08-4.5	06/09/11	SO	1	
469506	WDPZ05-20-12.0	06/09/11	SO	1	
469507	WDPZ05-21-12.0	06/09/11	SO	1	

Containers: 26 **Samples: 22**

These documents are associated with this receipt: 102770[COC for SRR 44937], 100762[FXP02234L04]

Thermometer: 027
Temperature: 3.0

Client: Fluor-B&W Ports
SR#: 44937
FRM-002

Southwest Research Institute

Laboratory Task Order

TO #: 110614-8 Revision: 1

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 07/11/11
To QA: 07/11/11
To Client: 07/11/11

SDG: 469498
VTSR: 06/14/11
CASE: FXP02234L04

SRR #'s: 44937
Client(s): Fluor-B&W Portsmouth LLC

Instructions

FLUOR-B&W PORTSMOUTH LLC. SOW FXP02234L04. Project OSDC
SDG is 469498. SDG IS OPEN

28 day TAT HARDCOPY. Using 27-day TAT for Report/EDD.
CURRENTLY, FINAL DATA/HARDCOPY IS DUE TO THE CLIENT ON 07/12/11.

22 overall SO/WG/WQ samples (26 containers) received on 06/14/11 for SOW FXP02234L04.
OUT of the 22 samples, only the 5 SO for the DISTRIBUTION COEFFICIENT and the 2 WG Uranium and Tc99 Spiked samples are listed in this task order.

SEE GROUP LEADERS before starting.

see SOW for full compound list, CRDLs and RLs:
ASTM C1733 Distribution Coefficients
Tc 99 LSC - Technetium-99 (to support ASTM D4646; see summary)
Total U by ICP-MS (to support ASTM D4646; see summary)

- - - - - - - - - - - - - - - - - - - -

EDD REQUIRED. FORMS PLUS RAW DATA PACKAGE REQUIRED.

- - - - - - - - - - - - - - - - - - - -

PROJECT DESCRIPTION _ Change Order #1 _ Characterization to Support Siting of On-Site Disposal Facility
ELECTRONIC DATA DELIVERABLE _ Electronic Deliverable (AMSED) uploaded into PEMS via the internet plus CD.
QC REQUIREMENTS _ Per ICPT BOA/QSAS and method requirements.
SMO representative is Jim Applegate James.Applegate@fbports.com; 740.897.4081
Additional contact is Gerald Fulkerson 740 897 2588, Gerald.Fulkerson@fbports.com.
****

Report ORIGINAL & CD Results to:
FLUOR-B&W PORTSMOUTH LLC.
Attn: Gerald Fulkerson 740-897-2588
3930 U.S. Route 23 South
Building X-1000
Piketon, Ohio 45661

REVISION 1, DRmz 06/17/11: Task Order revised to indicate additional samples received on 06/17/11, which have been grouped with SDG 469498, located in Task Order # 110617-9, SRR 44975. Also, ASTM C4646 replaced with ASTM C1733 by the client.

Documents Related to this task order: 102770[COC for SRR 44937], 100762[FXP02234L04]

Deliverables --> Hard Copy: -YES- EDD: -YES- PDF: -YES-

Test: ASTM_C1733 Holding: 180 days from CED
Section: WETCHEM **ASTM C1733 - 10 Method for Distribution Coefficients of Inorganic Species by the Batch Method** Cnt: 7

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
469486	U	1	WG	231A-01G-01	09 Jun 11	06 Dec 11
469487	Tc99	1	WG	749-WPW-01	09 Jun 11	06 Dec 11
469498	UTc99	1	SO	WDPZ05-06-12.0	09 Jun 11	06 Dec 11
469499	UTc99	1	SO	WDPZ05-06-19.5	10 Jun 11	07 Dec 11
469500	UTc99	1	SO	WDPZ05-06-2.0	09 Jun 11	06 Dec 11
469501	UTc99	1	SO	WDPZ05-06-4.5	09 Jun 11	06 Dec 11
469506	UTc99	1	SO	WDPZ05-20-12.0	09 Jun 11	06 Dec 11

Test: DIG-TOTALDISS_ISOU Holding: 180 days from VTSR
Section: METALPREP **Digestion Method Total Dissolution for Isotopic Uranium** Cnt: 5

System ID	Type	Cont	Matrix	Customer ID	VTSR	Method Date
469498	UTc99	1	SO	WDPZ05-06-12.0	14 Jun 11	11 Dec 11

Southwest Research Institute

Laboratory Task Order

TO #: 110614-8 Revision: 1

SDG: 469498
VTSR: 06/14/11
CASE: FXP02234L04

SRR #'s: 44937
Client(s): Fluor-B&W Portsmouth LLC

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 07/11/11
To QA: 07/11/11
To Client: 07/11/11

System ID	Type	Cont	Matrix	Customer ID	VTSR	Method Date
469499	UTc99	1	SO	WDPZ05-06-19.5	14 Jun 11	11 Dec 11
469500	UTc99	1	SO	WDPZ05-06-2.0	14 Jun 11	11 Dec 11
469501	UTc99	1	SO	WDPZ05-06-4.5	14 Jun 11	11 Dec 11
469506	UTc99	1	SO	WDPZ05-20-12.0	14 Jun 11	11 Dec 11

Test: ICPMS-SWRI-ISO_U Holding: 180 days from CED
Section: METALS **ICPMS SwRI Method Isotopic Uranium** Cnt: 5

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
469498	UTc99	1	SO	WDPZ05-06-12.0	09 Jun 11	06 Dec 11
469499	UTc99	1	SO	WDPZ05-06-19.5	10 Jun 11	07 Dec 11
469500	UTc99	1	SO	WDPZ05-06-2.0	09 Jun 11	06 Dec 11
469501	UTc99	1	SO	WDPZ05-06-4.5	09 Jun 11	06 Dec 11
469506	UTc99	1	SO	WDPZ05-20-12.0	09 Jun 11	06 Dec 11

Test: LSC-TC99_SWRI Holding: 180 days from CED
Section: RADCHEM **Technetium-99 by liquid scintillation counting** Cnt: 5

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
469498	UTc99	1	SO	WDPZ05-06-12.0	09 Jun 11	06 Dec 11
469499	UTc99	1	SO	WDPZ05-06-19.5	10 Jun 11	07 Dec 11
469500	UTc99	1	SO	WDPZ05-06-2.0	09 Jun 11	06 Dec 11
469501	UTc99	1	SO	WDPZ05-06-4.5	09 Jun 11	06 Dec 11
469506	UTc99	1	SO	WDPZ05-20-12.0	09 Jun 11	06 Dec 11

D2770

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC46LL**

RECEIVED
JUN 14 2011

Page: 1 for OSDC46LL
Date: 06/13/2011 07:33 AM

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 06/14/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #44937
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Sample ID	**Sample Log**	**Task**	**Matrix**	**Smpl Type**	**Sample Container**				**Sample Date**	**Smpl Time**	**Associate Sample ID**	**Param Anly Group**	**Preser-vative**	**Remarks**
					Vol	**Unit**	**Type**	**Qty**						
WDPZ05-04-12.0	OSDC46	SS	SO	REG	8	OZ	AGLS	1	09-JUN-2011	1501		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDPZ05-04-19.5	OSDC46	SS	SO	REG	8	OZ	AGLS	1	10-JUN-2011	1040		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDPZ05-04-2.0	OSDC46	SS	SO	REG	8	OZ	AGLS	1	09-JUN-2011	1412		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDPZ05-04-4.5	OSDC46	SS	SO	REG	8	OZ	AGLS	1	09-JUN-2011	1425		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDPZ05-06-12.0	OSDC46	SS	SO	REG	8	OZ	AGLS	1	09-JUN-2011	1501		Distribution Coefficient	DEG4C	
WDPZ05-06-19.5	OSDC46	SS	SO	REG	8	OZ	AGLS	1	10-JUN-2011	1040		Distribution Coefficient	DEG4C	
WDPZ05-06-2.0	OSDC46	SS	SO	REG	8	OZ	AGLS	1	09-JUN-2011	1412		Distribution Coefficient	DEG4C	
WDPZ05-06-4.5	OSDC46	SS	SO	REG	8	OZ	AGLS	1	09-JUN-2011	1425		Distribution Coefficient	DEG4C	
WDPZ05-08-12.0	OSDC46	SS	SO	REG	4	OZ	AGLS	1	09-JUN-2011	1501		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDPZ05-08-19.5	OSDC46	SS	SO	REG	4	OZ	AGLS	1	10-JUN-2011	1040		Cation-Exchange Capacity (SW846-	DEG4C	

000010

02770

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)
Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC46LL**

Page: 2 for OSDC46LL
Date: 06/13/2011 07:33 AM

												9081)		
WDPZ05-08-2.0	OSDC46	SS	SO	REG	4	OZ	AGLS	1	09-JUN-2011	1412		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDPZ05-08-4.5	OSDC46	SS	SO	REG	4	OZ	AGLS	1	09-JUN-2011	1425		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDPZ05-20-12.0	OSDC46	SS	SO	REG	8	OZ	AGLS	1	09-JUN-2011	1501		Distribution Coefficient	DEG4C	
WDPZ05-21-12.0	OSDC46	SS	SO	REG	4	OZ	AGLS	1	09-JUN-2011	1501		Cation-Exchange Capacity (SW846-9081)	DEG4C	

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX	13-JUN-2011	OSDC	OSDC46LL	DEG C		FXP02234L04

Relinquished by:	Date(mm/dd/yyyy): 6-13-11	Time: 0940	Received by: AWS	Date(mm/dd/yyyy): 6/13/11	Time: 0940
Relinquished by: AWS	Date(mm/dd/yyyy): 6/13/11	Time: 1200	Received by: FedEx	Date(mm/dd/yyyy): 6/13/11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 6/14/11	Time: 0830	Received by:	Date(mm/dd/yyyy): 6/14/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

Client: Fluor B&W Portsmouth SwRI SRR #44937
SwRI Project #16526.05.00X Case: FXP02234L04
VTSR: 06/14/11 0830 Sample(s) Received Intact
Battery Check: Y Background Check <100 cpm
Cooler/Container Wipe: <100 cpm Temp 3.0 C / #027
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

102770

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC48LL**

Page: 1 for OSDC48LL
Date: 06/09/2011 05:06 PM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Sample Container Unit	Sample Container Type	Sample Container Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
231A-01G-01	OSDC48	5UA	WG	REG	2.5	GAL	CUBI	1	09-JUN-2011	932		Distribution Coefficient	None	WATER CONTAINING URANIUM TO RUN Kd

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	13-JUN-2011	231 5UA	OSDC48LL	DEG C		FXP02234L04

Relinquished by: Stacy	Date(mm/dd/yyyy): 6-13-11	Time: 0900	Received by:	Date(mm/dd/yyyy): 6-13-11	Time: 0900
Relinquished by:	Date(mm/dd/yyyy): 6/13/11	Time: 1200	Received by: FedEx	Date(mm/dd/yyyy): 6/13/11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 6/14/11	Time: 0930	Received by:	Date(mm/dd/yyyy): 6/14/11	Time: 0930
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 06/14/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #44937
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp 3.0 °C / #027

LP

02770

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC50LL**

Page: 1 for OSDC50LL
Date: 06/09/2011 05:07 PM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Sample Container Unit	Sample Container Type	Sample Container Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
749-WPW-01	OSDC50	X-749	WG	REG	2.5	GAL	CUBI	1	09-JUN-2011	1047		Distribution Coefficient	None	WATER CONTAINING Tc-99 TO RUN Kd

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX	13-JUN-2011	WPW 749	OSDC50LL	DEG C		FXP02234L04

Relinquished by:	Date(mm/dd/yyyy): 6-13-11	Time: 0900	Received by:	Date(mm/dd/yyyy): 61311	Time: 0900
Relinquished by:	Date(mm/dd/yyyy): 61311	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 61311	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 6/14/11	Time: 0830	Received by:	Date(mm/dd/yyyy): 6/14/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

LR

Client: Fluor B&W Portsmouth	SwRI SRR #44937
SwRI Project #16526.05.00X	Case: FXP02234L04
VTSR: 06/14/11 0830	Sample(s) Received Intact
Battery Check: Y	Background Check: <100 cpm
Cooler/Container Wipe <100 cpm	Temp 3 0 °C / #027

Total cpm-mR/h (samples) <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

000013

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC40LL**

Page: 1 for OSDC40LL
Date: 06/13/2011 08:22 AM

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 06/14/11 0830
Battery Check Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples). <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #44937
Case FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp 3.0 C / #027

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
WDMW02B-04-12.0	OSDC40	SS	SO	REG	8	OZ	AGLS	1	12-JUN-2011	1112		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDMW02B-04-19.5	OSDC40	SS	SO	REG	8	OZ	AGLS	1	12-JUN-2011	1153		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDMW02B-04-2.0	OSDC40	SS	SO	REG	8	OZ	AGLS	1	12-JUN-2011	1045		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDMW02B-04-4.5	OSDC40	SS	SO	REG	8	OZ	AGLS	1	12-JUN-2011	1055		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	13-JUN-2011	OSDC	OSDC40LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 6·13·11	Time: 0940	Received by: AWS	Date(mm/dd/yyyy): 61311	Time: 0940
Relinquished by: AWS	Date(mm/dd/yyyy): 61311	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 61311	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 6/14/11	Time: 0830	Received by:	Date(mm/dd/yyyy): 6/14/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

02770

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC40LL**

Page: 2 for OSDC40LL
Date: 06/13/2011 08:22 AM

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 06/14/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #44937
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

02770

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC43LL**

Page: 1 for OSDC43LL
Date: 06/13/2011 07:59 AM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
WDMW02B-14-2.0	OSDC43	SS	WQ	FB	1	L	HDPE	3	12-JUN-2011	1045		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	HNO3 ✓	
WDMW02B-26-12.0	OSDC43	SS	WQ	RIN	1	L	HDPE	3	12-JUN-2011	1112		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	HNO3 ✓	

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX	13-JUN-2011	OSDC	OSDC43LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 6-13-11	Time: 0940	Received by: AWS	Date(mm/dd/yyyy): 6/13/11	Time: 0940
Relinquished by: AWS	Date(mm/dd/yyyy): 6/13/11	Time: 1200	Received by: FedEx	Date(mm/dd/yyyy): 6-13-11	Time: 1200
Relinquished by: FedEx	Date(mm/dd/yyyy): 6/14/11	Time: 0830	Received by:	Date(mm/dd/yyyy): 6/14/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

Client Fluor B&W Portsmouth
SwRI Project #16526 05.00X
VTSR: 06/14/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #44937
Case: FXP02234L04
Sample(s) Received intact
Background Check: <100 cpm
Temp 3.0 °C / #027

000016

Southwest Research Institute

Traffic Report

Sample Custodian Signature: ______________________

Project: 16526.05-00X
Case: FXP02234L04 / SDG: ____________
Sample Receipt: 44937
Airbill: 875591108881 875591108892

1. Custody Seal	Present
2. Chain of Custody	Present
3. Sample Tags	Not Present
Sample Tag Numbers	Not on COC
4. SMO Forms	Not Present

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		Traffic Rpt, Tags, COC Agree	Sample Condition
				Sample Tag #	SwRI #		
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	23A-01G-01	None	469486	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	749-WPW-01	None	469487	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDMW02B-04-12.0	None	469488	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDMW02B-14-2.0	None	469492	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDMW02B-26-12.0	None	469493	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-04-12.0	None	469494	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-04-19.5	None	469495	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-04-2.0	None	469496	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-04-4.5	None	469497	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-06-12.0	None	469498	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-06-19.5	None	469499	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDMW02B-04-19.5	None	469489	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDMW02B-04-2.0	None	469490	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDMW02B-04-4.5	None	469491	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-21-12.0	None	469507	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-06-2.0	None	469500	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-06-4.5	None	469501	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-08-12.0	None	469502	YES	Intact

PortsmouthFluor-B&W

WO: 44937

FRM-217

Southwest Research Institute

Traffic Report

Sample Custodian Signature: ________________________

Project: 16526.05-00X
Case: FXP02234L04 / SDG: ____________
Sample Receipt: 44937
Airbill: 875591108881 875591108892

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		Traffic Rpt, Tags, COC Agree	Sample Condition
				Sample Tag #	SwRI #		
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-08-19.5	None	469503	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-08-2.0	None	469504	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-08-4.5	None	469505	YES	Intact
06/14/11	08:30:00	OCDC40LL 43LL 46LL 48LL 50LL	WDPZ05-20-12.0	None	469506	YES	Intact

WO: 44937

FRM-217

SAMPLE LOG-IN SHEET

Lab Name: Southwest Research Institute

Page 1 of 1

Received By (Print Name): DINO ROMAN

Log-in Date: 06/13/2011

Received By (Signature):

Case Number: FXP02234L04

Sample Delivery Group No.: N/A

SAS Number: N/A

Remarks: 16526.05.00X

1. Custody Seal(s): [✓ Present]/Absent* [✓ Intact]/Broken
2. Custody Seal Nos.: N/A
3. Chain-of Custody Records: [✓ Present]/Absent*
4. Traffic Reports or Packing Lists: Present/[✓ Absent*]
5. Airbill: Airbill/Sticker [✓ Present]/Absent*
6. Airbill No.: 875591108881
875591108892
7. Sample Tags: Present/[✓ Absent*]

   Sample Tag Numbers: Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition: [✓ Intact]/Broken*/Leaking
9. Cooler Temperature: 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree?: [✓ Yes]/No*
11. Date Received at Lab: 06/14/2011
12. Time Received: 08:30:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
23A-01G-01	None	469486	Intact
749-WPW-01	None	469487	Intact
WDMW02B-04-12.0	None	469488	Intact
WDMW02B-04-19.5	None	469489	Intact
WDMW02B-04-2.0	None	469490	Intact
WDMW02B-04-4.5	None	469491	Intact
WDMW02B-14-2.0	None	469492	Intact
WDMW02B-26-12.0	None	469493	Intact
WDPZ05-04-12.0	None	469494	Intact
WDPZ05-04-19.5	None	469495	Intact
WDPZ05-04-2.0	None	469496	Intact
WDPZ05-04-4.5	None	469497	Intact
WDPZ05-06-12.0	None	469498	Intact
WDPZ05-06-19.5	None	469499	Intact
WDPZ05-06-2.0	None	469500	Intact
WDPZ05-06-4.5	None	469501	Intact
WDPZ05-08-12.0	None	469502	Intact
WDPZ05-08-19.5	None	469503	Intact
WDPZ05-08-2.0	None	469504	Intact
WDPZ05-08-4.5	None	469505	Intact
WDPZ05-20-12.0	None	469506	Intact
WDPZ05-21-12.0	None	469507	Intact

Sample Transfer

Fraction: Ivory	Fraction
Area #: R-13	Area #
By: DINO ROMAN	By
On: 06/14/2011	On

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	Sample Receipt (44937)
Date	6.15.11	Logbook Page No.	✓ 7659 SEC 2 OF 2

FORM DC-1

OLMO4.2

000020

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110614-8
SRR: 44937
CASE: FXP02234L04
VTSR: 06.14.11
PROJECT#: 16526.05.00X

pH TABLE

1027

000021

SwRI

pH Preservation Report

Sample Receipt Report 44937

Project: 16526.05.00X
Case: FXP022341.04

Customer: Fluor-B&W Portsmouth LLC
Received: Jun 14 2011 8:30AM
pH Adjuster:
Adjusted:

SwRI #	Customer's ID	pH
469486 1/1	23A-01G-01	Login
Container ID	Adjustment	Final
469487 1/1	749-WPW-01	Login
Container ID	Adjustment	Final
469488 1/1	WDMW02B-04-12.0	Login
Container ID	Adjustment	Final
469489 1/1	WDMW02B-04-19.5	Login
Container ID	Adjustment	Final
469490 1/1	WDMW02B-04-2.0	Login
Container ID	Adjustment	Final
469491 1/1	WDMW02B-04-4.5	Login
Container ID	Adjustment	Final
469492 1/3	WDMW02B-14-2.0	Login <2
Container ID	Adjustment	Final
469492 2/3	WDMW02B-14-2.0	Login <2
Container ID	Adjustment	Final
469492 3/3	WDMW02B-14-2.0	Login <2
Container ID	Adjustment	Final
469493 1/3	WDMW02B-26-12.0	Login <2
Container ID	Adjustment	Final
469493 2/3	WDMW02B-26-12.0	Login <2
Container ID	Adjustment	Final
469493 3/3	WDMW02B-26-12.0	Login <2
Container ID	Adjustment	Final
469494 1/1	WDPZ05-04-12.0	Login
Container ID	Adjustment	Final
469495 1/1	WDPZ05-04-19.5	Login
Container ID	Adjustment	Final
469496 1/1	WDPZ05-04-2.0	Login
Container ID	Adjustment	Final
469497 1/1	WDPZ05-04-4.5	Login
Container ID	Adjustment	Final
469498 1/1	WDPZ05-06-12.0	Login
Container ID	Adjustment	Final
469499 1/1	WDPZ05-06-19.5	Login
Container ID	Adjustment	Final
469500 1/1	WDPZ05-06-2.0	Login
Container ID	Adjustment	Final

SwRI #	Customer's ID	pH
469501 1/1	WDPZ05-06-4.5	Login
Container ID	Adjustment	Final
469502 1/1	WDPZ05-08-12.0	Login
Container ID	Adjustment	Final
469503 1/1	WDPZ05-08-19.5	Login
Container ID	Adjustment	Final
469504 1/1	WDPZ05-08-2.0	Login
Container ID	Adjustment	Final
469505 1/1	WDPZ05-08-4.5	Login
Container ID	Adjustment	Final
469506 1/1	WDPZ05-20-12.0	Login
Container ID	Adjustment	Final
469507 1/1	WDPZ05-21-12.0	Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
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Container ID	Adjustment	Final
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		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final

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010001

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110614-8
SRR: 44937
CASE: FXP02234L04
VTSR: 06.14.11
PROJECT#: 16526.05.00X

SAMPLE DATA

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

Lab Name: Southwest Research Institute

Lab Code: SwRI

Matrix: SO

SRR #: 44937

Method: ASTM C1733

Client: Fluor-B&W Portsmouth LLC

Project No.: 16526.05.00X

SOW: FXP02234L04

Date Received: 06/14/11

Task Order #: 110614-8

		Tc99		**Total Uranium**	
Sample ID	Lab System ID	**K_d Results (mL/g)**	Uncertainty	**K_d Results (mL/g)**	Uncertainty
Prep Blank	Blank	0.155	0.872	0.157	0.677
WDPZ05-06-12.0	469498	4.88	1.03	0.079	0.629
WDPZ05-06-19.5	469499	4.55	0.917	0.884	0.645
WDPZ05-06-2.0	469500	5.87	0.959	58.9	2.55
WDPZ05-06-4.5	469501	4.69	0.916	1.47	0.655
WDPZ05-20-12.0	469506	3.35	0.893	1.01	0.649

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110614-8
SRR: 44937
CASE: FXP02234L04
VTSR: 06.14.11
PROJECT#: 16526.05.00X

RAW DATA

Distribution Coefficient Tabulation

Fluor 16526.05.006
110614-8

TC-99

Sample ID	Day 0		Day 1		Day 2		Day 4		Day 7		Day 10				
	pCi/mL	err	pCi/mL	err	pCi/L	err	pCi/L	err	pCi/L	err	pCi/L	err	$C_{avg\ blk}$	err	Rel Err
Blank	154	10.0	149	9.74	147	9.66	148	9.72	147	9.67	152	9.93	**149.500**	**4.00**	**2.67%**
469498			137	9.08	134	8.93	126	8.53	120	8.22	127	8.57			
469498D			138	9.17	135	8.97	138	9.16	126	8.48	145	11.5			
469499			138	9.14	138	9.16	128	8.62	133	8.86	130	8.69			
469499D			137	9.08	133	8.90	135	9.01	127	8.58	127	8.54			
469500			130	8.74	125	8.47	130	8.69	124	8.42	121	8.27			
469500D			127	8.58	134	8.94	124	8.38	121	8.22	129	8.67			
469501			139	9.21	132	8.82	131	8.75	129	8.65	126	8.47			
469501D			131	8.78	136	9.06	125	8.43	137	9.14	133	8.90			
469506			135	9.02	130	8.72	138	9.18	130	8.72	130	8.70			
469506D			136	9.02	138	9.14	131	8.78	141	9.31	130	8.72			

Sample ID			Day 1		Day 2		Day 4		Day 7		Day 10		Report Kd (pooled)	
			K_d, mL/g	*U*	K_d, mL/g	*U*	K_d, mL/g	*U*	K_d, mL/g	*U*	K_d, mL/g	*U*	K_d, mL/g	*U*
Blank			0.08	1.94	0.43	1.97	0.25	1.96	0.43	1.97	-0.41	1.90	**0.155**	**0.872**
469498			2.52	2.12	3.21	2.17	5.18	2.33	6.83	2.46	4.91	2.30	**4.88**	**1.03**
469498D			2.29	2.11	2.98	2.15	2.32	2.11	5.18	2.32	(rejected pt)			
469498-avg			2.41	1.49	3.10	1.53	3.75	1.57	6.00	1.69	4.91	1.15		
469499			2.32	2.10	2.52	2.11	5.06	2.28	3.76	2.19	4.53	2.24	**4.55**	**0.917**
469499D			2.77	2.12	3.74	2.19	3.23	2.16	5.37	2.31	5.34	2.30		
469499-avg			2.54	1.49	3.13	1.52	4.15	1.57	4.57	1.59	4.93	1.60		
469500			4.45	2.25	5.82	2.35	4.43	2.24	6.06	2.37	6.95	2.43	**5.87**	**0.959**
469500D			5.24	2.31	3.41	2.17	6.07	2.36	6.97	2.42	4.72	2.26		
469500-avg			4.84	1.61	4.62	1.60	5.25	1.63	6.51	1.69	5.84	1.66		
469501			2.23	2.09	4.18	2.21	4.42	2.22	4.97	2.26	5.87	2.31	**4.69**	**0.916**
469501D			4.19	2.23	3.13	2.14	6.12	2.34	2.85	2.13	3.89	2.19		
469501-avg			3.21	1.53	3.65	1.54	5.27	1.61	3.91	1.55	4.88	1.59		
469506			3.19	2.16	4.12	2.24	2.28	2.11	4.09	2.24	4.13	2.24	**3.35**	**0.893**
469506D			2.94	2.13	2.28	2.10	3.87	2.23	1.65	2.06	4.10	2.24		
469506-avg			3.06	1.52	3.20	1.54	3.08	1.53	2.87	1.52	4.11	1.59		

$$Kd = \frac{\dfrac{200\,(C_{avg\ blank} - C_{day\ x})}{m \times \%\ solids}}{C_{day\ x}}$$

Sample calc 469498 Day 7

$$\frac{\dfrac{200\,(149.5 - 120)}{8.016 \times 0.8986}}{120} = 6.83\ mL/g$$

8/24/11

Fluor 16526.05.006
110614-8

Total U

Sample ID	Day 0		Day 1		Day 2		Day 4		Day 7		Day 10		Day 14		Day 21				
	ng/L	err	ng/L	err	ng/L	err	ng/L	err	ng/L	err	ng/L	err	ng/L	err	ng/L	err	$C_{avg\ blk}$	err	Rel Err
Blank	4970	298	4560	274	4610	277	4660	280	4730	284	4660	280	4680	281	4510	271	**4672.50**	**99.16**	**2.12%**
469498			4470	268	4570	274	4570	274	4640	278	4720	283							
469498D			4480	269	4680	281	4740	284	4740	284	4650	279							
469499			4420	265	4500	270	4610	277	4560	274	4510	271							
469499D			4520	271	4550	273	4560	274	4470	268	4560	274							
469500			3550	213	3000	180	2200	132	2040	122	1810	109	1550	93	1860	112			
469500D			3780	227	3040	182	2180	131	1860	112	1910	115	1570	94	1360	82			
469501			4570	274	4450	267	4490	269	4420	265	4290	257							
469501D			4510	271	4530	272	4510	271	4320	259	4720	283							
469506			4500	270	4530	272	4580	275	4580	275	4480	269							
469506D			4400	264	4440	266	4570	274	4480	269	4400	264							
			1.13																

Sample ID			Day 1		Day 2		Day 4		Day 7		Day 10		Day 14		Day 21		Report Kd (pooled)		
			K_d, mL/g	U	K_d, mL/g	U	K_d, mL/g	U	K_d, mL/g	U	K_d, mL/g	U	K_d, mL/g	U	K_d, mL/g	U	K_d, mL/g	*U*	
Blank			0.617	1.82	0.339	1.80	0.067	1.78	-0.304	1.76	0.067	1.78	-0.040	1.77	0.901	1.83	**0.157**	**0.677**	
469498			1.25	1.85	0.622	1.81	0.623	1.81	0.194	1.79	-0.279	1.76					**0.079**	**0.629**	
469498D			1.18	1.85	-0.045	1.77	-0.396	1.75	-0.294	1.75	0.202	1.78							
469498-avg			1.22	1.31	0.289	1.27	0.114	1.26	-0.050	1.25	-0.038	1.25							Day 2-10
469499			1.74	1.87	1.16	1.84	0.409	1.80	0.748	1.82	1.09	1.83					**0.884**	**0.645**	
469499D			1.02	1.83	0.812	1.82	0.741	1.82	1.37	1.85	0.744	1.82							
469499-avg			1.38	1.31	0.985	1.29	0.575	1.28	1.06	1.30	0.916	1.29							Day 2-10
469500			9.38	2.29	16.5	2.69	33.2	3.63	38.0	3.90	46.7	4.39	59.7	5.11	44.9	4.27	**58.9**	**2.55**	
469500D			6.98	2.16	15.9	2.65	33.7	3.66	44.7	4.27	43.0	4.16	58.8	5.05	72.1	5.82			
469500-avg			8.18	1.57	16.2	1.89	33.5	2.57	41.4	2.89	44.8	3.02	59.2	3.59	58.5	3.61			Day 14-21
469501			0.70	1.81	1.57	1.86	1.27	1.84	1.79	1.87	2.81	1.92					**1.47**	**0.655**	
469501D			1.13	1.83	0.99	1.83	1.13	1.83	2.55	1.91	-0.32	1.76							
469501-avg			0.92	1.29	1.28	1.30	1.20	1.30	2.17	1.34	1.25	1.30							Day 2-10
469506			1.05	1.84	0.86	1.83	0.55	1.81	0.55	1.81	1.18	1.85					**1.01**	**0.649**	
469506D			1.69	1.88	1.44	1.86	0.62	1.81	1.18	1.85	1.69	1.88							
469506-avg			1.37	1.31	1.15	1.30	0.58	1.28	0.86	1.29	1.44	1.32							Day 2-10

$$Kd = \frac{\frac{200\,(C_{avg\ blank} - C_{day\ x})}{m \times \%\ solids}}{C_{day\ x}}$$

Sample calc 46498 Day 1

$$\frac{\frac{200\,(4672.5 - 4470)}{8.045 \times 0.8986}}{4470} = 1.25\ mL/g$$

8/24/11

Distribution Coefficient pH Data

Fluor 16526.05.006
110614-8

pH Data

Sample ID	Day 0	Day 1	Day 2	Day 4	Day 7	Day 10	Day 14	Day 21
	pH	pH	pH	pH	pH	pH	pH	pH
Blank	7.20	8.28	8.18	8.24	8.15	8.27	8.22	8.36
469498		7.99	8.49	8.49	8.45	8.54		
469498D		8.09	8.50	8.50	8.47	8.56		
469499		8.45	8.50	8.51	8.47	8.52		
469499D		8.30	8.51	8.51	8.45	8.53		
469500		8.22	8.30	8.27	8.17	8.07	8.16	8.29
469500D		8.30	8.28	8.24	8.16	8.16	8.05	8.04
469501		8.38	8.46	8.51	8.42	8.52		
469501D		8.37	8.45	8.52	8.46	8.50		
469506		8.45	8.51	8.53	8.52	8.55		
469506D		8.51	8.48	8.52	8.51	8.53		

8/25/11

Southwest Research Institute® Logbook: pH

010009

Analysis/Method: pH - Day 0 Project#: 16526.05.006

Client: Fluor B&W Portsmouth TO#: 110614-8; 110617-9

QC Source: p165-977 INOR~~6~~# 83~~10~~01 NN 7/12/11 MM TV: 7.13

Notes: QC range 6.99 - 7.27

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
NA				
4.0	4.01	8564	6/1/12	23.0
7.0	7.01	8562	8/1/12	23.0
10.0	10.02	8560	7/1/12	23.0
NA				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.18	NA	NA	NA	24.2
46948&46987	7.20~~4~~ NN 7/12/11 MM	NA	NA	NA	23.3
CCV	7.14	NA	NA	NA	24.2

MM 7/12/11

Analyst Signature: M. Mendoza Date: 7/12/11

Reviewed by: James Dr Date: 7/19/11

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FRM-241 (Rev 2/Feb 04)

Southwest Research Institute® Logbook: pH

Analysis/Method: PH DAY 1 9040B Project#: 16526.05.006

Client: Fluor- B&W Portsmouth TO#: 110614-8, 110617-9

QC Source: p165-977 INORG #8301 TV: 7.13

Notes: QC Range 6.99-7.27

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A				
4.0	4.00	8564	6/1/12	22.1
7.0	7.01	8562	8/1/12	22.1
10.0	10.03	8560	7/1/12	22.1
N/A				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.15	N/A	N/A	N/A	22.0
DAY1 Blank	8.28				23.7
469498 DI	7.99				23.6
469498D DI	8.09				23.5
469499 DI	8.45				23.5
469499D DI	8.30				23.5
469500 DI	8.22				23.6
469500D DI	8.30				23.5
469501 DI	8.38				23.4
469501D DI	8.37				23.4
469506 DI	8.45				23.4
469506D DI	8.51				23.5
CCV	7.16				22.1

MM 7/18/11

Analyst Signature: James Moden Date: 7/13/11

Reviewed by: Judy Herrera Date: 08/08/11

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010011

Southwest Research Institute® Logbook: pH

TE JAM 7/14/11

Analysis/Method: PH 9040B Project#: 16526.03.006, 16526.~~06~~ 05.006

Client: Fluor-B&W Portsmouth TO#: 110624-8, 110614-8, 110617-9

QC Source: P165-977 INORG# 8301 TV: 7.13

Notes: QC Range 6.99-7.27

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A				
4.0	4.00	8564	6/1/12	22.6
7.0	7.01	8562	8/1/12	22.4
10.0	10.03	8560	7/1/12	22.6
N/A				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.15	N/A	N/A	N/A	22.6
TISAB Adjust	4.85	N/A	N/A	5.39	23.4
CCV	7.16	N/A	N/A	N/A	22.6
					08/25/11
ICV	7.14	N/A	N/A	N/A	22.6
DAY 2 Blank	8.18				23.5
469498 D2	8.49				23.8
469498D D2	8.50				23.9
469499 D2	8.50				23.9
469499D D2	8.51				23.9
469500 D2	8.30				23.5
469500D D2	8.28				23.2
469501 D2	8.46				24.3
469501D D2	8.45				23.5
469506 D2	8.51				23.2
469506D D2	8.48				23.5
CCV	7.14				23.0
					08/25/11

Analyst Signature: James [illegible] Date: 7/14/11

Reviewed by: [illegible] Date: 08/25/11

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FRM-241 (Rev 2/Feb 04)

Southwest Research Institute® Logbook: pH

Analysis/Method: PH DAY 4 9040B Project#: 16526.05.006

Client: Fluor- B&W Portsmouth TO#: 110614-8, 110617-9

QC Source: P165-977 INORG# 8301 TV: 7.13 S.U.

Notes: QC Range 6.99- 7.27 S.U.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
NA				
4.0	4.00	8564	6/1/12	22.2
7.0	7.01	8562	8/1/12	22.2
10.0	10.03	8560	7/1/12	22.2
NA				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.15	N/A	N/A	N/A	22.0
DAY4 Blank	8.24				22.4
469498 DH	8.49				23.1
469498D DH	8.50				22.9
469499 DH	8.51				23.2
469499D DH	8.51				23.0
469500 DH	8.27				23.3
469500D DH	8.24				23.2
469501 DH	8.51				23.1
469501D DH	8.52				23.3
469506 DH	8.53				23.4
469506D DH	8.52				23.2
CCV DH	7.17				23.2

MM 7/18/11

Analyst Signature: Date: 7/16/11

Reviewed by: Judy Herrera Date: 08/25/11

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FRM-241 (Rev 2/Feb 04)

Southwest Research Institute® Logbook: pH010013

Analysis/Method: pH Day 7 9040B Project#: ~~16526.05.006~~, ~~16622.01.006~~

Client: Fluor-B&W Portsmouth TO#: 110614-8, 110617-9, 110705-4

[redacted] [redacted] } Environmental

QC Source: P165977 INORG# 8301 TV: 7.13

Notes: QC Range 6.99-7.27

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
2.0	2.00	8904	6/1/12	22.3
4.0	4.00	8564	6/1/12	22.4
7.0	7.00	8562	8/1/12	22.4
10.0	10.00	8560	7/1/12	22.4

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.19	N/A	N/A	N/A	22.9
Day 7 Blank	8.15				23.4
469448 D7	8.45				23.3
469448D D7	8.47				23.3
469449 D7	8.47				23.6
469449D D7	8.45				23.6
469500 D7	8.17				23.1
469500D D7	8.16				23.2
469501 D7	8.42				23.1
469501D D7	8.46				23.1
469506 D7	8.52				23.2
469506D D7	8.51				23.1
CCV	7.18				23.0
470776	2.04				23.1
CCV2	7.19				23.1
		RS 7/19/11			

Analyst Signature: James Moha Date: 7/19/11

Reviewed by: Date: 7/19/11

06 264

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Southwest Research Institute® Logbook: pH

010014

Analysis/Method: PH DAY 10 9040B Project#: 16526.05.006

Client: Fluor-B&W Portsmouth TO#: 110614-8, 110617-9

QC Source: P165-977 INORG# 8301 TV: 7.13 S.U.

Notes: QC Range 6.99-7.27 S.U.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A	—	—	—	—
4.0	4.00	8564	6/1/12	22.2
7.0	7.01	8562	8/1/12	22.2
10.0	10.03	8560	7/1/12	22.2
N/A	—	—	—	

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.17	N/A	N/A	N/A	22.2
DAY 10 Blank	8.27				22.9
469498 D10	8.54				22.8
469498D D10	8.56				23.0
469499 D10	8.52				22.9
469499D D10	8.53				22.9
469500 D10	8.07				23.1
469500D D10	8.16				22.9
469501 D10	8.52				22.9
469501D D10	8.50				22.9
469506 D10	8.55				22.9
469506D D10	8.53				22.9
CCV	7.16				22.2

gau 08/18/11

Analyst Signature: James Moher Date: 7/22/11

Reviewed by: Date: 08/18/11

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FRM-241 (Rev 2/Feb 04)

Southwest Research Institute® Logbook: pH

010015

Analysis/Method: pH DAY 14 9040B TISAB
Project#: 16526.05.006

Client: Fluor B&W Portsmouth
TO#: 110614-8, 110617-9

QC Source: P1165-977 INORG# 8301
TV: 7.13 S.U.

Notes: QC Range 6.99- 7.27 S.U.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A	—	—	—	—
4.0	4.0~~0~~1 TEJAM 7/26/11	8564	6/1/12	22.3
7.0	7.01	8562	8/1/12	22.2
10.0	10.03	8560	7/1/12	22.3
N/A	—	—	—	—

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.16	N/A	N/A	N/A	22.2
32-01-WC55	4.82	N/A	N/A	7.37	23.1
Day14 Blank	8.22			N/A	22.4
469498	8.50				22.4
469498D	8.46				22.4
469499	8.46				22.5
469499D	8.50				22.5
469500	8.16				22.4
469500D	8.05				22.4
469501	8.54				22.4
469501D	8.52				22.6
469506	8.54				22.5
469506D	8.53				22.5
CCV	7.14				22.2

08/25/11

Analyst Signature: James Maten
Date: 7/26/11

Reviewed by:
Date: 08/25/11

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Southwest Research Institute® Logbook: pH

010016

Analysis/Method: pH DAY 21 9040B Project#: 16526.05.006

Client: Fluor - B&W Portsmouth TO#: 110614-8, 110617-9

QC Source: P165-977 INORG# 8301 TV: 7.13 S.U.

Notes: QC Range 6.99-7.27 S.U.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A	—	—	—	—
4.0	4.01	8564	6/1/12	22.8
7.0	7.01	8562	8/1/12	22.6
10.0	10.02	8560	7/1/12	22.8
N/A	—	—	—	—

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.16	N/A	N/A	N/A	22.7
DAY21 BLANK	8.36	↓	↓	↓	22.9
* ~~469998~~ 469498	8.67				23.2
* ~~469998D~~ 469498D	8.67				23.4
469499	8.66				23.1
469499D	8.64				23.1
469500	8.29				23.4
469500D	8.04				23.1
469501	8.63				23.1
469501D	8.62				23.1
469506	8.66				23.1
469506D	8.64				23.1
CCV	7.15	↓	↓	↓	22.8
	JAU 08/25/11				
* RE JAM 8/2/11					

Analyst Signature: James Mota Date: 8/2/11

Reviewed by: Juan Herrera Date: 08/25/11

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FRM-241 (Rev 2/Feb 04)

010017

Distribution Coefficient Prep

Fluor 16526.05.006
110614-8

Prep Information

Sample ID			Day 1		Day 2		Day 4		Day 7		Day 10		Day 14		Day 21	
		% Solids	Wt g	Vol mL	Wt g	Vol mL	Wt g	Vol mL	Wt g	Vol mL	Wt g	Vol mL	Wt g	Vol mL	Wt g	Vol mL
Blank				200		200		200		200		200				
469498		89.86%	8.045	200	8.027	200	8.015	200	8.016	200	8.033	200				
469498D		89.86%	8.084	200	8.012	200	8.008	200	8.020	200	8.026	200				
469499		82.29%	8.001	200	8.045	200	8.060	200	8.012	200	8.056	200				
469499D		82.29%	8.017	200	8.062	200	8.091	200	8.017	200	8.058	200				
469500		84.00%	8.026	200	8.023	200	8.065	200	8.083	200	8.065	200	8.039	200	8.019	200
469500D		84.00%	8.050	200	8.066	200	8.067	200	8.051	200	8.012	200	8.008	200	8.039	200
469501		79.34%	8.025	200	8.004	200	8.059	200	8.066	200	8.010	200				
469501D		79.34%	8.012	200	8.001	200	8.068	200	8.058	200	8.044	200				
469506		90.84%	8.047	200	8.022	200	8.049	200	8.070	200	8.006	200				
469506D		90.84%	8.052	200	8.030	200	8.028	200	8.025	200	8.048	200				

RSpies 8/24/11

010019

7/15/11

Southwest Research Institute

Electronic Bench Sheet

% Solids

Project #:	16526.05.002	Date:	07/01/11
Client:	Fluor - B&W Portsmouth LLC	Analyst:	James Moken
Method:	%solid		
TO#	110614-8		

Sample ID	A Tare Wt(g)	B Wet Sample + Tare Wt(g)	(B - A) Wet Sample Wt(g)	C Dried Sample + Tare Wt(g)	(C - A) Dried Sample Wt(g)	% Solids	RPD
PB	0.9522	0.9522	0.0000	0.9523	0.0001	<0.05	
469498	0.9517	11.3262	10.3745	10.2747	9.3230	89.86	
469499	0.9499	11.1465	10.1966	9.3404	8.3905	82.29	
469499	0.9524	11.1573	10.2049	9.5244	8.5720	84.00	2.06%
469500	0.9534	11.3916	10.4382	9.2348	8.2814	79.34	
469501	0.9535	11.4234	10.4699	10.2631	9.3096	88.92	
469506	0.9509	11.3357	10.3848	10.3841	9.4332	90.84	

% Solids = Dried Sample Wt(g)*100 / Wet Sample Wt(g)

Sample calculation : 469498

$$\frac{9.3230\text{g} \times 100}{10.3745\text{g}} = \boxed{89.86\%}$$

Southwest Research Institute®
Logbook: Physical Testing

Analysis / Method: % Solid
Project# 16526.05.002
Client: Fluor- B&W Portsmouth LLC
TO# 110614-8

LCS Info: N/A
TV= N/A
Balance#: 12

Notes: in oven # 31 8:05 am 7/1/11
out oven # 31 7:30 am 7/5/11

Sample ID	tare wt (g)	sample + tare (g)	dried + tare (g)		
PB	0.9522	0.9522	0.9523		
469498	0.9517	11.3262	10.2747		
469499	0.9499	11.1465	9.3404		
469499D	0.9524	11.1573	9.5244		
469500	0.9534	11.3916	9.2348		
469501	0.9635	11.4234	10.2631		
469506	0.9509	11.3357	10.3841		

MM 7/27/11

Calculation:

Analyst Signature: James Maka
Date: ~~6/~~ 7/1/11
WD JAM 7/1/11

Reviewed by:
Date: 7/15/11

Logbook #/ Page # 10 145

FRM-294 (Rev 1/Apr 03)

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 0082_

Book I.D. # _I0-0406-057_

Analysis: ASTM-C1733

Project #: 16526.05.006

Method (circle) Digestion / Distillation / Extraction / Bomb

Task Order#: 110614-8

Client: Fluor-Portsmouth

TAP#:

Balance ID: ~~88~~ 89 RE JAM 7/11/11

Pipette ID: 5000-____ 1000-____ 200-____

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: N/A

LCS TV = N/A

Notes / Prep: Started shaking 6:15pm

Sample ID	Sample Wt (g) Sample Vol (ml)	Final Volume 7/11/11 (ml)			
469498 D1	8.0458 g RE JAM	200ml	} filterd, took pH, and adjusted to <2 with nitric acid 7/13/11		
469498D D1	8.084 g				
469498 D2	8.027 g		} 7/14/11		
469498D D2	8.012 g				
469498 D4	8.015 g		} 7/16/11		
469498D D4	8.008 g				
469498 D7	8.016 g		} 7/19/11		
469498D D7	8.020 g				
469498 D10	8.033		} 7/22/11		
469498D D10	8.026				
469498 D14	8.049		} 7/26/11		
469498D D14	8.054				
469498 D21	8.047		} 8/2/11		
469498D D21	8.037				
469498 DX	8.056				
469498D DX	8.066				
469499 D1	8.001		} filtered, took pH, and adjusted pH <2 with nitric acid 7/13/11		
469499D D1	8.0~~45~~17 JE SAM 7/11/11				
469499 D2	8.045		} 7/14/11		
469499D D2	8.062				
469499 D4	8.060	↓	- 7/16/11		

Analyst Signature: James Mohr

Date: weighed 7/11/11 volumed 7/12/11

Reviewed by:

Date: 7/21/11

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 0083_

Book I.D. # _10-0406-057_

Analysis: ASTM - C1733

Project #: 16526.05.006

Method (circle) Digestion / Distillation / Extraction / Bomb

Task Order#: 110614-8

Client: Fluor- B&W Portsmouth

TAP#:

Balance ID: 89

Pipette ID: 5000-____ 1000-____ 200-____

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: N/A

LCS TV = N/A

Notes / Prep: started shaking: 6:15

Sample ID	Sample Wt (g) Sample Vol (ml)	Final Volume (ml)	filtered, took pH, and adjusted to <2 with nitric acid		
469499D D4	8.091	200mL	-7/16/11		
469499 D7	8.012		7/19/11		
469499D D7	8.017				
469499 D10	8.056		7/22/11		
469499D D10	8.058				
469499 D14	8.018		7/26/11		
469499D D14	8.065				
469499 D21	8.032		8/2/11		
469499D D21	8.021				
469499 Dx	8.010				
469499D Dx	8.023				
469500 D1	8.026		7/13/11		
469500D D1	8.050				
469500 D2	8.023		7/14/11		
469500D D2	8.066				
469500 D4	8.065		7/16/11		
469500D D4	8.067				
469500 D7	8.083		7/19/11		
469500D D7	8.051				
469500 D10	8.065		7/22/11		
469500D D10	8.012				

Analyst Signature: James Nutter

Date: weighed 7/11/11 volumed 7/12/11

Reviewed by: RSpeer

Date: 7/21/11

010023

Southwest Research Institute
WC Sample Prep Logbook

Book/Page: 15 0084

Book I.D. # 10-0406-057

Analysis: ASTM C1733

Method (circle) Digestion / Distillation / Extraction / Bomb

Client: Fluor- B&W Portsmouth

Project #: 16526.05.006

Task Order#: 110614-8

TAP#:

Balance ID: 89

Digestion Apparatus: N/A

LCS ID: N/A

Pipette ID: 5000-____ 1000-____ 200-____

Temperature: N/A

LCS TV = N/A

Notes / Prep: started shaking 6:15pm

Sample ID	Sample Wt (g) Sample Vol (ml)	Final Volume (ml)	filtered, took pH, adjusted to ≤2 with nitric acid		
469500 D14	8.039	200mL	7/26/11		
469500D D14	8.008				
469500 D21	8.019		8/2/11		
469500D D21	8.039				
469500 DX	8.023				
469500D DX	8.043				
469501 D1	8.025		7/13/11		
469501 D D1	8.012				
469501 D2	8.004		7/14/11		
469501 D D2	8.001				
469501 D4	8.059		7/16/11		
469501D D4	8.068				
469501 D7	8.066		7/19/11		
469501 D D7	8.058				
469501 D10	8.010		7/22/11		
469501D D10	8.044				
469501 D14	8.036		7/26/11		
469501D D14	8.031				
469501 D21	8.089		8/2/11		
469501D D21	8.072				
469501 DX	8.048	↓			

Analyst Signature: James Maher

Date: weight: 7/11/11 volumed 7/12/11

Reviewed by:

Date: 7/21/11

010024

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 0085_

Book I.D. # _10-0406-057_

Analysis: ASTM- C1733

Method (circle) Digestion / Distillation / Extraction / Bomb

Client: Fluor-B&W Portsmouth

Project #: 16526.05.006

Task Order#: 110614-8

TAP#:

Balance ID: 89

Digestion Apparatus: N/A

LCS ID: N/A

Notes / Prep: started shaking 6:15pm

Pipette ID: 5000-____ 1000-____ 200-____

Temperature: N/A

LCS TV = N/A

Sample ID	Sample Wt (g) Sample Vol (ml)	Final Volume (ml)	filtered, took pH, adjusted ph <2 with nitric acid		
469501D DX	8.051	200mL			
469506 D1	8.047		7/13/11		
469506D D1	8.052				
469506 D2	8.022		7/14/11		
469506D D2	8.030				
469506 D4	8.049		7/16/11		
469506D D4	8.028				
469506 D7	8.070		7/19/11		
469506D D7	8.025				
469506 D10	8.006		7/22/11		
469506D D10	8.048				
469506 D14	8.064		7/26/11		
469506D D14	8.068				
469506 D21	8.069		8/2/11		
469506D D21	8.047				
469506 DX	8.078				
469506D DX	8.069				
Day 1 Blank	—	- 7/13/11			
Day 2 Blank	—	- 7/14/11			
Day 4 Blank	—	- 7/16/11			
Day 7 Blank	—	- 7/19/11			

Analyst Signature: James Maker

Date: weighed: 7/11/11 volumed 7/12/11

Reviewed by:

Date: 7/21/11

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 0086_

Book I.D. # _I0-0406-057_

Analysis: ASTM C1733

Method (circle) Digestion / Distillation / Extraction / Bomb

Client: Fluor - B&W Portsmouth

Project #: 16526.05.006

Task Order#: 110614-8

TAP#:

Balance ID: 84

Digestion Apparatus: N/A

LCS ID: N/A

Notes / Prep: started shaking 6:15pm

Pipette ID: 5000-____ 1000-____ 200-____

Temperature: N/A

LCS TV = N/A

Sample ID	Sample Wt (g) Sample Vol (ml)	Final Volume (ml)	filtered took pH, acidified to pH< 2 with Nitric Acid		
Day 10 Blank	—	200mL	- 7/22/11		
Day 14 Blank	—	↓	- 7/26/11		
Day 21 Blank	—	↓	- 8/2/11		
Day X Blank	—	↓			

JAM 7/12/11

Analyst Signature: James Moher

Date: weighed: 7/11/11 Volumed 7/12/11

Reviewed by:

Date: 7/21/11

010026

Tc99 Data for Distribution Coefficient

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet
Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110614-8
Prep Page: 12-077, 12-078, 12-079, 12-080
Prep Date: 25-Jul-11
WAN

✓ JVW 08/25/11

Project #: 16526.05.00X
SRR: 44937
RL: 12 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer	
							%Rec	% error
PBWG25JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWG25JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWG25JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
469498-1	0.10	50.0	0.00200	50.0	0.100	10.00		
469498D-1	0.10	50.0	0.00200	50.0	0.100	10.00		
469499-1	0.10	50.0	0.00200	50.0	0.100	10.00		
469499D-1	0.10	50.0	0.00200	50.0	0.100	10.00		
469500-1	0.10	50.0	0.00200	50.0	0.100	10.00		
469500D-1	0.10	50.0	0.00200	50.0	0.100	10.00		
469501-1	0.10	50.0	0.00200	50.0	0.100	10.00		
469501D-1	0.10	50.0	0.00200	50.0	0.100	10.00		
469506-1	0.10	50.0	0.00200	50.0	0.100	10.00		
469506D-1	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-0	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-1	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

010027

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110614-8
Prep Page: 12-077, 12-078, 12-079, 12-080
Prep Date: 25-Jul-11

Project #: 16526.05.00X
SRR: 44937
RL: 12 pCi/L
Units: L

Liquid Scintilliation Results

			Time		Raw				
Lab Id	Analyte	Matrix	(m)	tSIE	cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	350.54	14.42	8.73	14.62	98.66	
BKG-2	Tc-99	Water	60	338.02	13.86	8.87	14.09	98.37	
				AVG BKG	14.14	AVG BKG	14.35		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWG25JV1	Tc-99	Water	60	331.83	15.55	8.30	1.44	98.11		6.47E+00	3.25E+00	1.06E+01	3.23E+00		PB > 1.65*TPU	
LCSWG25JV1	Tc-99	Water	60	365.87	1110.02	0.78	1107.29	98.97		4.99E+03	2.88E+02	1.05E+01	1.97E+01	5000	99.8%	-0.002
LCSWG25JV2	Tc-99	Water	60	349.38	1100.77	0.78	1101.72	98.63		4.96E+03	2.87E+02	1.05E+01	1.97E+01	5000	99.3%	-0.007
469498-1	Tc-99	Water	60	336.66	43.97	4.29	30.34	98.31		1.37E+02	9.08E+00	1.06E+01	4.51E+00	RPD	Dup Evaluation	
469498D-1	Tc-99	Water	60	351.63	44.48	4.26	30.75	98.68		1.38E+02	9.17E+00	1.05E+01	4.51E+00	1.32	0.14	Pass
469499-1	Tc-99	Water	60	341.71	44.27	4.28	30.60	98.48		1.38E+02	9.14E+00	1.06E+01	4.51E+00	RPD	Dup Evaluation	
469499D-1	Tc-99	Water	60	336.77	43.97	4.30	30.34	98.32		1.37E+02	9.08E+00	1.06E+01	4.51E+00	0.84	0.09	Pass
469500-1	Tc-99	Water	60	320.37	42.35	4.39	28.89	97.63		1.30E+02	8.74E+00	1.06E+01	4.48E+00	RPD	Dup Evaluation	
469500D-1	Tc-99	Water	60	331.35	41.86	4.43	28.26	98.09		1.27E+02	8.58E+00	1.06E+01	4.44E+00	2.22	0.23	Pass
469501-1	Tc-99	Water	60	343.19	44.55	4.26	30.87	98.51		1.39E+02	9.21E+00	1.06E+01	4.52E+00	RPD	Dup Evaluation	
469501D-1	Tc-99	Water	60	342.87	42.83	4.36	29.13	98.50		1.31E+02	8.78E+00	1.06E+01	4.46E+00	5.81	0.62	Pass
469506-1	Tc-99	Water	60	317.92	43.42	4.33	30.02	97.52		1.35E+02	9.02E+00	1.07E+01	4.52E+00	RPD	Dup Evaluation	
469506D-1	Tc-99	Water	60	336.13	43.71	4.31	30.08	98.29		1.36E+02	9.02E+00	1.06E+01	4.50E+00	0.20	0.02	Pass
Blank-0	Tc-99	Water	60	331.92	47.75	4.08	34.26	98.11		1.54E+02	1.00E+01	1.06E+01	4.66E+00			
Blank-1	Tc-99	Water	60	340.16	46.68	4.15	33.06	98.44		1.49E+02	9.74E+00	1.06E+01	4.61E+00			

Notes: ______________________________

Sample Calculations
dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

TPU Factors	%
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	5.77%

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110614-8
Prep Page: 12-077, 12-078, 12-079, 12-080
Prep Date: 25-Jul-11
WAN

✓ JLW 08/25/11

Project #: 16526.05.00X
SRR: 44937
RL: 12 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer %Rec	No Tracer % error
PBWG25JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWG25JV3	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWG25JV4	0.10	50.0	0.00200	50.0	0.100	10.00		
469498-2	0.10	50.0	0.00200	50.0	0.100	10.00		
469498D-2	0.10	50.0	0.00200	50.0	0.100	10.00		
469499-2	0.10	50.0	0.00200	50.0	0.100	10.00		
469499D-2	0.10	50.0	0.00200	50.0	0.100	10.00		
469500-2	0.10	50.0	0.00200	50.0	0.100	10.00		
469500D-2	0.10	50.0	0.00200	50.0	0.100	10.00		
469501-2	0.10	50.0	0.00200	50.0	0.100	10.00		
469501D-2	0.10	50.0	0.00200	50.0	0.100	10.00		
469506-2	0.10	50.0	0.00200	50.0	0.100	10.00		
469506D-2	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-2	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet
Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110614-8
Prep Page: 12-077, 12-078, 12-079, 12-080
Prep Date: 25-Jul-11

Project #: 16526.05.00X
SRR: 44937
RL: 12 pCi/L
Units: L

Liquid Scintilliation Results

			Time		Raw				
Lab Id	Analyte	Matrix	(m)	tSIE	cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	350.54	14.42	8.73	14.62	98.66	
BKG-2	Tc-99	Water	60	338.02	13.86	8.87	14.09	98.37	
				AVG BKG	14.14	AVG BKG	14.35		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWG25JV2	Tc-99	Water	60	355.60	15.37	8.37	1.25	98.76		**5.61E+00**	**3.22E+00**	**1.05E+01**	**3.20E+00**		PB > 1.65*TPU	
LCSWG25JV3	Tc-99	Water	60	345.86	1098.42	0.78	1100.12	98.56		**4.96E+03**	**2.86E+02**	**1.05E+01**	**1.97E+01**	5000	99.1%	-0.009
LCSWG25JV4	Tc-99	Water	60	334.73	1102.23	0.78	1107.70	98.23		**4.99E+03**	**2.88E+02**	**1.06E+01**	**1.98E+01**	5000	99.8%	-0.002
469498-2	Tc-99	Water	60	340.92	43.42	4.32	29.74	98.46		**1.34E+02**	**8.93E+00**	**1.06E+01**	**4.48E+00**	RPD	Dup Evaluation	
469498D-2	Tc-99	Water	60	350.29	43.67	4.30	29.93	98.65		**1.35E+02**	**8.97E+00**	**1.05E+01**	**4.48E+00**	0.66	0.07	Pass
469499-2	Tc-99	Water	60	317.17	43.99	4.28	30.62	97.49		**1.38E+02**	**9.16E+00**	**1.07E+01**	**4.55E+00**	RPD	Dup Evaluation	
469499D-2	Tc-99	Water	60	343.57	43.31	4.33	29.61	98.51		**1.33E+02**	**8.90E+00**	**1.06E+01**	**4.47E+00**	3.34	0.36	Pass
469500-2	Tc-99	Water	60	344.34	41.59	4.43	27.86	98.53		**1.25E+02**	**8.47E+00**	**1.05E+01**	**4.41E+00**	RPD	Dup Evaluation	
469500D-2	Tc-99	Water	60	314.74	43.05	4.34	29.68	97.39		**1.34E+02**	**8.94E+00**	**1.07E+01**	**4.52E+00**	6.34	0.67	Pass
469501-2	Tc-99	Water	60	332.22	42.86	4.36	29.27	98.12		**1.32E+02**	**8.82E+00**	**1.06E+01**	**4.47E+00**	RPD	Dup Evaluation	
469501D-2	Tc-99	Water	60	356.35	44.05	4.30	30.28	98.78		**1.36E+02**	**9.06E+00**	**1.05E+01**	**4.49E+00**	3.39	0.36	Pass
469506-2	Tc-99	Water	60	357.79	42.70	4.37	28.90	98.81		**1.30E+02**	**8.72E+00**	**1.05E+01**	**4.44E+00**	RPD	Dup Evaluation	
469506D-2	Tc-99	Water	60	326.72	44.05	4.30	30.55	97.89		**1.38E+02**	**9.14E+00**	**1.06E+01**	**4.53E+00**	5.55	0.59	Pass
Blank-2	Tc-99	Water	60	346.84	46.38	4.16	32.70	98.58		**1.47E+02**	**9.66E+00**	**1.05E+01**	**4.59E+00**			

Notes: ____________________

Sample Calculations
dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

TPU Factors	**%**
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	**5.77%**

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110614-8
Prep Page: 12-077, 12-078, 12-079, 12-080
Prep Date: 25-Jul-11
WAN

/ JWD 08/25/11

Project #: 16526.05.00X
SRR: 44937
RL: 12 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer %Rec	No Tracer % error
PBWG26JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWG26JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWG26JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
469498-4	0.10	50.0	0.00200	50.0	0.100	10.00		
469498D-4	0.10	50.0	0.00200	50.0	0.100	10.00		
469499-4	0.10	50.0	0.00200	50.0	0.100	10.00		
469499D-4	0.10	50.0	0.00200	50.0	0.100	10.00		
469500-4	0.10	50.0	0.00200	50.0	0.100	10.00		
469500D-4	0.10	50.0	0.00200	50.0	0.100	10.00		
469501-4	0.10	50.0	0.00200	50.0	0.100	10.00		
469501D-4	0.10	50.0	0.00200	50.0	0.100	10.00		
469506-4	0.10	50.0	0.00200	50.0	0.100	10.00		
469506D-4	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-4	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110614-8
Prep Page: 12-077, 12-078, 12-079, 12-080
Prep Date: 25-Jul-11

Project #: 16526.05.00X
SRR: 44937
RL: 12 pCi/L
Units: L

Liquid Scintilliation Results

			Time		Raw				
Lab Id	Analyte	Matrix	(m)	tSIE	cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	350.54	14.42	8.73	14.62	98.66	
BKG-2	Tc-99	Water	60	338.02	13.86	8.87	14.09	98.37	
				AVG BKG	14.14	AVG BKG	14.35		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWG26JV1	Tc-99	Water	60	347.09	14.52	8.75	0.39	98.59		1.74E+00	3.16E+00	1.05E+01	3.16E+00		PB < 1.65*TPU	
LCSWG26JV1	Tc-99	Water	60	333.19	1097.72	0.78	1103.89	98.16		4.97E+03	2.87E+02	1.06E+01	1.98E+01	5000	99.4%	-0.006
LCSWG26JV2	Tc-99	Water	60	348.79	1093.58	0.78	1094.54	98.62		4.93E+03	2.85E+02	1.05E+01	1.96E+01	5000	98.6%	-0.014
469498-4	Tc-99	Water	60	341.24	41.79	4.43	28.08	98.47		1.26E+02	8.53E+00	1.06E+01	4.42E+00	RPD	Dup Evaluation	
469498D-4	Tc-99	Water	60	350.59	44.42	4.26	30.69	98.66		1.38E+02	9.16E+00	1.05E+01	4.51E+00	8.89	0.94	Pass
469499-4	Tc-99	Water	60	338.75	42.13	4.41	28.45	98.40		1.28E+02	8.62E+00	1.06E+01	4.43E+00	RPD	Dup Evaluation	
469499D-4	Tc-99	Water	60	337.47	43.69	4.31	30.05	98.34		1.35E+02	9.01E+00	1.06E+01	4.50E+00	5.48	0.58	Pass
469500-4	Tc-99	Water	60	353.15	42.54	4.39	28.77	98.71		1.30E+02	8.69E+00	1.05E+01	4.44E+00	RPD	Dup Evaluation	
469500D-4	Tc-99	Water	60	346.41	41.22	4.45	27.47	98.57		1.24E+02	8.38E+00	1.05E+01	4.39E+00	4.62	0.48	Pass
469501-4	Tc-99	Water	60	347.28	42.73	4.37	29.00	98.59		1.31E+02	8.75E+00	1.05E+01	4.45E+00	RPD	Dup Evaluation	
469501D-4	Tc-99	Water	60	340.86	41.41	4.44	27.70	98.46		1.25E+02	8.43E+00	1.06E+01	4.40E+00	4.59	0.48	Pass
469506-4	Tc-99	Water	60	336.21	44.35	4.26	30.74	98.29		1.38E+02	9.18E+00	1.06E+01	4.52E+00	RPD	Dup Evaluation	
469506D-4	Tc-99	Water	60	350.37	42.88	4.35	29.13	98.65		1.31E+02	8.78E+00	1.05E+01	4.45E+00	5.35	0.57	Pass
Blank-4	Tc-99	Water	60	321.55	46.28	4.17	32.90	97.68		1.48E+02	9.72E+00	1.06E+01	4.63E+00			

Notes: ______________________________

Sample Calculations
dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

TPU Factors	%
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	**5.77%**

010032

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110614-8
Prep Page: 12-077, 12-078, 12-079, 12-080
Prep Date: 25-Jul-11
WAN

✓ JLW 08/25/11

Project #: 16526.05.00X
SRR: 44937
RL: 12 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer	
							%Rec	% error
PBWG26JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWG26JV3	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWG26JV4	0.10	50.0	0.00200	50.0	0.100	10.00		
469498-7	0.10	50.0	0.00200	50.0	0.100	10.00		
469498D-7	0.10	50.0	0.00200	50.0	0.100	10.00		
469499-7	0.10	50.0	0.00200	50.0	0.100	10.00		
469499D-7	0.10	50.0	0.00200	50.0	0.100	10.00		
469500-7	0.10	50.0	0.00200	50.0	0.100	10.00		
469500D-7	0.10	50.0	0.00200	50.0	0.100	10.00		
469501-7	0.10	50.0	0.00200	50.0	0.100	10.00		
469501D-7	0.10	50.0	0.00200	50.0	0.100	10.00		
469506-7	0.10	50.0	0.00200	50.0	0.100	10.00		
469506D-7	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-7	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

Southwest Research Institute, Division 1, Radiochemistry
LSC Bench Sheet
Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110614-8
Prep Page: 12-077, 12-078, 12-079, 12-080
Prep Date: 25-Jul-11

Project #: 16526.05.00X
SRR: 44937
RL: 12 pCi/L
Units: L

Liquid Scintilliation Results

Lab Id	Analyte	Matrix	Time (m)	tSIE	Raw cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	350.54	14.42	8.73	14.62	98.66	
BKG-2	Tc-99	Water	60	338.02	13.86	8.87	14.09	98.37	
				AVG BKG	14.14	AVG BKG	14.35		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWG26JV2	Tc-99	Water	60	349.31	15.52	8.30	1.40	98.63		**6.30E+00**	**3.23E+00**	**1.05E+01**	**3.21E+00**		PB > 1.65*TPU	
LCSWG26JV3	Tc-99	Water	60	330.63	1099.09	0.78	1106.41	98.06		**4.98E+03**	**2.88E+02**	**1.06E+01**	**1.98E+01**	5000	99.7%	-0.003
LCSWG26JV4	Tc-99	Water	60	344.98	1098.36	0.78	1100.28	98.54		**4.96E+03**	**2.86E+02**	**1.05E+01**	**1.97E+01**	5000	99.1%	-0.009
469498-7	Tc-99	Water	60	318.22	40.23	4.52	26.75	97.54		**1.20E+02**	**8.22E+00**	**1.07E+01**	**4.40E+00**	RPD	Dup Evaluation	
469498D-7	Tc-99	Water	60	345.60	41.62	4.42	27.88	98.56		**1.26E+02**	**8.48E+00**	**1.05E+01**	**4.41E+00**	4.15	0.43	Pass
469499-7	Tc-99	Water	60	360.46	43.30	4.33	29.50	98.86		**1.33E+02**	**8.86E+00**	**1.05E+01**	**4.46E+00**	RPD	Dup Evaluation	
469499D-7	Tc-99	Water	60	339.75	42.00	4.42	28.30	98.44		**1.27E+02**	**8.58E+00**	**1.06E+01**	**4.43E+00**	4.13	0.44	Pass
469500-7	Tc-99	Water	60	297.99	40.95	4.47	27.55	97.30		**1.24E+02**	**8.42E+00**	**1.07E+01**	**4.44E+00**	RPD	Dup Evaluation	
469500D-7	Tc-99	Water	60	329.53	40.38	4.53	26.77	98.01		**1.21E+02**	**8.22E+00**	**1.06E+01**	**4.38E+00**	2.88	0.30	Pass
469501-7	Tc-99	Water	60	333.54	42.18	4.39	28.56	98.18		**1.29E+02**	**8.65E+00**	**1.06E+01**	**4.45E+00**	RPD	Dup Evaluation	
469501D-7	Tc-99	Water	60	315.53	43.87	4.29	30.52	97.42		**1.37E+02**	**9.14E+00**	**1.07E+01**	**4.55E+00**	6.63	0.70	Pass
469506-7	Tc-99	Water	60	327.12	42.36	4.38	28.82	97.91		**1.30E+02**	**8.72E+00**	**1.06E+01**	**4.46E+00**	RPD	Dup Evaluation	
469506D-7	Tc-99	Water	60	335.90	44.87	4.24	31.27	98.28		**1.41E+02**	**9.31E+00**	**1.06E+01**	**4.55E+00**	8.14	0.86	Pass
Blank-7	Tc-99	Water	60	335.22	46.31	4.16	32.74	98.25		**1.47E+02**	**9.67E+00**	**1.06E+01**	**4.60E+00**			

Notes: ______________________________

TPU Factors	**%**
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	**5.77%**

Sample Calculations
dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110614-8
Prep Page: 12-077, 12-078, 12-079, 12-080
Prep Date: 25-Jul-11
WAN

✓ 08/25/11

Project #: 16526.05.00X
SRR: 44937
RL: 12 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer	
							%Rec	% error
469498-10	0.10	50.0	0.00200	50.0	0.100	10.00		
469498D-10	0.10	50.0	0.00200	25.0	0.050	20.00		
469499-10	0.10	50.0	0.00200	50.0	0.100	10.00		
469499D-10	0.10	50.0	0.00200	50.0	0.100	10.00		
469500-10	0.10	50.0	0.00200	50.0	0.100	10.00		
469500D-10	0.10	50.0	0.00200	50.0	0.100	10.00		
469501-10	0.10	50.0	0.00200	50.0	0.100	10.00		
469501D-10	0.10	50.0	0.00200	50.0	0.100	10.00		
469506-10	0.10	50.0	0.00200	50.0	0.100	10.00		
469506D-10	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-10	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110614-8
Prep Page: 12-077, 12-078, 12-079, 12-080
Prep Date: 25-Jul-11

Project #: 16526.05.00X
SRR: 44937
RL: 12 pCi/L
Units: L

Liquid Scintilliation Results

Lab Id	Analyte	Matrix	Time (m)	tSIE	Raw cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	350.54	14.42	8.73	14.62	98.66	
BKG-2	Tc-99	Water	60	338.02	13.86	8.87	14.09	98.37	
				AVG BKG	14.14	AVG BKG	14.35		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
469498-10	Tc-99	Water	60	343.09	41.97	4.41	28.25	98.50		**1.27E+02**	**8.57E+00**	**1.06E+01**	**4.42E+00**	RPD	Dup Evaluation	
469498D-10	Tc-99	Water	60	352.47	30.07	5.40	16.14	98.70		**1.45E+02**	**1.15E+01**	**2.11E+01**	**7.84E+00**	13.30	1.27	Pass
469499-10	Tc-99	Water	60	355.31	42.56	4.37	28.78	98.75		**1.30E+02**	**8.69E+00**	**1.05E+01**	**4.43E+00**	RPD	Dup Evaluation	
469499D-10	Tc-99	Water	60	365.91	42.03	4.42	28.18	98.97		**1.27E+02**	**8.54E+00**	**1.05E+01**	**4.40E+00**	2.10	0.22	Pass
469500-10	Tc-99	Water	60	322.23	40.47	4.51	26.95	97.70		**1.21E+02**	**8.27E+00**	**1.06E+01**	**4.40E+00**	RPD	Dup Evaluation	
469500D-10	Tc-99	Water	60	325.68	42.15	4.39	28.63	97.85		**1.29E+02**	**8.67E+00**	**1.06E+01**	**4.46E+00**	6.03	0.63	Pass
469501-10	Tc-99	Water	60	346.39	41.61	4.43	27.87	98.57		**1.26E+02**	**8.47E+00**	**1.05E+01**	**4.41E+00**	RPD	Dup Evaluation	
469501D-10	Tc-99	Water	60	337.43	43.27	4.32	29.62	98.34		**1.33E+02**	**8.90E+00**	**1.06E+01**	**4.48E+00**	6.10	0.64	Pass
469506-10	Tc-99	Water	60	336.45	42.45	4.38	28.80	98.30		**1.30E+02**	**8.70E+00**	**1.06E+01**	**4.45E+00**	RPD	Dup Evaluation	
469506D-10	Tc-99	Water	60	354.99	42.69	4.37	28.91	98.75		**1.30E+02**	**8.72E+00**	**1.05E+01**	**4.44E+00**	0.39	0.04	Pass
Blank-10	Tc-99	Water	60	344.28	47.46	4.11	33.82	98.53		**1.52E+02**	**9.93E+00**	**1.05E+01**	**4.63E+00**			

Notes: ____

Sample Calculations

dpm = cpm / (eff-1 / 100) - avg bkg dpm

Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)

TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)

MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22

Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)

(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100

Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

TPU Factors	**%**
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	**5.77%**

```
Assay Definition

Assay Description:

Assay Type: DPM (Single)
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20110727_1111\Replay_20110825_134149
Raw Results Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20110727_1111\20110727_1111.results
Assay File Name: C:\Packard\TriCarb\Assays\99tc_dpm.lsa


Count Conditions

Nuclide: 99tc
   Quench Indicator: tSIE/AEC
   External Std Terminator (sec): 10 sec
   Pre-Count Delay (min): 0.00
Quench Set:
   Low Energy: 99Tc
Count Time (min): 60.00
Count Mode: Normal
Assay Count Cycles: 1         Repeat Sample Count: 1
#Vials/Sample: 1              Calculate % Reference: Off


Background Subtract

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions          LL       UL
A               0.0    292.0
B               0.0    292.0
C               0.0   2000.0


Count Corrections

Static Controller: On          Luminescence Correction: On
Colored Samples: On            Heterogeneity Monitor: Off
Coincidence Time (nsec): 18    Delay Before Burst (nsec): 75


Instrument Block Data
```

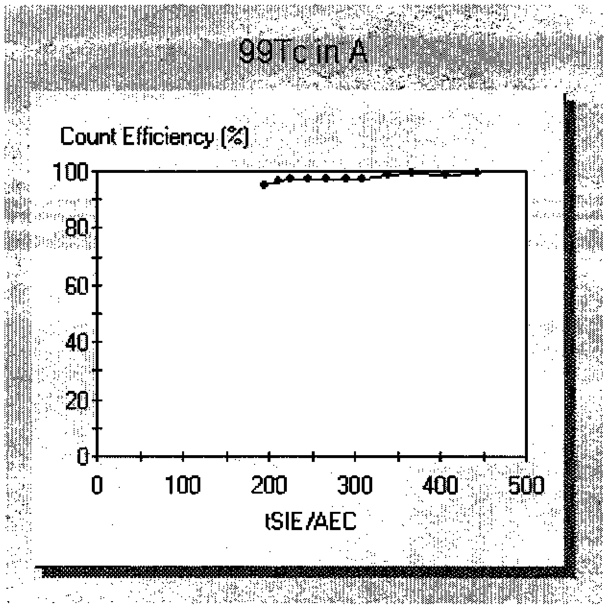
Fluor B&W Portsmouth
16526.05.00X
TO# 110614-8
WAN

```
MODEL=Tri-Carb 3180TR/SL
VERSION=2.12
SERIAL=084368

IPA Block Data

Software Version IC: 2.12
Software Version EC: 3.00
Instrument Model: Tri-Carb 3180TR/SL
Instrument Serial Number: 084368
3H Chi Square: 18.93    Date Processed: 8/25/2011 12:33:32 PM
14C Chi Square: 11.73   Date Processed: 8/25/2011 12:33:32 PM
3H E^2/B (1-18.6 keV): 1341.70  Date Processed: 8/25/2011 12:33:32 PM
14C E^2/B (4-156 keV): 5184.47   Date Processed: 8/25/2011 12:33:32 PM
3H Efficiency (1-18.6 keV): 64.75  Date Processed: 8/25/2011 12:33:32 PM
14C Efficiency (4-156 keV): 93.59  Date Processed: 8/25/2011 12:33:32 PM
IPA Background Date Processed: 8/25/2011 12:33:32 PM
3H Background CPM (1-18.6 keV): 3.13  Date Processed: 8/25/2011 12:33:32 PM
14C Background CPM (4-156 keV): 1.69  Date Processed: 8/25/2011 12:33:32 PM
3H Calibration DPM: 281700
3H Reference Date: 6/27/2008
14C Calibration DPM: 123000


Cycle 1 Results
Quench Curve Block Data
```

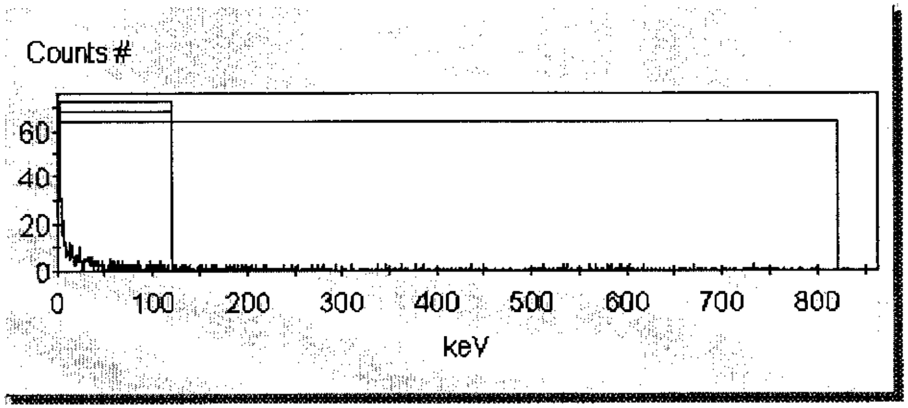


```
Date Acquired: 02/15/2011
Date Modified:
99Tc in A

tSIE/AEC       Count Efficiency (%)
443.42         99.12
406.31         98.84
367.18         99.00
339.52         98.43
310.34         97.21
291.55         97.35
267.03         97.31
246.83         97.51
224.44         96.91
211.47         96.41
195.92         95.37
```

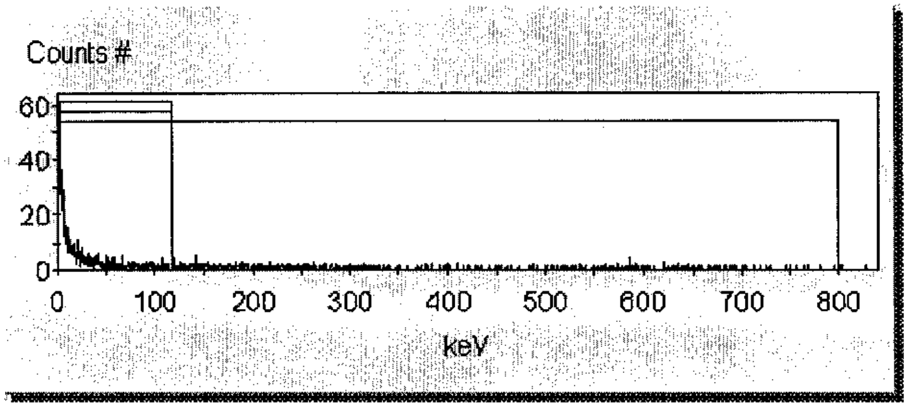
```
  S#   P#  PID  Count Time            SMPL ID        CPMA     DPM1      SIS     tSIE  MESSAGES  A:2S%    ELTIME   LUM
DATE            TIME  Eff Nucl In A
   1    5    1      60.00               Bkg-1        14.42       15   462.66   350.54             8.73   0:00:02    18
7/27/2011  11:12:29 AM         98.66
```

SpectraView Block Data



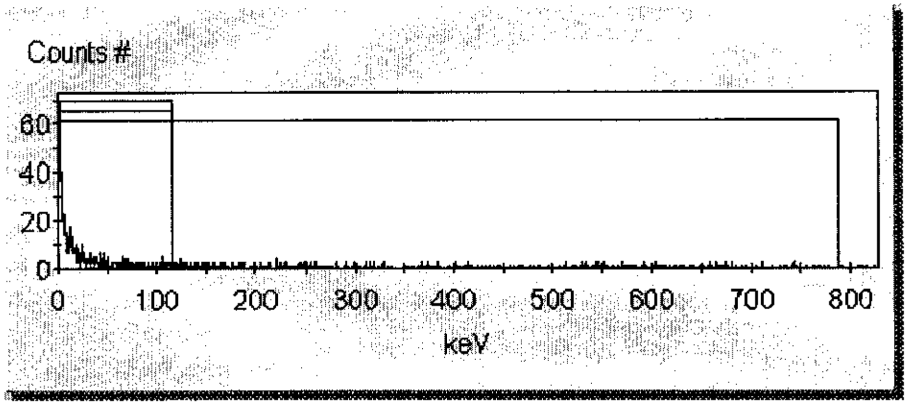
```
   2   5    1        60.00            Bkg-2        13.86       14   433.50   338.02              8.87   0:00:03    17
7/27/2011  12:14:01 PM            98.37
```

SpectraView Block Data



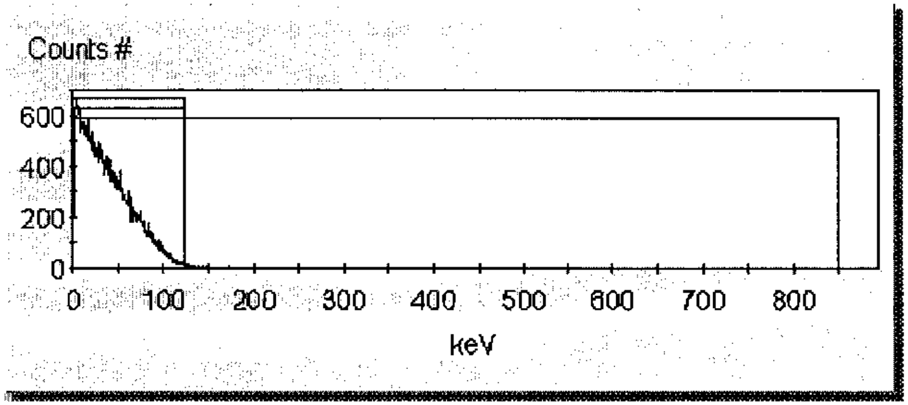
```
Missing vial 3.
   4   5    1        60.00         PBWG25JV1       15.55       16   452.73   331.83              8.30   0:00:04    17
7/27/2011   1:15:32 PM            98.11
```

SpectraView Block Data



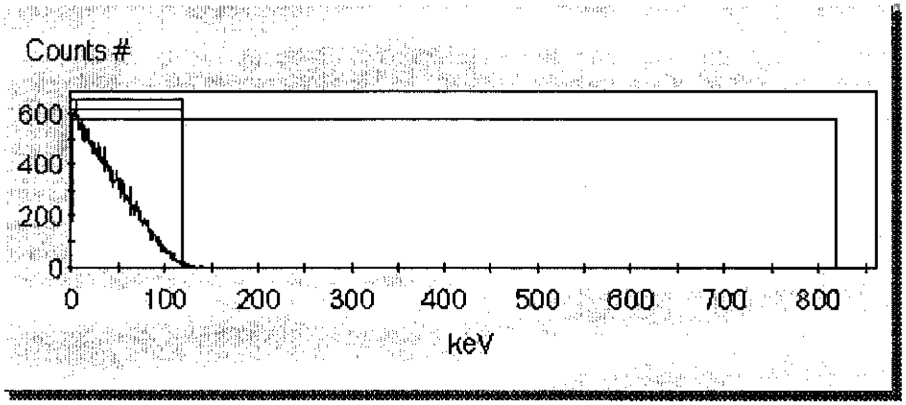
```
   5    5     1         60.00        LCSWG25JV1      1110.02      1122    132.96     365.87                 0.78    0:00:05     0
7/27/2011    2:17:04 PM            98.97
```

SpectraView Block Data



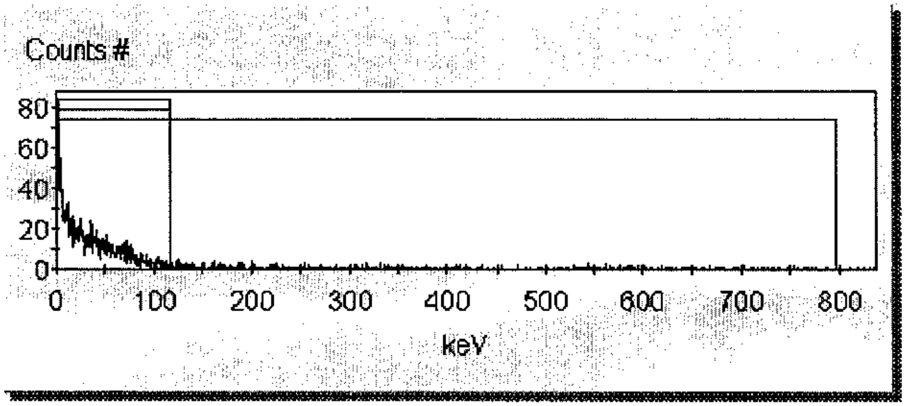
```
   6    5     1         60.00        LCSWG25JV2      1100.77      1116    133.31     349.38                 0.78    0:00:06     0
7/27/2011    3:18:37 PM            98.63
```

SpectraView Block Data



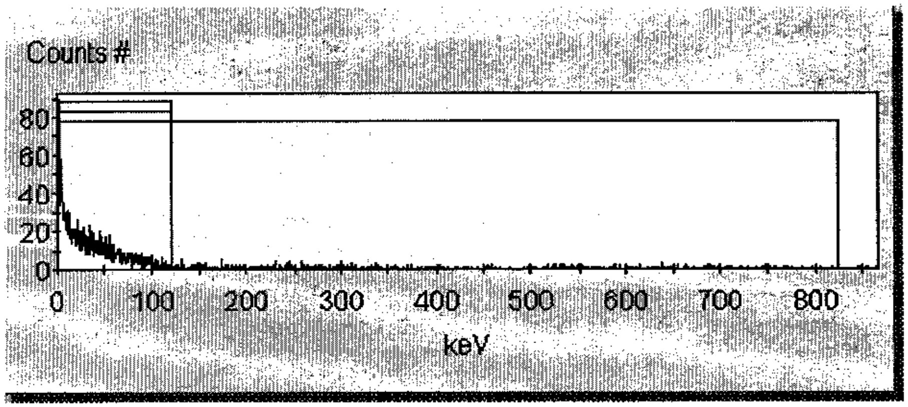
```
   7    5     1        60.00          469498-1         43.97        45    295.92    336.66                 4.29    0:00:08     8
7/27/2011    4:20:11 PM              98.31
```

SpectraView Block Data



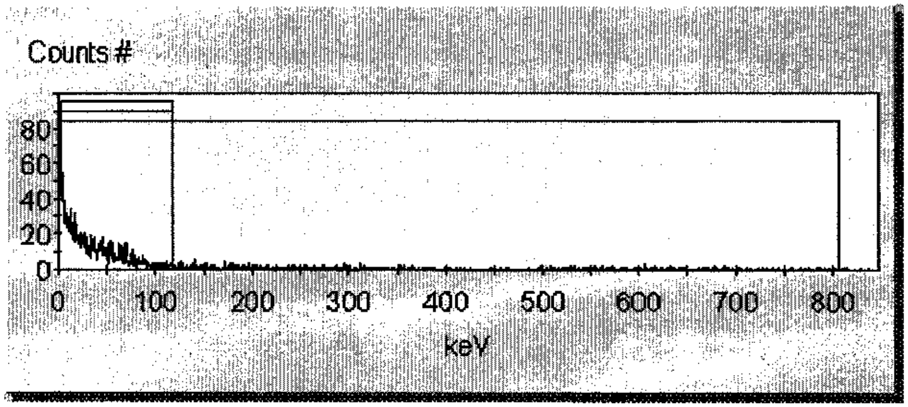
```
   8    5     1        60.00         469498D-1         44.48        45    284.26    351.63                 4.26    0:00:09     8
7/27/2011    5:21:42 PM              98.68
```

SpectraView Block Data



```
  9    5    1       60.00          469499-1         44.27        45    266.94    341.71                    4.28    0:00:10     8
7/27/2011    6:23:14 PM            98.48
```

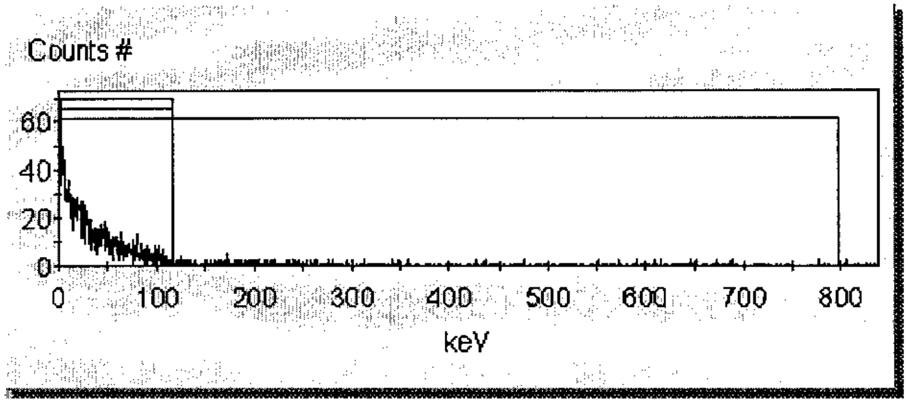
SpectraView Block Data



```
 10    5    1       60.00         469499D-1         43.97        45    281.35    336.77                    4.30    0:00:11     8
7/27/2011    7:24:46 PM            98.32
```

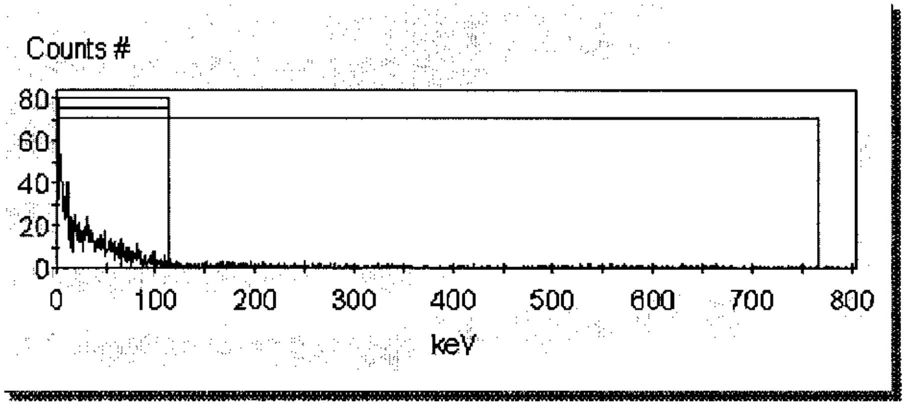
SpectraView Block Data

20110727_1111.results



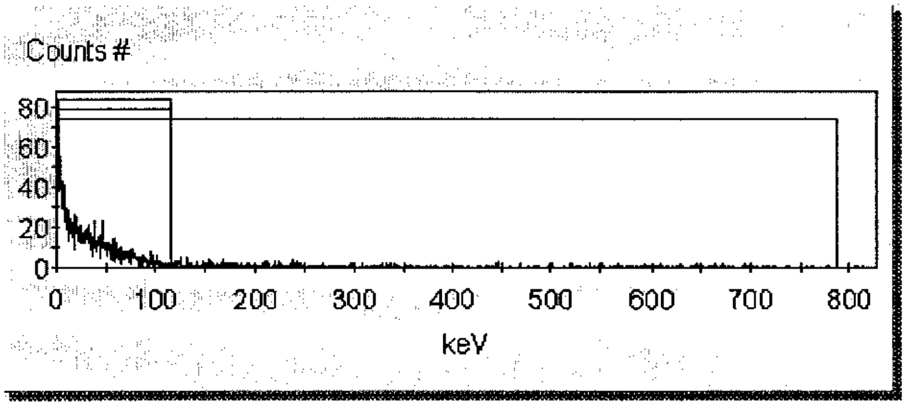
```
  11    5     1          60.00          469500-1          42.35        43    282.78    320.37                4.39    0:00:12      9
7/27/2011    8:26:18 PM             97.63
```

SpectraView Block Data



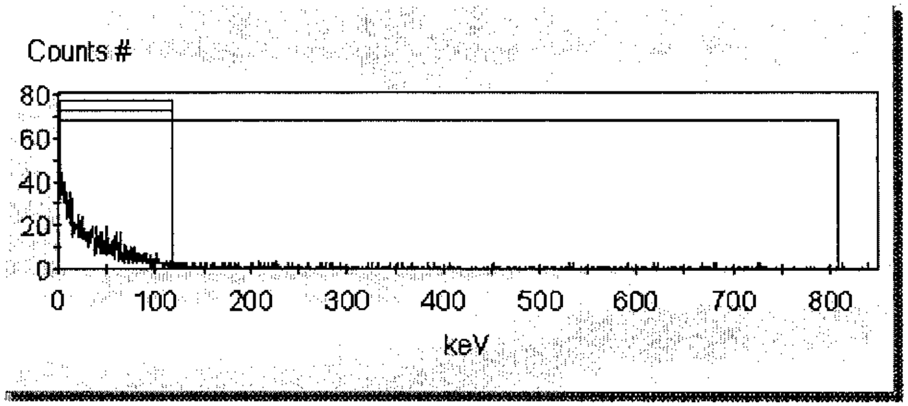
```
  12    5     1          60.00         469500D-1          41.86        43    279.63    331.35                4.43    0:00:14      9
7/27/2011    9:27:50 PM             98.09
```

SpectraView Block Data



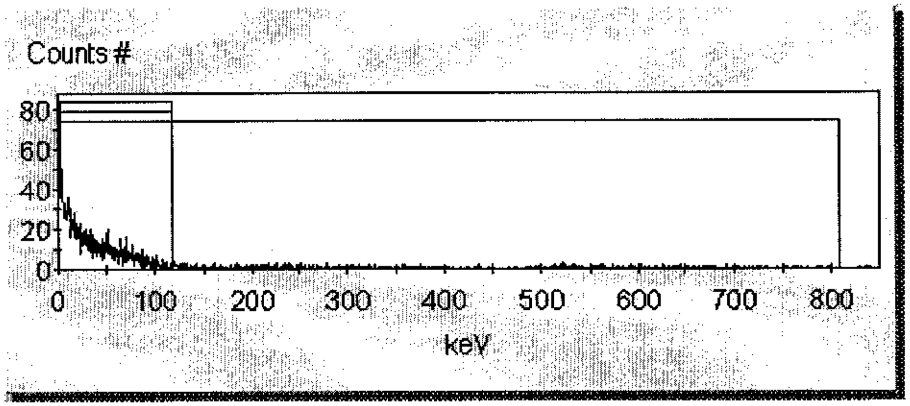
```
  13    5    19         60.00          469501-1        44.55        45   273.83   343.19                4.26    0:00:15     8
7/27/2011  10:29:27 PM              98.51
```

SpectraView Block Data



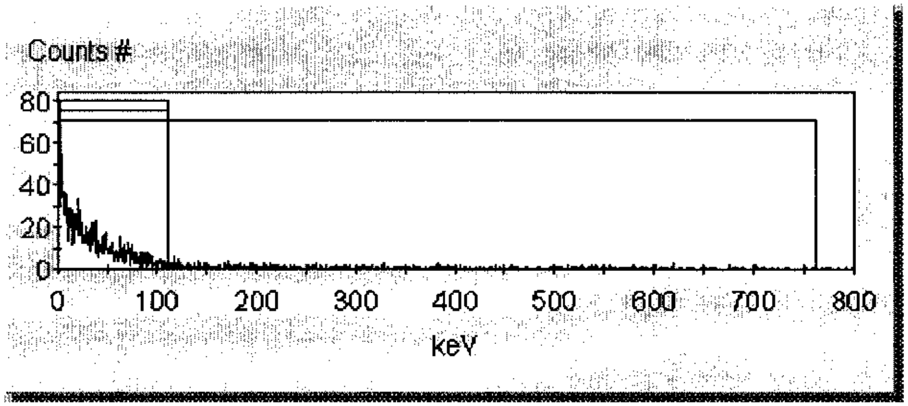
```
  14    5    19         60.00         469501D-1        42.83        43   298.96   342.87                4.36    0:00:16     9
7/27/2011  11:30:57 PM              98.50
```

SpectraView Block Data



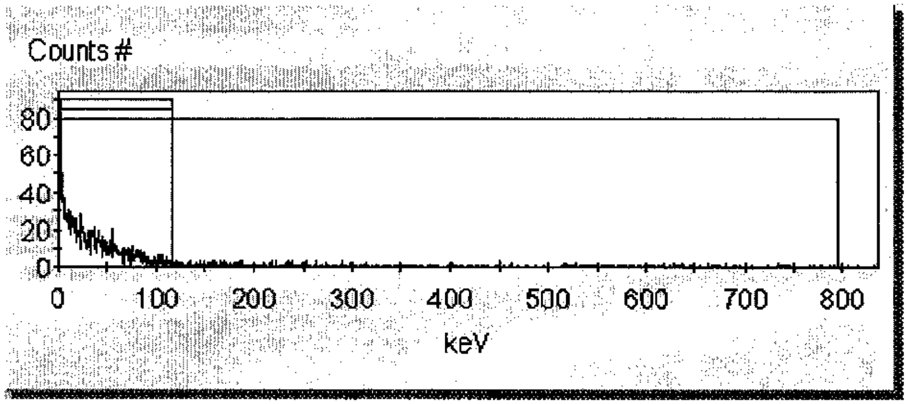
```
  15    5    19         60.00          469506-1         43.42        45    296.18    317.92                  4.33    0:00:17     8
7/28/2011   12:32:29 AM              97.52
```

SpectraView Block Data



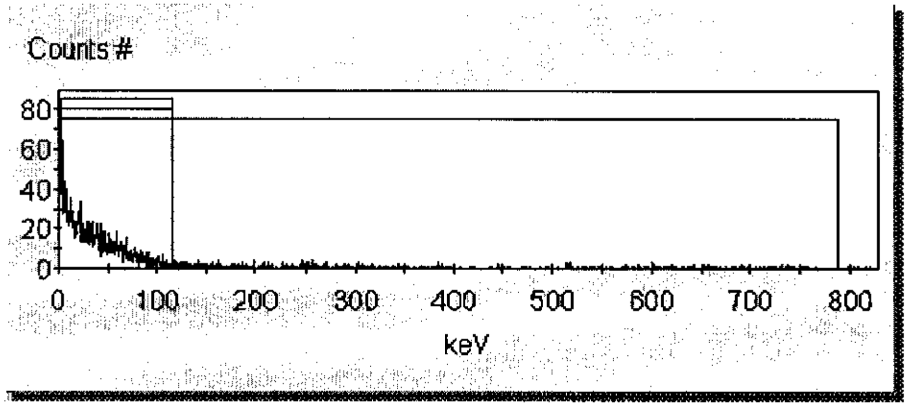
```
  16    5    19         60.00         469506D-1         43.71        44    264.94    336.13                  4.31    0:00:18     9
7/28/2011    1:34:01 AM              98.29
```

SpectraView Block Data



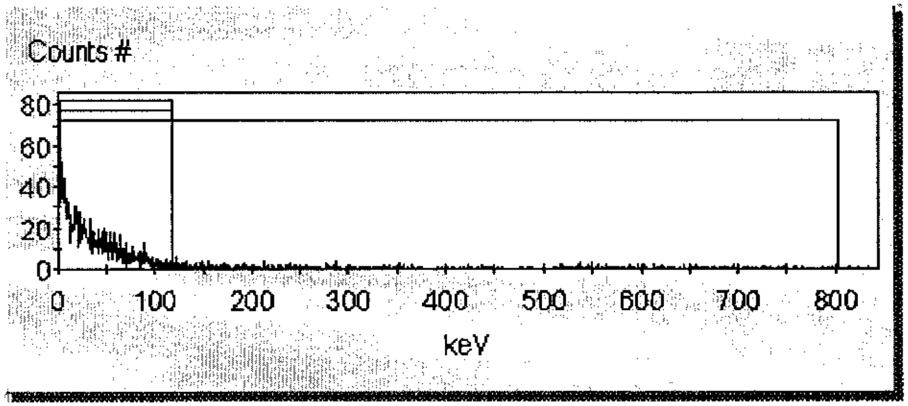
```
  17    5    19        60.00          BLANK-0        47.75       49    283.28    331.92              4.08    0:00:20     7
7/28/2011    2:35:34 AM           98.11
```

SpectraView Block Data



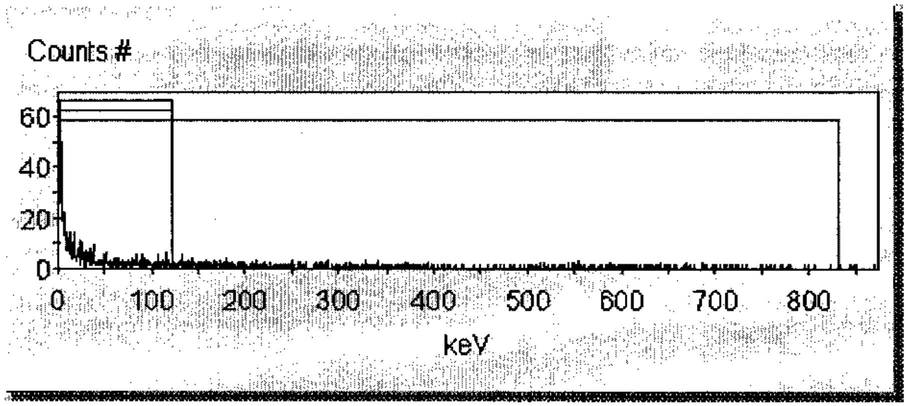
```
  18    5    19        60.00          BLANK-1        46.48       47    274.05    340.16              4.15    0:00:21     8
7/28/2011    3:37:05 AM           98.44
```

SpectraView Block Data



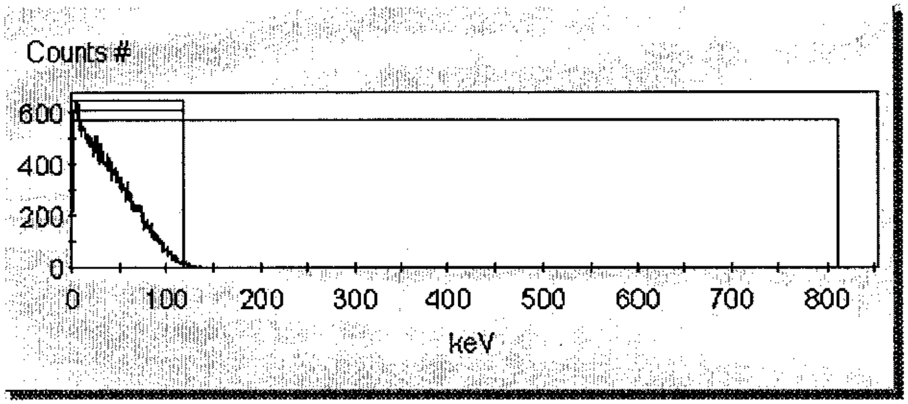
```
  19    5    19         60.00          PBWG25JV2         15.37        16    442.74    355.60                8.37    0:00:22    17
7/28/2011    4:38:37 AM              98.76

SpectraView Block Data
```



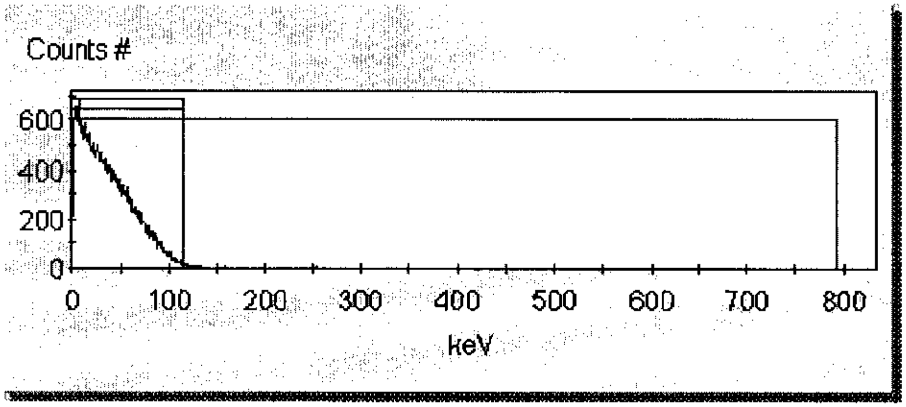
```
  20    5    19         60.00         LCSWG25JV3      1098.42      1114    133.39    345.86                0.78    0:00:23     0
7/28/2011    5:40:07 AM              98.56

SpectraView Block Data
```



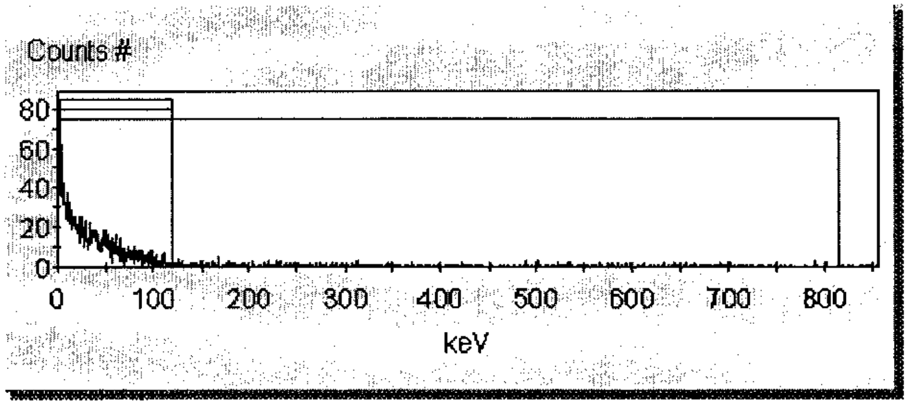
```
  21    5    19        60.00        LCSWG25JV4      1102.23     1122    128.82    334.73              0.78    0:00:24     0
7/28/2011    6:41:40 AM             98.23
```

SpectraView Block Data



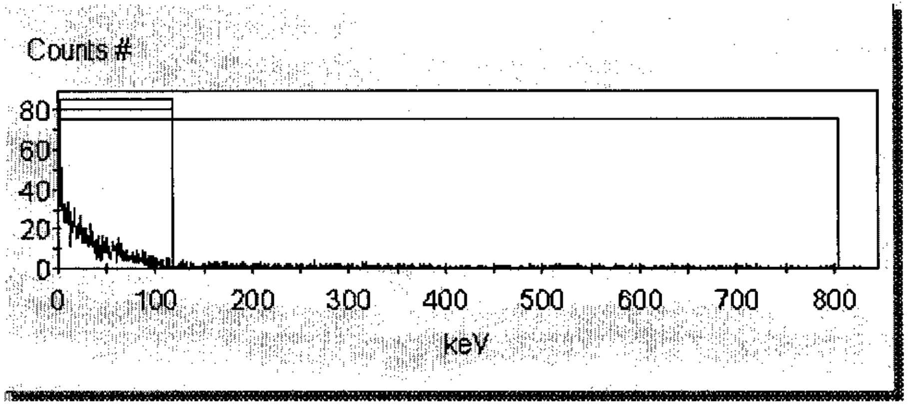
```
  22    5    19        60.00           BLANK-2        46.38       47    282.55    346.84              4.16    0:00:26     8
7/28/2011    7:43:13 AM             98.58
```

SpectraView Block Data



```
  23   5   19        60.00          469498-2        43.42       44    287.98    340.92                4.32    0:00:27     8
7/28/2011   8:44:43 AM           98.46
```

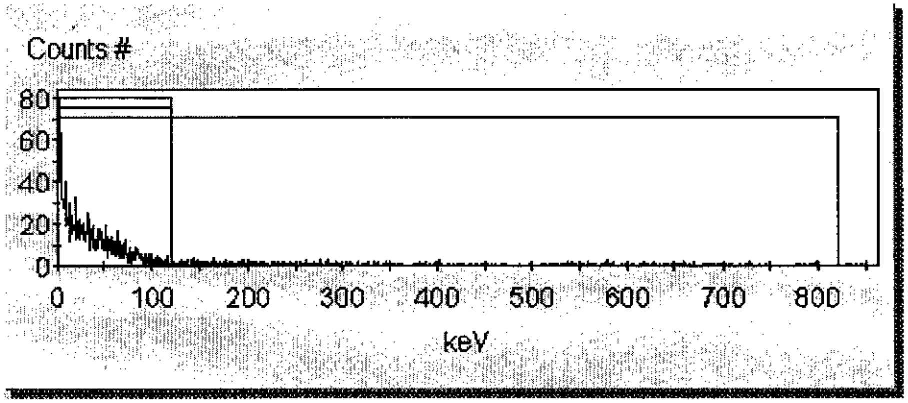
SpectraView Block Data



```
  24   5   19        60.00         469498D-2        43.67       44    289.20    350.29                4.30    0:00:28     8
7/28/2011   9:46:14 AM           98.65
```

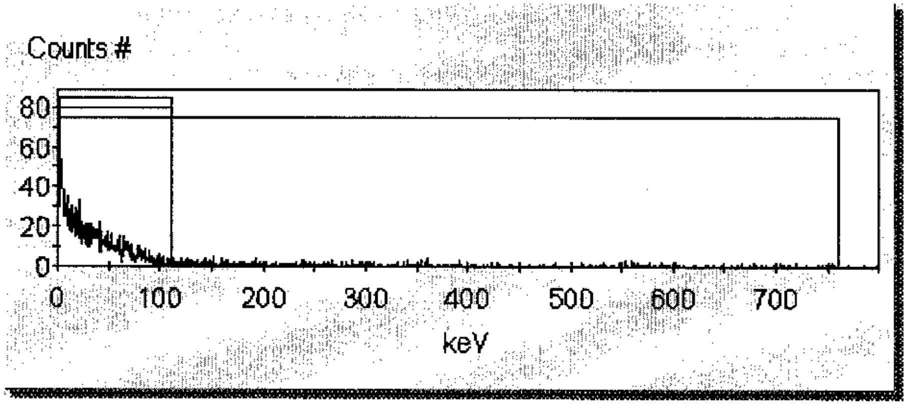
SpectraView Block Data

010050



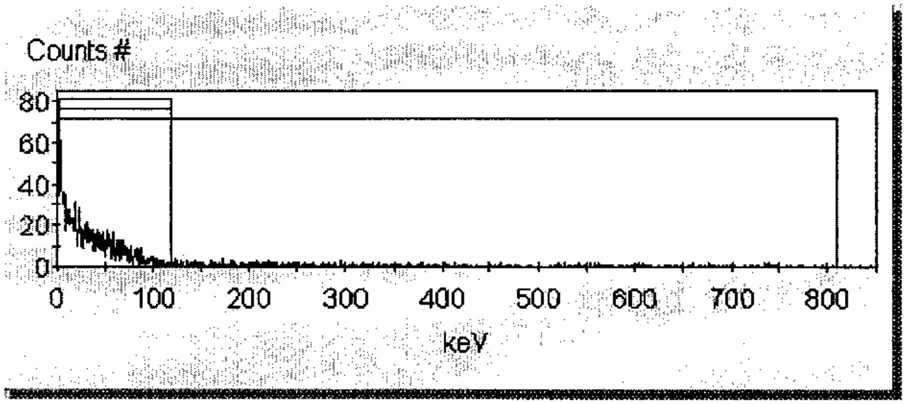
```
  25    5     6         60.00         469499-2        43.99       45    271.23    317.17                 4.28    0:00:29     8
7/28/2011   10:47:51 AM            97.49
```

SpectraView Block Data



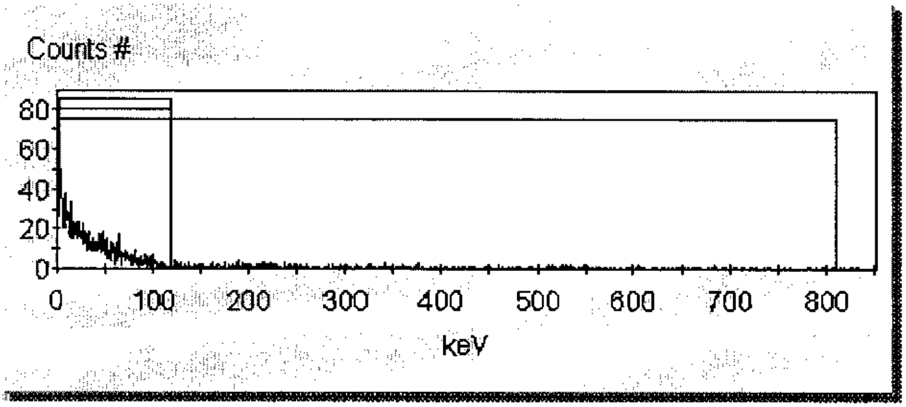
```
  26    5     6         60.00        469499D-2        43.31       44    278.90    343.57                 4.33    0:00:30     9
7/28/2011   11:49:23 AM            98.51
```

SpectraView Block Data



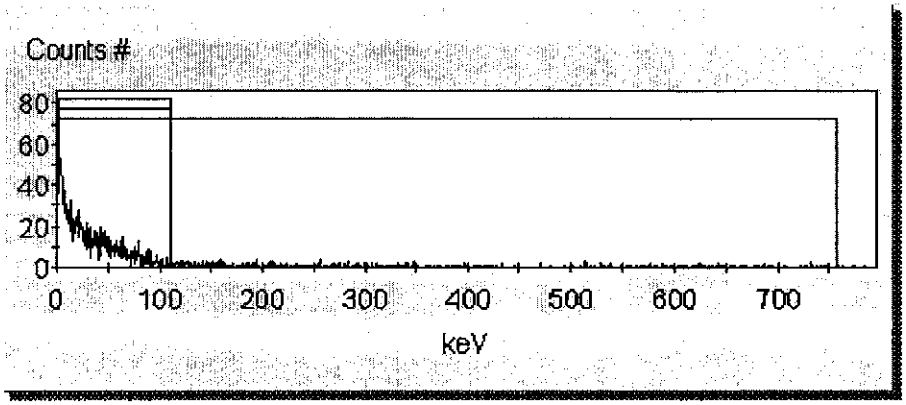
```
  27    5     6         60.00          469500-2         41.59         42    276.84    344.34                  4.43    0:00:31     9
7/28/2011   12:50:54 PM               98.53
```

SpectraView Block Data



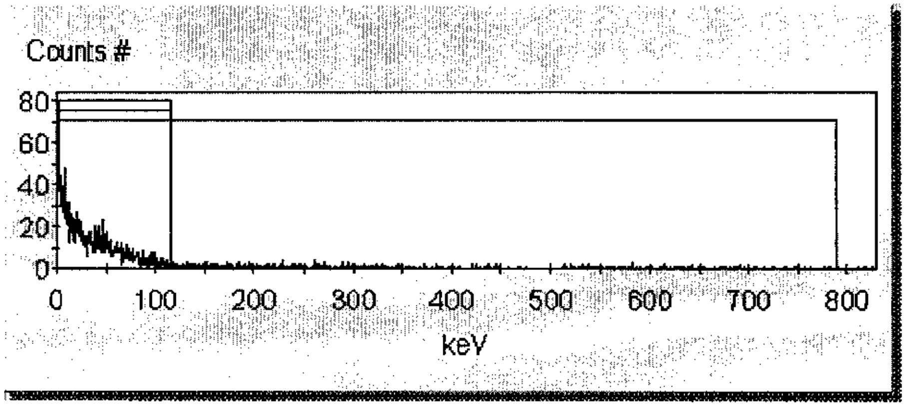
```
  28    5     6         60.00          469500D-2        43.05         44    273.15    314.74                  4.34    0:00:32     8
7/28/2011   1:52:25 PM                97.39
```

SpectraView Block Data



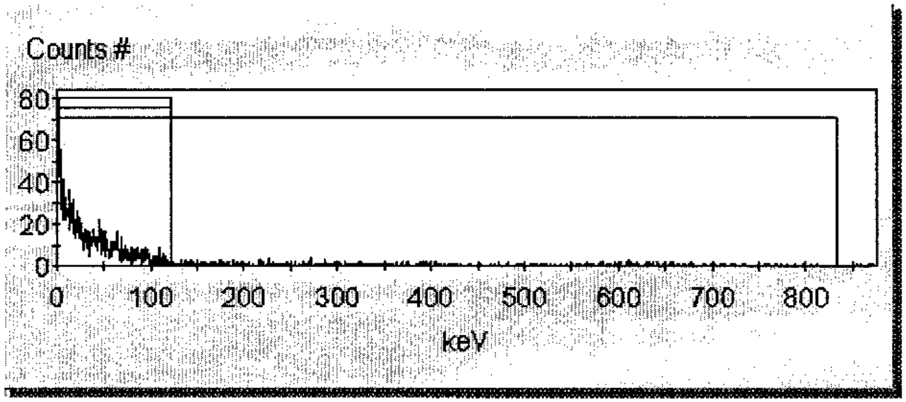
```
  29   5    6        60.00         469501-2        42.86       44    284.34    332.22                4.36    0:00:34     9
7/28/2011   2:53:55 PM            98.12
```

SpectraView Block Data



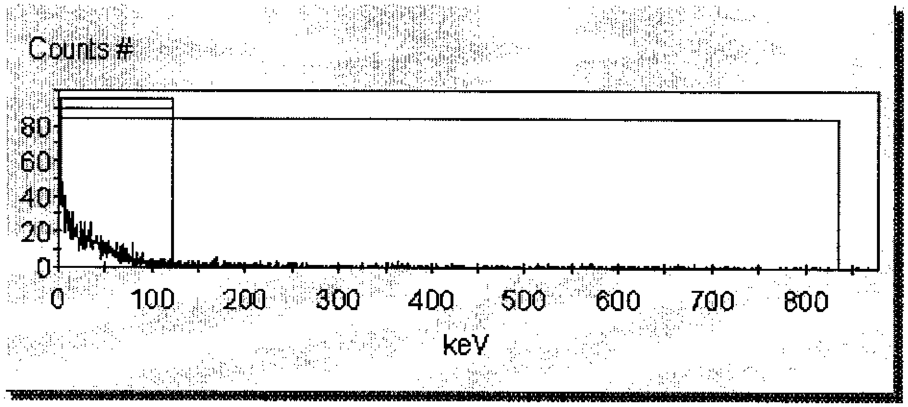
```
  30   5    6        60.00        469501D-2        44.05       45    296.74    356.35                4.30    0:00:35     9
7/28/2011   3:55:26 PM            98.78
```

SpectraView Block Data



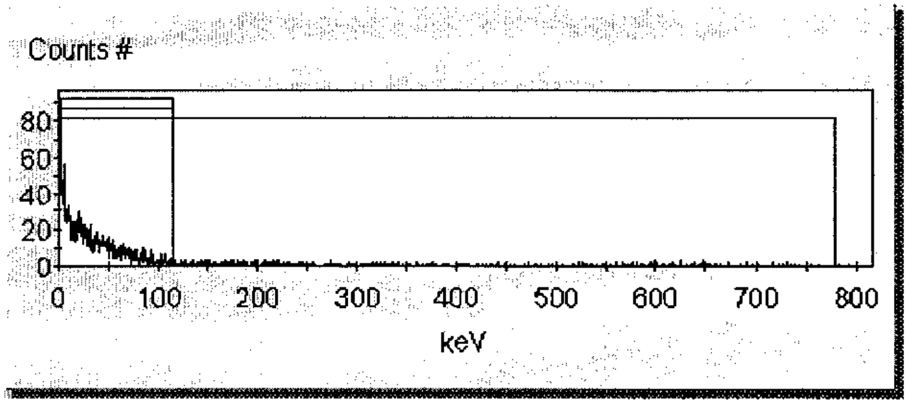
```
  31    5     6          60.00          469506-2          42.70        43    268.30    357.79                4.37    0:00:36     9
7/28/2011    4:56:54 PM              98.81
```

SpectraView Block Data



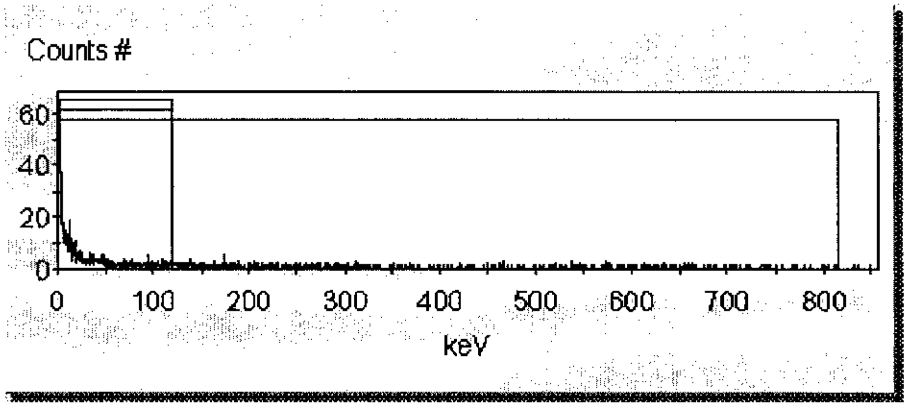
```
  32    5     6          60.00          469506-2          44.05        45    271.98    326.72                4.30    0:00:37     9
7/28/2011    5:58:24 PM              97.89
```

SpectraView Block Data



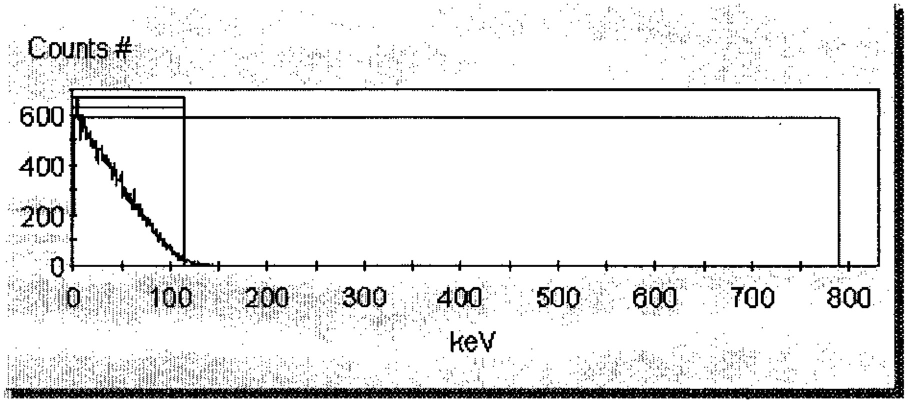
```
  33   5     6         60.00          PBWG26JV1        14.52       15    462.40    347.09                8.75    0:00:38    18
7/28/2011    6:59:54 PM              98.59
```

SpectraView Block Data



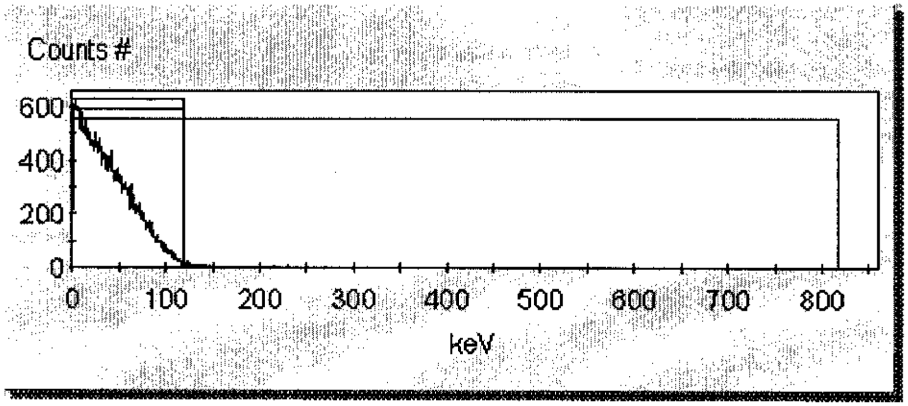
```
  34   5     6         60.00         LCSWG26JV1      1097.72     1118    132.76    333.19                0.78    0:00:39     0
7/28/2011    8:01:23 PM              98.16
```

SpectraView Block Data



```
  35    5     6          60.00         LCSWG26JV2      1093.58      1109    134.00    348.79                  0.78    0:00:40     0
7/28/2011    9:02:56 PM                98.62
```

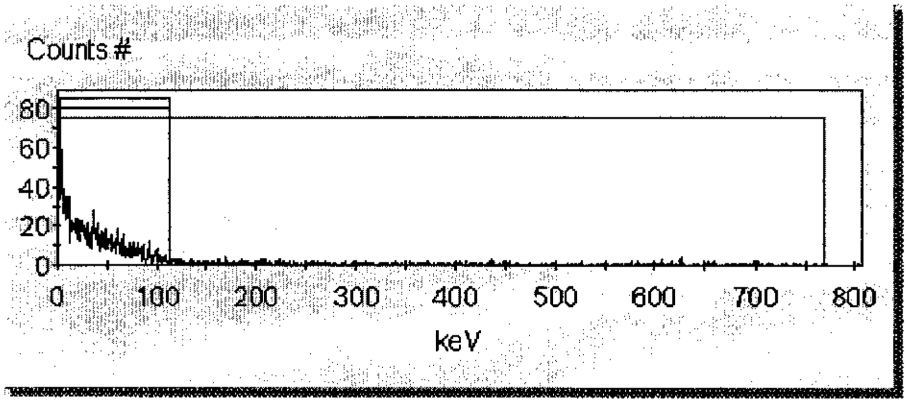
SpectraView Block Data



```
  36    5     6          60.00            BLANK-4        46.28        47    283.40    321.55                  4.17    0:00:41     8
7/28/2011   10:04:28 PM                97.68
```

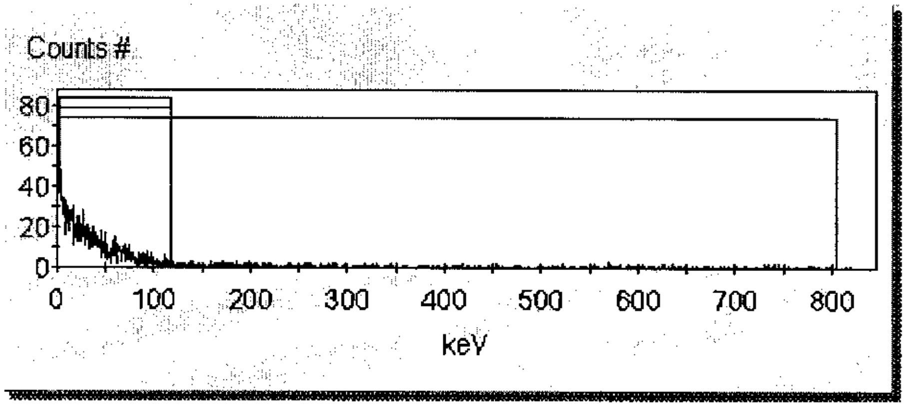
SpectraView Block Data

```
20110727_1111.results
```



```
  37    5     7         60.00          469498-4          41.79         42    286.53    341.24                 4.43    0:00:42      9
7/28/2011  11:06:05 PM            98.47

SpectraView Block Data
```



```
  38    5     7         60.00         469498D-4          44.42         45    294.82    350.59                 4.26    0:00:44      8
7/29/2011  12:07:35 AM            98.66
  39    5     7         60.00          469499-4          42.13         43    280.75    338.75                 4.41    0:00:44      9
7/29/2011   1:09:04 AM            98.40
  40    5     7         60.00         469499D-4          43.69         44    291.83    337.47                 4.31    0:00:44      8
7/29/2011   2:10:34 AM            98.34
```

```
   41    5    7         60.00          469500-4       42.54      43   264.60   353.15               4.39   0:00:44    9
  7/29/2011   3:12:02 AM          98.71
   42    5    7         60.00          469500D-4      41.22      42   287.93   346.41               4.45   0:00:45    9
  7/29/2011   4:13:32 AM          98.57
   43    5    7         60.00          469501-4       42.73      43   292.41   347.28               4.37   0:00:45    9
  7/29/2011   5:15:01 AM          98.59
   44    5    7         60.00          469501D-4      41.41      42   300.25   340.86               4.44   0:00:45    9
  7/29/2011   6:16:30 AM          98.46
   45    5    7         60.00          469506-4       44.35      45   301.47   336.21               4.26   0:00:45    8
  7/29/2011   7:17:59 AM          98.29
   46    5    7         60.00          469506D-4      42.88      43   303.85   350.37               4.35   0:00:46    8
  7/29/2011   8:19:28 AM          98.65
   47    5    7         60.00          PBWG26JV2      15.52      16   424.73   349.31               8.30   0:00:46   17
  7/29/2011   9:20:57 AM          98.63
   48    5    7         60.00          LCSWG26JV3   1099.09    1121   133.74   330.63               0.78   0:00:46    0
  7/29/2011  10:22:26 AM          98.06
   49    5    5         60.00          LCSWG26JV4   1098.36    1115   130.13   344.98               0.78   0:00:46    0
  7/29/2011  11:24:04 AM          98.54
   50    5    5         60.00             BLANK-7     46.31      47   278.00   335.22               4.16   0:00:47    8
  7/29/2011  12:25:34 PM          98.25
   51    5    5         60.00          469498-7       40.23      41   290.99   318.22               4.52   0:00:47    9
  7/29/2011   1:27:04 PM          97.54
   52    5    5         60.00          469498D-7      41.62      42   305.05   345.60               4.42   0:00:47    8
  7/29/2011   2:28:34 PM          98.56
   53    5    5         60.00          469499-7       43.30      44   297.90   360.46               4.33   0:00:47    8
  7/29/2011   3:30:04 PM          98.86
   54    5    5         60.00          469499D-7      42.00      43   275.45   339.75               4.42   0:00:48    9
  7/29/2011   4:31:33 PM          98.44
   55    5    5         60.00          469500-7       40.95      42   280.34   297.99               4.47   0:00:48    9
  7/29/2011   5:33:03 PM          97.30
   56    5    5         60.00          469500D-7      40.38      41   296.70   329.53               4.53   0:00:48    9
  7/29/2011   6:34:33 PM          98.01
   57    5    5         60.00          469501-7       42.18      43   294.83   333.54               4.39   0:00:48    8
  7/29/2011   7:36:04 PM          98.18
   58    5    5         60.00          469501D-7      43.87      45   272.59   315.53               4.29   0:00:49    8
  7/29/2011   8:37:32 PM          97.42
   59    5    5         60.00          469506-7       42.36      43   316.64   327.12               4.38   0:00:49    8
  7/29/2011   9:39:02 PM          97.91
   60    5    5         60.00          469506D-7      44.87      46   266.71   335.90               4.24   0:00:49    8
  7/29/2011  10:40:32 PM          98.28
   61    5   14         60.00          469498-10      41.97      43   282.20   343.09               4.41   0:00:49    9
  7/29/2011  11:42:08 PM          98.50
   62    5   14         60.00          469498D-10     30.07      30   327.72   352.47               5.40   0:00:50   11
  7/30/2011  12:43:45 AM          98.70
   63    5   14         60.00          469499-10      42.56      43   290.23   355.31               4.37   0:00:50    9
  7/30/2011   1:45:15 AM          98.75
```

```
  64    5    14         60.00         469499D-10        42.03        42    299.26    365.91                4.42    0:00:50      9
 7/30/2011    2:46:47 AM              98.97
  65    5    14         60.00          469500-10        40.47        41    297.72    322.23                4.51    0:00:50      9
 7/30/2011    3:48:19 AM              97.70
  66    5    14         60.00         469500D-10        42.15        43    272.94    325.68                4.39    0:00:51      9
 7/30/2011    4:49:51 AM              97.85
  67    5    14         60.00          469501-10        41.61        42    306.15    346.39                4.43    0:00:51      9
 7/30/2011    5:51:21 AM              98.57
  68    5    14         60.00         469501D-10        43.27        44    283.06    337.43                4.32    0:00:51      8
 7/30/2011    6:52:51 AM              98.34
  69    5    14         60.00          469506-10        42.45        43    300.48    336.45                4.38    0:00:51      9
 7/30/2011    7:54:22 AM              98.30
  70    5    14         60.00         469506D-10        42.69        43    307.90    354.99                4.37    0:00:52      8
 7/30/2011    8:55:53 AM              98.75
  71    5    14         60.00           BLANK-10        47.46        48    272.42    344.28                4.11    0:00:52      8
 7/30/2011    9:57:23 AM              98.53
```

010060

Tc99
Prep Logs

010061

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D._11-0406-033

BOOK / PAGE:__12 0077

CONTINUED ON PAGE 12-098

CLIENT(S): FLUOR B&W PORTSMOUTH LLC
TASK ORDER(S): 110614.8 SDG(S): SRR # 44937
PROJECT NO(S): 16526.05.006
METHOD: TC 99
TAP: 01-0411.049 REV. # 4
MATRIX: Water ✓ Soil ✓ Biota___ Solid___ Liquid___ TCLP Ext___ OTHER
INSTRUMENT: Gamma___ Alpha___ LSC ✓ GPC___ ICP/MS___ OTHER
ACID INORG #: HNO_3# ✓ ~~9143~~ 9145 HCl#___ H_2SO_4#___ $HClO_4$#___ HF#___ H_2O_2# ✓ 9029
Tracer(s): N/A 07/24 JVW * 0.5mL TC 99 SPK: 038 RAD SOL 3
[✓ Oven/Hotplate]/ Block ID: # 4 Temperature (°C): 125°C

	SAMPLE ID	F.V. FROM WETCHEM PREP.	VOL TAKEN FOR COLUMNS	(1M HNO_3) F.V. BEFORE COLUMNS			
1	PBLWG25 JV1	—	—	50mL			
2	LCSWG25 JV1 *	—	—	↑			
3	LCSWG25 JV2 *	—	—				
4	469498-1	~200mL	100mL				
5	498D-1	~200mL	100mL				
6	499-1						
7	499D-1						
8	500-1						
9	500D-1						
10	501-1						
11	501D-1						
12	506-1						
13	506D-1						
14	BLANK DAY-0						
15	BLANK DAY-1	↓	↓				
	JVW	07/25/11	"VOID"	LINE			
16	PBWG25 JV2	JVW 07/25/11 —	—				
17	LCSWG25 JV3 *	—	—				
18	LCSWG25 ~~JV~~ JV4 *	—	—				
19	BLANK DAY-2	~200mL	100mL				
20	469498-2						
21	469498D-2						
22	469499-2						
23	499D-2						
24	500-2						
25	500D-2	↓	↓	↓			

JVW 07/25/11

PREPARED BY: JVW DATE: 07/25/11
REVIEWED BY: DATE: 08/01/11
LOCATION: DISPOSAL:

010062

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D._11-0406-033

BOOK / PAGE: 12 0078

CONTINUED FROM PAGE 12-077

CLIENT(S): FLUOR B&W PORTSMOUTH

TASK ORDER(S): 110614-8 SDG(S): SRR # 44937

PROJECT NO(S): 16526.05.006

METHOD: TC 99

TAP: 01-0911-049-REV. #4

MATRIX: Water ✓ Soil ✓ Biota___ Solid___ Liquid___ TCLP Ext___ OTHER___

INSTRUMENT: Gamma___ Alpha___ LSC ✓ GPC___ ICP/MS___ OTHER___

ACID INORG #: HNO_3# ✓ 9143 HCl#___ H_2SO_4#___ $HClO_4$#___ HF#___ H_2O_2# ✓ 9029

Tracer(s): N/A

* 0.5mL TC 99 SPK: 038 RAD SOL 3

[Oven/ ✓ Hotplate]/ Block ID: #4 Temperature (°C): 125°C

	SAMPLE ID	F.V. FROM WETCHEM PREP	VOL. TAKEN FOR COLUMNS	1M HNO3 F.V. BEFORE COLUMNS			
26	4699 501-2	~200mL	100mL	50mL			
27	501D-B2						
28	506-2						
29	506D-2	07/25/11					
	PIPETTES: 5000-1	, 1000-N	, 200-1				

07/25/11

PREPARED BY: DATE: 07/25/11

REVIEWED BY: DATE: 08/01/11

LOCATION: DISPOSAL:

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D. 11-0406-033

BOOK / PAGE: 12 0079

CONTINUED ON PAGE # 12-080

CLIENT(S): FLUOR B&W PORTSMOUTH
TASK ORDER(S): 1106 14-8 SDG(S): SRR# 44937
PROJECT NO(S): 16526.05.006
METHOD: TC 99
TAP: 01-0411-049 REV. # 4
MATRIX: Water ✓ Soil ✓ Biota___Solid___Liquid___TCLP Ext___OTHER
INSTRUMENT: Gamma___Alpha___LSC ✓ GPC___ICP/MS___OTHER
ACID INORG #: HNO_3# ✓ 9143 HCl#___ H_2SO_4#___ $HClO_4$#___ HF#___ H_2O_2# ✓ 9029
Tracer(s): N/A * 0.5mL TC 99 SPK.: 038 RAD ~~SOL~~ SOL 3 JW RE 07/26/11
Oven/[✓ Hotplate]/ Block ID: # 4:6 RE 07/26/11 JW Temperature (°C): 125° C

	SAMPLE ID	F.V. FROM WET CHEM PREP.	VOL TAKEN FOR COLUMNS	1M HNO3 F.V. BEFORE COLUMNS			
1	PBWG26 JV1	~~~200mL~~	—	50mL			
2	LCSWG26 JV1*	—	—	50mL			
3	LCSWG26 JV2*	—	—	50mL			
4	BLANK-4	~200mL	100mL				
5	469498-4						
6	498D-4						
7	499-4						
8	499D-4						
9	500-4						
10	500D-4						
11	501-4						
12	501D-4						
13	506-4						
14	506D-4						
15	PBWG26 JV2	—	—				
16	LCSWG26 JV3	—	—				
17	LCSWG26 JV4	—	—				
18	BLANK-7	~200mL	100mL				
19	469498-7						
20	498D-7						
21	499-7						
22	499D-7						
23	500-7						
24	500D-7						
25	501-7						
26	501D-7						

JW 07/26/11

PREPARED BY: JW DATE: 07/26/11
REVIEWED BY: DATE: 08/04/11
LOCATION: DISPOSAL:

010064

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D._11-0406-033

BOOK / PAGE:__12 0080___

CONTINUED FROM PAGE 12-079

CLIENT(S): FLUOR B&W PORTSMOUTH jw 07/26/11 110614-8

TASK ORDER(S): 16526.05.006 jw 110614-8 SDG(S): SRR # 44937

PROJECT NO(S): 16526.05.006

METHOD: TC 99

TAP: 01-0411-049 REV. # 4

MATRIX: Water ✓ Soil ✓ Biota___Solid___Liquid___TCLP Ext___OTHER

INSTRUMENT: Gamma___Alpha___LSC ✓ GPC___ICP/MS___OTHER

ACID INORG #: HNO_3# 9143 HCl#___ H_2SO_4#___ $HClO_4$#___ HF#___ H_2O_2# ✓ 9029

Tracer(s): * 0.5mL TC 99 SPK: 038 RAD SOL 3

Oven/[✓ Hotplate]/Block ID: #4&6 Temperature (°C): 125°C

SAMPLE ID	F.V. FROM WETCHEM PREP.	VOL TAKEN FOR COLUMNS	F.V. (1M HNO3) BEFORE COLUMNS			
27 469506-7	~200mL	100mL	50mL			
28 506D-7			50mL			
29 469498-10						
30 498D-10		50mL **				
31 499-10		100mL				
32 499D-10						
33 500-10						
34 500D-10						
35 501-10						
36 501D-10						
37 506-10						
38 506D-10						
39 BLANK-10						

NOTE:
** LIMITED VOLUME ON THIS SAMPLE, DUE TO A SPILL OF THE ORIGINAL ALIQUOT.
jw 07/26/11

07/26/11 jw (RE)

PIPETTES: 5000-3, 1000-2, 200-N

jw 07/26/11

PREPARED BY: jw DATE: 07/26/11

REVIEWED BY: DATE: 08/01/11

LOCATION: DISPOSAL:

FRM-018 (Rev 1/May 10)

ICPMS Total U Data for Distribution Coefficient

8/29/11

469498 d1
for tot U

4467 ng/L × df 1 = 4467 ng/L =
4470 ng/L

Fluor-B&W Portsmouth LLC
16526.05.006
to#110614-8
Note: Uncertainty based on 6% result and 50% RL

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
S-0	U-tot															0	07/25/11	5:09 PM
S-0	U 236-IS															100	07/25/11	5:09 PM
S-1	U-tot															44984	07/25/11	5:11 PM
S-1	U 236-IS															100.26155	07/25/11	5:11 PM
icv	U-tot	8090			ng/L	40		105.5%	7670	40	8089.73479	8090		1	40	8089.73479	07/25/11	5:14 PM
icv	U 236-IS	98.6			%R	0.5		#DIV/0!	0	0.5	98.58392	98.6		1	0.5	98.58392	07/25/11	5:14 PM
icb	U-tot	40.0	U		ng/L	40				40	-2.64288	-2.64		1	40	-2.64288	07/25/11	5:16 PM
icb	U 236-IS	99.7			%R	0.5				0.5	99.69735	99.7		1	0.5	99.69735	07/25/11	5:16 PM
critotU	U-tot	40.0	U		ng/L	40		97.3%	40.0	40	38.85221	38.9		1	40	38.85221	07/25/11	5:18 PM
critotU	U 236-IS	99.0			%R	0.5		#DIV/0!	0	0.5	98.96877	99		1	0.5	98.96877	07/25/11	5:18 PM
cri235	U-tot									40	718.88813	719		1	40	718.88813	07/25/11	5:21 PM
cri235	U 236-IS									0.5	99.95516	100		1	0.5	99.95516	07/25/11	5:21 PM
icsa	U-tot	40.0	U	#DIV/0!	ng/L	40		#DIV/0!	0	40	7.34334	7.34		1	40	7.34334	07/25/11	5:23 PM
icsa	U 236-IS	88.5			%R	0.5		#DIV/0!	0	0.5	88.47391	88.5		1	0.5	88.47391	07/25/11	5:23 PM
icsab	U-tot	20500			ng/L	40		100.5%	20400	40	20461.97372	20500		1	40	20461.97372	07/25/11	5:25 PM
icsab	U 236-IS	89.3			%R	0.5		#DIV/0!	0	0.5	89.32197	89.3		1	0.5	89.32197	07/25/11	5:25 PM
zzz	U-tot	40.0	U		ng/L	40				40	3.48816	3.49		1	40	3.48816	07/25/11	5:28 PM
zzz	U 236-IS	91.4			%R	0.5				0.5	91.42162	91.4		1	0.5	91.42162	07/25/11	5:28 PM
ccv	U-tot	8140			ng/L	40		106.1%	7670	40	8142.88178	8140		1	40	8142.88178	07/25/11	5:30 PM
ccv	U 236-IS	91.7			%R	0.5		#DIV/0!	0	0.5	91.72051	91.7		1	0.5	91.72051	07/25/11	5:30 PM
ccb	U-tot	40.0	U		ng/L	40				40	0.87667	0.877		1	40	0.87667	07/25/11	5:32 PM
ccb	U 236-IS	92.9			%R	0.5				0.5	92.9198	92.9		1	0.5	92.9198	07/25/11	5:32 PM
Blankd0	U-tot	4970			ng/L	40				40	4967.06515	4970	299	1	40	4967.06515	07/25/11	5:35 PM
Blankd0	U 236-IS	88.9			%R	0.5				0.5	88.9409	88.9		1	0.5	88.9409	07/25/11	5:35 PM
Blankd1	U-tot	4560			ng/L	40				40	4556.3906	4560	274	1	40	4556.3906	07/25/11	5:37 PM
Blankd1	U 236-IS	84.4			%R	0.5				0.5	84.39059	84.4		1	0.5	84.39059	07/25/11	5:37 PM
469498d1	U-tot	4470	✓		ng/L	40				40	4467.36138	4470	269	1	40	4467.36138	07/25/11	5:39 PM
469498d1	U 236-IS	85.4			%R	0.5				0.5	85.42542	85.4		1	0.5	85.42542	07/25/11	5:39 PM
469498d1D	U-tot	4480			ng/L	40	0.2%			40	4479.04515	4480	270	1	40	4479.04515	07/25/11	5:42 PM
469498d1D	U 236-IS	84.3			%R	0.5	1.3%			0.5	84.2561	84.3		1	0.5	84.2561	07/25/11	5:42 PM
469498d1L	U-tot	4450			ng/L	200	0.4%			40	4454.9335	4450	285	5	200	890.9867	07/25/11	5:44 PM
469498d1L	U 236-IS	85.3			%R	0.5	0.1%			0.5	85.32454	85.3		5	0.5	85.32454	07/25/11	5:44 PM
469498d1AS	U-tot	24900			ng/L	40		99.7%	20500	40	24942.8325	24900	1494	1	40	24942.8325	07/25/11	5:46 PM
469498d1AS	U 236-IS	86.3			%R	0.5		#DIV/0!	0	0.5	86.30334	86.3		1	0.5	86.30334	07/25/11	5:46 PM
zzz	U-tot	40.0	U		ng/L	40				40	8.4142	8.41		1	40	8.4142	07/25/11	5:48 PM
zzz	U 236-IS	85.7			%R	0.5				0.5	85.68692	85.7		1	0.5	85.68692	07/25/11	5:48 PM
critotU	U-tot	40.0	U		ng/L	40		94.5%	40.0	40	37.83129	37.8		1	40	37.83129	07/25/11	5:51 PM
critotU	U 236-IS	88.0			%R	0.5		#DIV/0!	0	0.5	88.0368	88		1	0.5	88.0368	07/25/11	5:51 PM
cri235	U-tot									40	713.94839	714		1	40	713.94839	07/25/11	5:53 PM
cri235	U 236-IS									0.5	89.46769	89.5		1	0.5	89.46769	07/25/11	5:53 PM
ccv	U-tot	7880			ng/L	40		102.7%	7670	40	7875.45224	7880		1	40	7875.45224	07/25/11	5:56 PM
ccv	U 236-IS	90.4			%R	0.5		#DIV/0!	0	0.5	90.41663	90.4		1	0.5	90.41663	07/25/11	5:56 PM
ccb	U-tot	40.0	U		ng/L	40				40	-0.5279	-0.528		1	40	-0.5279	07/25/11	5:58 PM
ccb	U 236-IS	89.2			%R	0.5				0.5	89.15759	89.2		1	0.5	89.15759	07/25/11	5:58 PM
469499d1	U-tot	4420			ng/L	40				40	4421.31466	4420	266	1	40	4421.31466	07/25/11	6:00 PM

8/29/11

Fluor-B&W Portsmouth LLC
16526.05.006
to#110614-8
Note: Uncertainty based on 6% result and 50% RL

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
469499d1	U 236-IS	86.9			%R	0.5				0.5	86.94218	86.9		1	0.5	86.94218	07/25/11	6:00 PM
469499d1D	U-tot	4520			ng/L	40	2.2%			40	4520.02361	4520	272	1	40	4520.02361	07/25/11	6:02 PM
469499d1D	U 236-IS	86.9			%R	0.5	0.0%			0.5	86.91602	86.9		1	0.5	86.91602	07/25/11	6:02 PM
469500d1	U-tot	3550			ng/L	40				40	3550.48427	3550	214	1	40	3550.48427	07/25/11	6:05 PM
469500d1	U 236-IS	86.9			%R	0.5				0.5	86.89735	86.9		1	0.5	86.89735	07/25/11	6:05 PM
469500d1D	U-tot	3780			ng/L	40	6.3%			40	3775.00139	3780	228	1	40	3775.00139	07/25/11	6:07 PM
469500d1D	U 236-IS	88.9			%R	0.5	2.3%			0.5	88.89607	88.9		1	0.5	88.89607	07/25/11	6:07 PM
469501d1	U-tot	4570			ng/L	40				40	4570.26282	4570	275	1	40	4570.26282	07/25/11	6:10 PM
469501d1	U 236-IS	89.7			%R	0.5				0.5	89.73293	89.7		1	0.5	89.73293	07/25/11	6:10 PM
469501d1D	U-tot	4510			ng/L	40	1.3%			40	4513.17065	4510	271	1	40	4513.17065	07/25/11	6:12 PM
469501d1D	U 236-IS	90.8			%R	0.5	1.2%			0.5	90.82386	90.8		1	0.5	90.82386	07/25/11	6:12 PM
469506d1	U-tot	4500			ng/L	40				40	4495.79295	4500	271	1	40	4495.79295	07/25/11	6:14 PM
469506d1	U 236-IS	92.4			%R	0.5				0.5	92.41169	92.4		1	0.5	92.41169	07/25/11	6:14 PM
zzz	U-tot	40.0	U		ng/L	40				40	3.19982	3.2		1	40	3.19982	07/25/11	6:17 PM
zzz	U 236-IS	94.0			%R	0.5				0.5	93.98833	94		1	0.5	93.98833	07/25/11	6:17 PM
critotU	U-tot	41.8			ng/L	40		104.5%	40.0	40	41.80453	41.8		1	40	41.80453	07/25/11	6:19 PM
critotU	U 236-IS	95.2			%R	0.5		#DIV/0!	0	0.5	95.16897	95.2		1	0.5	95.16897	07/25/11	6:19 PM
cri235	U-tot									40	722.30911	722		1	40	722.30911	07/25/11	6:21 PM
cri235	U 236-IS									0.5	97.37336	97.4		1	0.5	97.37336	07/25/11	6:21 PM
ccv	U-tot	8100			ng/L	40		105.6%	7670	40	8098.6229	8100		1	40	8098.6229	07/25/11	6:24 PM
ccv	U 236-IS	96.3			%R	0.5		#DIV/0!	0	0.5	96.27115	96.3		1	0.5	96.27115	07/25/11	6:24 PM
ccb	U-tot	40.0	U		ng/L	40				40	-1.6783	-1.68		1	40	-1.6783	07/25/11	6:26 PM
ccb	U 236-IS	96.5			%R	0.5				0.5	96.45423	96.5		1	0.5	96.45423	07/25/11	6:26 PM
469506d1D	U-tot	4400			ng/L	40	2.2%			40	4397.02556	4400	265	1	40	4397.02556	07/25/11	6:28 PM
469506d1D	U 236-IS	94.2			%R	0.5	1.9%			0.5	94.16768	94.2		1	0.5	94.16768	07/25/11	6:28 PM
Blankd2	U-tot	4610			ng/L	40				40	4612.21562	4610	277	1	40	4612.21562	07/25/11	6:31 PM
Blankd2	U 236-IS	94.0			%R	0.5				0.5	93.96592	94		1	0.5	93.96592	07/25/11	6:31 PM
469498d2	U-tot	4570			ng/L	40				40	4573.61164	4570	275	1	40	4573.61164	07/25/11	6:33 PM
469498d2	U 236-IS	94.8			%R	0.5				0.5	94.80655	94.8		1	0.5	94.80655	07/25/11	6:33 PM
469498d2D	U-tot	4680			ng/L	40	2.4%			40	4676.36577	4680	282	1	40	4676.36577	07/25/11	6:35 PM
469498d2D	U 236-IS	94.6			%R	0.5	0.2%			0.5	94.63469	94.6		1	0.5	94.63469	07/25/11	6:35 PM
469498d2L	U-tot	4530			ng/L	200	0.9%			40	4527.60675	4530	290	5	200	905.52135	07/25/11	6:38 PM
469498d2L	U 236-IS	96.4			%R	0.5	-1.7%			0.5	96.3683	96.4		5	0.5	96.3683	07/25/11	6:38 PM
469498d2AS	U-tot	24800			ng/L	40		98.7%	20500	40	24795.75182	24800	1488	1	40	24795.75182	07/25/11	6:40 PM
469498d2AS	U 236-IS	97.2			%R	0.5		#DIV/0!	0	0.5	97.16786	97.2		1	0.5	97.16786	07/25/11	6:40 PM
zzz	U-tot	40.0	U		ng/L	40				40	5.84177	5.84		1	40	5.84177	07/25/11	6:42 PM
zzz	U 236-IS	96.0			%R	0.5				0.5	95.99841	96		1	0.5	95.99841	07/25/11	6:42 PM
critotU	U-tot	41.6			ng/L	40		104.0%	40.0	40	41.5681	41.6		1	40	41.5681	07/25/11	6:45 PM
critotU	U 236-IS	96.3			%R	0.5		#DIV/0!	0	0.5	96.34214	96.3		1	0.5	96.34214	07/25/11	6:45 PM
cri235	U-tot									40	733.70426	734		1	40	733.70426	07/25/11	6:47 PM
cri235	U 236-IS									0.5	97.53775	97.5		1	0.5	97.53775	07/25/11	6:47 PM
ccv	U-tot	8040			ng/L	40		104.8%	7670	40	8038.23649	8040		1	40	8038.23649	07/25/11	6:49 PM
ccv	U 236-IS	99.6			%R	0.5		#DIV/0!	0	0.5	99.57031	99.6		1	0.5	99.57031	07/25/11	6:49 PM
ccb	U-tot	40.0	U		ng/L	40				40	4.00463	4		1	40	4.00463	07/25/11	6:52 PM
ccb	U 236-IS	99.6			%R	0.5				0.5	99.58153	99.6		1	0.5	99.58153	07/25/11	6:52 PM

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Fluor-B&W Portsmouth LLC
16526.05.006
to#110614-8
Note: Uncertainty based on 6% result and 50% RL

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
S-0	U-tot															0	07/26/11	10:26 AM
S-0	U 236-IS															100	07/26/11	10:26 AM
S-1	U-tot															44984	07/26/11	10:28 AM
S-1	U 236-IS															104.19196	07/26/11	10:28 AM
icv	U-tot	7970			ng/L	40		103.9%	7670	40	7967.95252	7970		1	40	7967.95252	07/26/11	10:31 AM
icv	U 236-IS	102			%R	0.5		#DIV/0!	0	0.5	102.28691	102		1	0.5	102.28691	07/26/11	10:31 AM
icb	U-tot	40.0	U		ng/L	40				40	-0.42413	-0.424		1	40	-0.42413	07/26/11	10:33 AM
icb	U 236-IS	100			%R	0.5				0.5	100.43518	100		1	0.5	100.43518	07/26/11	10:33 AM
critotU	U-tot	40.0	U		ng/L	40		96.5%	40.0	40	38.62154	38.6		1	40	38.62154	07/26/11	10:35 AM
critotU	U 236-IS	101			%R	0.5		#DIV/0!	0	0.5	100.63056	101		1	0.5	100.63056	07/26/11	10:35 AM
cri235	U-tot									40	723.3621	723		1	40	723.3621	07/26/11	10:38 AM
cri235	U 236-IS									0.5	100.81707	101		1	0.5	100.81707	07/26/11	10:38 AM
icsa	U-tot	40.0	U	#DIV/0!	ng/L	40		#DIV/0!	0	40	4.94543	4.95		1	40	4.94543	07/26/11	10:40 AM
icsa	U 236-IS	85.8			%R	0.5		#DIV/0!	0	0.5	85.76441	85.8		1	0.5	85.76441	07/26/11	10:40 AM
icsab	U-tot	20500			ng/L	40		100.5%	20400	40	20510.59552	20500		1	40	20510.59552	07/26/11	10:42 AM
icsab	U 236-IS	90.2			%R	0.5		#DIV/0!	0	0.5	90.16901	90.2		1	0.5	90.16901	07/26/11	10:42 AM
zzz	U-tot	40.0	U		ng/L	40				40	-0.29044	-0.29		1	40	-0.29044	07/26/11	10:45 AM
zzz	U 236-IS	107			%R	0.5				0.5	106.93191	107		1	0.5	106.93191	07/26/11	10:45 AM
ccv	U-tot	8030			ng/L	40		104.7%	7670	40	8032.83471	8030		1	40	8032.83471	07/26/11	10:47 AM
ccv	U 236-IS	109			%R	0.5		#DIV/0!	0	0.5	108.57502	109		1	0.5	108.57502	07/26/11	10:47 AM
ccb	U-tot	40.0	U		ng/L	40				40	-3.18693	-3.19		1	40	-3.18693	07/26/11	10:49 AM
ccb	U 236-IS	107			%R	0.5				0.5	106.74984	107		1	0.5	106.74984	07/26/11	10:49 AM
469499d2	U-tot	4500			ng/L	40				40	4497.19843	4500	271	1	40	4497.19843	07/26/11	10:52 AM
469499d2	U 236-IS	99.0			%R	0.5				0.5	98.95203	99		1	0.5	98.95203	07/26/11	10:52 AM
469499d2D	U-tot	4550			ng/L	40	1.1%			40	4549.84232	4550	274	1	40	4549.84232	07/26/11	10:54 AM
469499d2D	U 236-IS	95.2			%R	0.5	3.9%			0.5	95.19986	95.2		1	0.5	95.19986	07/26/11	10:54 AM
469500d2	U-tot	3000			ng/L	40				40	3003.95632	3000	181	1	40	3003.95632	07/26/11	10:56 AM
469500d2	U 236-IS	89.0			%R	0.5				0.5	89.03676	89		1	0.5	89.03676	07/26/11	10:56 AM
469500d2D	U-tot	3040			ng/L	40	1.3%			40	3036.13068	3040	183	1	40	3036.13068	07/26/11	10:59 AM
469500d2D	U 236-IS	92.1			%R	0.5	3.4%			0.5	92.12715	92.1		1	0.5	92.12715	07/26/11	10:59 AM
469501d2	U-tot	4450			ng/L	40				40	4452.40222	4450	268	1	40	4452.40222	07/26/11	11:01 AM
469501d2	U 236-IS	93.7			%R	0.5				0.5	93.73454	93.7		1	0.5	93.73454	07/26/11	11:01 AM
469501d2D	U-tot	4530			ng/L	40	1.8%			40	4531.10242	4530	273	1	40	4531.10242	07/26/11	11:03 AM
469501d2D	U 236-IS	91.7			%R	0.5	2.2%			0.5	91.6698	91.7		1	0.5	91.6698	07/26/11	11:03 AM
469506d2	U-tot	4530			ng/L	40				40	4528.5724	4530	273	1	40	4528.5724	07/26/11	11:06 AM
469506d2	U 236-IS	89.7			%R	0.5				0.5	89.65394	89.7		1	0.5	89.65394	07/26/11	11:06 AM
zzz	U-tot	40.0	U		ng/L	40				40	1.76571	1.77		1	40	1.76571	07/26/11	11:08 AM
zzz	U 236-IS	91.8			%R	0.5				0.5	91.76749	91.8		1	0.5	91.76749	07/26/11	11:08 AM
critotU	U-tot	40.9			ng/L	40		102.3%	40.0	40	40.93086	40.9		1	40	40.93086	07/26/11	11:10 AM
critotU	U 236-IS	89.3			%R	0.5		#DIV/0!	0	0.5	89.27653	89.3		1	0.5	89.27653	07/26/11	11:10 AM
cri235	U-tot									40	740.19108	740		1	40	740.19108	07/26/11	11:13 AM
cri235	U 236-IS									0.5	89.55182	89.6		1	0.5	89.55182	07/26/11	11:13 AM
ccv	U-tot	8170			ng/L	40		106.5%	7670	40	8168.74615	8170		1	40	8168.74615	07/26/11	11:15 AM
ccv	U 236-IS	89.8			%R	0.5		#DIV/0!	0	0.5	89.80047	89.8		1	0.5	89.80047	07/26/11	11:15 AM
ccb	U-tot	40.0	U		ng/L	40				40	-0.83219	-0.832		1	40	-0.83219	07/26/11	11:17 AM

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Fluor-B&W Portsmouth LLC
16526.05.006
to#110614-8
Note: Uncertainty based on 6% result and 50% RL

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
ccb	U 236-IS	89.1			%R	0.5				0.5	89.09004	89.1		1	0.5	89.09004	07/26/11	11:17 AM
469506d2D	U-tot	4440			ng/L	40	2.0%			40	4442.54235	4440	267	1	40	4442.54235	07/26/11	11:20 AM
469506d2D	U 236-IS	86.5			%R	0.5	3.6%			0.5	86.50147	86.5		1	0.5	86.50147	07/26/11	11:20 AM
Blankd4	U-tot	4660			ng/L	40				40	4657.04206	4660	280	1	40	4657.04206	07/26/11	11:22 AM
Blankd4	U 236-IS	85.5			%R	0.5				0.5	85.46249	85.5		1	0.5	85.46249	07/26/11	11:22 AM
469498d4	U-tot	4570			ng/L	40				40	4571.14777	4570	275	1	40	4571.14777	07/26/11	11:24 AM
469498d4	U 236-IS	85.6			%R	0.5				0.5	85.63121	85.6		1	0.5	85.63121	07/26/11	11:24 AM
469498d4D	U-tot	4740			ng/L	40	3.7%			40	4735.17664	4740	285	1	40	4735.17664	07/26/11	11:27 AM
469498d4D	U 236-IS	84.1			%R	0.5	1.8%			0.5	84.09053	84.1		1	0.5	84.09053	07/26/11	11:27 AM
469498d4L	U-tot	4510			ng/L	200	1.3%			40	4510.76725	4510	288	5	200	902.15345	07/26/11	11:29 AM
469498d4L	U 236-IS	92.1			%R	0.5	-7.6%			0.5	92.13159	92.1		5	0.5	92.13159	07/26/11	11:29 AM
469498d4AS	U-tot	25500			ng/L	40		102.1%	20500	40	25513.08249	25500	1530	1	40	25513.08249	07/26/11	11:32 AM
469498d4AS	U 236-IS	86.6			%R	0.5		#DIV/0!	0	0.5	86.5725	86.6		1	0.5	86.5725	07/26/11	11:32 AM
zzz	U-tot	40.0	U		ng/L	40				40	5.14643	5.15		1	40	5.14643	07/26/11	11:34 AM
zzz	U 236-IS	89.0			%R	0.5				0.5	89.01012	89		1	0.5	89.01012	07/26/11	11:34 AM
critotU	U-tot	51.5			ng/L	40		128.8%	40.0	40	51.45311	51.5		1	40	51.45311	07/26/11	11:36 AM
critotU	U 236-IS	88.8			%R	0.5		#DIV/0!	0	0.5	88.76591	88.8		1	0.5	88.76591	07/26/11	11:36 AM
cri235	U-tot									40	746.9995	747		1	40	746.9995	07/26/11	11:39 AM
cri235	U 236-IS									0.5	87.02539	87		1	0.5	87.02539	07/26/11	11:39 AM
ccv	U-tot	8260			ng/L	40		107.7%	7670	40	8262.50189	8260		1	40	8262.50189	07/26/11	11:41 AM
ccv	U 236-IS	86.6			%R	0.5		#DIV/0!	0	0.5	86.6169	86.6		1	0.5	86.6169	07/26/11	11:41 AM
ccb	U-tot	40.0	U		ng/L	40				40	0.57045	0.57		1	40	0.57045	07/26/11	11:43 AM
ccb	U 236-IS	86.3			%R	0.5				0.5	86.32386	86.3		1	0.5	86.32386	07/26/11	11:43 AM
S-0	U-tot															0	07/26/11	2:39 PM
S-0	U 236-IS															100	07/26/11	2:39 PM
S-1	U-tot															44984	07/26/11	2:42 PM
S-1	U 236-IS															101.63591	07/26/11	2:42 PM
icv	U-tot	8020			ng/L	40		104.6%	7670	40	8023.3488	8020		1	40	8023.3488	07/26/11	2:44 PM
icv	U 236-IS	99.1			%R	0.5		#DIV/0!	0	0.5	99.09363	99.1		1	0.5	99.09363	07/26/11	2:44 PM
icb	U-tot	40.0	U		ng/L	40				40	0.18136	0.181		1	40	0.18136	07/26/11	2:46 PM
icb	U 236-IS	99.0			%R	0.5				0.5	99.02731	99		1	0.5	99.02731	07/26/11	2:46 PM
critotU	U-tot	42.7			ng/L	40		106.8%	40.0	40	42.74207	42.7		1	40	42.74207	07/26/11	2:48 PM
critotU	U 236-IS	97.5			%R	0.5		#DIV/0!	0	0.5	97.52959	97.5		1	0.5	97.52959	07/26/11	2:48 PM
cri235	U-tot									40	727.19517	727		1	40	727.19517	07/26/11	2:51 PM
cri235	U 236-IS									0.5	97.65117	97.7		1	0.5	97.65117	07/26/11	2:51 PM
icsa	U-tot	40.0	U	#DIV/0!	ng/L	40		#DIV/0!	0	40	10.08725	10.1		1	40	10.08725	07/26/11	2:53 PM
icsa	U 236-IS	80.9			%R	0.5		#DIV/0!	0	0.5	80.90648	80.9		1	0.5	80.90648	07/26/11	2:53 PM
icsab	U-tot	20800			ng/L	40		102.0%	20400	40	20796.30627	20800		1	40	20796.30627	07/26/11	2:55 PM
icsab	U 236-IS	83.5			%R	0.5		#DIV/0!	0	0.5	83.53135	83.5		1	0.5	83.53135	07/26/11	2:55 PM
zzz	U-tot	40.0	U		ng/L	40				40	-0.04875	-0.0488		1	40	-0.04875	07/26/11	2:58 PM
zzz	U 236-IS	103			%R	0.5				0.5	102.54231	103		1	0.5	102.54231	07/26/11	2:58 PM
ccv	U-tot	8170			ng/L	40		106.5%	7670	40	8169.88214	8170		1	40	8169.88214	07/26/11	3:00 PM
ccv	U 236-IS	102			%R	0.5		#DIV/0!	0	0.5	102.13332	102		1	0.5	102.13332	07/26/11	3:00 PM
ccb	U-tot	40.0	U		ng/L	40				40	2.67285	2.67		1	40	2.67285	07/26/11	3:02 PM
ccb	U 236-IS	102			%R	0.5				0.5	102.41519	102		1	0.5	102.41519	07/26/11	3:02 PM

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Fluor-B&W Portsmouth LLC
16526.05.006
to#110614-8
Note: Uncertainty based on 6% result and 50% RL

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
469499d4	U-tot	4610			ng/L	40				40	4613.8445	4610	277	1	40	4613.8445	07/26/11	3:05 PM
469499d4	U 236-IS	91.9			%R	0.5				0.5	91.91466	91.9		1	0.5	91.91466	07/26/11	3:05 PM
469499d4D	U-tot	4560			ng/L	40	1.1%			40	4561.69383	4560	274	1	40	4561.69383	07/26/11	3:07 PM
469499d4D	U 236-IS	91.7			%R	0.5	0.2%			0.5	91.69361	91.7		1	0.5	91.69361	07/26/11	3:07 PM
469500d4	U-tot	2200			ng/L	40				40	2202.45457	2200	134	1	40	2202.45457	07/26/11	3:09 PM
469500d4	U 236-IS	91.0			%R	0.5				0.5	90.95308	91		1	0.5	90.95308	07/26/11	3:09 PM
469500d4D	U-tot	2180			ng/L	40	0.9%			40	2180.17975	2180	132	1	40	2180.17975	07/26/11	3:12 PM
469500d4D	U 236-IS	88.4			%R	0.5	2.9%			0.5	88.39439	88.4		1	0.5	88.39439	07/26/11	3:12 PM
469501d4	U-tot	4490			ng/L	40				40	4486.89855	4490	270	1	40	4486.89855	07/26/11	3:14 PM
469501d4	U 236-IS	89.6			%R	0.5				0.5	89.60465	89.6		1	0.5	89.60465	07/26/11	3:14 PM
469501d4D	U-tot	4510			ng/L	40	0.4%			40	4507.04039	4510	271	1	40	4507.04039	07/26/11	3:16 PM
469501d4D	U 236-IS	87.2			%R	0.5	2.7%			0.5	87.19519	87.2		1	0.5	87.19519	07/26/11	3:16 PM
469506d4	U-tot	4580			ng/L	40				40	4575.65067	4580	276	1	40	4575.65067	07/26/11	3:19 PM
469506d4	U 236-IS	89.0			%R	0.5				0.5	88.97465	89		1	0.5	88.97465	07/26/11	3:19 PM
zzz	U-tot	40.0	U		ng/L	40				40	1.43185	1.43		1	40	1.43185	07/26/11	3:21 PM
zzz	U 236-IS	91.3			%R	0.5				0.5	91.33439	91.3		1	0.5	91.33439	07/26/11	3:21 PM
critotU	U-tot	40.0	U		ng/L	40		93.3%	40.0	40	37.33824	37.3		1	40	37.33824	07/26/11	3:23 PM
critotU	U 236-IS	91.0			%R	0.5		#DIV/0!	0	0.5	91.02491	91		1	0.5	91.02491	07/26/11	3:23 PM
cri235	U-tot									40	729.76952	730		1	40	729.76952	07/26/11	3:26 PM
cri235	U 236-IS									0.5	91.16308	91.2		1	0.5	91.16308	07/26/11	3:26 PM
ccv	U-tot	8180			ng/L	40		106.6%	7670	40	8178.95764	8180		1	40	8178.95764	07/26/11	3:28 PM
ccv	U 236-IS	89.1			%R	0.5		#DIV/0!	0	0.5	89.13492	89.1		1	0.5	89.13492	07/26/11	3:28 PM
ccb	U-tot	40.0	U		ng/L	40				40	0.34403	0.344		1	40	0.34403	07/26/11	3:30 PM
ccb	U 236-IS	90.6			%R	0.5				0.5	90.58834	90.6		1	0.5	90.58834	07/26/11	3:30 PM
469506d4D	U-tot	4570			ng/L	40	0.2%			40	4565.6351	4570	275	1	40	4565.6351	07/26/11	3:33 PM
469506d4D	U 236-IS	85.6			%R	0.5	3.9%			0.5	85.64234	85.6		1	0.5	85.64234	07/26/11	3:33 PM
Blankd7	U-tot	4730			ng/L	40				40	4727.49497	4730	285	1	40	4727.49497	07/26/11	3:35 PM
Blankd7	U 236-IS	86.3			%R	0.5				0.5	86.28336	86.3		1	0.5	86.28336	07/26/11	3:35 PM
469498d7	U-tot	4640			ng/L	40				40	4638.61364	4640	279	1	40	4638.61364	07/26/11	3:37 PM
469498d7	U 236-IS	87.1			%R	0.5				0.5	87.07914	87.1		1	0.5	87.07914	07/26/11	3:37 PM
469498d7D	U-tot	4740			ng/L	40	2.1%			40	4735.42332	4740	285	1	40	4735.42332	07/26/11	3:40 PM
469498d7D	U 236-IS	85.8			%R	0.5	1.5%			0.5	85.82469	85.8		1	0.5	85.82469	07/26/11	3:40 PM
469498d7L	U-tot	4580			ng/L	200	1.3%			40	4582.8453	4580	292	5	200	916.56906	07/26/11	3:42 PM
469498d7L	U 236-IS	91.3			%R	0.5	-4.8%			0.5	91.28465	91.3		5	0.5	91.28465	07/26/11	3:42 PM
469498d7AS	U-tot	25800			ng/L	40		103.2%	20500	40	25806.45717	25800	1548	1	40	25806.45717	07/26/11	3:44 PM
469498d7AS	U 236-IS	86.3			%R	0.5		#DIV/0!	0	0.5	86.30547	86.3		1	0.5	86.30547	07/26/11	3:44 PM
zzz	U-tot	40.0	U		ng/L	40				40	12.47314	12.5		1	40	12.47314	07/26/11	3:47 PM
zzz	U 236-IS	90.6			%R	0.5				0.5	90.61044	90.6		1	0.5	90.61044	07/26/11	3:47 PM
critotU	U-tot	41.7			ng/L	40		104.3%	40.0	40	41.65127	41.7		1	40	41.65127	07/26/11	3:49 PM
critotU	U 236-IS	92.6			%R	0.5		#DIV/0!	0	0.5	92.64415	92.6		1	0.5	92.64415	07/26/11	3:49 PM
cri235	U-tot									40	722.0089	722		1	40	722.0089	07/26/11	3:51 PM
cri235	U 236-IS									0.5	90.54412	90.5		1	0.5	90.54412	07/26/11	3:51 PM
cri235	U-tot									40	748.26173	748		1	40	748.26173	07/26/11	3:57 PM
cri235	U 236-IS									0.5	90.15177	90.2		1	0.5	90.15177	07/26/11	3:57 PM
ccv	U-tot	8240			ng/L	40		107.4%	7670	40	8241.0717	8240		1	40	8241.0717	07/26/11	3:59 PM

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Fluor-B&W Portsmouth LLC
16526.05.006
to#110614-8
Note: Uncertainty based on 6% result and 50% RL

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
ccv	U 236-IS	88.7			%R	0.5		#DIV/0!	0	0.5	88.68728	88.7		1	0.5	88.68728	07/26/11	3:59 PM
ccb	U-tot	40.0	U		ng/L	40				40	-2.85972	-2.86		1	40	-2.85972	07/26/11	4:01 PM
ccb	U 236-IS	90.5			%R	0.5				0.5	90.53307	90.5		1	0.5	90.53307	07/26/11	4:01 PM
S-0	U-tot															0	07/26/11	4:44 PM
S-0	U 236-IS															100	07/26/11	4:44 PM
S-1	U-tot															44984	07/26/11	4:46 PM
S-1	U 236-IS															101.61963	07/26/11	4:46 PM
icv	U-tot	8050			ng/L	40		105.0%	7670	40	8052.08324	8050		1	40	8052.08324	07/26/11	4:49 PM
icv	U 236-IS	99.1			%R	0.5		#DIV/0!	0	0.5	99.12633	99.1		1	0.5	99.12633	07/26/11	4:49 PM
icb	U-tot	40.0	U		ng/L	40				40	3.39163	3.39		1	40	3.39163	07/26/11	4:51 PM
icb	U 236-IS	97.0			%R	0.5				0.5	97.00269	97		1	0.5	97.00269	07/26/11	4:51 PM
critotU	U-tot	40.0	U		ng/L	40		97.8%	40.0	40	39.06871	39.1		1	40	39.06871	07/26/11	4:53 PM
critotU	U 236-IS	97.2			%R	0.5		#DIV/0!	0	0.5	97.18414	97.2		1	0.5	97.18414	07/26/11	4:53 PM
cri235	U-tot									40	716.64713	717		1	40	716.64713	07/26/11	4:56 PM
cri235	U 236-IS									0.5	97.90994	97.9		1	0.5	97.90994	07/26/11	4:56 PM
icsa	U-tot	40.0	U	#DIV/0!	ng/L	40		#DIV/0!	0	40	6.2871	6.29		1	40	6.2871	07/26/11	4:58 PM
icsa	U 236-IS	83.8			%R	0.5		#DIV/0!	0	0.5	83.83129	83.8		1	0.5	83.83129	07/26/11	4:58 PM
icsab	U-tot	20200			ng/L	40		99.0%	20400	40	20227.08382	20200		1	40	20227.08382	07/26/11	5:00 PM
icsab	U 236-IS	88.4			%R	0.5		#DIV/0!	0	0.5	88.37397	88.4		1	0.5	88.37397	07/26/11	5:00 PM
zzz	U-tot	40.0	U		ng/L	40				40	-5.07631	-5.08		1	40	-5.07631	07/26/11	5:03 PM
zzz	U 236-IS	108			%R	0.5				0.5	107.9639	108		1	0.5	107.9639	07/26/11	5:03 PM
ccv	U-tot	8050			ng/L	40		105.0%	7670	40	8052.41098	8050		1	40	8052.41098	07/26/11	5:05 PM
ccv	U 236-IS	107			%R	0.5		#DIV/0!	0	0.5	106.65336	107		1	0.5	106.65336	07/26/11	5:05 PM
ccb	U-tot	40.0	U		ng/L	40				40	-6.60505	-6.61		1	40	-6.60505	07/26/11	5:07 PM
ccb	U 236-IS	106			%R	0.5				0.5	105.55117	106		1	0.5	105.55117	07/26/11	5:07 PM
469499d7	U-tot	4560			ng/L	40				40	4557.76514	4560	274	1	40	4557.76514	07/26/11	5:13 PM
469499d7	U 236-IS	96.8			%R	0.5				0.5	96.82124	96.8		1	0.5	96.82124	07/26/11	5:13 PM
469499d7D	U-tot	4470			ng/L	40	2.0%			40	4471.26764	4470	269	1	40	4471.26764	07/26/11	5:15 PM
469499d7D	U 236-IS	98.5			%R	0.5	1.7%			0.5	98.51479	98.5		1	0.5	98.51479	07/26/11	5:15 PM
469500d7	U-tot	2040			ng/L	40				40	2044.22557	2040	124	1	40	2044.22557	07/26/11	5:17 PM
469500d7	U 236-IS	95.0			%R	0.5				0.5	95.00004	95		1	0.5	95.00004	07/26/11	5:17 PM
469500d7D	U-tot	1860			ng/L	40	9.2%			40	1860.04075	1860	113	1	40	1860.04075	07/26/11	5:20 PM
469500d7D	U 236-IS	93.4			%R	0.5	1.7%			0.5	93.44766	93.4		1	0.5	93.44766	07/26/11	5:20 PM
469501d7	U-tot	4420			ng/L	40				40	4423.83708	4420	266	1	40	4423.83708	07/26/11	5:22 PM
469501d7	U 236-IS	91.2			%R	0.5				0.5	91.23672	91.2		1	0.5	91.23672	07/26/11	5:22 PM
469501d7D	U-tot	4320			ng/L	40	2.3%			40	4321.40847	4320	260	1	40	4321.40847	07/26/11	5:24 PM
469501d7D	U 236-IS	93.7			%R	0.5	2.7%			0.5	93.74335	93.7		1	0.5	93.74335	07/26/11	5:24 PM
469506d7	U-tot	4580			ng/L	40				40	4583.10729	4580	276	1	40	4583.10729	07/26/11	5:26 PM
469506d7	U 236-IS	92.9			%R	0.5				0.5	92.88317	92.9		1	0.5	92.88317	07/26/11	5:26 PM
zzz	U-tot	40.0	U		ng/L	40				40	1.89611	1.9		1	40	1.89611	07/26/11	5:29 PM
zzz	U 236-IS	96.6			%R	0.5				0.5	96.59276	96.6		1	0.5	96.59276	07/26/11	5:29 PM
critotU	U-tot	43.6			ng/L	40		109.0%	40.0	40	43.63327	43.6		1	40	43.63327	07/26/11	5:31 PM
critotU	U 236-IS	97.8			%R	0.5		#DIV/0!	0	0.5	97.7957	97.8		1	0.5	97.7957	07/26/11	5:31 PM
cri235	U-tot									40	755.0435	755		1	40	755.0435	07/26/11	5:33 PM
cri235	U 236-IS									0.5	97.30511	97.3		1	0.5	97.30511	07/26/11	5:33 PM

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16526.05.006
to#110614-8
Note: Uncertainty based on 6% result and 50% RL

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
ccv	U-tot	7950			ng/L	40		103.7%	7670	40	7949.46501	7950		1	40	7949.46501	07/26/11	5:36 PM
ccv	U 236-IS	98.8			%R	0.5		#DIV/0!	0	0.5	98.75672	98.8		1	0.5	98.75672	07/26/11	5:36 PM
ccb	U-tot	40.0	U		ng/L	40				40	-2.45111	-2.45		1	40	-2.45111	07/26/11	5:38 PM
ccb	U 236-IS	96.6			%R	0.5				0.5	96.64651	96.6		1	0.5	96.64651	07/26/11	5:38 PM
469506d7D	U-tot	4480			ng/L	40	2.2%			40	4483.19105	4480	270	1	40	4483.19105	07/26/11	5:40 PM
469506d7D	U 236-IS	91.4			%R	0.5	1.6%			0.5	91.35769	91.4		1	0.5	91.35769	07/26/11	5:40 PM
Blankd10	U-tot	4660			ng/L	40				40	4660.29506	4660	280	1	40	4660.29506	07/26/11	5:43 PM
Blankd10	U 236-IS	90.2			%R	0.5				0.5	90.20855	90.2		1	0.5	90.20855	07/26/11	5:43 PM
469498d10	U-tot	4720			ng/L	40				40	4724.93621	4720	284	1	40	4724.93621	07/26/11	5:45 PM
469498d10	U 236-IS	92.4			%R	0.5				0.5	92.37915	92.4		1	0.5	92.37915	07/26/11	5:45 PM
469498d10D	U-tot	4650			ng/L	40	1.5%			40	4650.5187	4650	280	1	40	4650.5187	07/26/11	5:47 PM
469498d10D	U 236-IS	93.1			%R	0.5	0.8%			0.5	93.09821	93.1		1	0.5	93.09821	07/26/11	5:47 PM
469498d10L	U-tot	4770			ng/L	200	-1.1%			40	4767.40645	4770	303	5	200	953.48129	07/26/11	5:50 PM
469498d10L	U 236-IS	98.5			%R	0.5	-6.6%			0.5	98.52821	98.5		5	0.5	98.52821	07/26/11	5:50 PM
zzz	U-tot									40	31737.90118	31700		1	40	31737.90118	07/26/11	5:52 PM
zzz	U 236-IS									0.5	93.44768	93.4		1	0.5	93.44768	07/26/11	5:52 PM
zzz	U-tot	40.0	U		ng/L	40				40	5.05228	5.05		1	40	5.05228	07/26/11	5:54 PM
zzz	U 236-IS	97.6			%R	0.5				0.5	97.55376	97.6		1	0.5	97.55376	07/26/11	5:54 PM
critotU	U-tot	40.0	U		ng/L	40		87.8%	40.0	40	35.10825	35.1		1	40	35.10825	07/26/11	5:57 PM
critotU	U 236-IS	95.9			%R	0.5		#DIV/0!	0	0.5	95.87368	95.9		1	0.5	95.87368	07/26/11	5:57 PM
cri235	U-tot									40	715.34312	715		1	40	715.34312	07/26/11	5:59 PM
cri235	U 236-IS									0.5	97.6344	97.6		1	0.5	97.6344	07/26/11	5:59 PM
ccv	U-tot	8090			ng/L	40		105.5%	7670	40	8093.47557	8090		1	40	8093.47557	07/26/11	6:01 PM
ccv	U 236-IS	94.6			%R	0.5		#DIV/0!	0	0.5	94.55651	94.6		1	0.5	94.55651	07/26/11	6:01 PM
ccb	U-tot	40.0	U		ng/L	40				40	6.33547	6.34		1	40	6.33547	07/26/11	6:04 PM
ccb	U 236-IS	92.3			%R	0.5				0.5	92.27837	92.3		1	0.5	92.27837	07/26/11	6:04 PM
S-0	U-tot															0	07/26/11	6:12 PM
S-0	U 236-IS															100	07/26/11	6:12 PM
S-1	U-tot															44984	07/26/11	6:14 PM
S-1	U 236-IS															99.46369	07/26/11	6:14 PM
icv	U-tot	7960			ng/L	40		103.8%	7670	40	7960.30396	7960		1	40	7960.30396	07/26/11	6:16 PM
icv	U 236-IS	98.5			%R	0.5		#DIV/0!	0	0.5	98.49394	98.5		1	0.5	98.49394	07/26/11	6:16 PM
icb	U-tot	40.0	U		ng/L	40				40	2.87673	2.88		1	40	2.87673	07/26/11	6:19 PM
icb	U 236-IS	99.4			%R	0.5				0.5	99.39757	99.4		1	0.5	99.39757	07/26/11	6:19 PM
critotU	U-tot	40.0	U		ng/L	40		97.3%	40.0	40	38.93157	38.9		1	40	38.93157	07/26/11	6:21 PM
critotU	U 236-IS	99.4			%R	0.5		#DIV/0!	0	0.5	99.37554	99.4		1	0.5	99.37554	07/26/11	6:21 PM
cri235	U-tot									40	728.01343	728		1	40	728.01343	07/26/11	6:23 PM
cri235	U 236-IS									0.5	97.12747	97.1		1	0.5	97.12747	07/26/11	6:23 PM
icsa	U-tot	40.0	U	#DIV/0!	ng/L	40		#DIV/0!	0	40	6.1781	6.18		1	40	6.1781	07/26/11	6:26 PM
icsa	U 236-IS	86.2			%R	0.5		#DIV/0!	0	0.5	86.21811	86.2		1	0.5	86.21811	07/26/11	6:26 PM
icsab	U-tot	20500			ng/L	40		100.5%	20400	40	20459.33999	20500		1	40	20459.33999	07/26/11	6:28 PM
icsab	U 236-IS	88.3			%R	0.5		#DIV/0!	0	0.5	88.34851	88.3		1	0.5	88.34851	07/26/11	6:28 PM
zzz	U-tot	40.0	U		ng/L	40				40	-4.31519	-4.32		1	40	-4.31519	07/26/11	6:30 PM
zzz	U 236-IS	108			%R	0.5				0.5	108.27253	108		1	0.5	108.27253	07/26/11	6:30 PM
ccv	U-tot	7920			ng/L	40		103.3%	7670	40	7919.99711	7920		1	40	7919.99711	07/26/11	6:33 PM

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Note: Uncertainty based on 6% result and 50% RL

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
ccv	U 236-IS	108			%R	0.5		#DIV/0!	0	0.5	108.346	108		1	0.5	108.346	07/26/11	6:33 PM
ccb	U-tot	40.0	U		ng/L	40				40	-4.99186	-4.99		1	40	-4.99186	07/26/11	6:35 PM
ccb	U 236-IS	109			%R	0.5				0.5	109.24968	109		1	0.5	109.24968	07/26/11	6:35 PM
469499d10	U-tot	4510			ng/L	40				40	4514.09619	4510	271	1	40	4514.09619	07/26/11	6:37 PM
469499d10	U 236-IS	99.8			%R	0.5				0.5	99.82368	99.8		1	0.5	99.82368	07/26/11	6:37 PM
469499d10D	U-tot	4560			ng/L	40	1.1%			40	4563.01073	4560	274	1	40	4563.01073	07/26/11	6:40 PM
469499d10D	U 236-IS	100			%R	0.5	0.2%			0.5	100.46285	100		1	0.5	100.46285	07/26/11	6:40 PM
469500d10	U-tot	1810			ng/L	40				40	1814.67697	1810	110	1	40	1814.67697	07/26/11	6:42 PM
469500d10	U 236-IS	98.9			%R	0.5				0.5	98.88331	98.9		1	0.5	98.88331	07/26/11	6:42 PM
469500d10D	U-tot	1910			ng/L	40	5.4%			40	1905.28148	1910	116	1	40	1905.28148	07/26/11	6:44 PM
469500d10D	U 236-IS	95.4			%R	0.5	3.6%			0.5	95.37165	95.4		1	0.5	95.37165	07/26/11	6:44 PM
469501d10	U-tot	4290			ng/L	40				40	4288.93484	4290	258	1	40	4288.93484	07/26/11	6:47 PM
469501d10	U 236-IS	93.8			%R	0.5				0.5	93.84359	93.8		1	0.5	93.84359	07/26/11	6:47 PM
469501d10D	U-tot	4720			ng/L	40	9.5%			40	4724.2547	4720	284	1	40	4724.2547	07/26/11	6:49 PM
469501d10D	U 236-IS	95.1			%R	0.5	1.4%			0.5	95.0631	95.1		1	0.5	95.0631	07/26/11	6:49 PM
469506d10	U-tot	4480			ng/L	40				40	4475.3955	4480	270	1	40	4475.3955	07/26/11	6:51 PM
469506d10	U 236-IS	95.0			%R	0.5				0.5	94.96025	95		1	0.5	94.96025	07/26/11	6:51 PM
zzz	U-tot	40.0	U		ng/L	40				40	2.3314	2.33		1	40	2.3314	07/26/11	6:54 PM
zzz	U 236-IS	99.4			%R	0.5				0.5	99.35349	99.4		1	0.5	99.35349	07/26/11	6:54 PM
critotU	U-tot	40.5			ng/L	40		101.3%	40.0	40	40.50859	40.5		1	40	40.50859	07/26/11	6:56 PM
critotU	U 236-IS	99.0			%R	0.5		#DIV/0!	0	0.5	99.03759	99		1	0.5	99.03759	07/26/11	6:56 PM
cri235	U-tot									40	726.86777	727		1	40	726.86777	07/26/11	6:58 PM
cri235	U 236-IS									0.5	99.12575	99.1		1	0.5	99.12575	07/26/11	6:58 PM
ccv	U-tot	8010			ng/L	40		104.4%	7670	40	8005.98823	8010		1	40	8005.98823	07/26/11	7:01 PM
ccv	U 236-IS	97.8			%R	0.5		#DIV/0!	0	0.5	97.83274	97.8		1	0.5	97.83274	07/26/11	7:01 PM
ccb	U-tot	40.0	U		ng/L	40				40	5.33965	5.34		1	40	5.33965	07/26/11	7:03 PM
ccb	U 236-IS	96.8			%R	0.5				0.5	96.81157	96.8		1	0.5	96.81157	07/26/11	7:03 PM

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Fluor-B&W Portsmouth LLC
16526.05.006
to#110614-8
Note: Uncertainty based on 6% result and 50% RL

vRamys 8/29/11

469500 d14L
for tot U

311.57ng/L x df5 = 1558ng/L
= 1560ng/L

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
icv	U-tot	7370			ng/L	40		96.1%	7670	40	7373.89039	7370		1	40	7373.89039	08/15/11	10:56 AM
icv	U 236-IS	103			%R	0.5				0.5	103.31678	103		1	0.5	103.31678	08/15/11	10:56 AM
icb	U-tot	40.0	U		ng/L	40				40	-0.50149	-0.501		1	40	-0.50149	08/15/11	10:58 AM
icb	U 236-IS	101			%R	0.5				0.5	100.91414	101		1	0.5	100.91414	08/15/11	10:58 AM
critotU	U-tot	40.0	U		ng/L	40		96.4%	40.0	40	38.55594	38.6		1	40	38.55594	08/15/11	11:00 AM
critotU	U 236-IS	101			%R	0.5				0.5	101.44061	101		1	0.5	101.44061	08/15/11	11:00 AM
cri235	U-tot									40	671.9954	672		1	40	671.9954	08/15/11	11:03 AM
cri235	U 236-IS									0.5	103.64704	104		1	0.5	103.64704	08/15/11	11:03 AM
icsa	U-tot	40.0	U		ng/L	40			0	40	4.46981	4.47		1	40	4.46981	08/15/11	11:05 AM
icsa	U 236-IS	115			%R	0.5				0.5	115.38333	115		1	0.5	115.38333	08/15/11	11:05 AM
icsab	U-tot	20300			ng/L	40		99.5%	20400	40	20318.8557	20300		1	40	20318.8557	08/15/11	11:07 AM
icsab	U 236-IS	117			%R	0.5				0.5	116.67093	117		1	0.5	116.67093	08/15/11	11:07 AM
zzz	U-tot	40.0	U		ng/L	40				40	-0.46953	-0.47		1	40	-0.46953	08/15/11	11:10 AM
zzz	U 236-IS	96.8			%R	0.5				0.5	96.81253	96.8		1	0.5	96.81253	08/15/11	11:10 AM
ccv	U-tot	7490			ng/L	40		97.7%	7670	40	7490.84539	7490		1	40	7490.84539	08/15/11	11:12 AM
ccv	U 236-IS	98.0			%R	0.5				0.5	97.98508	98		1	0.5	97.98508	08/15/11	11:12 AM
ccb	U-tot	40.0	U		ng/L	40				40	-2.16085	-2.16		1	40	-2.16085	08/15/11	11:14 AM
ccb	U 236-IS	95.8			%R	0.5				0.5	95.7644	95.8		1	0.5	95.7644	08/15/11	11:14 AM
469506d10D	U-tot	4400			ng/L	40				40	4395.04786	4400	265	1	40	4395.04786	08/15/11	11:20 AM
469506d10D	U 236-IS	105			%R	0.5				0.5	104.78137	105		1	0.5	104.78137	08/15/11	11:20 AM
zzz	U-tot	40.0	U		ng/L	40				40	-1.01393	-1.01		1	40	-1.01393	08/15/11	11:22 AM
zzz	U 236-IS	99.3			%R	0.5				0.5	99.27253	99.3		1	0.5	99.27253	08/15/11	11:22 AM
Blankd14	U-tot	4680			ng/L	40				40	4683.75932	4680	282	1	40	4683.75932	08/15/11	11:24 AM
Blankd14	U 236-IS	102			%R	0.5				0.5	101.80915	102		1	0.5	101.80915	08/15/11	11:24 AM
469500d14	U-tot	1550			ng/L	40				40	1549.07397	1550	95.1	1	40	1549.07397	08/15/11	11:27 AM
469500d14	U 236-IS	96.6			%R	0.5				0.5	96.62587	96.6		1	0.5	96.62587	08/15/11	11:27 AM
469500d14D	U-tot	1570			ng/L	40				40	1571.48289	1570	96.3	1	40	1571.48289	08/15/11	11:29 AM
469500d14D	U 236-IS	98.4			%R	0.5				0.5	98.39189	98.4		1	0.5	98.39189	08/15/11	11:29 AM
469500d14L	U-tot	1560	✓		ng/L	200	0.6%			40	1557.86905	1560	137	5	200	311.57381	08/15/11	11:31 AM
469500d14L	U 236-IS	94.6			%R	0.5				0.5	94.56314	94.6		5	0.5	94.56314	08/15/11	11:31 AM
469500d14AS	U-tot	41700			ng/L	40		98.2%	40900	40	41651.23397	41700	2502	1	40	41651.23397	08/15/11	11:33 AM
469500d14AS	U 236-IS	103			%R	0.5				0.5	103.40294	103		1	0.5	103.40294	08/15/11	11:33 AM
zzz	U-tot	40.0	U		ng/L	40				40	9.98935	9.99		1	40	9.98935	08/15/11	11:36 AM
zzz	U 236-IS	94.0			%R	0.5				0.5	93.99841	94		1	0.5	93.99841	08/15/11	11:36 AM
critotU	U-tot	41.1			ng/L	40		102.8%	40.0	40	41.0813	41.1		1	40	41.0813	08/15/11	11:38 AM
critotU	U 236-IS	98.6			%R	0.5				0.5	98.57376	98.6		1	0.5	98.57376	08/15/11	11:38 AM
cri235	U-tot									40	685.18437	685		1	40	685.18437	08/15/11	11:41 AM

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vR Spr 8/29/11

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Fluor-B&W Portsmouth LLC
16526.05.006
to#110614-8
Note: Uncertainty based on 6% result and 50% RL

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
cri235	U 236-IS									0.5	99.39217	99.4		1	0.5	99.39217	08/15/11	11:41 AM
ccv	U-tot	7650			ng/L	40		99.7%	7670	40	7645.09641	7650		1	40	7645.09641	08/15/11	11:43 AM
ccv	U 236-IS	98.6			%R	0.5				0.5	98.55942	98.6		1	0.5	98.55942	08/15/11	11:43 AM
ccb	U-tot	40.0	U		ng/L	40				40	0.05676	0.0568		1	40	0.05676	08/15/11	11:45 AM
ccb	U 236-IS	99.9			%R	0.5				0.5	99.90428	99.9		1	0.5	99.90428	08/15/11	11:45 AM
Blankd21	U-tot	4510			ng/L	40				40	4514.57816	4510	271	1	40	4514.57816	08/15/11	11:47 AM
Blankd21	U 236-IS	107			%R	0.5				0.5	107.43297	107		1	0.5	107.43297	08/15/11	11:47 AM
469500d21	U-tot	1860			ng/L	40				40	1864.27605	1860	113	1	40	1864.27605	08/15/11	11:50 AM
469500d21	U 236-IS	107			%R	0.5				0.5	107.15537	107		1	0.5	107.15537	08/15/11	11:50 AM
469500d21D	U-tot	1360			ng/L	40				40	1364.12209	1360	84.0	1	40	1364.12209	08/15/11	11:52 AM
469500d21D	U 236-IS	107			%R	0.5				0.5	106.71981	107		1	0.5	106.71981	08/15/11	11:52 AM
469500d21L	U-tot	1780			ng/L	200	4.3%			40	1782.7714	1780	146	5	200	356.55428	08/15/11	11:54 AM
469500d21L	U 236-IS	105			%R	0.5				0.5	105.33179	105		5	0.5	105.33179	08/15/11	11:54 AM
zzz	U-tot									40	43483.38761	43500		1	40	43483.38761	08/15/11	11:57 AM
zzz	U 236-IS									0.5	107.29897	107		1	0.5	107.29897	08/15/11	11:57 AM
zzz	U-tot	40.0	U		ng/L	40				40	11.43003	11.4		1	40	11.43003	08/15/11	11:59 AM
zzz	U 236-IS	105			%R	0.5				0.5	104.93931	105		1	0.5	104.93931	08/15/11	11:59 AM
critotU	U-tot	40.0	U		ng/L	40		92.0%	40.0	40	36.79473	36.8		1	40	36.79473	08/15/11	12:02 PM
critotU	U 236-IS	107			%R	0.5				0.5	106.60493	107		1	0.5	106.60493	08/15/11	12:02 PM
cri235	U-tot									40	693.67754	694		1	40	693.67754	08/15/11	12:04 PM
cri235	U 236-IS									0.5	106.96392	107		1	0.5	106.96392	08/15/11	12:04 PM
ccv	U-tot	7630			ng/L	40		99.5%	7670	40	7627.6681	7630		1	40	7627.6681	08/15/11	12:06 PM
ccv	U 236-IS	107			%R	0.5				0.5	106.88255	107		1	0.5	106.88255	08/15/11	12:06 PM
ccb	U-tot	40.0	U		ng/L	40				40	0.62658	0.627		1	40	0.62658	08/15/11	12:09 PM
ccb	U 236-IS	110			%R	0.5				0.5	109.89796	110		1	0.5	109.89796	08/15/11	12:09 PM
469500d21AS	U-tot	22000			ng/L	40		98.2%	20500	40	21991.17681	22000	1320	1	40	21991.17681	08/15/11	12:25 PM
469500d21AS	U 236-IS	110			%R	0.5				0.5	109.5294	110		1	0.5	109.5294	08/15/11	12:25 PM
zzz	U-tot	40.0	U		ng/L	40				40	7.40595	7.41		1	40	7.40595	08/15/11	12:27 PM
zzz	U 236-IS	103			%R	0.5				0.5	102.79988	103		1	0.5	102.79988	08/15/11	12:27 PM
critotU	U-tot	40.0	U		ng/L	40		98.8%	40.0	40	39.53738	39.5		1	40	39.53738	08/15/11	12:29 PM
critotU	U 236-IS	107			%R	0.5				0.5	107.10751	107		1	0.5	107.10751	08/15/11	12:29 PM
cri235	U-tot									40	703.38607	703		1	40	703.38607	08/15/11	12:32 PM
cri235	U 236-IS									0.5	107.48564	107		1	0.5	107.48564	08/15/11	12:32 PM
ccv	U-tot	7620			ng/L	40		99.3%	7670	40	7621.59104	7620		1	40	7621.59104	08/15/11	12:34 PM
ccv	U 236-IS	109			%R	0.5				0.5	109.37624	109		1	0.5	109.37624	08/15/11	12:34 PM
ccb	U-tot	40.0	U		ng/L	40				40	-0.90052	-0.901		1	40	-0.90052	08/15/11	12:36 PM
ccb	U 236-IS	110			%R	0.5				0.5	110.41011	110		1	0.5	110.41011	08/15/11	12:36 PM

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8/29/11

469498 d10 AS
for tot U

25513 ng/L × dF 1 = 25513 ng/L
= 25500 ng/L

Fluor-B&W Portsmouth LLC
16526.05.006
110614-8
Note: Uncertainty based on 6% result and 50% RL

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	rl	ng/L	sigwt	uncert	Dilution	Calc RL	ng/L	Date	Time
icv	U-tot	7620			ng/L	40		99.3%	7670	40	7616.64716	7620		1	40	7616.64716	08/15/11	2:54 PM
icv	U 236-IS	101			%R	0.5				0.5	101.21705	101		1	0.5	101.21705	08/15/11	2:54 PM
icb	U-tot	40.0	U		ng/L	40				40	1.40813	1.41		1	40	1.40813	08/15/11	2:56 PM
icb	U 236-IS	100			%R	0.5				0.5	100.31133	100		1	0.5	100.31133	08/15/11	2:56 PM
critotU	U-tot	40.0	U		ng/L	40		96.6%	40.0	40	38.63029	38.6		1	40	38.63029	08/15/11	2:59 PM
critotU	U 236-IS	101			%R	0.5				0.5	100.80463	101		1	0.5	100.80463	08/15/11	2:59 PM
cri235	U-tot									40	692.36987	692		1	40	692.36987	08/15/11	3:01 PM
cri235	U 236-IS									0.5	101.25749	101		1	0.5	101.25749	08/15/11	3:01 PM
icsa	U-tot	40.0	U		ng/L	40			0	40	3.48171	3.48		1	40	3.48171	08/15/11	3:03 PM
icsa	U 236-IS	98.0			%R	0.5				0.5	97.99854	98		1	0.5	97.99854	08/15/11	3:03 PM
icsab	U-tot	20500			ng/L	40		100.5%	20400	40	20533.56765	20500		1	40	20533.56765	08/15/11	3:06 PM
icsab	U 236-IS	101			%R	0.5				0.5	101.41519	101		1	0.5	101.41519	08/15/11	3:06 PM
zzz	U-tot	40.0	U		ng/L	40				40	-1.33704	-1.34		1	40	-1.33704	08/15/11	3:08 PM
zzz	U 236-IS	94.6			%R	0.5				0.5	94.63861	94.6		1	0.5	94.63861	08/15/11	3:08 PM
469498d10AS	U-tot	25500	✓		ng/L	40		101.4%	20500	40	25513.36876	25500	1530	1	40	25513.36876	08/15/11	3:11 PM
469498d10AS	U 236-IS	95.2			%R	0.5				0.5	95.16421	95.2		1	0.5	95.16421	08/15/11	3:11 PM
zzz	U-tot	40.0	U		ng/L	40				40	2.21863	2.22		1	40	2.21863	08/15/11	3:13 PM
zzz	U 236-IS	88.5			%R	0.5				0.5	88.46483	88.5		1	0.5	88.46483	08/15/11	3:13 PM
ccv	U-tot	7530			ng/L	40		98.2%	7670	40	7529.62203	7530		1	40	7529.62203	08/15/11	3:15 PM
ccv	U 236-IS	91.9			%R	0.5				0.5	91.93374	91.9		1	0.5	91.93374	08/15/11	3:15 PM
ccb	U-tot	40.0	U		ng/L	40				40	1.19431	1.19		1	40	1.19431	08/15/11	3:18 PM
ccb	U 236-IS	92.5			%R	0.5				0.5	92.50786	92.5		1	0.5	92.50786	08/15/11	3:18 PM

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VRS 8/29/11

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☐ 200.8 TAP No. 01-0406-107 Rev 5/Feb 10

☒ 6020 TAP No. 01-0406-046 Rev14/Jan 11

☐ TAP No. 01-0406-148 Rev0/Apr07

☐ Other________________

ANALYSIS
tot U

IDL Date: 5/10/2011

ICP-MS CALIB. STD. ID's | **TVs**

		tot U / U238 / U235
S0	11-081-05	
STD. 1	11-064-02	44984/44572/319 ppt
I. STD	11-064-09	0.5ppb
I. STD		

QC STD. ID's

ICV/CCV	11-080-08	7666/7612/54.5ppt
UCL		
CRI	11-080-04/05	40/39.7/4.95ppt
ICSA	11-064-04	
ICSAB	11-078-01	20444/20248/145ppt

STD's IV, CCS 1-6 Expires 10-1-11
STD's Spex, ME 1-4 Expires 9-15-11

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526.05.00	Fluor	110614-8	7/25/11	SO	WC 150082-150086

INSTRUMENT: DRC II FILENAME: 110725b.rep

Analyst: N. Seiler Date: 7 / 26 / 11 ☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Monday, July 25, 2011 16:49:21
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 July 1\Daily Performance Check.995
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Rachelle Seiler
7/25/11

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	4714.9	4714.889	41.621	0.9
	In	114.9	18161.5	18161.524	102.852	0.6
	U	238.1	18666.3	18666.277	47.749	0.3
[>	Ce	139.9	17765.7	17765.676	72.221	0.4
[	CeO	155.9	1118.5	0.063	0.005	7.4
[>	Ba	137.9	158142.6	158142.604	887.100	0.6
[	Ba++	69.0	2465.9	0.016	0.000	1.5
	Bkgd	220.0	2.5	2.533	0.570	22.5
	Bkgd	8.5	20.3	20.267	0.990	4.9

Current Optimization File Data

Current Value	Description
1.04	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
9.25	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

✓ 8/03/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	6.8	352.0
Co	59	45	7.8	7364.0
In	115	45	9.3	17045.0

010079

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Monday, July 25, 2011 16:49:21
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 July 1\Daily Performance Check.995
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Nicholle Seiler
7/25/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2782	2023	0.684	
Mg	23.985	23.975	5700	2030	0.716	
Ar2	75.930	75.875	18319	2069	0.711	
In	114.904	114.875	27824	2101	0.694	
Ce	139.905	139.925	33884	2116	0.685	
Pb	207.977	207.975	50482	2156	0.711	
Th	232.038	231.975	56332	2172	0.705	
U	238.050	238.025	57802	2182	0.688	

Report Date/Time: Monday, July 25, 2011 16:53:49
Page 1

Quantitative Analysis - Summary Report

Sample ID: S-0

Sample Date/Time: Monday, July 25, 2011 17:09:41
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\S-0.998
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	15	19.682	0.000	
	U	234	27	21.973	0.000	
	U	235	976	2.482	0.000	
	U	238	186	11.095	0.000	
	U 232	232	133	6.805	0.000	
┌	U-tot	238	1203	2.958	0.000	
│	U-238a	238	186	11.095	0.000	
│	U-235a	235	976	2.482	0.000	
└>	U 236	236	8930	1.458	0.000	
	U 236-IS	236	8930	1.458	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	14.667				ng/L
	U	234	26.667				ng/L
	U	235	975.719				ng/L
	U	238	185.669				ng/L
	U 232	232	133.334				ng/L
┌	U-tot	238	0.135				ng/L
│	U-238a	238	0.021				ng/L
│	U-235a	235	0.109				ng/L
└>	U 236	236	8930.051				ng/L
	U 236-IS	236	8930.051	**100.000**	1.46	1.5	%R

010081

Quantitative Analysis - Summary Report

Sample ID: S-1

Sample Date/Time: Monday, July 25, 2011 17:11:59
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\S-1.999
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	15	43.424	0.000	
	U	234	72	12.108	0.000	
	U	235	6823	1.449	0.000	
	U	238	786635	0.141	0.000	
	U 232	232	101	8.508	0.000	
⌈	U-tot	238	793545	0.136	0.000	
|	U-238a	238	786635	0.141	0.000	
|	U-235a	235	6823	1.449	0.000	
L>	U 236	236	8953	1.668	0.000	
	U 236-IS	236	8953	1.668	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	15.333				ng/L
	U	234	72.000				ng/L
	U	235	6822.560				ng/L
	U	238	786635.010				ng/L
	U 232	232	101.334				ng/L
⌈	U-tot	238	88.646	**44984.000**	710.99	1.6	ng/L
|	U-238a	238	87.874	**44572.000**	698.71	1.6	ng/L
|	U-235a	235	0.762	**319.000**	11.26	3.5	ng/L
L>	U 236	236	8953.408				ng/L
	U 236-IS	236	8953.408	**100.262**	1.67	1.7	%R

010082

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Monday, July 25, 2011 17:14:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\icv.1000
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	21	12.599	0.000	
	U	234	34	17.891	0.000	
	U	235	1984	2.277	0.000	
	U	238	139262	0.355	0.000	
	U 232	232	102	12.412	0.000	
┌	U-tot	238	141301	0.330	0.000	
│	U-238a	238	139262	0.355	0.000	
│	U-235a	235	1984	2.277	0.000	
└>	U 236	236	8804	1.365	0.000	
	U 236-IS	236	8804	1.365	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	21.000				ng/L
	U	234	34.000				ng/L
	U	235	1984.217				ng/L
	U	238	139262.236				ng/L
	U 232	232	102.334				ng/L
┌	U-tot	238	16.052	**8089.735**	100.37	1.2	ng/L
│	U-238a	238	15.821	**8015.946**	100.73	1.3	ng/L
│	U-235a	235	0.225	**56.736**	2.22	3.9	ng/L
└>	U 236	236	8803.594				ng/L
	U 236-IS	236	8803.594	**98.584**	1.35	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: icb

Sample Date/Time: Monday, July 25, 2011 17:16:36
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\icb.1001
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	9	80.417	0.000	
U	234	18	12.597	0.000	
U	235	951	1.098	0.000	
U	238	174	8.348	0.000	
U 232	232	75	10.403	0.000	
┌ U-tot	238	1153	2.120	0.000	
| U-238a	238	174	8.348	0.000	
| U-235a	235	951	1.098	0.000	
└> U 236	236	8903	0.628	0.000	
U 236-IS	236	8903	0.628	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	9.333				ng/L
U	234	18.333				ng/L
U	235	951.050				ng/L
U	238	174.002				ng/L
U 232	232	74.667				ng/L
┌ U-tot	238	0.129	**-2.643**	1.14	43.1	ng/L
| U-238a	238	0.020	**-0.634**	0.77	121.8	ng/L
| U-235a	235	0.107	**-1.185**	0.78	66.1	ng/L
└> U 236	236	8903.024				ng/L
U 236-IS	236	8903.024	**99.697**	0.63	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, July 25, 2011 17:18:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\critotU.1002
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	44.607	0.000	
	U	234	18	9.623	0.000	
	U	235	961	6.566	0.000	
	U	238	882	4.153	0.000	
	U 232	232	58	9.600	0.000	
┌	U-tot	238	1866	2.909	0.000	
│	U-238a	238	882	4.153	0.000	
│	U-235a	235	961	6.566	0.000	
└>	U 236	236	8838	1.725	0.000	
	U 236-IS	236	8838	1.725	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	18.000				ng/L
	U	235	961.051				ng/L
	U	238	882.376				ng/L
	U 232	232	58.000				ng/L
┌	U-tot	238	0.211	**38.852**	1.31	3.4	ng/L
│	U-238a	238	0.100	**40.117**	2.30	5.7	ng/L
│	U-235a	235	0.109	**-0.275**	2.74	995.8	ng/L
└>	U 236	236	8837.961				ng/L
	U 236-IS	236	8837.961	**98.969**	1.71	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Monday, July 25, 2011 17:21:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\cri235.1003
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	60.093	0.000	
	U	234	19	13.925	0.000	
	U	235	1083	2.547	0.000	
	U	238	12720	1.198	0.000	
	U 232	232	57	10.783	0.000	
┌	U-tot	238	13828	0.930	0.000	
│	U-238a	238	12720	1.198	0.000	
│	U-235a	235	1083	2.547	0.000	
└>	U 236	236	8926	0.325	0.000	
	U 236-IS	236	8926	0.325	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.000				ng/L
	U	234	19.000				ng/L
	U	235	1082.731				ng/L
	U	238	12720.227				ng/L
	U 232	232	56.667				ng/L
┌	U-tot	238	1.549	**718.888**	6.71	0.9	ng/L
│	U-238a	238	1.425	**712.451**	7.77	1.1	ng/L
│	U-235a	235	0.121	**5.889**	1.69	28.7	ng/L
└>	U 236	236	8926.047				ng/L
	U 236-IS	236	8926.047	**99.955**	0.32	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: icsa

Sample Date/Time: Monday, July 25, 2011 17:23:37
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\icsa.1004
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	14.783	0.000	
	U	234	25	13.856	0.000	
	U	235	891	2.014	0.000	
	U	238	251	6.481	0.000	
	U 232	232	1418	10.271	0.000	
┌	U-tot	238	1178	0.389	0.000	
|	U-238a	238	251	6.481	0.000	
|	U-235a	235	891	2.014	0.000	
└>	U 236	236	7901	1.305	0.000	
	U 236-IS	236	7901	1.305	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	10.333				ng/L
	U	234	25.000				ng/L
	U	235	891.377				ng/L
	U	238	251.337				ng/L
	U 232	232	1417.778				ng/L
┌	U-tot	238	0.149	**7.343**	0.84	11.4	ng/L
|	U-238a	238	0.032	**5.595**	1.08	19.4	ng/L
|	U-235a	235	0.113	**1.748**	1.22	69.8	ng/L
└>	U 236	236	7900.765				ng/L
	U 236-IS	236	7900.765	**88.474**	1.15	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Monday, July 25, 2011 17:25:55
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\icsab.1005
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	25	12.059	0.000	
	U	234	62	30.179	0.000	
	U	235	3165	0.886	0.000	
	U	238	318969	0.780	0.000	
	U 232	232	762	5.919	0.000	
┌	U-tot	238	322221	0.785	0.000	
|	U-238a	238	318969	0.780	0.000	
|	U-235a	235	3165	0.886	0.000	
└>	U 236	236	7976	0.502	0.000	
	U 236-IS	236	7976	0.502	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	25.333				ng/L
	U	234	61.667				ng/L
	U	235	3165.218				ng/L
	U	238	318969.180				ng/L
	U 232	232	761.699				ng/L
┌	U-tot	238	40.396	**20461.974**	69.99	0.3	ng/L
|	U-238a	238	39.988	**20277.370**	68.37	0.3	ng/L
|	U-235a	235	0.397	**140.477**	1.01	0.7	ng/L
└>	U 236	236	7976.498				ng/L
	U 236-IS	236	7976.498	**89.322**	0.45	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, July 25, 2011 17:28:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\zzz.1006
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	11	57.410	0.000	
U	234	24	19.516	0.000	
U	235	920	0.166	0.000	
U	238	200	5.075	0.000	
U 232	232	32	16.536	0.000	
U-tot	238	1155	1.869	0.000	
U-238a	238	200	5.075	0.000	
U-235a	235	920	0.166	0.000	
U 236	236	8164	0.548	0.000	
U 236-IS	236	8164	0.548	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	11.333				ng/L
U	234	23.667				ng/L
U	235	920.380				ng/L
U	238	200.002				ng/L
U 232	232	32.000				ng/L
U-tot	238	0.142	**3.488**	1.73	49.5	ng/L
U-238a	238	0.025	**1.884**	0.69	36.6	ng/L
U-235a	235	0.113	**1.703**	0.39	22.8	ng/L
U 236	236	8163.998				ng/L
U 236-IS	236	8163.998	**91.422**	0.50	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, July 25, 2011 17:30:33
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\ccv.1007
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	5	47.186	0.000	
U	234	18	17.293	0.000	
U	235	1867	1.661	0.000	
U	238	130444	0.999	0.000	
U 232	232	24	16.609	0.000	
⌈ U-tot	238	132334	0.964	0.000	
| U-238a	238	130444	0.999	0.000	
| U-235a	235	1867	1.661	0.000	
L> U 236	236	8191	0.562	0.000	
U 236-IS	236	8191	0.562	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	5.333				ng/L
U	234	17.667				ng/L
U	235	1867.192				ng/L
U	238	130443.920				ng/L
U 232	232	24.333				ng/L
⌈ U-tot	238	16.157	**8142.882**	73.48	0.9	ng/L
| U-238a	238	15.926	**8069.433**	74.55	0.9	ng/L
| U-235a	235	0.228	**57.999**	2.29	4.0	ng/L
L> U 236	236	8190.688				ng/L
U 236-IS	236	8190.688	**91.721**	0.52	0.6	%R

010090

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, July 25, 2011 17:32:51
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\ccb.1008
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	37.749	0.000	
	U	234	21	49.661	0.000	
	U	235	944	4.030	0.000	
	U	238	161	4.237	0.000	
	U 232	232	19	15.802	0.000	
┌	U-tot	238	1132	3.640	0.000	
│	U-238a	238	161	4.237	0.000	
│	U-235a	235	944	4.030	0.000	
└>	U 236	236	8298	0.798	0.000	
	U 236-IS	236	8298	0.798	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.667				ng/L
	U	234	20.667				ng/L
	U	235	943.716				ng/L
	U	238	160.668				ng/L
	U 232	232	19.333				ng/L
┌	U-tot	238	0.136	**0.877**	2.63	299.5	ng/L
│	U-238a	238	0.019	**-0.725**	0.35	48.5	ng/L
│	U-235a	235	0.114	**2.190**	2.30	104.9	ng/L
└>	U 236	236	8297.785				ng/L
	U 236-IS	236	8297.785	**92.920**	0.74	0.8	%R

010091

Quantitative Analysis - Summary Report

Sample ID: Blankd0

Sample Date/Time: Monday, July 25, 2011 17:35:09
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\Blankd0.1009
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	81.044	0.000	
	U	234	31	12.345	0.000	
	U	235	2617	2.289	0.000	
	U	238	76041	0.194	0.000	
	U 232	232	87	16.368	0.000	
┌	U-tot	238	78692	0.257	0.000	
│	U-238a	238	76041	0.194	0.000	
│	U-235a	235	2617	2.289	0.000	
└>	U 236	236	7942	0.429	0.000	
	U 236-IS	236	7942	0.429	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.333				ng/L
	U	234	30.667				ng/L
	U	235	2616.710				ng/L
	U	238	76040.697				ng/L
	U 232	232	87.334				ng/L
┌	U-tot	238	9.908	**4967.065**	29.82	0.6	ng/L
│	U-238a	238	9.574	**4846.822**	25.41	0.5	ng/L
│	U-235a	235	0.329	**107.583**	4.25	3.9	ng/L
└>	U 236	236	7942.468				ng/L
	U 236-IS	236	7942.468	**88.941**	0.38	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd1

Sample Date/Time: Monday, July 25, 2011 17:37:26
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\Blankd1.1010
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	8	19.924	0.000	
	U	234	29	31.653	0.000	
	U	235	2343	3.152	0.000	
	U	238	66191	0.495	0.000	
	U 232	232	64	6.811	0.000	
┌	U-tot	238	68570	0.590	0.000	
|	U-238a	238	66191	0.495	0.000	
|	U-235a	235	2343	3.152	0.000	
L>	U 236	236	7536	1.097	0.000	
	U 236-IS	236	7536	1.097	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.667				ng/L
	U	234	28.667				ng/L
	U	235	2342.635				ng/L
	U	238	66190.763				ng/L
	U 232	232	64.000				ng/L
┌	U-tot	238	9.100	**4556.391**	76.75	1.7	ng/L
|	U-238a	238	8.784	**4446.054**	70.09	1.6	ng/L
|	U-235a	235	0.311	**98.528**	6.28	6.4	ng/L
L>	U 236	236	7536.123				ng/L
	U 236-IS	236	7536.123	**84.391**	0.93	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d1

Sample Date/Time: Monday, July 25, 2011 17:39:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469498d1.1011
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	34.641	0.000	
	U	234	28	34.163	0.000	
	U	235	2184	1.503	0.000	
	U	238	65858	1.401	0.000	
	U 232	232	128	10.377	0.000	
┌	U-tot	238	68073	1.356	0.000	
|	U-238a	238	65858	1.401	0.000	
|	U-235a	235	2184	1.503	0.000	
└>	U 236	236	7629	2.187	0.000	
	U 236-IS	236	7629	2.187	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.333				ng/L
	U	234	27.667				ng/L
	U	235	2183.596				ng/L
	U	238	65858.054				ng/L
	U 232	232	128.334				ng/L
┌	U-tot	238	8.925	**4467.361**	53.81	1.2	ng/L
|	U-238a	238	8.634	**4370.061**	52.43	1.2	ng/L
|	U-235a	235	0.286	**86.490**	2.71	3.1	ng/L
└>	U 236	236	7628.534				ng/L
	U 236-IS	236	7628.534	**85.425**	1.87	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d1D

Sample Date/Time: Monday, July 25, 2011 17:42:02
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469498d1D.1012
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	87.670	0.000	
	U	234	28	12.395	0.000	
	U	235	2198	1.636	0.000	
	U	238	65091	1.398	0.000	
	U 232	232	235	2.102	0.000	
┌	U-tot	238	67321	1.392	0.000	
│	U-238a	238	65091	1.398	0.000	
│	U-235a	235	2198	1.636	0.000	
└>	U 236	236	7524	0.540	0.000	
	U 236-IS	236	7524	0.540	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	28.333				ng/L
	U	235	2197.599				ng/L
	U	238	65091.227				ng/L
	U 232	232	234.670				ng/L
┌	U-tot	238	8.948	**4479.045**	77.43	1.7	ng/L
│	U-238a	238	8.651	**4378.696**	74.71	1.7	ng/L
│	U-235a	235	0.292	**89.320**	3.02	3.4	ng/L
└>	U 236	236	7524.112				ng/L
	U 236-IS	236	7524.112	**84.256**	0.46	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d1L df5

Sample Date/Time: Monday, July 25, 2011 17:44:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469498d1L df5.1013
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	70.501	0.000	
	U	234	26	31.848	0.000	
	U	235	1102	2.043	0.000	
	U	238	13251	0.885	0.000	
	U 232	232	59	7.785	0.000	
┌	U-tot	238	14384	0.647	0.000	
|	U-238a	238	13251	0.885	0.000	
|	U-235a	235	1102	2.043	0.000	
└>	U 236	236	7620	0.072	0.000	
	U 236-IS	236	7620	0.072	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.333				ng/L
	U	234	26.333				ng/L
	U	235	1102.067				ng/L
	U	238	13251.318				ng/L
	U 232	232	59.334				ng/L
┌	U-tot	238	1.888	**890.987**	6.56	0.7	ng/L
|	U-238a	238	1.739	**871.794**	8.04	0.9	ng/L
|	U-235a	235	0.145	**17.286**	1.47	8.5	ng/L
└>	U 236	236	7619.525				ng/L
	U 236-IS	236	7619.525	**85.325**	0.06	0.1	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d1AS

Sample Date/Time: Monday, July 25, 2011 17:46:39
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469498d1AS.1014
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20 uL 1° natural Uranium at df 100 (075-Rad-Sol 2, 11-064-06) in 10mL

$\frac{U_{tot}}{TV} = 20462$ ng/L

$\frac{U_{238}}{TV} = 20316$ ng/L

8/15/11

$\frac{U_{235}}{TV} = 145$ ng/L

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	29.397	0.000	
	U	234	49	23.536	0.000	
	U	235	4449	1.891	0.000	
	U	238	374762	0.613	0.000	
	U 232	232	130	8.174	0.000	
┌	U-tot	238	379269	0.602	0.000	
│	U-238a	238	374762	0.613	0.000	
│	U-235a	235	4449	1.891	0.000	
└>	U 236	236	7707	0.760	0.000	
	U 236-IS	236	7707	0.760	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.000				ng/L
	U	234	49.000				ng/L
	U	235	4449.089				ng/L
	U	238	374761.729				ng/L
	U 232	232	129.668				ng/L
┌	U-tot	238	49.213	**24942.832**	184.88	0.7	ng/L
│	U-238a	238	48.628	**24660.609**	187.61	0.8	ng/L
│	U-235a	235	0.577	**228.626**	3.65	1.6	ng/L
└>	U 236	236	7706.932				ng/L
	U 236-IS	236	7706.932	**86.303**	0.66	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, July 25, 2011 17:48:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\zzz.1015
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	22.913	0.000	
	U	234	19	14.931	0.000	
	U	235	867	3.693	0.000	
	U	238	264	6.379	0.000	
	U 232	232	30	8.297	0.000	
┌	U-tot	238	1157	4.591	0.000	
|	U-238a	238	264	6.379	0.000	
|	U-235a	235	867	3.693	0.000	
└>	U 236	236	7652	1.125	0.000	
	U 236-IS	236	7652	1.125	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.667				ng/L
	U	234	19.333				ng/L
	U	235	866.708				ng/L
	U	238	264.337				ng/L
	U 232	232	30.333				ng/L
┌	U-tot	238	0.151	**8.414**	3.68	43.7	ng/L
|	U-238a	238	0.035	**6.981**	1.14	16.4	ng/L
|	U-235a	235	0.113	**1.966**	2.16	109.7	ng/L
└>	U 236	236	7651.886				ng/L
	U 236-IS	236	7651.886	**85.687**	0.96	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, July 25, 2011 17:51:19
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\critotU.1016
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	2	65.465	0.000	
	U	234	11	18.368	0.000	
	U	235	841	4.725	0.000	
	U	238	789	6.667	0.000	
	U 232	232	18	18.196	0.000	
⌈	U-tot	238	1644	2.512	0.000	
|	U-238a	238	789	6.667	0.000	
|	U-235a	235	841	4.725	0.000	
└>	U 236	236	7862	0.615	0.000	
	U 236-IS	236	7862	0.615	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	2.333				ng/L
	U	234	11.333				ng/L
	U	235	841.039				ng/L
	U	238	789.034				ng/L
	U 232	232	17.667				ng/L
⌈	U-tot	238	0.209	**37.831**	3.31	8.7	ng/L
|	U-238a	238	0.100	**40.382**	3.61	8.9	ng/L
|	U-235a	235	0.107	**-1.108**	2.55	230.0	ng/L
└>	U 236	236	7861.731				ng/L
	U 236-IS	236	7861.731	**88.037**	0.54	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Monday, July 25, 2011 17:53:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\cri235.1017
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	56.773	0.000	
	U	234	13	46.259	0.000	
	U	235	967	2.069	0.000	
	U	238	11311	0.656	0.000	
	U 232	232	13	33.530	0.000	
┌	U-tot	238	12295	0.544	0.000	
│	U-238a	238	11311	0.656	0.000	
│	U-235a	235	967	2.069	0.000	
└>	U 236	236	7990	2.637	0.000	
	U 236-IS	236	7990	2.637	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	12.667				ng/L
	U	235	967.385				ng/L
	U	238	11311.032				ng/L
	U 232	232	13.000				ng/L
┌	U-tot	238	1.539	**713.948**	17.10	2.4	ng/L
│	U-238a	238	1.416	**707.976**	14.61	2.1	ng/L
│	U-235a	235	0.121	**5.820**	2.51	43.2	ng/L
└>	U 236	236	7989.511				ng/L
	U 236-IS	236	7989.511	**89.468**	2.36	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, July 25, 2011 17:56:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\ccv.1018
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	103.253	0.000	
	U	234	30	14.034	0.000	
	U	235	1824	0.964	0.000	
	U	238	124341	0.128	0.000	
	U 232	232	19	10.526	0.000	
┌	U-tot	238	126198	0.134	0.000	
│	U-238a	238	124341	0.128	0.000	
│	U-235a	235	1824	0.964	0.000	
└>	U 236	236	8074	0.910	0.000	
	U 236-IS	236	8074	0.910	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	29.667				ng/L
	U	235	1824.183				ng/L
	U	238	124340.895				ng/L
	U 232	232	19.000				ng/L
┌	U-tot	238	15.631	**7875.452**	69.03	0.9	ng/L
│	U-238a	238	15.400	**7802.835**	68.32	0.9	ng/L
│	U-235a	235	0.226	**56.998**	0.89	1.6	ng/L
└>	U 236	236	8074.251				ng/L
	U 236-IS	236	8074.251	**90.417**	0.82	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, July 25, 2011 17:58:19
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\ccb.1019
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	68.635	0.000	
	U	234	14	38.425	0.000	
	U	235	890	2.160	0.000	
	U	238	156	1.696	0.000	
	U 232	232	13	13.323	0.000	
┌	U-tot	238	1064	2.124	0.000	
│	U-238a	238	156	1.696	0.000	
│	U-235a	235	890	2.160	0.000	
└>	U 236	236	7962	1.067	0.000	
	U 236-IS	236	7962	1.067	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	14.333				ng/L
	U	235	889.710				ng/L
	U	238	156.001				ng/L
	U 232	232	13.000				ng/L
┌	U-tot	238	0.134	**-0.528**	2.16	409.0	ng/L
│	U-238a	238	0.020	**-0.605**	0.25	41.7	ng/L
│	U-235a	235	0.112	**1.231**	1.75	142.2	ng/L
└>	U 236	236	7961.819				ng/L
	U 236-IS	236	7961.819	**89.158**	0.95	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 469499d1

Sample Date/Time: Monday, July 25, 2011 18:00:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469499d1.1020
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	55	55.888	0.000	
	U	234	82	20.767	0.000	
	U	235	2399	1.047	0.000	
	U	238	66048	1.138	0.000	
	U 232	232	241	21.252	0.000	
┌	U-tot	238	68585	1.092	0.000	
|	U-238a	238	66048	1.138	0.000	
|	U-235a	235	2399	1.047	0.000	
└>	U 236	236	7764	0.948	0.000	
	U 236-IS	236	7764	0.948	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	55.334				ng/L
	U	234	82.334				ng/L
	U	235	2398.983				ng/L
	U	238	66048.417				ng/L
	U 232	232	241.337				ng/L
┌	U-tot	238	8.834	**4421.315**	56.18	1.3	ng/L
|	U-238a	238	8.507	**4305.616**	51.90	1.2	ng/L
|	U-235a	235	0.309	**97.591**	2.93	3.0	ng/L
└>	U 236	236	7763.981				ng/L
	U 236-IS	236	7763.981	**86.942**	0.82	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: 469499d1D

Sample Date/Time: Monday, July 25, 2011 18:02:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469499d1D.1021
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	11	5.094	0.000	
	U	234	32	8.268	0.000	
	U	235	2311	0.804	0.000	
	U	238	67719	0.937	0.000	
	U 232	232	182	10.440	0.000	
┌	U-tot	238	70074	0.887	0.000	
|	U-238a	238	67719	0.937	0.000	
|	U-235a	235	2311	0.804	0.000	
└>	U 236	236	7762	0.348	0.000	
	U 236-IS	236	7762	0.348	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	11.333				ng/L
	U	234	32.000				ng/L
	U	235	2310.960				ng/L
	U	238	67719.303				ng/L
	U 232	232	182.002				ng/L
┌	U-tot	238	9.028	**4520.024**	50.25	1.1	ng/L
|	U-238a	238	8.725	**4416.063**	50.79	1.2	ng/L
|	U-235a	235	0.298	**92.077**	0.74	0.8	ng/L
└>	U 236	236	7761.645				ng/L
	U 236-IS	236	7761.645	**86.916**	0.30	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d1

Sample Date/Time: Monday, July 25, 2011 18:05:19
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469500d1.1022
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	19	30.462	0.000	
	U	234	42	18.013	0.000	
	U	235	1867	5.466	0.000	
	U	238	53326	0.568	0.000	
	U 232	232	832	13.554	0.000	
┌	U-tot	238	55253	0.680	0.000	
|	U-238a	238	53326	0.568	0.000	
|	U-235a	235	1867	5.466	0.000	
└>	U 236	236	7760	1.301	0.000	
	U 236-IS	236	7760	1.301	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	18.667				ng/L
	U	234	41.667				ng/L
	U	235	1866.859				ng/L
	U	238	53325.947				ng/L
	U 232	232	832.372				ng/L
┌	U-tot	238	7.121	**3550.484**	24.22	0.7	ng/L
|	U-238a	238	6.872	**3476.138**	29.62	0.9	ng/L
|	U-235a	235	0.241	**64.118**	5.20	8.1	ng/L
└>	U 236	236	7759.978				ng/L
	U 236-IS	236	7759.978	**86.897**	1.13	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d1D

Sample Date/Time: Monday, July 25, 2011 18:07:40
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469500d1D.1023
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	66.667	0.000	
	U	234	20	35.000	0.000	
	U	235	1942	0.880	0.000	
	U	238	58066	0.409	0.000	
	U 232	232	800	10.722	0.000	
┌	U-tot	238	60031	0.375	0.000	
|	U-238a	238	58066	0.409	0.000	
|	U-235a	235	1942	0.880	0.000	
└>	U 236	236	7938	0.708	0.000	
	U 236-IS	236	7938	0.708	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.000				ng/L
	U	234	20.000				ng/L
	U	235	1942.207				ng/L
	U	238	58065.852				ng/L
	U 232	232	800.035				ng/L
┌	U-tot	238	7.562	**3775.001**	41.26	1.1	ng/L
|	U-238a	238	7.315	**3700.627**	41.08	1.1	ng/L
|	U-235a	235	0.245	**66.146**	0.48	0.7	ng/L
└>	U 236	236	7938.465				ng/L
	U 236-IS	236	7938.465	**88.896**	0.63	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 469501d1

Sample Date/Time: Monday, July 25, 2011 18:10:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469501d1.1024
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	32.733	0.000	
	U	234	33	20.383	0.000	
	U	235	2371	2.209	0.000	
	U	238	70729	0.361	0.000	
	U 232	232	143	14.042	0.000	
⌈	U-tot	238	73137	0.300	0.000	
|	U-238a	238	70729	0.361	0.000	
|	U-235a	235	2371	2.209	0.000	
L>	U 236	236	8013	0.412	0.000	
	U 236-IS	236	8013	0.412	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	32.667				ng/L
	U	235	2370.976				ng/L
	U	238	70728.743				ng/L
	U 232	232	142.668				ng/L
⌈	U-tot	238	9.127	**4570.263**	26.87	0.6	ng/L
|	U-238a	238	8.827	**4467.633**	29.68	0.7	ng/L
|	U-235a	235	0.296	**91.165**	2.67	2.9	ng/L
L>	U 236	236	8013.197				ng/L
	U 236-IS	236	8013.197	**89.733**	0.37	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: 469501d1D

Sample Date/Time: Monday, July 25, 2011 18:12:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469501d1D.1025
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	75.000	0.000	
	U	234	25	16.000	0.000	
	U	235	2435	0.616	0.000	
	U	238	70644	0.188	0.000	
	U 232	232	192	19.691	0.000	
┌	U-tot	238	73109	0.184	0.000	
|	U-238a	238	70644	0.188	0.000	
|	U-235a	235	2435	0.616	0.000	
└>	U 236	236	8111	1.144	0.000	
	U 236-IS	236	8111	1.144	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.000				ng/L
	U	234	25.000				ng/L
	U	235	2435.326				ng/L
	U	238	70644.423				ng/L
	U 232	232	192.335				ng/L
┌	U-tot	238	9.015	**4513.171**	60.70	1.3	ng/L
|	U-238a	238	8.711	**4408.948**	58.98	1.3	ng/L
|	U-235a	235	0.300	**93.324**	1.93	2.1	ng/L
└>	U 236	236	8110.617				ng/L
	U 236-IS	236	8110.617	**90.824**	1.04	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 469506d1

Sample Date/Time: Monday, July 25, 2011 18:14:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469506d1.1026
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	94.373	0.000	
	U	234	29	20.690	0.000	
	U	235	2437	1.828	0.000	
	U	238	71635	0.332	0.000	
	U 232	232	201	6.729	0.000	
┌	U-tot	238	74104	0.256	0.000	
|	U-238a	238	71635	0.332	0.000	
|	U-235a	235	2437	1.828	0.000	
└>	U 236	236	8252	1.202	0.000	
	U 236-IS	236	8252	1.202	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	2.667				ng/L
	U	234	29.000				ng/L
	U	235	2437.327				ng/L
	U	238	71634.796				ng/L
	U 232	232	200.669				ng/L
┌	U-tot	238	8.981	**4495.793**	65.10	1.4	ng/L
|	U-238a	238	8.681	**4393.978**	65.72	1.5	ng/L
|	U-235a	235	0.295	**90.906**	1.64	1.8	ng/L
└>	U 236	236	8252.411				ng/L
	U 236-IS	236	8252.411	**92.412**	1.11	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, July 25, 2011 18:17:06
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\zzz.1027
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	57.735	0.000	
	U	234	20	52.678	0.000	
	U	235	941	3.723	0.000	
	U	238	219	2.056	0.000	
	U 232	232	22	27.820	0.000	
┌	U-tot	238	1183	2.124	0.000	
|	U-238a	238	219	2.056	0.000	
|	U-235a	235	941	3.723	0.000	
└>	U 236	236	8393	0.667	0.000	
	U 236-IS	236	8393	0.667	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.000				ng/L
	U	234	20.000				ng/L
	U	235	940.715				ng/L
	U	238	219.336				ng/L
	U 232	232	21.667				ng/L
┌	U-tot	238	0.141	**3.200**	1.87	58.5	ng/L
|	U-238a	238	0.026	**2.710**	0.21	7.7	ng/L
|	U-235a	235	0.112	**1.388**	2.28	163.9	ng/L
└>	U 236	236	8393.206				ng/L
	U 236-IS	236	8393.206	**93.988**	0.63	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, July 25, 2011 18:19:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\critotU.1028
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	45.826	0.000	
	U	234	20	30.414	0.000	
	U	235	954	2.870	0.000	
	U	238	866	0.593	0.000	
	U 232	232	17	27.056	0.000	
┌	U-tot	238	1843	1.411	0.000	
│	U-238a	238	866	0.593	0.000	
│	U-235a	235	954	2.870	0.000	
└>	U 236	236	8499	0.604	0.000	
	U 236-IS	236	8499	0.604	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.333				ng/L
	U	234	20.000				ng/L
	U	235	954.383				ng/L
	U	238	865.708				ng/L
	U 232	232	16.667				ng/L
┌	U-tot	238	0.217	**41.805**	2.21	5.3	ng/L
│	U-238a	238	0.102	**41.135**	0.61	1.5	ng/L
│	U-235a	235	0.112	**1.495**	1.91	127.7	ng/L
└>	U 236	236	8498.637				ng/L
	U 236-IS	236	8498.637	**95.169**	0.57	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Monday, July 25, 2011 18:21:48
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\cri235.1029
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	12.372	0.000	
	U	234	17	30.566	0.000	
	U	235	1049	1.984	0.000	
	U	238	12455	2.484	0.000	
	U 232	232	20	17.272	0.000	
⌈	U-tot	238	13526	2.277	0.000	
|	U-238a	238	12455	2.484	0.000	
|	U-235a	235	1049	1.984	0.000	
└>	U 236	236	8695	1.888	0.000	
	U 236-IS	236	8695	1.888	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	17.000				ng/L
	U	235	1049.394				ng/L
	U	238	12454.863				ng/L
	U 232	232	20.333				ng/L
⌈	U-tot	238	1.556	**722.309**	23.73	3.3	ng/L
|	U-238a	238	1.433	**716.339**	23.62	3.3	ng/L
|	U-235a	235	0.121	**5.583**	0.27	4.8	ng/L
└>	U 236	236	8695.491				ng/L
	U 236-IS	236	8695.491	**97.373**	1.84	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, July 25, 2011 18:24:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\ccv.1030
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	53.927	0.000	
	U	234	26	16.765	0.000	
	U	235	1914	1.723	0.000	
	U	238	136195	0.335	0.000	
	U 232	232	15	11.547	0.000	
┌	U-tot	238	138139	0.351	0.000	
|	U-238a	238	136195	0.335	0.000	
|	U-235a	235	1914	1.723	0.000	
└>	U 236	236	8597	1.011	0.000	
	U 236-IS	236	8597	1.011	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	26.000				ng/L
	U	235	1914.202				ng/L
	U	238	136194.616				ng/L
	U 232	232	15.000				ng/L
┌	U-tot	238	16.070	**8098.623**	109.66	1.4	ng/L
|	U-238a	238	15.843	**8027.548**	106.95	1.3	ng/L
|	U-235a	235	0.223	**55.414**	2.69	4.8	ng/L
└>	U 236	236	8597.063				ng/L
	U 236-IS	236	8597.063	**96.271**	0.97	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, July 25, 2011 18:26:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\ccb.1031
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	68.635	0.000	
	U	234	12	26.064	0.000	
	U	235	945	2.335	0.000	
	U	238	170	1.222	0.000	
	U 232	232	20	7.767	0.000	
┌	U-tot	238	1131	2.209	0.000	
│	U-238a	238	170	1.222	0.000	
│	U-235a	235	945	2.335	0.000	
└>	U 236	236	8613	0.809	0.000	
	U 236-IS	236	8613	0.809	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	12.333				ng/L
	U	235	945.049				ng/L
	U	238	170.335				ng/L
	U 232	232	19.667				ng/L
┌	U-tot	238	0.131	**-1.678**	1.88	112.2	ng/L
│	U-238a	238	0.020	**-0.513**	0.20	39.4	ng/L
│	U-235a	235	0.110	**0.233**	1.50	644.9	ng/L
└>	U 236	236	8613.412				ng/L
	U 236-IS	236	8613.412	**96.454**	0.78	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: 469506d1D

Sample Date/Time: Monday, July 25, 2011 18:28:48
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469506d1D.1032
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	3	45.826	0.000	
U	234	35	38.439	0.000	
U	235	2457	0.916	0.000	
U	238	71380	0.419	0.000	
U 232	232	114	4.845	0.000	
┌ U-tot	238	73875	0.415	0.000	
│ U-238a	238	71380	0.419	0.000	
│ U-235a	235	2457	0.916	0.000	
└> U 236	236	8409	1.715	0.000	
U 236-IS	236	8409	1.715	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	3.333				ng/L
U	234	35.000				ng/L
U	235	2456.999				ng/L
U	238	71379.803				ng/L
U 232	232	113.667				ng/L
┌ U-tot	238	8.786	**4397.026**	58.90	1.3	ng/L
│ U-238a	238	8.490	**4296.596**	56.81	1.3	ng/L
│ U-235a	235	0.292	**89.375**	1.15	1.3	ng/L
└> U 236	236	8409.222				ng/L
U 236-IS	236	8409.222	**94.168**	1.61	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd2

Sample Date/Time: Monday, July 25, 2011 18:31:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\Blankd2.1033
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	3	78.062	0.000	
U	234	30	21.951	0.000	
U	235	2690	2.651	0.000	
U	238	74552	0.576	0.000	
U 232	232	50	16.059	0.000	
┌ U-tot	238	77276	0.627	0.000	
│ U-238a	238	74552	0.576	0.000	
│ U-235a	235	2690	2.651	0.000	
└> U 236	236	8391	1.025	0.000	
U 236-IS	236	8391	1.025	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	2.667				ng/L
U	234	30.333				ng/L
U	235	2690.065				ng/L
U	238	74552.452				ng/L
U 232	232	50.333				ng/L
┌ U-tot	238	9.210	**4612.216**	56.04	1.2	ng/L
│ U-238a	238	8.885	**4497.318**	50.95	1.1	ng/L
│ U-235a	235	0.321	**103.262**	5.18	5.0	ng/L
└> U 236	236	8391.204				ng/L
U 236-IS	236	8391.204	**93.966**	0.96	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d2

Sample Date/Time: Monday, July 25, 2011 18:33:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469498d2.1034
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	75.498	0.000	
	U	234	30	17.638	0.000	
	U	235	2500	2.737	0.000	
	U	238	74796	0.421	0.000	
	U 232	232	156	6.115	0.000	
┌	U-tot	238	77329	0.495	0.000	
|	U-238a	238	74796	0.421	0.000	
|	U-235a	235	2500	2.737	0.000	
L>	U 236	236	8466	0.215	0.000	
	U 236-IS	236	8466	0.215	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.333				ng/L
	U	234	30.000				ng/L
	U	235	2500.011				ng/L
	U	238	74796.105				ng/L
	U 232	232	156.001				ng/L
┌	U-tot	238	9.134	**4573.612**	14.18	0.3	ng/L
|	U-238a	238	8.835	**4471.641**	10.56	0.2	ng/L
|	U-235a	235	0.295	**90.877**	3.67	4.0	ng/L
L>	U 236	236	8466.274				ng/L
	U 236-IS	236	8466.274	**94.807**	0.20	0.2	%R

010117

Quantitative Analysis - Summary Report

Sample ID: 469498d2D

Sample Date/Time: Monday, July 25, 2011 18:35:55
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469498d2D.1035
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	21.651	0.000	
	U	234	31	24.036	0.000	
	U	235	2452	1.157	0.000	
	U	238	76413	0.869	0.000	
	U 232	232	133	8.671	0.000	
┌	U-tot	238	78898	0.861	0.000	
|	U-238a	238	76413	0.869	0.000	
|	U-235a	235	2452	1.157	0.000	
└>	U 236	236	8451	0.554	0.000	
	U 236-IS	236	8451	0.554	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	2.667				ng/L
	U	234	30.667				ng/L
	U	235	2451.664				ng/L
	U	238	76413.485				ng/L
	U 232	232	133.001				ng/L
┌	U-tot	238	9.336	**4676.366**	15.10	0.3	ng/L
|	U-238a	238	9.042	**4576.838**	14.64	0.3	ng/L
|	U-235a	235	0.290	**88.348**	1.32	1.5	ng/L
└>	U 236	236	8450.926				ng/L
	U 236-IS	236	8450.926	**94.635**	0.52	0.6	%R

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8.31.11

Quantitative Analysis - Summary Report

Sample ID: 469498d2L df5

Sample Date/Time: Monday, July 25, 2011 18:38:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469498d2L df5.1036
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	6	88.192	0.000	
U	234	28	36.051	0.000	
U	235	1282	1.745	0.000	
U	238	15174	1.063	0.000	
U 232	232	59	19.547	0.000	
U-tot	238	16490	0.836	0.000	
U-238a	238	15174	1.063	0.000	
U-235a	235	1282	1.745	0.000	
U 236	236	8606	1.061	0.000	
U 236-IS	236	8606	1.061	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	6.000				ng/L
U	234	28.333				ng/L
U	235	1281.757				ng/L
U	238	15173.654				ng/L
U 232	232	59.000				ng/L
U-tot	238	1.916	**905.521**	18.48	2.0	ng/L
U-238a	238	1.763	**884.141**	19.06	2.2	ng/L
U-235a	235	0.149	**19.385**	0.56	2.9	ng/L
U 236	236	8605.738				ng/L
U 236-IS	236	8605.738	**96.368**	1.02	1.1	%R

010118

Quantitative Analysis - Summary Report

Sample ID: 469498d2AS

Sample Date/Time: Monday, July 25, 2011 18:40:29
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\469498d2AS.1037
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20 uL of 1° Natural uranium at df 100 in 10 mL (075-Rad-sol 2, 11-064-06)

$\frac{U_{tot}}{TU = 20462 \text{ ng/L}}$

$\frac{U_{238}}{TU = 20316 \text{ ng/L}}$

$\frac{U_{235}}{TU = 145 \text{ ng/L}}$

8/15/11 DS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	62.450	0.000	
	U	234	43	12.306	0.000	
	U	235	4974	0.912	0.000	
	U	238	419403	0.151	0.000	
	U 232	232	161	5.521	0.000	
┌	U-tot	238	424423	0.141	0.000	
|	U-238a	238	419403	0.151	0.000	
|	U-235a	235	4974	0.912	0.000	
└>	U 236	236	8677	1.729	0.000	
	U 236-IS	236	8677	1.729	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.333				ng/L
	U	234	43.000				ng/L
	U	235	4973.694				ng/L
	U	238	419403.337				ng/L
	U 232	232	161.001				ng/L
┌	U-tot	238	48.923	**24795.752**	459.73	1.9	ng/L
|	U-238a	238	48.345	**24516.933**	456.68	1.9	ng/L
|	U-235a	235	0.573	**226.668**	2.35	1.0	ng/L
└>	U 236	236	8677.140				ng/L
	U 236-IS	236	8677.140	**97.168**	1.68	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, July 25, 2011 18:42:48
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\zzz.1038
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	53.927	0.000	
	U	234	16	25.797	0.000	
	U	235	919	1.146	0.000	
	U	238	314	2.893	0.000	
	U 232	232	20	17.857	0.000	
┌	U-tot	238	1253	1.208	0.000	
|	U-238a	238	314	2.893	0.000	
|	U-235a	235	919	1.146	0.000	
└>	U 236	236	8573	0.369	0.000	
	U 236-IS	236	8573	0.369	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	15.667				ng/L
	U	235	919.046				ng/L
	U	238	313.672				ng/L
	U 232	232	19.667				ng/L
┌	U-tot	238	0.146	**5.842**	0.63	10.9	ng/L
|	U-238a	238	0.037	**8.016**	0.50	6.2	ng/L
|	U-235a	235	0.107	**-1.001**	0.41	41.0	ng/L
└>	U 236	236	8572.707				ng/L
	U 236-IS	236	8572.707	**95.998**	0.35	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, July 25, 2011 18:45:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\critotU.1039
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	13	28.395	0.000	
	U	234	32	10.151	0.000	
	U	235	946	5.672	0.000	
	U	238	871	2.244	0.000	
	U 232	232	24	49.124	0.000	
┌	U-tot	238	1862	2.614	0.000	
│	U-238a	238	871	2.244	0.000	
│	U-235a	235	946	5.672	0.000	
└>	U 236	236	8603	0.777	0.000	
	U 236-IS	236	8603	0.777	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	13.333				ng/L
	U	234	31.667				ng/L
	U	235	945.716				ng/L
	U	238	871.375				ng/L
	U 232	232	24.000				ng/L
┌	U-tot	238	0.216	**41.568**	3.40	8.2	ng/L
│	U-238a	238	0.101	**40.845**	1.50	3.7	ng/L
│	U-235a	235	0.110	**0.330**	3.10	939.5	ng/L
└>	U 236	236	8603.403				ng/L
	U 236-IS	236	8603.403	**96.342**	0.75	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Monday, July 25, 2011 18:47:29
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\cri235.1040
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	10.825	0.000	
	U	234	17	22.716	0.000	
	U	235	1058	2.488	0.000	
	U	238	12667	0.869	0.000	
	U 232	232	9	16.366	0.000	
┌	U-tot	238	13747	0.886	0.000	
|	U-238a	238	12667	0.869	0.000	
|	U-235a	235	1058	2.488	0.000	
└>	U 236	236	8710	1.088	0.000	
	U 236-IS	236	8710	1.088	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.333				ng/L
	U	234	16.667				ng/L
	U	235	1057.728				ng/L
	U	238	12667.153				ng/L
	U 232	232	9.333				ng/L
┌	U-tot	238	1.578	**733.704**	7.26	1.0	ng/L
|	U-238a	238	1.454	**727.307**	5.40	0.7	ng/L
|	U-235a	235	0.121	**5.962**	1.89	31.7	ng/L
└>	U 236	236	8710.171				ng/L
	U 236-IS	236	8710.171	**97.538**	1.06	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, July 25, 2011 18:49:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\ccv.1041
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	91.124	0.000	
	U	234	29	33.520	0.000	
	U	235	1984	1.792	0.000	
	U	238	139803	0.658	0.000	
	U 232	232	19	56.930	0.000	
┌	U-tot	238	141825	0.659	0.000	
|	U-238a	238	139803	0.658	0.000	
|	U-235a	235	1984	1.792	0.000	
└>	U 236	236	8892	0.993	0.000	
	U 236-IS	236	8892	0.993	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.333				ng/L
	U	234	28.667				ng/L
	U	235	1984.217				ng/L
	U	238	139803.131				ng/L
	U 232	232	19.000				ng/L
┌	U-tot	238	15.951	**8038.236**	50.96	0.6	ng/L
|	U-238a	238	15.723	**7966.676**	51.79	0.7	ng/L
|	U-235a	235	0.223	**55.641**	1.55	2.8	ng/L
└>	U 236	236	8891.680				ng/L
	U 236-IS	236	8891.680	**99.570**	0.99	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, July 25, 2011 18:52:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 1\ccb.1042
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	26	19.487	0.000	
U	234	37	5.576	0.000	
U	235	995	4.672	0.000	
U	238	208	6.934	0.000	
U 232	232	29	3.936	0.000	
┌ U-tot	238	1267	4.795	0.000	
| U-238a	238	208	6.934	0.000	
| U-235a	235	995	4.672	0.000	
└> U 236	236	8893	1.395	0.000	
U 236-IS	236	8893	1.395	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	26.333				ng/L
U	234	37.333				ng/L
U	235	995.388				ng/L
U	238	208.002				ng/L
U 232	232	29.333				ng/L
┌ U-tot	238	0.143	**4.005**	4.31	107.7	ng/L
| U-238a	238	0.023	**1.328**	0.98	73.9	ng/L
| U-235a	235	0.112	**1.335**	3.20	239.9	ng/L
└> U 236	236	8892.681				ng/L
U 236-IS	236	8892.681	**99.582**	1.39	1.4	%R

SOUTHWEST RESEARCH INSTITUTE

010124

☐ 200.8 TAP No. 01-0406-107 Rev 5/Feb 10

☒ 6020 TAP No. 01-0406-046 Rev14/Jan 11

☐ TAP No. 01-0406-148 Rev0/Apr07

☐ Other____________________

ICP-MS CALIB. STD. ID's

		TVs
		tot u/u238/u235
S0	11-081-05	
STD. 1	11-064-02	44984/44572/319ppt
I. STD	11-064-09	0.5ppb
I. STD		

QC STD. ID's

ICV/CCV	11-080-08	7666/7612/54.5 ppt
UCL		
CRI	11-080-04/05	40/39.7/4.95 ppt
ICSA	11-064-04	
ICSAB	11-078-01	20444/20248/145 ppt

STD's 1V, CCS 1-6 Expires 10-1-11
STD's Spex, ME 1-4 Expires 9-15-11

ANALYSIS

Utot, ~~U238, U235~~ NN 8/23/11

IDL Date: 5/10/2011

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526.05.00	Fluor	110614-8	7/26/11	SO	WC 150082 - 150086

INSTRUMENT: DRC II FILENAME: 110726.rep

Analyst: Nichollo Seiler Date: 7/26/11 ☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Tuesday, July 26, 2011 10:18:26
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Daily Performance Check.019
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Nicholle Seiler
7/26/11

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
┌>	Mg	24.0	5925.1	5925.130	68.600	1.2
	In	114.9	19187.4	19187.363	228.670	1.2
	U	238.1	14618.1	14618.144	145.523	1.0
┌>	Ce	139.9	21118.2	21118.237	258.841	1.2
└	CeO	155.9	963.6	0.046	0.001	2.5
┌>	Ba	137.9	176939.6	176939.560	1931.322	1.1
└	Ba++	69.0	4700.1	0.027	0.000	1.0
	Bkgd	220.0	3.6	3.633	1.063	29.3
	Bkgd	8.5	1.2	1.233	0.641	52.0

Current Optimization File Data

Current Value	Description
1.02	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
8.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

9/23/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	6.3	563.0
Co	59	45	7.3	10734.3
In	115	45	8.5	21071.4

010126

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Tuesday, July 26, 2011 10:18:26
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Daily Performance Check.019
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Nicholle Seiler
7/26/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2750	2062	0.699	
Mg	23.985	23.975	5673	2074	0.683	
Ar2	75.930	75.925	18309	2097	0.710	
In	114.904	114.925	27798	2129	0.694	
Ce	139.905	139.925	33881	2145	0.686	
Pb	207.977	207.975	50477	2185	0.708	
Th	232.038	232.025	56336	2208	0.683	
U	238.050	238.075	57806	2221	0.693	

Report Date/Time: Tuesday, July 26, 2011 10:23:22

Quantitative Analysis - Summary Report

Sample ID: S-0

Sample Date/Time: Tuesday, July 26, 2011 10:26:27
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\S-0.020
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	21	35.493	0.000	
	U	234	35	24.019	0.000	
	U	235	804	3.455	0.000	
	U	238	145	6.207	0.000	
	U 232	232	295	2.255	0.000	
┌	U-tot	238	1005	2.786	0.000	
|	U-238a	238	145	6.207	0.000	
|	U-235a	235	804	3.455	0.000	
└>	U 236	236	7513	0.385	0.000	
	U 236-IS	236	7513	0.385	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	21.333				ng/L
	U	234	34.667				ng/L
	U	235	804.369				ng/L
	U	238	145.001				ng/L
	U 232	232	295.338				ng/L
┌	U-tot	238	0.134				ng/L
|	U-238a	238	0.019				ng/L
|	U-235a	235	0.107				ng/L
└>	U 236	236	7512.770				ng/L
	U 236-IS	236	7512.770	**100.000**	0.39	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: S-1
Sample Date/Time: Tuesday, July 26, 2011 10:28:45
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\S-1.021
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	62.780	0.000	
	U	234	56	19.788	0.000	
	U	235	5664	1.740	0.000	
	U	238	626615	0.165	0.000	
	U 232	232	204	4.828	0.000	
┌	U-tot	238	632344	0.150	0.000	
|	U-238a	238	626615	0.165	0.000	
|	U-235a	235	5664	1.740	0.000	
└>	U 236	236	7828	1.170	0.000	
	U 236-IS	236	7828	1.170	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.333				ng/L
	U	234	55.667				ng/L
	U	235	5664.098				ng/L
	U	238	626614.767				ng/L
	U 232	232	204.336				ng/L
┌	U-tot	238	80.789	**44984.000**	474.58	1.1	ng/L
|	U-238a	238	80.057	**44572.000**	465.61	1.0	ng/L
|	U-235a	235	0.724	**319.000**	10.04	3.1	ng/L
└>	U 236	236	7827.702				ng/L
	U 236-IS	236	7827.702	**104.192**	1.22	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Tuesday, July 26, 2011 10:31:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icv.022
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	28.571	0.000	
	U	234	27	9.799	0.000	
	U	235	1608	4.077	0.000	
	U	238	109170	0.470	0.000	
	U 232	232	163	9.726	0.000	
┌	U-tot	238	110812	0.454	0.000	
|	U-238a	238	109170	0.470	0.000	
|	U-235a	235	1608	4.077	0.000	
└>	U 236	236	7685	0.293	0.000	
	U 236-IS	236	7685	0.293	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.000				ng/L
	U	234	27.000				ng/L
	U	235	1608.142				ng/L
	U	238	109169.924				ng/L
	U 232	232	163.335				ng/L
┌	U-tot	238	14.420	**7967.953**	56.40	0.7	ng/L
|	U-238a	238	14.207	**7900.653**	55.42	0.7	ng/L
|	U-235a	235	0.209	**52.872**	4.59	8.7	ng/L
└>	U 236	236	7684.580				ng/L
	U 236-IS	236	7684.580	**102.287**	0.30	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: icb

Sample Date/Time: Tuesday, July 26, 2011 10:33:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icb.023
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	11	59.539	0.000	
	U	234	18	14.699	0.000	
	U	235	839	3.677	0.000	
	U	238	136	7.950	0.000	
	U 232	232	130	8.204	0.000	
┌	U-tot	238	1004	2.229	0.000	
│	U-238a	238	136	7.950	0.000	
│	U-235a	235	839	3.677	0.000	
└>	U 236	236	7545	1.225	0.000	
	U 236-IS	236	7545	1.225	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	10.667				ng/L
	U	234	18.000				ng/L
	U	235	839.372				ng/L
	U	238	135.668				ng/L
	U 232	232	130.334				ng/L
┌	U-tot	238	0.133	**-0.424**	2.54	599.4	ng/L
│	U-238a	238	0.018	**-0.739**	0.67	90.7	ng/L
│	U-235a	235	0.111	**2.180**	2.80	128.4	ng/L
└>	U 236	236	7545.464				ng/L
	U 236-IS	236	7545.464	**100.435**	1.23	1.2	%R

010131

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 10:35:43
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.024
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	49.487	0.000	
	U	234	20	17.272	0.000	
	U	235	825	4.325	0.000	
	U	238	685	3.072	0.000	
	U 232	232	103	7.873	0.000	
┌	U-tot	238	1535	2.780	0.000	
|	U-238a	238	685	3.072	0.000	
|	U-235a	235	825	4.325	0.000	
└>	U 236	236	7560	1.213	0.000	
	U 236-IS	236	7560	1.213	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	20.333				ng/L
	U	235	825.037				ng/L
	U	238	684.692				ng/L
	U 232	232	102.667				ng/L
┌	U-tot	238	0.203	**38.622**	4.47	11.6	ng/L
|	U-238a	238	0.091	**39.703**	2.06	5.2	ng/L
|	U-235a	235	0.109	**1.084**	2.98	274.7	ng/L
└>	U 236	236	7560.143				ng/L
	U 236-IS	236	7560.143	**100.631**	1.22	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Tuesday, July 26, 2011 10:38:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.025
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	61.974	0.000	
	U	234	17	41.176	0.000	
	U	235	896	2.967	0.000	
	U	238	9918	1.026	0.000	
	U 232	232	90	10.058	0.000	
┌	U-tot	238	10837	0.748	0.000	
│	U-238a	238	9918	1.026	0.000	
│	U-235a	235	896	2.967	0.000	
└>	U 236	236	7574	0.371	0.000	
	U 236-IS	236	7574	0.371	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.667				ng/L
	U	234	17.000				ng/L
	U	235	895.711				ng/L
	U	238	9918.408				ng/L
	U 232	232	89.667				ng/L
┌	U-tot	238	1.431	**723.362**	8.74	1.2	ng/L
│	U-238a	238	1.310	**718.519**	9.74	1.4	ng/L
│	U-235a	235	0.118	**5.787**	1.81	31.2	ng/L
└>	U 236	236	7574.154				ng/L
	U 236-IS	236	7574.154	**100.817**	0.37	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: icsa

Sample Date/Time: Tuesday, July 26, 2011 10:40:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icsa.026
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	16.667	0.000	
	U	234	17	41.177	0.000	
	U	235	728	5.564	0.000	
	U	238	168	13.722	0.000	
	U 232	232	1424	13.834	0.000	
┌	U-tot	238	919	2.493	0.000	
|	U-238a	238	168	13.722	0.000	
|	U-235a	235	728	5.564	0.000	
└>	U 236	236	6443	1.453	0.000	
	U 236-IS	236	6443	1.453	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.000				ng/L
	U	234	17.000				ng/L
	U	235	728.363				ng/L
	U	238	167.668				ng/L
	U 232	232	1423.780				ng/L
┌	U-tot	238	0.143	**4.945**	3.07	62.1	ng/L
|	U-238a	238	0.026	**3.747**	2.03	54.1	ng/L
|	U-235a	235	0.113	**3.110**	3.70	118.9	ng/L
└>	U 236	236	6443.283				ng/L
	U 236-IS	236	6443.283	**85.764**	1.25	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Tuesday, July 26, 2011 10:42:43
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icsab.027
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	9	29.397	0.000	
U	234	35	20.862	0.000	
U	235	2600	1.540	0.000	
U	238	247367	1.069	0.000	
U 232	232	625	8.658	0.000	
U-tot	238	250011	1.047	0.000	
U-238a	238	247367	1.069	0.000	
U-235a	235	2600	1.540	0.000	
U 236	236	6774	1.687	0.000	
U 236-IS	236	6774	1.687	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	9.000				ng/L
U	234	35.333				ng/L
U	235	2599.705				ng/L
U	238	247366.534				ng/L
U 232	232	625.022				ng/L
U-tot	238	36.909	**20510.596**	131.84	0.6	ng/L
U-238a	238	36.519	**20325.886**	125.87	0.6	ng/L
U-235a	235	0.384	**143.193**	5.73	4.0	ng/L
U 236	236	6774.190				ng/L
U 236-IS	236	6774.190	**90.169**	1.52	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, July 26, 2011 10:45:02
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.028
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	37.796	0.000	
	U	234	21	11.175	0.000	
	U	235	874	1.714	0.000	
	U	238	169	14.780	0.000	
	U 232	232	38	11.763	0.000	
┌	U-tot	238	1071	2.461	0.000	
|	U-238a	238	169	14.780	0.000	
|	U-235a	235	874	1.714	0.000	
└>	U 236	236	8034	0.872	0.000	
	U 236-IS	236	8034	0.872	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.000				ng/L
	U	234	20.667				ng/L
	U	235	873.709				ng/L
	U	238	169.335				ng/L
	U 232	232	38.333				ng/L
┌	U-tot	238	0.133	**-0.290**	2.27	783.0	ng/L
|	U-238a	238	0.021	**0.991**	1.74	175.2	ng/L
|	U-235a	235	0.109	**0.880**	1.45	164.3	ng/L
└>	U 236	236	8033.548				ng/L
	U 236-IS	236	8033.548	**106.932**	0.93	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 10:47:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.029
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	33.333	0.000	
	U	234	25	40.608	0.000	
	U	235	1729	4.567	0.000	
	U	238	116805	0.582	0.000	
	U 232	232	30	23.914	0.000	
┌	U-tot	238	118568	0.594	0.000	
|	U-238a	238	116805	0.582	0.000	
|	U-235a	235	1729	4.567	0.000	
└>	U 236	236	8157	0.763	0.000	
	U 236-IS	236	8157	0.763	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.000				ng/L
	U	234	24.667				ng/L
	U	235	1728.831				ng/L
	U	238	116805.284				ng/L
	U 232	232	29.667				ng/L
┌	U-tot	238	14.537	**8032.835**	99.74	1.2	ng/L
|	U-238a	238	14.320	**7964.086**	94.56	1.2	ng/L
|	U-235a	235	0.212	**54.281**	5.86	10.8	ng/L
└>	U 236	236	8156.991				ng/L
	U 236-IS	236	8156.991	**108.575**	0.83	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Tuesday, July 26, 2011 10:49:40
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.030
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	17	32.805	0.000	
	U	234	27	4.225	0.000	
	U	235	828	3.408	0.000	
	U	238	155	5.226	0.000	
	U 232	232	36	10.615	0.000	
┌	U-tot	238	1027	4.042	0.000	
|	U-238a	238	155	5.226	0.000	
|	U-235a	235	828	3.408	0.000	
└>	U 236	236	8020	0.526	0.000	
	U 236-IS	236	8020	0.526	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	17.333				ng/L
	U	234	27.333				ng/L
	U	235	828.038				ng/L
	U	238	154.668				ng/L
	U 232	232	35.667				ng/L
┌	U-tot	238	0.128	**-3.187**	2.90	91.0	ng/L
|	U-238a	238	0.019	**-0.006**	0.59	10192.0	ng/L
|	U-235a	235	0.103	**-1.978**	1.81	91.3	ng/L
└>	U 236	236	8019.869				ng/L
	U 236-IS	236	8019.869	**106.750**	0.56	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: 469499d2

Sample Date/Time: Tuesday, July 26, 2011 10:52:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469499d2.031
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	19	18.977	0.000	
	U	234	47	1.237	0.000	
	U	235	2162	3.219	0.000	
	U	238	58707	0.798	0.000	
	U 232	232	147	16.084	0.000	
┌	U-tot	238	60935	0.665	0.000	
│	U-238a	238	58707	0.798	0.000	
│	U-235a	235	2162	3.219	0.000	
└>	U 236	236	7434	0.670	0.000	
	U 236-IS	236	7434	0.670	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	19.000				ng/L
	U	234	46.667				ng/L
	U	235	2161.924				ng/L
	U	238	58707.291				ng/L
	U 232	232	147.001				ng/L
┌	U-tot	238	8.197	**4497.198**	60.73	1.4	ng/L
│	U-238a	238	7.898	**4387.311**	64.32	1.5	ng/L
│	U-235a	235	0.291	**95.035**	3.90	4.1	ng/L
└>	U 236	236	7434.038				ng/L
	U 236-IS	236	7434.038	**98.952**	0.66	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 469499d2D

Sample Date/Time: Tuesday, July 26, 2011 10:54:32
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469499d2D.032
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	16	22.535	0.000	
U	234	41	24.875	0.000	
U	235	2071	4.636	0.000	
U	238	57171	0.209	0.000	
U 232	232	177	5.240	0.000	
U-tot	238	59298	0.084	0.000	
U-238a	238	57171	0.209	0.000	
U-235a	235	2071	4.636	0.000	
U 236	236	7152	1.097	0.000	
U 236-IS	236	7152	1.097	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	16.000				ng/L
U	234	40.667				ng/L
U	235	2071.236				ng/L
U	238	57170.536				ng/L
U 232	232	177.335				ng/L
U-tot	238	8.292	**4549.842**	46.99	1.0	ng/L
U-238a	238	7.994	**4441.004**	42.00	0.9	ng/L
U-235a	235	0.290	**94.455**	7.76	8.2	ng/L
U 236	236	7152.146				ng/L
U 236-IS	236	7152.146	**95.200**	1.04	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d2

Sample Date/Time: Tuesday, July 26, 2011 10:56:51
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469500d2.033
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	22	21.160	0.000	
	U	234	39	18.490	0.000	
	U	235	1372	2.863	0.000	
	U	238	35488	0.456	0.000	
	U 232	232	541	7.321	0.000	
⌈	U-tot	238	36922	0.553	0.000	
|	U-238a	238	35488	0.456	0.000	
|	U-235a	235	1372	2.863	0.000	
└>	U 236	236	6689	0.855	0.000	
	U 236-IS	236	6689	0.855	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	22.333				ng/L
	U	234	39.000				ng/L
	U	235	1372.104				ng/L
	U	238	35488.133				ng/L
	U 232	232	541.350				ng/L
⌈	U-tot	238	5.520	**3003.956**	27.60	0.9	ng/L
|	U-238a	238	5.306	**2943.841**	25.02	0.8	ng/L
|	U-235a	235	0.205	**50.726**	3.06	6.0	ng/L
└>	U 236	236	6689.127				ng/L
	U 236-IS	236	6689.127	**89.037**	0.76	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d2D

Sample Date/Time: Tuesday, July 26, 2011 10:59:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469500d2D.034
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	14	29.572	0.000	
	U	234	37	4.166	0.000	
	U	235	1432	3.248	0.000	
	U	238	37122	0.126	0.000	
	U 232	232	735	7.351	0.000	
┌	U-tot	238	38604	0.198	0.000	
|	U-238a	238	37122	0.126	0.000	
|	U-235a	235	1432	3.248	0.000	
└>	U 236	236	6921	0.184	0.000	
	U 236-IS	236	6921	0.184	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	13.667				ng/L
	U	234	36.667				ng/L
	U	235	1431.779				ng/L
	U	238	37121.637				ng/L
	U 232	232	735.030				ng/L
┌	U-tot	238	5.578	**3036.131**	11.82	0.4	ng/L
|	U-238a	238	5.363	**2976.054**	8.97	0.3	ng/L
|	U-235a	235	0.207	**51.627**	3.61	7.0	ng/L
└>	U 236	236	6921.300				ng/L
	U 236-IS	236	6921.300	**92.127**	0.17	0.2	%R

Quantitative Analysis - Summary Report

Sample ID: 469501d2

Sample Date/Time: Tuesday, July 26, 2011 11:01:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469501d2.035
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	23	13.777	0.000	
	U	234	41	17.073	0.000	
	U	235	1997	1.403	0.000	
	U	238	55091	0.224	0.000	
	U 232	232	222	12.245	0.000	
⌈	U-tot	238	57152	0.157	0.000	
|	U-238a	238	55091	0.224	0.000	
|	U-235a	235	1997	1.403	0.000	
↳	U 236	236	7042	1.434	0.000	
	U 236-IS	236	7042	1.434	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	23.333				ng/L
	U	234	41.000				ng/L
	U	235	1996.553				ng/L
	U	238	55091.090				ng/L
	U 232	232	222.003				ng/L
⌈	U-tot	238	8.117	**4452.402**	64.73	1.5	ng/L
|	U-238a	238	7.824	**4346.446**	63.57	1.5	ng/L
|	U-235a	235	0.284	**91.294**	2.69	2.9	ng/L
↳	U 236	236	7042.060				ng/L
	U 236-IS	236	7042.060	**93.735**	1.34	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: 469501d2D

Sample Date/Time: Tuesday, July 26, 2011 11:03:51
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469501d2D.036
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	12	68.959	0.000	
U	234	29	34.942	0.000	
U	235	1905	3.488	0.000	
U	238	54921	0.259	0.000	
U 232	232	216	8.299	0.000	
U-tot	238	56867	0.154	0.000	
U-238a	238	54921	0.259	0.000	
U-235a	235	1905	3.488	0.000	
U 236	236	6887	1.234	0.000	
U 236-IS	236	6887	1.234	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	12.333				ng/L
U	234	28.667				ng/L
U	235	1904.533				ng/L
U	238	54921.401				ng/L
U 232	232	216.336				ng/L
U-tot	238	8.258	**4531.102**	54.81	1.2	ng/L
U-238a	238	7.975	**4430.646**	48.85	1.1	ng/L
U-235a	235	0.277	**87.723**	6.76	7.7	ng/L
U 236	236	6886.941				ng/L
U 236-IS	236	6886.941	**91.670**	1.13	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: 469506d2

Sample Date/Time: Tuesday, July 26, 2011 11:06:13
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469506d2.037
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	69.282	0.000	
	U	234	22		0.000	
	U	235	1907	0.476	0.000	
	U	238	53655	0.830	0.000	
	U 232	232	162	19.801	0.000	
┌	U-tot	238	55588	0.784	0.000	
|	U-238a	238	53655	0.830	0.000	
|	U-235a	235	1907	0.476	0.000	
└>	U 236	236	6735	0.905	0.000	
	U 236-IS	236	6735	0.905	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.000				ng/L
	U	234	22.000				ng/L
	U	235	1906.867				ng/L
	U	238	53654.543				ng/L
	U 232	232	162.001				ng/L
┌	U-tot	238	8.253	**4528.572**	53.15	1.2	ng/L
|	U-238a	238	7.966	**4425.586**	52.04	1.2	ng/L
|	U-235a	235	0.283	**91.075**	1.86	2.0	ng/L
└>	U 236	236	6735.494				ng/L
	U 236-IS	236	6735.494	**89.654**	0.81	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, July 26, 2011 11:08:33
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.038
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	22.913	0.000	
	U	234	21	11.175	0.000	
	U	235	730	2.931	0.000	
	U	238	187	7.365	0.000	
	U 232	232	29	25.587	0.000	
┌	U-tot	238	944	0.583	0.000	
|	U-238a	238	187	7.365	0.000	
|	U-235a	235	730	2.931	0.000	
└>	U 236	236	6894	1.161	0.000	
	U 236-IS	236	6894	1.161	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.667				ng/L
	U	234	20.667				ng/L
	U	235	729.696				ng/L
	U	238	187.335				ng/L
	U 232	232	29.333				ng/L
┌	U-tot	238	0.137	**1.766**	0.52	29.3	ng/L
|	U-238a	238	0.027	**4.393**	1.26	28.7	ng/L
|	U-235a	235	0.106	**-0.642**	1.13	176.6	ng/L
└>	U 236	236	6894.280				ng/L
	U 236-IS	236	6894.280	**91.767**	1.07	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 11:10:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.039
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	9	26.964	0.000	
U	234	21	23.810	0.000	
U	235	731	4.063	0.000	
U	238	629	5.169	0.000	
U 232	232	22	16.209	0.000	
U-tot	238	1390	3.778	0.000	
U-238a	238	629	5.169	0.000	
U-235a	235	731	4.063	0.000	
U 236	236	6707	1.616	0.000	
U 236-IS	236	6707	1.616	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	9.333				ng/L
U	234	21.000				ng/L
U	235	730.696				ng/L
U	238	629.022				ng/L
U 232	232	21.667				ng/L
U-tot	238	0.207	**40.931**	2.72	6.6	ng/L
U-238a	238	0.094	**41.462**	1.91	4.6	ng/L
U-235a	235	0.109	**0.968**	2.14	221.2	ng/L
U 236	236	6707.140				ng/L
U 236-IS	236	6707.140	**89.277**	1.44	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Tuesday, July 26, 2011 11:13:15
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.040
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	70.501	0.000	
	U	234	21	25.198	0.000	
	U	235	787	4.591	0.000	
	U	238	9016	0.722	0.000	
	U 232	232	15	17.638	0.000	
⌈	U-tot	238	9828	0.988	0.000	
|	U-238a	238	9016	0.722	0.000	
|	U-235a	235	787	4.591	0.000	
L>	U 236	236	6728	1.543	0.000	
	U 236-IS	236	6728	1.543	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.333				ng/L
	U	234	21.000				ng/L
	U	235	786.701				ng/L
	U	238	9016.136				ng/L
	U 232	232	15.000				ng/L
⌈	U-tot	238	1.461	**740.191**	10.17	1.4	ng/L
|	U-238a	238	1.340	**735.643**	10.27	1.4	ng/L
|	U-235a	235	0.117	**5.089**	2.17	42.6	ng/L
L>	U 236	236	6727.822				ng/L
	U 236-IS	236	6727.822	**89.552**	1.38	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 11:15:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.041
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	32.733	0.000	
	U	234	17	23.316	0.000	
	U	235	1502	0.684	0.000	
	U	238	98183	0.172	0.000	
	U 232	232	19	28.487	0.000	
┌	U-tot	238	99707	0.160	0.000	
|	U-238a	238	98183	0.172	0.000	
|	U-235a	235	1502	0.684	0.000	
L>	U 236	236	6747	1.188	0.000	
	U 236-IS	236	6747	1.188	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	17.333				ng/L
	U	235	1501.791				ng/L
	U	238	98183.015				ng/L
	U 232	232	19.333				ng/L
┌	U-tot	238	14.780	**8168.746**	86.06	1.1	ng/L
|	U-238a	238	14.554	**8094.353**	83.83	1.0	ng/L
|	U-235a	235	0.223	**59.780**	1.96	3.3	ng/L
L>	U 236	236	6746.503				ng/L
	U 236-IS	236	6746.503	**89.800**	1.07	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Tuesday, July 26, 2011 11:17:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.042
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	14	56.695	0.000	
U	234	20	27.839	0.000	
U	235	718	5.926	0.000	
U	238	134	12.330	0.000	
U 232	232	18	13.727	0.000	
┌ U-tot	238	886	1.989	0.000	
│ U-238a	238	134	12.330	0.000	
│ U-235a	235	718	5.926	0.000	
└> U 236	236	6693	0.980	0.000	
U 236-IS	236	6693	0.980	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	14.000				ng/L
U	234	20.000				ng/L
U	235	717.695				ng/L
U	238	134.001				ng/L
U 232	232	18.333				ng/L
┌ U-tot	238	0.132	**-0.832**	1.16	139.0	ng/L
│ U-238a	238	0.020	**0.412**	1.48	358.2	ng/L
│ U-235a	235	0.107	**0.064**	2.75	4299.6	ng/L
└> U 236	236	6693.130				ng/L
U 236-IS	236	6693.130	**89.090**	0.87	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 469506d2D

Sample Date/Time: Tuesday, July 26, 2011 11:20:13
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469506d2D.043
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	8	18.330	0.000	
	U	234	31	11.452	0.000	
	U	235	1829	3.707	0.000	
	U	238	50748	0.327	0.000	
	U 232	232	138	35.195	0.000	
┌	U-tot	238	52616	0.244	0.000	
|	U-238a	238	50748	0.327	0.000	
|	U-235a	235	1829	3.707	0.000	
└>	U 236	236	6499	2.174	0.000	
	U 236-IS	236	6499	2.174	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	8.333				ng/L
	U	234	30.667				ng/L
	U	235	1829.184				ng/L
	U	238	50747.918				ng/L
	U 232	232	138.334				ng/L
┌	U-tot	238	8.099	**4442.542**	106.70	2.4	ng/L
|	U-238a	238	7.812	**4339.435**	102.47	2.4	ng/L
|	U-235a	235	0.282	**90.274**	6.67	7.4	ng/L
└>	U 236	236	6498.656				ng/L
	U 236-IS	236	6498.656	**86.501**	1.88	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd4
Sample Date/Time: Tuesday, July 26, 2011 11:22:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Blankd4.044
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	59.010	0.000	
	U	234	29	36.001	0.000	
	U	235	1991	2.965	0.000	
	U	238	52442	0.402	0.000	
	U 232	232	43	22.276	0.000	
┌	U-tot	238	54471	0.451	0.000	
|	U-238a	238	52442	0.402	0.000	
|	U-235a	235	1991	2.965	0.000	
└>	U 236	236	6421	0.518	0.000	
	U 236-IS	236	6421	0.518	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.333				ng/L
	U	234	29.000				ng/L
	U	235	1990.885				ng/L
	U	238	52441.825				ng/L
	U 232	232	42.667				ng/L
┌	U-tot	238	8.484	**4657.042**	9.48	0.2	ng/L
|	U-238a	238	8.168	**4537.772**	11.99	0.3	ng/L
|	U-235a	235	0.310	**105.004**	4.00	3.8	ng/L
└>	U 236	236	6420.600				ng/L
	U 236-IS	236	6420.600	**85.462**	0.44	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d4

Sample Date/Time: Tuesday, July 26, 2011 11:24:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d4.045
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	12.372	0.000	
	U	234	24	11.024	0.000	
	U	235	1814	3.405	0.000	
	U	238	51742	0.194	0.000	
	U 232	232	525	5.638	0.000	
┌	U-tot	238	53585	0.298	0.000	
│	U-238a	238	51742	0.194	0.000	
│	U-235a	235	1814	3.405	0.000	
└>	U 236	236	6433	0.935	0.000	
	U 236-IS	236	6433	0.935	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	24.000				ng/L
	U	235	1813.848				ng/L
	U	238	51742.500				ng/L
	U 232	232	525.015				ng/L
┌	U-tot	238	8.330	**4571.148**	43.82	1.0	ng/L
│	U-238a	238	8.043	**4468.497**	40.94	0.9	ng/L
│	U-235a	235	0.282	**90.473**	5.20	5.8	ng/L
└>	U 236	236	6433.276				ng/L
	U 236-IS	236	6433.276	**85.631**	0.80	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d4D

Sample Date/Time: Tuesday, July 26, 2011 11:27:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d4D.046
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	16.667	0.000	
	U	234	22	18.653	0.000	
	U	235	1833	1.947	0.000	
	U	238	52620	0.172	0.000	
	U 232	232	88	4.749	0.000	
┌	U-tot	238	54481	0.097	0.000	
│	U-238a	238	52620	0.172	0.000	
│	U-235a	235	1833	1.947	0.000	
└>	U 236	236	6318	0.527	0.000	
	U 236-IS	236	6318	0.527	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.000				ng/L
	U	234	21.667				ng/L
	U	235	1833.185				ng/L
	U	238	52619.847				ng/L
	U 232	232	87.667				ng/L
┌	U-tot	238	8.624	**4735.177**	28.77	0.6	ng/L
│	U-238a	238	8.329	**4627.748**	29.35	0.6	ng/L
│	U-235a	235	0.290	**94.720**	2.86	3.0	ng/L
└>	U 236	236	6317.528				ng/L
	U 236-IS	236	6317.528	**84.091**	0.44	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d4L df5

Sample Date/Time: Tuesday, July 26, 2011 11:29:43
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d4L df5.047
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	88.192	0.000	
	U	234	17	29.605	0.000	
	U	235	969	1.601	0.000	
	U	238	11131	1.206	0.000	
	U 232	232	128	5.123	0.000	
┌	U-tot	238	12121	1.013	0.000	
│	U-238a	238	11131	1.206	0.000	
│	U-235a	235	969	1.601	0.000	
└>	U 236	236	6922	1.691	0.000	
	U 236-IS	236	6922	1.691	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.000				ng/L
	U	234	17.333				ng/L
	U	235	968.718				ng/L
	U	238	11131.478				ng/L
	U 232	232	128.001				ng/L
┌	U-tot	238	1.751	**902.153**	15.67	1.7	ng/L
│	U-238a	238	1.608	**884.983**	16.15	1.8	ng/L
│	U-235a	235	0.140	**17.015**	0.87	5.1	ng/L
└>	U 236	236	6921.634				ng/L
	U 236-IS	236	6921.634	**92.132**	1.56	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d4AS

Sample Date/Time: Tuesday, July 26, 2011 11:32:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d4AS.048
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20uL 1° natural uranium
at df 100 (075-Rad-5012, 11-064-06)
in 10mL

Utot
TV= 20462 ng/L

U238
TV- 20316 ng/L

U235
TV= 145 ng/L

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	40.754	0.000	
	U	234	38	18.977	0.000	
	U	235	3662	2.089	0.000	
	U	238	294652	0.398	0.000	
	U 232	232	539	1.033	0.000	
┌	U-tot	238	298358	0.366	0.000	
│	U-238a	238	294652	0.398	0.000	
│	U-235a	235	3662	2.089	0.000	
└>	U 236	236	6504	1.250	0.000	
	U 236-IS	236	6504	1.250	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.667				ng/L
	U	234	38.000				ng/L
	U	235	3662.071				ng/L
	U	238	294651.986				ng/L
	U 232	232	539.016				ng/L
┌	U-tot	238	45.878	**25513.082**	369.54	1.4	ng/L
│	U-238a	238	45.309	**25220.911**	368.62	1.5	ng/L
│	U-235a	235	0.563	**235.899**	6.32	2.7	ng/L
└>	U 236	236	6503.993				ng/L
	U 236-IS	236	6503.993	**86.573**	1.08	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, July 26, 2011 11:34:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.049
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	13.323	0.000	
	U	234	17	32.805	0.000	
	U	235	712	4.102	0.000	
	U	238	219	5.532	0.000	
	U 232	232	23	15.676	0.000	
┌	U-tot	238	957	4.885	0.000	
│	U-238a	238	219	5.532	0.000	
│	U-235a	235	712	4.102	0.000	
└>	U 236	236	6687	0.571	0.000	
	U 236-IS	236	6687	0.571	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	8.667				ng/L
	U	234	17.333				ng/L
	U	235	712.028				ng/L
	U	238	218.669				ng/L
	U 232	232	23.000				ng/L
┌	U-tot	238	0.143	**5.146**	3.53	68.5	ng/L
│	U-238a	238	0.033	**7.461**	0.93	12.4	ng/L
│	U-235a	235	0.106	**-0.314**	1.98	631.3	ng/L
└>	U 236	236	6687.125				ng/L
	U 236-IS	236	6687.125	**89.010**	0.51	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 11:36:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.050
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	32	38.670	0.000	
	U	234	43	26.208	0.000	
	U	235	768	4.634	0.000	
	U	238	664	1.677	0.000	
	U 232	232	36	11.673	0.000	
┌	U-tot	238	1507	3.965	0.000	
│	U-238a	238	664	1.677	0.000	
│	U-235a	235	768	4.634	0.000	
└>	U 236	236	6669	1.272	0.000	
	U 236-IS	236	6669	1.272	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	32.333				ng/L
	U	234	43.000				ng/L
	U	235	767.699				ng/L
	U	238	664.024				ng/L
	U 232	232	35.667				ng/L
┌	U-tot	238	0.226	**51.453**	6.35	12.3	ng/L
│	U-238a	238	0.100	**44.717**	1.62	3.6	ng/L
│	U-235a	235	0.115	**4.192**	3.49	83.3	ng/L
└>	U 236	236	6668.779				ng/L
	U 236-IS	236	6668.779	**88.766**	1.13	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Tuesday, July 26, 2011 11:39:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.051
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	16	39.031	0.000	
	U	234	30	31.798	0.000	
	U	235	778	5.772	0.000	
	U	238	8807	1.489	0.000	
	U 232	232	19	6.186	0.000	
┌	U-tot	238	9631	1.136	0.000	
│	U-238a	238	8807	1.489	0.000	
│	U-235a	235	778	5.772	0.000	
└>	U 236	236	6538	0.876	0.000	
	U 236-IS	236	6538	0.876	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	16.000				ng/L
	U	234	30.000				ng/L
	U	235	777.700				ng/L
	U	238	8807.265				ng/L
	U 232	232	18.667				ng/L
┌	U-tot	238	1.473	**746.999**	13.49	1.8	ng/L
│	U-238a	238	1.347	**739.496**	15.63	2.1	ng/L
│	U-235a	235	0.119	**6.129**	3.09	50.4	ng/L
└>	U 236	236	6538.017				ng/L
	U 236-IS	236	6538.017	**87.025**	0.76	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 11:41:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.052
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	17.321	0.000	
	U	234	31	14.783	0.000	
	U	235	1431	3.049	0.000	
	U	238	95798	0.281	0.000	
	U 232	232	24	16.667	0.000	
┌	U-tot	238	97270	0.303	0.000	
│	U-238a	238	95798	0.281	0.000	
│	U-235a	235	1431	3.049	0.000	
└>	U 236	236	6507	0.906	0.000	
	U 236-IS	236	6507	0.906	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	10.000				ng/L
	U	234	31.000				ng/L
	U	235	1430.779				ng/L
	U	238	95798.444				ng/L
	U 232	232	24.000				ng/L
┌	U-tot	238	14.948	**8262.502**	52.23	0.6	ng/L
│	U-238a	238	14.722	**8187.814**	52.04	0.6	ng/L
│	U-235a	235	0.220	**58.348**	3.05	5.2	ng/L
└>	U 236	236	6507.328				ng/L
	U 236-IS	236	6507.328	**86.617**	0.78	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Tuesday, July 26, 2011 11:43:43
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.053
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	11	15.746	0.000	
	U	234	21	21.822	0.000	
	U	235	721	4.536	0.000	
	U	238	121	14.519	0.000	
	U 232	232	18	8.332	0.000	
┌	U-tot	238	875	5.566	0.000	
|	U-238a	238	121	14.519	0.000	
|	U-235a	235	721	4.536	0.000	
└>	U 236	236	6485	0.735	0.000	
	U 236-IS	236	6485	0.735	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	11.000				ng/L
	U	234	21.000				ng/L
	U	235	721.362				ng/L
	U	238	121.334				ng/L
	U 232	232	18.333				ng/L
┌	U-tot	238	0.135	**0.570**	3.65	639.7	ng/L
|	U-238a	238	0.019	**-0.335**	1.44	431.3	ng/L
|	U-235a	235	0.111	**2.142**	2.24	104.4	ng/L
└>	U 236	236	6485.313				ng/L
	U 236-IS	236	6485.313	**86.324**	0.63	0.7	%R

SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 5/Feb 10

☒ 6020 TAP No. 01-0406-046 Rev14/Jan 11

☐ TAP No. 01-0406-148 Rev0/Apr07

☐ Other____________________

ANALYSIS

tot U

IDL Date: 5/10/2011

ICP-MS CALIB. STD. ID's		**TVs**
		tot U / U238/U235
S0	11-081-05	
STD. 1	11-064-02	44984/44572/319ppt
I. STD	11-064-09	0.5ppb
I. STD		

QC STD. ID's		
ICV/CCV	11-080-08	7666/7612/54.5ppt
UCL		
CRI	11-080-04/05	40/39.7/4.95ppt
ICSA	11-064-04	
ICSAB	11-078-01	30444/30296/145ppt

STD's IV, CCS 1-6 Expires 10-1-11
STD's Spex, ME 1-4 Expires 9-15-11

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526.05.00	Fluor	110614-8	7/26/11	SO	WC 15 0082 - 15 0086

INSTRUMENT: DRC II FILENAME: 110726a.rep

Analyst: N. Seiler Date: 7 / 26 / 11 ☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Tuesday, July 26, 2011 10:18:26
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Daily Performance Check.019
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Nicholle Seiler
7/26/11

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	5925.1	5925.130	68.600	1.2
	In	114.9	19187.4	19187.363	228.670	1.2
	U	238.1	14618.1	14618.144	145.523	1.0
[>	Ce	139.9	21118.2	21118.237	258.841	1.2
[	CeO	155.9	963.6	0.046	0.001	2.5
[>	Ba	137.9	176939.6	176939.560	1931.322	1.1
[	Ba++	69.0	4700.1	0.027	0.000	1.0
	Bkgd	220.0	3.6	3.633	1.063	29.3
	Bkgd	8.5	1.2	1.233	0.641	52.0

Current Optimization File Data

Current Value	Description
1.02	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
8.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

9/23/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	6.3	563.0
Co	59	45	7.3	10734.3
In	115	45	8.5	21071.4

010163

Instrument Mass Calibration Report

File Name:	Default.tun
File Path:	C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check

Sample Acquistion Date/Time: Tuesday, July 26, 2011 10:18:26
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Daily Performance Check.019
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Nicholle Seiler
7/26/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2750	2062	0.699	
Mg	23.985	23.975	5673	2074	0.683	
Ar2	75.930	75.925	18309	2097	0.710	
In	114.904	114.925	27798	2129	0.694	
Ce	139.905	139.925	33881	2145	0.686	
Pb	207.977	207.975	50477	2185	0.708	
Th	232.038	232.025	56336	2208	0.683	
U	238.050	238.075	57806	2221	0.693	

Report Date/Time: Tuesday, July 26, 2011 10:23:22

Quantitative Analysis - Summary Report

Sample ID: S-0

Sample Date/Time: Tuesday, July 26, 2011 14:39:44
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\S-0.109
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	8	86.848	0.000	
U	234	14	14.286	0.000	
U	235	687	2.511	0.000	
U	238	115	5.936	0.000	
U 232	232	10	11.945	0.000	
U-tot	238	823	2.277	0.000	
U-238a	238	115	5.936	0.000	
U-235a	235	687	2.511	0.000	
U 236	236	6035	1.007	0.000	
U 236-IS	236	6035	1.007	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	7.667				ng/L
U	234	14.000				ng/L
U	235	686.693				ng/L
U	238	114.667				ng/L
U 232	232	9.667				ng/L
U-tot	238	0.136				ng/L
U-238a	238	0.019				ng/L
U-235a	235	0.114				ng/L
U 236	236	6035.336				ng/L
U 236-IS	236	6035.336	**100.000**	1.01	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: S-1
Sample Date/Time: Tuesday, July 26, 2011 14:42:02
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\S-1.110
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	48.888	0.000	
	U	234	49	12.745	0.000	
	U	235	4602	0.661	0.000	
	U	238	512343	0.721	0.000	
	U 232	232	10	11.945	0.000	
┌	U-tot	238	517004	0.708	0.000	
|	U-238a	238	512343	0.721	0.000	
|	U-235a	235	4602	0.661	0.000	
└>	U 236	236	6134	0.897	0.000	
	U 236-IS	236	6134	0.897	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.667				ng/L
	U	234	49.000				ng/L
	U	235	4602.165				ng/L
	U	238	512343.383				ng/L
	U 232	232	9.667				ng/L
┌	U-tot	238	84.287	**44984.000**	420.31	0.9	ng/L
|	U-238a	238	83.527	**44572.000**	419.71	0.9	ng/L
|	U-235a	235	0.750	**319.000**	3.98	1.2	ng/L
└>	U 236	236	6134.069				ng/L
	U 236-IS	236	6134.069	**101.636**	0.91	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Tuesday, July 26, 2011 14:44:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icv.111
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	50.918	0.000	
	U	234	23	13.043	0.000	
	U	235	1345	3.762	0.000	
	U	238	89168	0.006	0.000	
	U 232	232	9	26.964	0.000	
┌	U-tot	238	90545	0.049	0.000	
│	U-238a	238	89168	0.006	0.000	
│	U-235a	235	1345	3.762	0.000	
└>	U 236	236	5981	2.409	0.000	
	U 236-IS	236	5981	2.409	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.000				ng/L
	U	234	23.000				ng/L
	U	235	1344.766				ng/L
	U	238	89168.169				ng/L
	U 232	232	9.333				ng/L
┌	U-tot	238	15.146	**8023.349**	195.47	2.4	ng/L
│	U-238a	238	14.915	**7950.783**	193.46	2.4	ng/L
│	U-235a	235	0.225	**55.686**	4.46	8.0	ng/L
└>	U 236	236	5980.634				ng/L
	U 236-IS	236	5980.634	**99.094**	2.39	2.4	%R

Quantitative Analysis - Summary Report

010167

Sample ID: icb

Sample Date/Time: Tuesday, July 26, 2011 14:46:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icb.112
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	17.321	0.000	
	U	234	18	24.596	0.000	
	U	235	666	3.220	0.000	
	U	238	126	1.838	0.000	
	U 232	232	9	13.323	0.000	
┌	U-tot	238	817	1.924	0.000	
│	U-238a	238	126	1.838	0.000	
│	U-235a	235	666	3.220	0.000	
└>	U 236	236	5977	1.777	0.000	
	U 236-IS	236	5977	1.777	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.667				ng/L
	U	234	18.333				ng/L
	U	235	666.358				ng/L
	U	238	125.668				ng/L
	U 232	232	8.667				ng/L
┌	U-tot	238	0.137	**0.181**	1.81	997.8	ng/L
│	U-238a	238	0.021	**1.081**	0.25	23.1	ng/L
│	U-235a	235	0.112	**-1.140**	2.19	191.7	ng/L
└>	U 236	236	5976.631				ng/L
	U 236-IS	236	5976.631	**99.027**	1.76	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 14:48:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.113
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	11	48.596	0.000	
	U	234	18	13.072	0.000	
	U	235	685	1.258	0.000	
	U	238	559	3.399	0.000	
	U 232	232	7	31.225	0.000	
┌	U-tot	238	1273	2.048	0.000	
|	U-238a	238	559	3.399	0.000	
|	U-235a	235	685	1.258	0.000	
└>	U 236	236	5886	0.601	0.000	
	U 236-IS	236	5886	0.601	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	11.333				ng/L
	U	234	17.667				ng/L
	U	235	685.359				ng/L
	U	238	559.017				ng/L
	U 232	232	6.667				ng/L
┌	U-tot	238	0.216	**42.742**	2.82	6.6	ng/L
|	U-238a	238	0.095	**40.552**	1.94	4.8	ng/L
|	U-235a	235	0.116	**1.321**	0.73	55.4	ng/L
└>	U 236	236	5886.238				ng/L
	U 236-IS	236	5886.238	**97.530**	0.59	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Tuesday, July 26, 2011 14:51:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.114
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	15	20.830	0.000	
	U	234	20	38.201	0.000	
	U	235	737	6.111	0.000	
	U	238	8048	0.168	0.000	
	U 232	232	9	34.442	0.000	
┌	U-tot	238	8820	0.644	0.000	
│	U-238a	238	8048	0.168	0.000	
│	U-235a	235	737	6.111	0.000	
└>	U 236	236	5894	1.179	0.000	
	U 236-IS	236	5894	1.179	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	14.667				ng/L
	U	234	20.333				ng/L
	U	235	737.363				ng/L
	U	238	8047.560				ng/L
	U 232	232	9.333				ng/L
┌	U-tot	238	1.497	**727.195**	14.45	2.0	ng/L
│	U-238a	238	1.366	**718.745**	9.48	1.3	ng/L
│	U-235a	235	0.125	**5.704**	4.52	79.3	ng/L
└>	U 236	236	5893.577				ng/L
	U 236-IS	236	5893.577	**97.651**	1.15	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: icsa

Sample Date/Time: Tuesday, July 26, 2011 14:53:40
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icsa.115
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	13	35.599	0.000	
	U	234	20	13.229	0.000	
	U	235	574	6.014	0.000	
	U	238	152	5.138	0.000	
	U 232	232	173	3.516	0.000	
┌	U-tot	238	758	5.179	0.000	
|	U-238a	238	152	5.138	0.000	
|	U-235a	235	574	6.014	0.000	
└>	U 236	236	4883	1.134	0.000	
	U 236-IS	236	4883	1.134	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	12.667				ng/L
	U	234	20.000				ng/L
	U	235	573.685				ng/L
	U	238	152.001				ng/L
	U 232	232	173.002				ng/L
┌	U-tot	238	0.155	**10.087**	3.39	33.6	ng/L
|	U-238a	238	0.031	**6.467**	0.70	10.8	ng/L
|	U-235a	235	0.117	**1.826**	2.88	157.7	ng/L
└>	U 236	236	4882.978				ng/L
	U 236-IS	236	4882.978	**80.906**	0.92	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Tuesday, July 26, 2011 14:55:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icsab.116
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	23.890	0.000	
	U	234	29	20.440	0.000	
	U	235	2048	1.811	0.000	
	U	238	194727	0.862	0.000	
	U 232	232	150	3.528	0.000	
⌈	U-tot	238	196813	0.869	0.000	
|	U-238a	238	194727	0.862	0.000	
|	U-235a	235	2048	1.811	0.000	
L>	U 236	236	5041	0.998	0.000	
	U 236-IS	236	5041	0.998	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.667				ng/L
	U	234	28.667				ng/L
	U	235	2047.897				ng/L
	U	238	194726.854				ng/L
	U 232	232	150.001				ng/L
⌈	U-tot	238	39.040	**20796.306**	43.43	0.2	ng/L
|	U-238a	238	38.626	**20606.155**	43.16	0.2	ng/L
|	U-235a	235	0.406	**146.542**	1.74	1.2	ng/L
L>	U 236	236	5041.398				ng/L
	U 236-IS	236	5041.398	**83.531**	0.83	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, July 26, 2011 14:58:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.117
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	11	26.956	0.000	
	U	234	20	27.086	0.000	
	U	235	671	1.867	0.000	
	U	238	141	4.285	0.000	
	U 232	232	9	29.397	0.000	
┌	U-tot	238	843	1.511	0.000	
|	U-238a	238	141	4.285	0.000	
|	U-235a	235	671	1.867	0.000	
└>	U 236	236	6189	1.741	0.000	
	U 236-IS	236	6189	1.741	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	11.333				ng/L
	U	234	20.333				ng/L
	U	235	671.025				ng/L
	U	238	140.668				ng/L
	U 232	232	9.000				ng/L
┌	U-tot	238	0.136	**-0.049**	1.61	3296.2	ng/L
|	U-238a	238	0.023	**1.985**	0.32	16.0	ng/L
|	U-235a	235	0.108	**-2.678**	1.57	58.6	ng/L
└>	U 236	236	6188.773				ng/L
	U 236-IS	236	6188.773	**102.542**	1.79	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 15:00:36
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.118
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	22.304	0.000	
	U	234	21	35.667	0.000	
	U	235	1378	0.716	0.000	
	U	238	93633	0.216	0.000	
	U 232	232	10	33.254	0.000	
┌	U-tot	238	95041	0.215	0.000	
│	U-238a	238	93633	0.216	0.000	
│	U-235a	235	1378	0.716	0.000	
└>	U 236	236	6164	1.126	0.000	
	U 236-IS	236	6164	1.126	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.333				ng/L
	U	234	20.667				ng/L
	U	235	1377.771				ng/L
	U	238	93633.058				ng/L
	U 232	232	9.667				ng/L
┌	U-tot	238	15.420	**8169.882**	87.44	1.1	ng/L
│	U-238a	238	15.191	**8098.079**	85.63	1.1	ng/L
│	U-235a	235	0.224	**55.003**	2.07	3.8	ng/L
└>	U 236	236	6164.089				ng/L
	U 236-IS	236	6164.089	**102.133**	1.15	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Tuesday, July 26, 2011 15:02:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.119
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	15	24.037	0.000	
	U	234	27	34.027	0.000	
	U	235	703	1.642	0.000	
	U	238	129	13.449	0.000	
	U 232	232	17	21.842	0.000	
┌	U-tot	238	874	2.724	0.000	
│	U-238a	238	129	13.449	0.000	
│	U-235a	235	703	1.642	0.000	
└>	U 236	236	6181	0.959	0.000	
	U 236-IS	236	6181	0.959	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	15.000				ng/L
	U	234	26.667				ng/L
	U	235	703.361				ng/L
	U	238	129.001				ng/L
	U 232	232	17.333				ng/L
┌	U-tot	238	0.141	**2.673**	1.44	53.7	ng/L
│	U-238a	238	0.021	**0.989**	1.42	143.9	ng/L
│	U-235a	235	0.114	**-0.001**	1.05	173323.6	ng/L
└>	U 236	236	6181.101				ng/L
	U 236-IS	236	6181.101	**102.415**	0.98	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 469499d4

Sample Date/Time: Tuesday, July 26, 2011 15:05:13
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469499d4.120
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	41.660	0.000	
	U	234	20		0.000	
	U	235	1629	2.643	0.000	
	U	238	46979	0.631	0.000	
	U 232	232	74	57.476	0.000	
⌈	U-tot	238	48631	0.630	0.000	
|	U-238a	238	46979	0.631	0.000	
|	U-235a	235	1629	2.643	0.000	
L>	U 236	236	5547	1.592	0.000	
	U 236-IS	236	5547	1.592	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	20.000				ng/L
	U	235	1628.813				ng/L
	U	238	46978.742				ng/L
	U 232	232	74.000				ng/L
⌈	U-tot	238	8.767	**4613.845**	45.05	1.0	ng/L
|	U-238a	238	8.470	**4510.409**	44.55	1.0	ng/L
|	U-235a	235	0.294	**90.131**	3.75	4.2	ng/L
L>	U 236	236	5547.359				ng/L
	U 236-IS	236	5547.359	**91.915**	1.46	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 469499d4D

Sample Date/Time: Tuesday, July 26, 2011 15:07:30
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469499d4D.121
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	4	53.294	0.000	
U	234	21	17.169	0.000	
U	235	1650	2.845	0.000	
U	238	46300	0.174	0.000	
U 232	232	84	11.937	0.000	
U-tot	238	47975	0.259	0.000	
U-238a	238	46300	0.174	0.000	
U-235a	235	1650	2.845	0.000	
U 236	236	5534	1.144	0.000	
U 236-IS	236	5534	1.144	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	4.333				ng/L
U	234	21.000				ng/L
U	235	1649.816				ng/L
U	238	46299.937				ng/L
U 232	232	84.334				ng/L
U-tot	238	8.670	**4561.694**	54.94	1.2	ng/L
U-238a	238	8.367	**4455.777**	53.96	1.2	ng/L
U-235a	235	0.298	**92.379**	3.92	4.2	ng/L
U 236	236	5534.017				ng/L
U 236-IS	236	5534.017	**91.694**	1.05	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d4

Sample Date/Time: Tuesday, July 26, 2011 15:09:48
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469500d4.122
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	47.186	0.000	
	U	234	14	34.579	0.000	
	U	235	999	5.167	0.000	
	U	238	22337	1.375	0.000	
	U 232	232	319	28.325	0.000	
┌	U-tot	238	23356	1.486	0.000	
|	U-238a	238	22337	1.375	0.000	
|	U-235a	235	999	5.167	0.000	
└>	U 236	236	5489	1.892	0.000	
	U 236-IS	236	5489	1.892	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.333				ng/L
	U	234	13.667				ng/L
	U	235	999.388				ng/L
	U	238	22337.413				ng/L
	U 232	232	319.006				ng/L
┌	U-tot	238	4.256	**2202.455**	74.80	3.4	ng/L
|	U-238a	238	4.071	**2162.650**	69.64	3.2	ng/L
|	U-235a	235	0.182	**34.265**	5.88	17.1	ng/L
└>	U 236	236	5489.324				ng/L
	U 236-IS	236	5489.324	**90.953**	1.72	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d4D

Sample Date/Time: Tuesday, July 26, 2011 15:12:06
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469500d4D.123
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	82.614	0.000	
	U	234	19	13.925	0.000	
	U	235	985	2.590	0.000	
	U	238	21466	0.869	0.000	
	U 232	232	320	11.035	0.000	
┌	U-tot	238	22477	0.965	0.000	
│	U-238a	238	21466	0.869	0.000	
│	U-235a	235	985	2.590	0.000	
└>	U 236	236	5335	2.106	0.000	
	U 236-IS	236	5335	2.106	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.667				ng/L
	U	234	19.000				ng/L
	U	235	985.053				ng/L
	U	238	21465.981				ng/L
	U 232	232	319.672				ng/L
┌	U-tot	238	4.215	**2180.180**	65.53	3.0	ng/L
│	U-238a	238	4.025	**2138.291**	60.03	2.8	ng/L
│	U-235a	235	0.185	**35.564**	4.29	12.1	ng/L
└>	U 236	236	5334.899				ng/L
	U 236-IS	236	5334.899	**88.394**	1.86	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: 469501d4

Sample Date/Time: Tuesday, July 26, 2011 15:14:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469501d4.124
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	5	21.651	0.000	
U	234	22	9.608	0.000	
U	235	1580	1.023	0.000	
U	238	44509	0.446	0.000	
U 232	232	206	8.702	0.000	
U-tot	238	46117	0.457	0.000	
U-238a	238	44509	0.446	0.000	
U-235a	235	1580	1.023	0.000	
U 236	236	5408	1.828	0.000	
U 236-IS	236	5408	1.828	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	5.333				ng/L
U	234	21.667				ng/L
U	235	1580.471				ng/L
U	238	44509.362				ng/L
U 232	232	205.669				ng/L
U-tot	238	8.530	**4486.899**	103.47	2.3	ng/L
U-238a	238	8.233	**4383.959**	99.15	2.3	ng/L
U-235a	235	0.292	**89.482**	3.91	4.4	ng/L
U 236	236	5407.942				ng/L
U 236-IS	236	5407.942	**89.605**	1.64	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 469501d4D

Sample Date/Time: Tuesday, July 26, 2011 15:16:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469501d4D.125
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	66.144	0.000	
	U	234	18	14.245	0.000	
	U	235	1551	2.482	0.000	
	U	238	43510	0.498	0.000	
	U 232	232	200	3.759	0.000	
┌	U-tot	238	45083	0.410	0.000	
|	U-238a	238	43510	0.498	0.000	
|	U-235a	235	1551	2.482	0.000	
└>	U 236	236	5263	1.255	0.000	
	U 236-IS	236	5263	1.255	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.000				ng/L
	U	234	17.667				ng/L
	U	235	1551.466				ng/L
	U	238	43510.209				ng/L
	U 232	232	199.669				ng/L
┌	U-tot	238	8.568	**4507.040**	52.68	1.2	ng/L
|	U-238a	238	8.269	**4403.174**	48.16	1.1	ng/L
|	U-235a	235	0.295	**90.764**	5.43	6.0	ng/L
└>	U 236	236	5262.523				ng/L
	U 236-IS	236	5262.523	**87.195**	1.09	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 469506d4

Sample Date/Time: Tuesday, July 26, 2011 15:19:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469506d4.126
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	8	140.868	0.000	
	U	234	26	25.849	0.000	
	U	235	1578	2.152	0.000	
	U	238	45072	0.522	0.000	
	U 232	232	144	3.487	0.000	
┌	U-tot	238	46684	0.428	0.000	
|	U-238a	238	45072	0.522	0.000	
|	U-235a	235	1578	2.152	0.000	
└>	U 236	236	5370	1.905	0.000	
	U 236-IS	236	5370	1.905	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	8.000				ng/L
	U	234	26.333				ng/L
	U	235	1577.804				ng/L
	U	238	45072.125				ng/L
	U 232	232	144.334				ng/L
┌	U-tot	238	8.696	**4575.651**	99.69	2.2	ng/L
|	U-238a	238	8.396	**4470.993**	96.81	2.2	ng/L
|	U-235a	235	0.294	**90.281**	5.27	5.8	ng/L
└>	U 236	236	5369.919				ng/L
	U 236-IS	236	5369.919	**88.975**	1.69	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, July 26, 2011 15:21:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.127
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	3	33.333	0.000	
U	234	9	11.111	0.000	
U	235	629	5.016	0.000	
U	238	125	5.067	0.000	
U 232	232	6	26.956	0.000	
┌ U-tot	238	767	4.451	0.000	
│ U-238a	238	125	5.067	0.000	
│ U-235a	235	629	5.016	0.000	
└> U 236	236	5512	1.866	0.000	
U 236-IS	236	5512	1.866	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	3.000				ng/L
U	234	9.000				ng/L
U	235	629.355				ng/L
U	238	125.334				ng/L
U 232	232	5.667				ng/L
┌ U-tot	238	0.139	**1.432**	2.59	181.1	ng/L
│ U-238a	238	0.023	**1.998**	0.73	36.7	ng/L
│ U-235a	235	0.114	**0.173**	2.16	1246.1	ng/L
└> U 236	236	5512.338				ng/L
U 236-IS	236	5512.338	**91.334**	1.70	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 15:23:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.128
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	103.253	0.000	
	U	234	16	16.063	0.000	
	U	235	600	4.504	0.000	
	U	238	514	6.069	0.000	
	U 232	232	5	20.000	0.000	
⌈	U-tot	238	1133	1.952	0.000	
|	U-238a	238	514	6.069	0.000	
|	U-235a	235	600	4.504	0.000	
L>	U 236	236	5494	0.776	0.000	
	U 236-IS	236	5494	0.776	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	15.667				ng/L
	U	235	599.686				ng/L
	U	238	514.015				ng/L
	U 232	232	5.000				ng/L
⌈	U-tot	238	0.206	**37.338**	1.67	4.5	ng/L
|	U-238a	238	0.094	**39.784**	2.67	6.7	ng/L
|	U-235a	235	0.109	**-2.316**	2.70	116.7	ng/L
L>	U 236	236	5493.659				ng/L
	U 236-IS	236	5493.659	**91.025**	0.71	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: cri235
Sample Date/Time: Tuesday, July 26, 2011 15:26:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.129
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	98.974	0.000	
	U	234	11	35.493	0.000	
	U	235	671	2.314	0.000	
	U	238	7574	2.366	0.000	
	U 232	232	8	37.653	0.000	
┌	U-tot	238	8261	2.315	0.000	
│	U-238a	238	7574	2.366	0.000	
│	U-235a	235	671	2.314	0.000	
└>	U 236	236	5502	2.540	0.000	
	U 236-IS	236	5502	2.540	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	10.667				ng/L
	U	235	671.025				ng/L
	U	238	7574.155				ng/L
	U 232	232	7.667				ng/L
┌	U-tot	238	1.502	**729.770**	13.42	1.8	ng/L
│	U-238a	238	1.377	**724.702**	12.03	1.7	ng/L
│	U-235a	235	0.122	**4.100**	1.17	28.6	ng/L
└>	U 236	236	5501.999				ng/L
	U 236-IS	236	5501.999	**91.163**	2.32	2.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 15:28:26
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.130
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	32.733	0.000	
	U	234	20	5.679	0.000	
	U	235	1234	1.947	0.000	
	U	238	81747	0.145	0.000	
	U 232	232	10	26.458	0.000	
┌	U-tot	238	83006	0.164	0.000	
|	U-238a	238	81747	0.145	0.000	
|	U-235a	235	1234	1.947	0.000	
└>	U 236	236	5380	2.587	0.000	
	U 236-IS	236	5380	2.587	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	20.333				ng/L
	U	235	1234.417				ng/L
	U	238	81746.896				ng/L
	U 232	232	10.000				ng/L
┌	U-tot	238	15.437	**8178.958**	211.44	2.6	ng/L
|	U-238a	238	15.202	**8104.016**	206.37	2.5	ng/L
|	U-235a	235	0.230	**58.037**	4.51	7.8	ng/L
└>	U 236	236	5379.592				ng/L
	U 236-IS	236	5379.592	**89.135**	2.31	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Tuesday, July 26, 2011 15:30:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.131
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	9	52.852	0.000	
U	234	19	24.744	0.000	
U	235	617	3.220	0.000	
U	238	104	22.648	0.000	
U 232	232	7	14.286	0.000	
┌ U-tot	238	749	1.602	0.000	
│ U-238a	238	104	22.648	0.000	
│ U-235a	235	617	3.220	0.000	
└> U 236	236	5467	1.958	0.000	
U 236-IS	236	5467	1.958	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	9.333				ng/L
U	234	18.667				ng/L
U	235	616.688				ng/L
U	238	104.334				ng/L
U 232	232	7.000				ng/L
┌ U-tot	238	0.137	**0.344**	1.80	521.8	ng/L
│ U-238a	238	0.019	**0.015**	2.09	13985.6	ng/L
│ U-235a	235	0.113	**-0.467**	2.85	609.1	ng/L
└> U 236	236	5467.311				ng/L
U 236-IS	236	5467.311	**90.588**	1.77	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: 469506d4D
Sample Date/Time: Tuesday, July 26, 2011 15:33:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469506d4D.132
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	36.735	0.000	
	U	234	20	30.414	0.000	
	U	235	1594	3.628	0.000	
	U	238	43224	1.467	0.000	
	U 232	232	105	21.780	0.000	
┌	U-tot	238	44844	1.465	0.000	
|	U-238a	238	43224	1.467	0.000	
|	U-235a	235	1594	3.628	0.000	
└>	U 236	236	5169	2.391	0.000	
	U 236-IS	236	5169	2.391	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.667				ng/L
	U	234	20.000				ng/L
	U	235	1593.806				ng/L
	U	238	43224.196				ng/L
	U 232	232	105.334				ng/L
┌	U-tot	238	8.677	**4565.635**	53.82	1.2	ng/L
|	U-238a	238	8.364	**4453.993**	48.53	1.1	ng/L
|	U-235a	235	0.308	**97.555**	6.35	6.5	ng/L
└>	U 236	236	5168.803				ng/L
	U 236-IS	236	5168.803	**85.642**	2.05	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd7

Sample Date/Time: Tuesday, July 26, 2011 15:35:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Blankd7.133
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	15	41.929	0.000	
	U	234	27	33.197	0.000	
	U	235	1670	2.483	0.000	
	U	238	45049	0.378	0.000	
	U 232	232	168	5.379	0.000	
┌	U-tot	238	46762	0.393	0.000	
|	U-238a	238	45049	0.378	0.000	
|	U-235a	235	1670	2.483	0.000	
└>	U 236	236	5207	0.517	0.000	
	U 236-IS	236	5207	0.517	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	15.333				ng/L
	U	234	27.333				ng/L
	U	235	1670.487				ng/L
	U	238	45049.010				ng/L
	U 232	232	167.668				ng/L
┌	U-tot	238	8.980	**4727.495**	42.06	0.9	ng/L
|	U-238a	238	8.651	**4607.279**	37.58	0.8	ng/L
|	U-235a	235	0.321	**103.752**	4.73	4.6	ng/L
└>	U 236	236	5207.491				ng/L
	U 236-IS	236	5207.491	**86.283**	0.45	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d7

Sample Date/Time: Tuesday, July 26, 2011 15:37:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d7.134
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	2	69.282	0.000	
	U	234	19	16.366	0.000	
	U	235	1578	4.025	0.000	
	U	238	44711	0.843	0.000	
	U 232	232	78	24.633	0.000	
⌈	U-tot	238	46310	0.760	0.000	
|	U-238a	238	44711	0.843	0.000	
|	U-235a	235	1578	4.025	0.000	
└>	U 236	236	5256	1.552	0.000	
	U 236-IS	236	5256	1.552	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	1.667				ng/L
	U	234	18.667				ng/L
	U	235	1578.471				ng/L
	U	238	44711.353				ng/L
	U 232	232	78.334				ng/L
⌈	U-tot	238	8.814	**4638.614**	107.47	2.3	ng/L
|	U-238a	238	8.510	**4531.788**	108.35	2.4	ng/L
|	U-235a	235	0.300	**93.479**	4.95	5.3	ng/L
└>	U 236	236	5255.519				ng/L
	U 236-IS	236	5255.519	**87.079**	1.35	1.6	%R

010190

Quantitative Analysis - Summary Report

Sample ID: 469498d7D

Sample Date/Time: Tuesday, July 26, 2011 15:40:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d7D.135
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	21.651	0.000	
	U	234	23	47.013	0.000	
	U	235	1560	1.006	0.000	
	U	238	45006	0.496	0.000	
	U 232	232	90	11.362	0.000	
┌	U-tot	238	46592	0.491	0.000	
│	U-238a	238	45006	0.496	0.000	
│	U-235a	235	1560	1.006	0.000	
└>	U 236	236	5180	0.245	0.000	
	U 236-IS	236	5180	0.245	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	2.667				ng/L
	U	234	23.333				ng/L
	U	235	1559.800				ng/L
	U	238	45005.797				ng/L
	U 232	232	90.334				ng/L
┌	U-tot	238	8.995	**4735.423**	25.87	0.5	ng/L
│	U-238a	238	8.689	**4627.398**	25.15	0.5	ng/L
│	U-235a	235	0.301	**93.888**	1.72	1.8	ng/L
└>	U 236	236	5179.809				ng/L
	U 236-IS	236	5179.809	**85.825**	0.21	0.2	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d7L df5

Sample Date/Time: Tuesday, July 26, 2011 15:42:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d7L df5.136
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	44.096	0.000	
	U	234	18	19.245	0.000	
	U	235	820	4.565	0.000	
	U	238	9353	1.377	0.000	
	U 232	232	30	12.019	0.000	
┌	U-tot	238	10198	1.622	0.000	
│	U-238a	238	9353	1.377	0.000	
│	U-235a	235	820	4.565	0.000	
└>	U 236	236	5509	0.319	0.000	
	U 236-IS	236	5509	0.319	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.000				ng/L
	U	234	18.000				ng/L
	U	235	820.370				ng/L
	U	238	9353.477				ng/L
	U 232	232	30.000				ng/L
┌	U-tot	238	1.851	**916.569**	15.25	1.7	ng/L
│	U-238a	238	1.698	**896.014**	11.76	1.3	ng/L
│	U-235a	235	0.149	**17.592**	3.31	18.8	ng/L
└>	U 236	236	5509.336				ng/L
	U 236-IS	236	5509.336	**91.285**	0.29	0.3	%R

010192

Quantitative Analysis - Summary Report

Sample ID: 469498d7AS
Sample Date/Time: Tuesday, July 26, 2011 15:44:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d7AS.137
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20uL 1° natural uranium at df100 (075-Rad-Sol 2) (11-064-06)
in 10mL

Utot
TV = 20462 ng/L

U238
TV = 20316 ng/L

U235
TV = 145 ng/L

8/15/11 AS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	52.915	0.000	
	U	234	30	15.930	0.000	
	U	235	3081	3.633	0.000	
	U	238	249056	0.701	0.000	
	U 232	232	80	16.346	0.000	
┌	U-tot	238	252171	0.649	0.000	
|	U-238a	238	249056	0.701	0.000	
|	U-235a	235	3081	3.633	0.000	
L>	U 236	236	5209	0.174	0.000	
	U 236-IS	236	5209	0.174	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.000				ng/L
	U	234	29.667				ng/L
	U	235	3080.856				ng/L
	U	238	249055.584				ng/L
	U 232	232	80.000				ng/L
┌	U-tot	238	48.412	**25806.457**	148.35	0.6	ng/L
|	U-238a	238	47.814	**25510.227**	159.23	0.6	ng/L
|	U-235a	235	0.591	**239.404**	11.04	4.6	ng/L
L>	U 236	236	5208.825				ng/L
	U 236-IS	236	5208.825	**86.305**	0.15	0.2	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, July 26, 2011 15:47:10
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.138
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	88.192	0.000	
	U	234	13	27.735	0.000	
	U	235	643	0.647	0.000	
	U	238	214	0.935	0.000	
	U 232	232	5	84.548	0.000	
┌	U-tot	238	873	1.385	0.000	
│	U-238a	238	214	0.935	0.000	
│	U-235a	235	643	0.647	0.000	
└>	U 236	236	5469	2.192	0.000	
	U 236-IS	236	5469	2.192	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.000				ng/L
	U	234	13.000				ng/L
	U	235	643.356				ng/L
	U	238	214.003				ng/L
	U 232	232	5.333				ng/L
┌	U-tot	238	0.160	**12.473**	0.80	6.4	ng/L
│	U-238a	238	0.039	**10.747**	0.31	2.9	ng/L
│	U-235a	235	0.118	**1.941**	0.93	47.7	ng/L
└>	U 236	236	5468.645				ng/L
	U 236-IS	236	5468.645	**90.610**	1.99	2.2	%R

Page 1
Sample ID: zzz
Report Date/Time: Tuesday, July 26, 2011 15:47:39

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 15:49:30
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.139
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	45.826	0.000	
	U	234	12	16.878	0.000	
	U	235	657	4.888	0.000	
	U	238	525	5.472	0.000	
	U 232	232	5	81.127	0.000	
┌	U-tot	238	1198	4.799	0.000	
│	U-238a	238	525	5.472	0.000	
│	U-235a	235	657	4.888	0.000	
└>	U 236	236	5591	0.905	0.000	
	U 236-IS	236	5591	0.905	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.333				ng/L
	U	234	12.333				ng/L
	U	235	657.357				ng/L
	U	238	525.349				ng/L
	U 232	232	4.667				ng/L
┌	U-tot	238	0.214	**41.651**	5.08	12.2	ng/L
│	U-238a	238	0.094	**39.997**	2.48	6.2	ng/L
│	U-235a	235	0.118	**1.886**	2.80	148.4	ng/L
└>	U 236	236	5591.386				ng/L
	U 236-IS	236	5591.386	**92.644**	0.84	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Tuesday, July 26, 2011 15:51:51
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.140
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

re-run with fresh cri235
7/26/11 NS

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	4	53.294	0.000	
U	234	12	4.681	0.000	
U	235	642	1.947	0.000	
U	238	7466	1.188	0.000	
U 232	232	3	91.652	0.000	
U-tot	238	8125	1.133	0.000	
U-238a	238	7466	1.188	0.000	
U-235a	235	642	1.947	0.000	
U 236	236	5465	1.804	0.000	
U 236-IS	236	5465	1.804	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	4.333				ng/L
U	234	12.333				ng/L
U	235	642.356				ng/L
U	238	7466.065				ng/L
U 232	232	3.333				ng/L
U-tot	238	1.487	**722.009**	11.05	1.5	ng/L
U-238a	238	1.366	**719.163**	8.97	1.2	ng/L
U-235a	235	0.118	**1.896**	1.78	94.0	ng/L
U 236	236	5464.642				ng/L
U 236-IS	236	5464.642	**90.544**	1.63	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Tuesday, July 26, 2011 15:57:06
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.141
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	8	108.253	0.000	
	U	234	14	38.425	0.000	
	U	235	691	6.426	0.000	
	U	238	7638	1.274	0.000	
	U 232	232	9	115.470	0.000	
┌	U-tot	238	8351	1.482	0.000	
│	U-238a	238	7638	1.274	0.000	
│	U-235a	235	691	6.426	0.000	
└>	U 236	236	5441	3.212	0.000	
	U 236-IS	236	5441	3.212	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	8.000				ng/L
	U	234	14.333				ng/L
	U	235	690.693				ng/L
	U	238	7637.541				ng/L
	U 232	232	9.000				ng/L
┌	U-tot	238	1.536	**748.262**	35.65	4.8	ng/L
│	U-238a	238	1.405	**739.757**	32.12	4.3	ng/L
│	U-235a	235	0.127	**6.668**	5.25	78.7	ng/L
└>	U 236	236	5440.962				ng/L
	U 236-IS	236	5440.962	**90.152**	2.90	3.2	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 15:59:26
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.142
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	4	13.323	0.000	
U	234	16	3.685	0.000	
U	235	1216	0.628	0.000	
U	238	82012	0.466	0.000	
U 232	232	5	47.186	0.000	
U-tot	238	83248	0.459	0.000	
U-238a	238	82012	0.466	0.000	
U-235a	235	1216	0.628	0.000	
U 236	236	5353	0.350	0.000	
U 236-IS	236	5353	0.350	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	4.333				ng/L
U	234	15.667				ng/L
U	235	1216.415				ng/L
U	238	82011.602				ng/L
U 232	232	5.333				ng/L
U-tot	238	15.553	**8241.072**	9.13	0.1	ng/L
U-238a	238	15.322	**8167.776**	9.48	0.1	ng/L
U-235a	235	0.227	**56.864**	0.80	1.4	ng/L
U 236	236	5352.575				ng/L
U 236-IS	236	5352.575	**88.687**	0.31	0.4	%R

010198

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Tuesday, July 26, 2011 16:01:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.143
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	121.244	0.000	
	U	234	10	40.290	0.000	
	U	235	604	6.730	0.000	
	U	238	99	7.471	0.000	
	U 232	232	6	40.754	0.000	
┌	U-tot	238	716	6.775	0.000	
│	U-238a	238	99	7.471	0.000	
│	U-235a	235	604	6.730	0.000	
└>	U 236	236	5464	1.022	0.000	
	U 236-IS	236	5464	1.022	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.333				ng/L
	U	234	10.333				ng/L
	U	235	603.687				ng/L
	U	238	98.667				ng/L
	U 232	232	5.667				ng/L
┌	U-tot	238	0.131	**-2.860**	4.67	163.2	ng/L
│	U-238a	238	0.018	**-0.510**	0.62	121.4	ng/L
│	U-235a	235	0.110	**-1.661**	3.70	222.6	ng/L
└>	U 236	236	5463.975				ng/L
	U 236-IS	236	5463.975	**90.533**	0.93	1.0	%R

SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 5/Feb 10

☒ 6020 TAP No. 01-0406-046 Rev14/Jan 11

☐ TAP No. 01-0406-148 Rev0/Apr07

☐ Other__________

ANALYSIS
tot U

IDL Date: 5/10/2011

ICP-MS CALIB. STD. ID's		**TVs**
		tot U / U238 / U235
S0	11-081-05	
STD. 1	11-064-02	44984/44512/319ppt
I. STD	11-064-09	0.5ppb
I. STD		

QC STD. ID's		
ICV/CCV	11-080-08	7666/7612/54.5ppt
UCL		
CRI	11-080-04/05	40/39.7/4.95ppt
ICSA	11-081-06	
ICSAB	11-076-01	20444/20296/145ppt

STD's IV, CCS 1-6 Expires 10-1-11
STD's Spex, ME 1-4 Expires 9-15-11

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526.05.00	Fluor	110614-8	7/26/11	So	WC 15 0082 - 15 0086

INSTRUMENT: DRC II FILENAME: 110726b.rep

Analyst: A. Seiler Date: 7 / 26 / 11 ☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Tuesday, July 26, 2011 10:18:26
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Daily Performance Check.019
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Nicholle Seiler
7/26/11

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	5925.1	5925.130	68.600	1.2
	In	114.9	19187.4	19187.363	228.670	1.2
	U	238.1	14618.1	14618.144	145.523	1.0
⌈>	Ce	139.9	21118.2	21118.237	258.841	1.2
⌊	CeO	155.9	963.6	0.046	0.001	2.5
⌈>	Ba	137.9	176939.6	176939.560	1931.322	1.1
⌊	Ba++	69.0	4700.1	0.027	0.000	1.0
	Bkgd	220.0	3.6	3.633	1.063	29.3
	Bkgd	8.5	1.2	1.233	0.641	52.0

Current Optimization File Data

Current Value	Description
1.02	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
8.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

8/23/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	6.3	563.0
Co	59	45	7.3	10734.3
In	115	45	8.5	21071.4

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Tuesday, July 26, 2011 10:18:26
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Daily Performance Check.019
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Nicholle Seiler
7/26/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2750	2062	0.699	
Mg	23.985	23.975	5673	2074	0.683	
Ar2	75.930	75.925	18309	2097	0.710	
In	114.904	114.925	27798	2129	0.694	
Ce	139.905	139.925	33881	2145	0.686	
Pb	207.977	207.975	50477	2185	0.708	
Th	232.038	232.025	56336	2208	0.683	
U	238.050	238.075	57806	2221	0.693	

Report Date/Time: Tuesday, July 26, 2011 10:23:22

Quantitative Analysis - Summary Report

Sample ID: S-0

Sample Date/Time: Tuesday, July 26, 2011 16:44:27
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\S-0.156
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	21	16.496	0.000	
	U	234	24	25.469	0.000	
	U	235	607	2.662	0.000	
	U	238	94	13.582	0.000	
	U 232	232	13	7.692	0.000	
┌	U-tot	238	746	3.574	0.000	
│	U-238a	238	94	13.582	0.000	
│	U-235a	235	607	2.662	0.000	
└>	U 236	236	4963	2.532	0.000	
	U 236-IS	236	4963	2.532	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	21.000				ng/L
	U	234	23.667				ng/L
	U	235	607.354				ng/L
	U	238	94.000				ng/L
	U 232	232	13.000				ng/L
┌	U-tot	238	0.150				ng/L
│	U-238a	238	0.019				ng/L
│	U-235a	235	0.122				ng/L
└>	U 236	236	4962.688				ng/L
	U 236-IS	236	4962.688	**100.000**	2.53	2.5	%R

Quantitative Analysis - Summary Report

Sample ID: S-1

Sample Date/Time: Tuesday, July 26, 2011 16:46:46
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\S-1.157
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	18	33.793	0.000	
	U	234	48	11.765	0.000	
	U	235	3937	1.847	0.000	
	U	238	437457	0.263	0.000	
	U 232	232	18	16.667	0.000	
┌	U-tot	238	441460	0.272	0.000	
|	U-238a	238	437457	0.263	0.000	
|	U-235a	235	3937	1.847	0.000	
└>	U 236	236	5043	1.803	0.000	
	U 236-IS	236	5043	1.803	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	18.000				ng/L
	U	234	48.333				ng/L
	U	235	3936.519				ng/L
	U	238	437457.381				ng/L
	U 232	232	18.000				ng/L
┌	U-tot	238	87.560	**44984.000**	939.20	2.1	ng/L
|	U-238a	238	86.766	**44572.000**	925.72	2.1	ng/L
|	U-235a	235	0.781	**319.000**	11.84	3.7	ng/L
└>	U 236	236	5043.065				ng/L
	U 236-IS	236	5043.065	**101.620**	1.83	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Tuesday, July 26, 2011 16:49:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icv.158
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	17	25.641	0.000	
	U	234	32	21.875	0.000	
	U	235	1167	0.870	0.000	
	U	238	76486	0.450	0.000	
	U 232	232	22	14.836	0.000	
┌	U-tot	238	77702	0.436	0.000	
│	U-238a	238	76486	0.450	0.000	
│	U-235a	235	1167	0.870	0.000	
└>	U 236	236	4919	1.005	0.000	
	U 236-IS	236	4919	1.005	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	17.000				ng/L
	U	234	32.000				ng/L
	U	235	1167.075				ng/L
	U	238	76485.744				ng/L
	U 232	232	21.667				ng/L
┌	U-tot	238	15.797	**8052.083**	114.54	1.4	ng/L
│	U-238a	238	15.549	**7979.808**	113.31	1.4	ng/L
│	U-235a	235	0.237	**55.616**	1.87	3.4	ng/L
└>	U 236	236	4919.331				ng/L
	U 236-IS	236	4919.331	**99.126**	1.00	1.0	%R

010205

Quantitative Analysis - Summary Report

Sample ID: icb

Sample Date/Time: Tuesday, July 26, 2011 16:51:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icb.159
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	20	35.578	0.000	
	U	234	29	27.370	0.000	
	U	235	587	5.271	0.000	
	U	238	120	10.104	0.000	
	U 232	232	18	48.432	0.000	
┌	U-tot	238	756	3.307	0.000	
|	U-238a	238	120	10.104	0.000	
|	U-235a	235	587	5.271	0.000	
└>	U 236	236	4814	1.512	0.000	
	U 236-IS	236	4814	1.512	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	20.333				ng/L
	U	234	29.000				ng/L
	U	235	586.686				ng/L
	U	238	120.001				ng/L
	U 232	232	18.000				ng/L
┌	U-tot	238	0.157	**3.392**	2.81	82.9	ng/L
|	U-238a	238	0.025	**3.047**	1.13	37.2	ng/L
|	U-235a	235	0.122	**-0.285**	3.35	1174.4	ng/L
└>	U 236	236	4813.941				ng/L
	U 236-IS	236	4813.941	**97.003**	1.47	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 16:53:43
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.160
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	8	50.000	0.000	
	U	234	15	11.547	0.000	
	U	235	587	3.183	0.000	
	U	238	482	7.300	0.000	
	U 232	232	9	38.490	0.000	
┌	U-tot	238	1092	4.788	0.000	
|	U-238a	238	482	7.300	0.000	
|	U-235a	235	587	3.183	0.000	
└>	U 236	236	4823	0.490	0.000	
	U 236-IS	236	4823	0.490	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	8.000				ng/L
	U	234	15.000				ng/L
	U	235	587.019				ng/L
	U	238	481.679				ng/L
	U 232	232	9.000				ng/L
┌	U-tot	238	0.226	**39.069**	6.09	15.6	ng/L
|	U-238a	238	0.100	**41.575**	3.95	9.5	ng/L
|	U-235a	235	0.122	**-0.368**	2.14	581.5	ng/L
└>	U 236	236	4822.946				ng/L
	U 236-IS	236	4822.946	**97.184**	0.48	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: cri235
Sample Date/Time: Tuesday, July 26, 2011 16:56:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.161
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	68.635	0.000	
	U	234	10	21.534	0.000	
	U	235	636	4.218	0.000	
	U	238	6848	0.073	0.000	
	U 232	232	4	0.000	0.000	
┌	U-tot	238	7497	0.340	0.000	
│	U-238a	238	6848	0.073	0.000	
│	U-235a	235	636	4.218	0.000	
└>	U 236	236	4859	0.709	0.000	
	U 236-IS	236	4859	0.709	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	9.667				ng/L
	U	235	636.356				ng/L
	U	238	6847.578				ng/L
	U 232	232	4.000				ng/L
┌	U-tot	238	1.543	**716.647**	4.08	0.6	ng/L
│	U-238a	238	1.409	**714.377**	5.30	0.7	ng/L
│	U-235a	235	0.131	**4.099**	2.29	55.8	ng/L
└>	U 236	236	4858.965				ng/L
	U 236-IS	236	4858.965	**97.910**	0.69	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: icsa

Sample Date/Time: Tuesday, July 26, 2011 16:58:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icsa.162
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	17	75.498	0.000	
	U	234	22	47.033	0.000	
	U	235	512	8.317	0.000	
	U	238	125	8.653	0.000	
	U 232	232	154	9.206	0.000	
┌	U-tot	238	676	11.201	0.000	
│	U-238a	238	125	8.653	0.000	
│	U-235a	235	512	8.317	0.000	
└>	U 236	236	4160	1.936	0.000	
	U 236-IS	236	4160	1.936	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	16.667				ng/L
	U	234	22.333				ng/L
	U	235	512.014				ng/L
	U	238	125.001				ng/L
	U 232	232	154.001				ng/L
┌	U-tot	238	0.163	**6.287**	10.58	168.3	ng/L
│	U-238a	238	0.030	**5.700**	1.54	27.0	ng/L
│	U-235a	235	0.123	**0.337**	5.76	1708.6	ng/L
└>	U 236	236	4160.285				ng/L
	U 236-IS	236	4160.285	**83.831**	1.62	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Tuesday, July 26, 2011 17:00:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icsab.163
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	53.927	0.000	
	U	234	24	12.909	0.000	
	U	235	1818	2.496	0.000	
	U	238	171178	0.407	0.000	
	U 232	232	126	9.357	0.000	
┌	U-tot	238	173024	0.423	0.000	
|	U-238a	238	171178	0.407	0.000	
|	U-235a	235	1818	2.496	0.000	
└>	U 236	236	4386	1.138	0.000	
	U 236-IS	236	4386	1.138	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	23.667				ng/L
	U	235	1817.848				ng/L
	U	238	171177.583				ng/L
	U 232	232	126.001				ng/L
┌	U-tot	238	39.454	**20227.084**	192.14	0.9	ng/L
|	U-238a	238	39.033	**20046.151**	188.35	0.9	ng/L
|	U-235a	235	0.415	**141.505**	5.34	3.8	ng/L
└>	U 236	236	4385.724				ng/L
	U 236-IS	236	4385.724	**88.374**	1.01	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, July 26, 2011 17:03:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.164
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	0.000	0.000	
	U	234	12	13.093	0.000	
	U	235	608	1.480	0.000	
	U	238	130	7.802	0.000	
	U 232	232	3	33.333	0.000	
┌	U-tot	238	753	1.943	0.000	
|	U-238a	238	130	7.802	0.000	
|	U-235a	235	608	1.480	0.000	
└>	U 236	236	5358	0.694	0.000	
	U 236-IS	236	5358	0.694	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.000				ng/L
	U	234	11.667				ng/L
	U	235	608.020				ng/L
	U	238	129.668				ng/L
	U 232	232	3.000				ng/L
┌	U-tot	238	0.141	**-5.076**	1.51	29.8	ng/L
|	U-238a	238	0.024	**2.681**	0.93	34.6	ng/L
|	U-235a	235	0.113	**-4.359**	1.14	26.2	ng/L
└>	U 236	236	5357.912				ng/L
	U 236-IS	236	5357.912	**107.964**	0.75	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 17:05:22
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.165
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	26.956	0.000	
	U	234	18	8.332	0.000	
	U	235	1209	4.720	0.000	
	U	238	82376	0.459	0.000	
	U 232	232	4	13.323	0.000	
┌	U-tot	238	83609	0.516	0.000	
│	U-238a	238	82376	0.459	0.000	
│	U-235a	235	1209	4.720	0.000	
└>	U 236	236	5293	1.125	0.000	
	U 236-IS	236	5293	1.125	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.667				ng/L
	U	234	18.333				ng/L
	U	235	1209.414				ng/L
	U	238	82375.537				ng/L
	U 232	232	4.333				ng/L
┌	U-tot	238	15.797	**8052.411**	58.62	0.7	ng/L
│	U-238a	238	15.564	**7987.446**	60.25	0.8	ng/L
│	U-235a	235	0.228	**51.346**	4.28	8.3	ng/L
└>	U 236	236	5292.874				ng/L
	U 236-IS	236	5292.874	**106.653**	1.20	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Tuesday, July 26, 2011 17:07:40
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.166
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	6	26.956	0.000	
U	234	12	4.949	0.000	
U	235	606	4.560	0.000	
U	238	97	4.152	0.000	
U 232	232	7	15.746	0.000	
┌ U-tot	238	721	4.331	0.000	
| U-238a	238	97	4.152	0.000	
| U-235a	235	606	4.560	0.000	
└> U 236	236	5238	1.286	0.000	
U 236-IS	236	5238	1.286	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	5.667				ng/L
U	234	11.667				ng/L
U	235	606.354				ng/L
U	238	97.334				ng/L
U 232	232	7.333				ng/L
┌ U-tot	238	0.138	**-6.605**	2.80	42.3	ng/L
| U-238a	238	0.019	**-0.206**	0.31	152.9	ng/L
| U-235a	235	0.116	**-3.262**	2.42	74.1	ng/L
└> U 236	236	5238.176				ng/L
U 236-IS	236	5238.176	**105.551**	1.36	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 469499d7

Sample Date/Time: Tuesday, July 26, 2011 17:13:10
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469499d7.167
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	75.593	0.000	
	U	234	28	31.744	0.000	
	U	235	1478	3.628	0.000	
	U	238	41758	0.938	0.000	
	U 232	232	146	15.422	0.000	
┌	U-tot	238	43272	0.858	0.000	
│	U-238a	238	41758	0.938	0.000	
│	U-235a	235	1478	3.628	0.000	
└>	U 236	236	4805	1.072	0.000	
	U 236-IS	236	4805	1.072	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.000				ng/L
	U	234	28.000				ng/L
	U	235	1478.454				ng/L
	U	238	41758.359				ng/L
	U 232	232	146.001				ng/L
┌	U-tot	238	9.007	**4557.765**	82.92	1.8	ng/L
│	U-238a	238	8.692	**4456.202**	80.63	1.8	ng/L
│	U-235a	235	0.308	**89.777**	6.47	7.2	ng/L
└>	U 236	236	4804.936				ng/L
	U 236-IS	236	4804.936	**96.821**	1.04	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 469499d7D

Sample Date/Time: Tuesday, July 26, 2011 17:15:33
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469499d7D.168
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	13	7.692	0.000	
	U	234	27	21.651	0.000	
	U	235	1459	3.901	0.000	
	U	238	41690	0.794	0.000	
	U 232	232	147	19.095	0.000	
┌	U-tot	238	43189	0.681	0.000	
|	U-238a	238	41690	0.794	0.000	
|	U-235a	235	1459	3.901	0.000	
└>	U 236	236	4889	2.745	0.000	
	U 236-IS	236	4889	2.745	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	13.000				ng/L
	U	234	26.667				ng/L
	U	235	1459.451				ng/L
	U	238	41690.045				ng/L
	U 232	232	146.668				ng/L
┌	U-tot	238	8.839	**4471.268**	136.00	3.0	ng/L
|	U-238a	238	8.532	**4374.195**	137.76	3.1	ng/L
|	U-235a	235	0.298	**85.268**	1.87	2.2	ng/L
└>	U 236	236	4888.982				ng/L
	U 236-IS	236	4888.982	**98.515**	2.70	2.7	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d7

Sample Date/Time: Tuesday, July 26, 2011 17:17:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469500d7.169
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	15	17.159	0.000	
	U	234	27	20.653	0.000	
	U	235	859	1.762	0.000	
	U	238	18532	0.460	0.000	
	U 232	232	275	15.988	0.000	
┌	U-tot	238	19433	0.371	0.000	
│	U-238a	238	18532	0.460	0.000	
│	U-235a	235	859	1.762	0.000	
└>	U 236	236	4715	1.597	0.000	
	U 236-IS	236	4715	1.597	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	14.667				ng/L
	U	234	26.667				ng/L
	U	235	859.374				ng/L
	U	238	18532.204				ng/L
	U 232	232	275.004				ng/L
┌	U-tot	238	4.123	**2044.226**	37.69	1.8	ng/L
│	U-238a	238	3.932	**2010.379**	38.28	1.9	ng/L
│	U-235a	235	0.182	**28.974**	0.80	2.7	ng/L
└>	U 236	236	4714.556				ng/L
	U 236-IS	236	4714.556	**95.000**	1.52	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d7D

Sample Date/Time: Tuesday, July 26, 2011 17:20:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469500d7D.170
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	13	20.352	0.000	
U	234	23	22.592	0.000	
U	235	866	2.946	0.000	
U	238	16556	0.349	0.000	
U 232	232	237	15.405	0.000	
U-tot	238	17458	0.479	0.000	
U-238a	238	16556	0.349	0.000	
U-235a	235	866	2.946	0.000	
U 236	236	4638	1.028	0.000	
U 236-IS	236	4638	1.028	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	13.000				ng/L
U	234	23.000				ng/L
U	235	866.041				ng/L
U	238	16556.396				ng/L
U 232	232	237.003				ng/L
U-tot	238	3.765	**1860.041**	12.54	0.7	ng/L
U-238a	238	3.570	**1824.717**	14.35	0.8	ng/L
U-235a	235	0.187	**31.126**	1.84	5.9	ng/L
U 236	236	4637.516				ng/L
U 236-IS	236	4637.516	**93.448**	0.96	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 469501d7

Sample Date/Time: Tuesday, July 26, 2011 17:22:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469501d7.171
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	13	12.059	0.000	
	U	234	27	12.830	0.000	
	U	235	1402	3.954	0.000	
	U	238	38157	0.309	0.000	
	U 232	232	104	4.918	0.000	
┌	U-tot	238	39599	0.196	0.000	
|	U-238a	238	38157	0.309	0.000	
|	U-235a	235	1402	3.954	0.000	
└>	U 236	236	4528	1.159	0.000	
	U 236-IS	236	4528	1.159	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	12.667				ng/L
	U	234	27.000				ng/L
	U	235	1402.108				ng/L
	U	238	38156.910				ng/L
	U 232	232	104.334				ng/L
┌	U-tot	238	8.747	**4423.837**	57.34	1.3	ng/L
|	U-238a	238	8.428	**4320.777**	61.14	1.4	ng/L
|	U-235a	235	0.310	**90.667**	4.30	4.7	ng/L
└>	U 236	236	4527.794				ng/L
	U 236-IS	236	4527.794	**91.237**	1.06	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: 469501d7D

Sample Date/Time: Tuesday, July 26, 2011 17:24:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469501d7D.172
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	8	61.641	0.000	
	U	234	20	29.794	0.000	
	U	235	1372	2.930	0.000	
	U	238	38364	0.142	0.000	
	U 232	232	184	20.545	0.000	
┌	U-tot	238	39764	0.118	0.000	
│	U-238a	238	38364	0.142	0.000	
│	U-235a	235	1372	2.930	0.000	
└>	U 236	236	4652	0.596	0.000	
	U 236-IS	236	4652	0.596	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.667				ng/L
	U	234	19.667				ng/L
	U	235	1372.437				ng/L
	U	238	38364.112				ng/L
	U 232	232	184.002				ng/L
┌	U-tot	238	8.548	**4321.408**	21.36	0.5	ng/L
│	U-238a	238	8.247	**4227.492**	20.17	0.5	ng/L
│	U-235a	235	0.295	**83.597**	4.17	5.0	ng/L
└>	U 236	236	4652.190				ng/L
	U 236-IS	236	4652.190	**93.743**	0.56	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: 469506d7

Sample Date/Time: Tuesday, July 26, 2011 17:26:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469506d7.173
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	52.915	0.000	
	U	234	19	15.789	0.000	
	U	235	1427	1.779	0.000	
	U	238	40283	0.344	0.000	
	U 232	232	88	17.751	0.000	
⌈	U-tot	238	41739	0.358	0.000	
|	U-238a	238	40283	0.344	0.000	
|	U-235a	235	1427	1.779	0.000	
L>	U 236	236	4610	1.454	0.000	
	U 236-IS	236	4610	1.454	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	10.000				ng/L
	U	234	19.000				ng/L
	U	235	1427.445				ng/L
	U	238	40282.718				ng/L
	U 232	232	88.000				ng/L
⌈	U-tot	238	9.056	**4583.107**	53.65	1.2	ng/L
|	U-238a	238	8.740	**4481.035**	54.38	1.2	ng/L
|	U-235a	235	0.310	**90.702**	1.64	1.8	ng/L
L>	U 236	236	4609.502				ng/L
	U 236-IS	236	4609.502	**92.883**	1.35	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Tuesday, July 26, 2011 17:29:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.174
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	11	26.956	0.000	
	U	234	19	38.822	0.000	
	U	235	572	1.770	0.000	
	U	238	136	5.697	0.000	
	U 232	232	12	8.333	0.000	
⌈	U-tot	238	739	1.569	0.000	
|	U-238a	238	136	5.697	0.000	
|	U-235a	235	572	1.770	0.000	
L>	U 236	236	4794	2.183	0.000	
	U 236-IS	236	4794	2.183	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	11.333				ng/L
	U	234	19.333				ng/L
	U	235	571.685				ng/L
	U	238	136.334				ng/L
	U 232	232	12.000				ng/L
⌈	U-tot	238	0.154	**1.896**	2.46	129.7	ng/L
|	U-238a	238	0.028	**4.872**	1.03	21.1	ng/L
|	U-235a	235	0.119	**-1.551**	1.34	86.3	ng/L
L>	U 236	236	4793.597				ng/L
	U 236-IS	236	4793.597	**96.593**	2.11	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 17:31:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.175
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	13	16.434	0.000	
	U	234	16	12.745	0.000	
	U	235	607	2.742	0.000	
	U	238	505	4.077	0.000	
	U 232	232	8	21.651	0.000	
┌	U-tot	238	1141	3.576	0.000	
│	U-238a	238	505	4.077	0.000	
│	U-235a	235	607	2.742	0.000	
└>	U 236	236	4853	1.866	0.000	
	U 236-IS	236	4853	1.866	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	12.667				ng/L
	U	234	16.333				ng/L
	U	235	607.020				ng/L
	U	238	505.347				ng/L
	U 232	232	8.000				ng/L
┌	U-tot	238	0.235	**43.633**	5.41	12.4	ng/L
│	U-238a	238	0.104	**43.772**	2.71	6.2	ng/L
│	U-235a	235	0.125	**1.270**	2.12	166.5	ng/L
└>	U 236	236	4853.295				ng/L
	U 236-IS	236	4853.295	**97.796**	1.82	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Tuesday, July 26, 2011 17:33:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.176
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	19	54.331	0.000	
	U	234	27	31.644	0.000	
	U	235	630	1.563	0.000	
	U	238	7133	1.003	0.000	
	U 232	232	18	61.111	0.000	
┌	U-tot	238	7809	0.922	0.000	
│	U-238a	238	7133	1.003	0.000	
│	U-235a	235	630	1.563	0.000	
└>	U 236	236	4829	1.568	0.000	
	U 236-IS	236	4829	1.568	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	19.333				ng/L
	U	234	27.000				ng/L
	U	235	630.022				ng/L
	U	238	7133.131				ng/L
	U 232	232	18.000				ng/L
┌	U-tot	238	1.618	**755.044**	19.88	2.6	ng/L
│	U-238a	238	1.478	**749.422**	18.31	2.4	ng/L
│	U-235a	235	0.130	**3.875**	1.25	32.2	ng/L
└>	U 236	236	4828.949				ng/L
	U 236-IS	236	4828.949	**97.305**	1.53	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 17:36:19
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.177
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	14	34.579	0.000	
	U	234	30	15.200	0.000	
	U	235	1133	2.101	0.000	
	U	238	75230	0.476	0.000	
	U 232	232	17	40.754	0.000	
⌈	U-tot	238	76406	0.493	0.000	
|	U-238a	238	75230	0.476	0.000	
|	U-235a	235	1133	2.101	0.000	
└>	U 236	236	4901	2.918	0.000	
	U 236-IS	236	4901	2.918	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	13.667				ng/L
	U	234	29.667				ng/L
	U	235	1132.737				ng/L
	U	238	75230.333				ng/L
	U 232	232	17.000				ng/L
⌈	U-tot	238	15.597	**7949.465**	192.76	2.4	ng/L
|	U-238a	238	15.357	**7881.043**	190.46	2.4	ng/L
|	U-235a	235	0.231	**52.671**	2.30	4.4	ng/L
└>	U 236	236	4900.988				ng/L
	U 236-IS	236	4900.988	**98.757**	2.88	2.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Tuesday, July 26, 2011 17:38:37
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.178
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	15	28.386	0.000	
U	234	24	14.839	0.000	
U	235	559	4.471	0.000	
U	238	101	14.585	0.000	
U 232	232	13	63.787	0.000	
┌ U-tot	238	699	3.058	0.000	
| U-238a	238	101	14.585	0.000	
| U-235a	235	559	4.471	0.000	
└> U 236	236	4796	1.017	0.000	
U 236-IS	236	4796	1.017	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	14.667				ng/L
U	234	23.667				ng/L
U	235	559.351				ng/L
U	238	101.001				ng/L
U 232	232	13.333				ng/L
┌ U-tot	238	0.146	**-2.451**	3.02	123.4	ng/L
| U-238a	238	0.021	**1.072**	1.62	151.0	ng/L
| U-235a	235	0.117	**-2.825**	2.99	105.9	ng/L
└> U 236	236	4796.265				ng/L
U 236-IS	236	4796.265	**96.647**	0.98	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 469506d7D

Sample Date/Time: Tuesday, July 26, 2011 17:40:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469506d7D.179
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	2	65.465	0.000	
	U	234	21	40.580	0.000	
	U	235	1433	1.249	0.000	
	U	238	38719	0.566	0.000	
	U 232	232	165	10.356	0.000	
┌	U-tot	238	40175	0.582	0.000	
|	U-238a	238	38719	0.566	0.000	
|	U-235a	235	1433	1.249	0.000	
└>	U 236	236	4534	0.887	0.000	
	U 236-IS	236	4534	0.887	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	2.333				ng/L
	U	234	20.667				ng/L
	U	235	1432.780				ng/L
	U	238	38718.947				ng/L
	U 232	232	165.002				ng/L
┌	U-tot	238	8.862	**4483.191**	63.72	1.4	ng/L
|	U-238a	238	8.541	**4378.615**	60.05	1.4	ng/L
|	U-235a	235	0.316	**93.796**	3.19	3.4	ng/L
└>	U 236	236	4533.797				ng/L
	U 236-IS	236	4533.797	**91.358**	0.81	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd10

Sample Date/Time: Tuesday, July 26, 2011 17:43:15
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Blankd10.180
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	1	114.564	0.000	
U	234	21	2.794	0.000	
U	235	1511	3.503	0.000	
U	238	39670	0.445	0.000	
U 232	232	78	13.287	0.000	
⌈ U-tot	238	41203	0.324	0.000	
| U-238a	238	39670	0.445	0.000	
| U-235a	235	1511	3.503	0.000	
L> U 236	236	4477	1.768	0.000	
U 236-IS	236	4477	1.768	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	1.333				ng/L
U	234	20.667				ng/L
U	235	1511.459				ng/L
U	238	39669.699				ng/L
U 232	232	78.334				ng/L
⌈ U-tot	238	9.206	**4660.295**	97.97	2.1	ng/L
| U-238a	238	8.864	**4544.474**	100.44	2.2	ng/L
| U-235a	235	0.338	**104.211**	2.94	2.8	ng/L
L> U 236	236	4476.769				ng/L
U 236-IS	236	4476.769	**90.209**	1.59	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d10

Sample Date/Time: Tuesday, July 26, 2011 17:45:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d10.181
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	1	43.301	0.000	
U	234	18	22.044	0.000	
U	235	1374	3.822	0.000	
U	238	41386	0.571	0.000	
U 232	232	98	9.734	0.000	
┌ U-tot	238	42780	0.640	0.000	
| U-238a	238	41386	0.571	0.000	
| U-235a	235	1374	3.822	0.000	
L> U 236	236	4584	0.809	0.000	
U 236-IS	236	4584	0.809	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	1.333				ng/L
U	234	18.333				ng/L
U	235	1374.104				ng/L
U	238	41386.327				ng/L
U 232	232	98.001				ng/L
┌ U-tot	238	9.332	**4724.936**	20.06	0.4	ng/L
| U-238a	238	9.028	**4628.775**	16.43	0.4	ng/L
| U-235a	235	0.300	**85.882**	5.40	6.3	ng/L
L> U 236	236	4584.489				ng/L
U 236-IS	236	4584.489	**92.379**	0.75	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d10D

Sample Date/Time: Tuesday, July 26, 2011 17:47:55
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d10D.182
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	2	49.487	0.000	
U	234	18	11.783	0.000	
U	235	1397	4.938	0.000	
U	238	41026	0.360	0.000	
U 232	232	171	8.103	0.000	
U-tot	238	42443	0.497	0.000	
U-238a	238	41026	0.360	0.000	
U-235a	235	1397	4.938	0.000	
U 236	236	4620	0.695	0.000	
U 236-IS	236	4620	0.695	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	2.333				ng/L
U	234	17.667				ng/L
U	235	1397.108				ng/L
U	238	41026.366				ng/L
U 232	232	171.002				ng/L
U-tot	238	9.187	**4650.519**	53.16	1.1	ng/L
U-238a	238	8.880	**4553.043**	44.06	1.0	ng/L
U-235a	235	0.302	**87.210**	8.19	9.4	ng/L
U 236	236	4620.174				ng/L
U 236-IS	236	4620.174	**93.098**	0.65	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 469498d10L df5

Sample Date/Time: Tuesday, July 26, 2011 17:50:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d10L df5.183
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	37.796	0.000	
	U	234	16	45.952	0.000	
	U	235	790	1.973	0.000	
	U	238	8981	0.734	0.000	
	U 232	232	38	11.471	0.000	
┌	U-tot	238	9795	0.570	0.000	
│	U-238a	238	8981	0.734	0.000	
│	U-235a	235	790	1.973	0.000	
└>	U 236	236	4890	0.333	0.000	
	U 236-IS	236	4890	0.333	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.000				ng/L
	U	234	16.333				ng/L
	U	235	790.034				ng/L
	U	238	8981.435				ng/L
	U 232	232	38.000				ng/L
┌	U-tot	238	2.003	**953.481**	9.02	0.9	ng/L
│	U-238a	238	1.837	**934.059**	9.68	1.0	ng/L
│	U-235a	235	0.162	**18.937**	1.38	7.3	ng/L
└>	U 236	236	4889.648				ng/L
	U 236-IS	236	4889.648	**98.528**	0.33	0.3	%R

010230

Quantitative Analysis - Summary Report

Sample ID: 469498d10AS

Sample Date/Time: Tuesday, July 26, 2011 17:52:36
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469498d10AS.184
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

re-run
8/15/11 NS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	56.773	0.000	
	U	234	34	38.457	0.000	
	U	235	3271	0.556	0.000	
	U	238	283121	0.369	0.000	
	U 232	232	111	8.150	0.000	
┌	U-tot	238	286430	0.367	0.000	
|	U-238a	238	283121	0.369	0.000	
|	U-235a	235	3271	0.556	0.000	
└>	U 236	236	4638	3.883	0.000	
	U 236-IS	236	4638	3.883	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	34.333				ng/L
	U	235	3270.922				ng/L
	U	238	283121.106				ng/L
	U 232	232	111.334				ng/L
┌	U-tot	238	61.821	**31737.901**	1143.77	3.6	ng/L
|	U-238a	238	61.107	**31387.981**	1127.97	3.6	ng/L
|	U-235a	235	0.706	**282.712**	11.65	4.1	ng/L
└>	U 236	236	4637.517				ng/L
	U 236-IS	236	4637.517	**93.448**	3.63	3.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Tuesday, July 26, 2011 17:54:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.185
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	13.323	0.000	
	U	234	11	31.492	0.000	
	U	235	571	3.382	0.000	
	U	238	190	3.814	0.000	
	U 232	232	9	44.444	0.000	
┌	U-tot	238	776	3.149	0.000	
|	U-238a	238	190	3.814	0.000	
|	U-235a	235	571	3.382	0.000	
└>	U 236	236	4841	1.083	0.000	
	U 236-IS	236	4841	1.083	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.333				ng/L
	U	234	11.000				ng/L
	U	235	571.018				ng/L
	U	238	189.669				ng/L
	U 232	232	9.000				ng/L
┌	U-tot	238	0.160	**5.052**	2.44	48.4	ng/L
|	U-238a	238	0.039	**10.383**	0.93	9.0	ng/L
|	U-235a	235	0.118	**-2.203**	1.68	76.3	ng/L
└>	U 236	236	4841.289				ng/L
	U 236-IS	236	4841.289	**97.554**	1.06	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 17:57:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.186
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	3	62.450	0.000	
U	234	10	31.604	0.000	
U	235	544	0.591	0.000	
U	238	484	3.957	0.000	
U 232	232	3	33.333	0.000	
┌ U-tot	238	1040	1.255	0.000	
│ U-238a	238	484	3.957	0.000	
│ U-235a	235	544	0.591	0.000	
└> U 236	236	4758	1.042	0.000	
U 236-IS	236	4758	1.042	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	3.333				ng/L
U	234	9.667				ng/L
U	235	543.683				ng/L
U	238	483.680				ng/L
U 232	232	3.000				ng/L
┌ U-tot	238	0.219	**35.108**	2.60	7.4	ng/L
│ U-238a	238	0.102	**42.499**	2.61	6.1	ng/L
│ U-235a	235	0.114	**-3.980**	0.25	6.3	ng/L
└> U 236	236	4757.912				ng/L
U 236-IS	236	4757.912	**95.874**	1.00	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Tuesday, July 26, 2011 17:59:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.187
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	128.886	0.000	
	U	234	12	60.204	0.000	
	U	235	625	4.909	0.000	
	U	238	6824	1.183	0.000	
	U 232	232	9	83.471	0.000	
┌	U-tot	238	7464	1.169	0.000	
│	U-238a	238	6824	1.183	0.000	
│	U-235a	235	625	4.909	0.000	
└>	U 236	236	4845	0.717	0.000	
	U 236-IS	236	4845	0.717	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	11.667				ng/L
	U	235	624.688				ng/L
	U	238	6823.894				ng/L
	U 232	232	8.667				ng/L
┌	U-tot	238	1.540	**715.343**	9.44	1.3	ng/L
│	U-238a	238	1.408	**713.888**	7.49	1.0	ng/L
│	U-235a	235	0.129	**3.135**	3.47	110.8	ng/L
└>	U 236	236	4845.291				ng/L
	U 236-IS	236	4845.291	**97.634**	0.70	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 18:01:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.188
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	21	32.924	0.000	
U	234	37	13.745	0.000	
U	235	1098	0.913	0.000	
U	238	73329	1.005	0.000	
U 232	232	20	22.913	0.000	
U-tot	238	74485	0.982	0.000	
U-238a	238	73329	1.005	0.000	
U-235a	235	1098	0.913	0.000	
U 236	236	4693	2.079	0.000	
U 236-IS	236	4693	2.079	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	21.333				ng/L
U	234	37.333				ng/L
U	235	1097.733				ng/L
U	238	73328.571				ng/L
U 232	232	20.000				ng/L
U-tot	238	15.877	**8093.476**	170.74	2.1	ng/L
U-238a	238	15.631	**8021.509**	168.99	2.1	ng/L
U-235a	235	0.234	**54.031**	2.45	4.5	ng/L
U 236	236	4692.544				ng/L
U 236-IS	236	4692.544	**94.557**	1.97	2.1	%R

010235

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Tuesday, July 26, 2011 18:04:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.189
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	27	19.245	0.000	
	U	234	28	23.419	0.000	
	U	235	570	1.774	0.000	
	U	238	119	6.345	0.000	
	U 232	232	25	14.237	0.000	
⌈	U-tot	238	745	0.809	0.000	
|	U-238a	238	119	6.345	0.000	
|	U-235a	235	570	1.774	0.000	
L>	U 236	236	4579	3.672	0.000	
	U 236-IS	236	4579	3.672	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	27.000				ng/L
	U	234	28.000				ng/L
	U	235	570.351				ng/L
	U	238	119.334				ng/L
	U 232	232	24.667				ng/L
⌈	U-tot	238	0.163	**6.335**	3.63	57.4	ng/L
|	U-238a	238	0.026	**3.664**	1.25	34.2	ng/L
|	U-235a	235	0.125	**1.058**	2.69	254.4	ng/L
L>	U 236	236	4579.488				ng/L
	U 236-IS	236	4579.488	**92.278**	3.39	3.7	%R

010236

SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 5/Feb 10

☒ 6020 TAP No. 01-0406-046 Rev14/Jan 11

☐ TAP No. 01-0406-148 Rev0/Apr07

☐ Other

ICP-MS CALIB. STD. ID's / **TVs**

		tot U / U238 / U235
S0	11-081-05	
STD. 1	11-064-02	44984/44572/319 ng/L
I. STD	11-064-09	0.5ppb
I. STD		

QC STD. ID's

ICV/CCV	11-080-08	7666/7612/54.5 ng/L
UCL		
CRI	11-080-04/05	40/39.7/4.95 ng/L
ICSA	11-064-04	–
ICSAB	11-078-01	20,444/20298/145 ng/L

ANALYSIS

Utot, ~~U238, U235~~ (NN) 8/23/11

IDL Date: 5/10/2011

STD's IV, CCS 1-6 Expires 10-1-11
STD's Spex, ME 1-4 Expires 9-15-11

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526.05.006	Fluor	1106148	7/26/11	SO	UC 15 0082 - 15 0086

INSTRUMENT: DRC II

FILENAME: 110726C.rep

Analyst: N. Seiler

Date: 7 / 27 / 11

☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Tuesday, July 26, 2011 10:16:26
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Daily Performance Check.019
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Nicholle Seiler
7/26/11

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	5925.1	5925.130	68.600	1.2
	In	114.9	19187.4	19187.363	228.670	1.2
	U	238.1	14618.1	14618.144	145.523	1.0
[>	Ce	139.9	21118.2	21118.237	258.841	1.2
[	CeO	155.9	963.6	0.046	0.001	2.5
[>	Ba	137.9	176939.6	176939.560	1931.322	1.1
[	Ba++	69.0	4700.1	0.027	0.000	1.0
	Bkgd	220.0	3.6	3.633	1.063	29.3
	Bkgd	8.5	1.2	1.233	0.641	52.0

Current Optimization File Data

Current Value	Description
1.02	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
8.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

9/23/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	6.3	563.0
Co	59	45	7.3	10734.3
In	115	45	8.5	21071.4

010238

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Tuesday, July 26, 2011 10:18:26
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 July 2\Daily Performance Check.019
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

7/26/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2750	2062	0.699	
Mg	23.985	23.975	5673	2074	0.683	
Ar2	75.930	75.925	18309	2097	0.710	
In	114.904	114.925	27798	2129	0.694	
Ce	139.905	139.925	33881	2145	0.686	
Pb	207.977	207.975	50477	2185	0.708	
Th	232.038	232.025	56336	2208	0.683	
U	238.050	238.075	57806	2221	0.693	

Report Date/Time: Tuesday, July 26, 2011 10:23:22

Quantitative Analysis - Summary Report

Sample ID: S-0

Sample Date/Time: Tuesday, July 26, 2011 18:12:21
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\S-0.190
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	14	21.123	0.000	
	U	234	16	10.825	0.000	
	U	235	538	1.756	0.000	
	U	238	88	14.193	0.000	
	U 232	232	11	28.364	0.000	
┌	U-tot	238	656	0.528	0.000	
|	U-238a	238	88	14.193	0.000	
|	U-235a	235	538	1.756	0.000	
└>	U 236	236	4539	0.147	0.000	
	U 236-IS	236	4539	0.147	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	13.667				ng/L
	U	234	16.000				ng/L
	U	235	538.349				ng/L
	U	238	88.000				ng/L
	U 232	232	11.333				ng/L
┌	U-tot	238	0.145				ng/L
|	U-238a	238	0.019				ng/L
|	U-235a	235	0.119				ng/L
└>	U 236	236	4539.466				ng/L
	U 236-IS	236	4539.466	**100.000**	0.15	0.1	%R

Quantitative Analysis - Summary Report

Sample ID: S-1

Sample Date/Time: Tuesday, July 26, 2011 18:14:40
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\S-1.191
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	8	45.069	0.000	
	U	234	42	3.608	0.000	
	U	235	3604	2.302	0.000	
	U	238	401720	0.773	0.000	
	U 232	232	11	24.052	0.000	
┌	U-tot	238	405374	0.751	0.000	
|	U-238a	238	401720	0.773	0.000	
|	U-235a	235	3604	2.302	0.000	
└>	U 236	236	4515	0.511	0.000	
	U 236-IS	236	4515	0.511	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	8.000				ng/L
	U	234	42.333				ng/L
	U	235	3604.048				ng/L
	U	238	401719.622				ng/L
	U 232	232	11.000				ng/L
┌	U-tot	238	89.781	**44984.000**	109.41	0.2	ng/L
|	U-238a	238	88.971	**44572.000**	117.36	0.3	ng/L
|	U-235a	235	0.798	**319.000**	10.15	3.2	ng/L
└>	U 236	236	4515.121				ng/L
	U 236-IS	236	4515.121	**99.464**	0.51	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Tuesday, July 26, 2011 18:16:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icv.192
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	14	21.429	0.000	
	U	234	22	34.021	0.000	
	U	235	1051	1.761	0.000	
	U	238	70470	0.280	0.000	
	U 232	232	14	22.354	0.000	
┌	U-tot	238	71557	0.257	0.000	
│	U-238a	238	70470	0.280	0.000	
│	U-235a	235	1051	1.761	0.000	
└>	U 236	236	4471	1.507	0.000	
	U 236-IS	236	4471	1.507	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	14.000				ng/L
	U	234	21.667				ng/L
	U	235	1050.727				ng/L
	U	238	70470.415				ng/L
	U 232	232	13.667				ng/L
┌	U-tot	238	16.006	**7960.304**	106.12	1.3	ng/L
│	U-238a	238	15.763	**7889.009**	105.36	1.3	ng/L
│	U-235a	235	0.235	**54.644**	1.94	3.6	ng/L
└>	U 236	236	4471.099				ng/L
	U 236-IS	236	4471.099	**98.494**	1.48	1.5	%R

Page 1
Sample ID: icv
Report Date/Time: Tuesday, July 26, 2011 18:17:26

Quantitative Analysis - Summary Report

Sample ID: icb

Sample Date/Time: Tuesday, July 26, 2011 18:19:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icb.193
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	12	36.324	0.000	
	U	234	24	20.843	0.000	
	U	235	534	6.326	0.000	
	U	238	108	19.805	0.000	
	U 232	232	11	32.778	0.000	
⌈	U-tot	238	678	8.067	0.000	
|	U-238a	238	108	19.805	0.000	
|	U-235a	235	534	6.326	0.000	
L>	U 236	236	4512	0.437	0.000	
	U 236-IS	236	4512	0.437	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	12.000				ng/L
	U	234	23.667				ng/L
	U	235	534.016				ng/L
	U	238	108.334				ng/L
	U 232	232	11.000				ng/L
⌈	U-tot	238	0.150	**2.877**	5.90	205.1	ng/L
|	U-238a	238	0.024	**2.314**	2.36	102.2	ng/L
|	U-235a	235	0.118	**-0.119**	3.37	2841.9	ng/L
L>	U 236	236	4512.119				ng/L
	U 236-IS	236	4512.119	**99.398**	0.43	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 18:21:36
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.194
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	12	52.128	0.000	
	U	234	16	46.358	0.000	
	U	235	515	9.182	0.000	
	U	238	457	1.281	0.000	
	U 232	232	12	22.048	0.000	
┌	U-tot	238	1001	4.798	0.000	
│	U-238a	238	457	1.281	0.000	
│	U-235a	235	515	9.182	0.000	
└>	U 236	236	4511	2.020	0.000	
	U 236-IS	236	4511	2.020	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	12.333				ng/L
	U	234	16.333				ng/L
	U	235	515.015				ng/L
	U	238	457.345				ng/L
	U 232	232	12.000				ng/L
┌	U-tot	238	0.222	**38.932**	7.46	19.2	ng/L
│	U-238a	238	0.101	**41.097**	1.05	2.5	ng/L
│	U-235a	235	0.114	**-2.000**	6.00	300.0	ng/L
└>	U 236	236	4511.119				ng/L
	U 236-IS	236	4511.119	**99.376**	2.01	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Tuesday, July 26, 2011 18:23:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.195
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	48.432	0.000	
	U	234	21	40.686	0.000	
	U	235	592	4.643	0.000	
	U	238	6410	1.211	0.000	
	U 232	232	8	104.843	0.000	
┌	U-tot	238	7033	0.583	0.000	
|	U-238a	238	6410	1.211	0.000	
|	U-235a	235	592	4.643	0.000	
└>	U 236	236	4409	1.082	0.000	
	U 236-IS	236	4409	1.082	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.000				ng/L
	U	234	21.000				ng/L
	U	235	592.353				ng/L
	U	238	6410.259				ng/L
	U 232	232	8.333				ng/L
┌	U-tot	238	1.595	**728.013**	10.62	1.5	ng/L
|	U-238a	238	1.454	**718.862**	12.67	1.8	ng/L
|	U-235a	235	0.134	**7.401**	3.07	41.4	ng/L
└>	U 236	236	4409.069				ng/L
	U 236-IS	236	4409.069	**97.127**	1.05	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: icsa

Sample Date/Time: Tuesday, July 26, 2011 18:26:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icsa.196
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	48.038	0.000	
	U	234	9	6.662	0.000	
	U	235	488	2.847	0.000	
	U	238	113	7.955	0.000	
	U 232	232	127	4.325	0.000	
⌈	U-tot	238	614	3.912	0.000	
|	U-238a	238	113	7.955	0.000	
|	U-235a	235	488	2.847	0.000	
└>	U 236	236	3914	0.595	0.000	
	U 236-IS	236	3914	0.595	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.333				ng/L
	U	234	8.667				ng/L
	U	235	488.013				ng/L
	U	238	112.667				ng/L
	U 232	232	127.334				ng/L
⌈	U-tot	238	0.157	**6.178**	3.55	57.4	ng/L
|	U-238a	238	0.029	**4.715**	1.23	26.2	ng/L
|	U-235a	235	0.125	**2.869**	2.01	69.9	ng/L
└>	U 236	236	3913.842				ng/L
	U 236-IS	236	3913.842	**86.218**	0.51	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Tuesday, July 26, 2011 18:28:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\icsab.197
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	24.019	0.000	
	U	234	26	5.801	0.000	
	U	235	1713	2.047	0.000	
	U	238	162327	0.402	0.000	
	U 232	232	119	9.090	0.000	
┌	U-tot	238	164075	0.420	0.000	
|	U-238a	238	162327	0.402	0.000	
|	U-235a	235	1713	2.047	0.000	
└>	U 236	236	4011	0.622	0.000	
	U 236-IS	236	4011	0.622	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	8.667				ng/L
	U	234	26.333				ng/L
	U	235	1713.495				ng/L
	U	238	162326.773				ng/L
	U 232	232	119.001				ng/L
┌	U-tot	238	40.912	**20459.340**	183.50	0.9	ng/L
|	U-238a	238	40.476	**20272.139**	179.32	0.9	ng/L
|	U-235a	235	0.427	**144.869**	4.44	3.1	ng/L
└>	U 236	236	4010.551				ng/L
	U 236-IS	236	4010.551	**88.349**	0.55	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, July 26, 2011 18:30:55
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.198
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	62.984	0.000	
	U	234	10	36.638	0.000	
	U	235	540	3.585	0.000	
	U	238	114	10.361	0.000	
	U 232	232	6	79.575	0.000	
┌	U-tot	238	668	1.821	0.000	
|	U-238a	238	114	10.361	0.000	
|	U-235a	235	540	3.585	0.000	
└>	U 236	236	4915	1.182	0.000	
	U 236-IS	236	4915	1.182	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	10.333				ng/L
	U	235	539.683				ng/L
	U	238	114.334				ng/L
	U 232	232	5.667				ng/L
┌	U-tot	238	0.136	**-4.315**	1.05	24.2	ng/L
|	U-238a	238	0.023	**1.934**	1.07	55.1	ng/L
|	U-235a	235	0.110	**-4.115**	2.16	52.4	ng/L
└>	U 236	236	4914.995				ng/L
	U 236-IS	236	4914.995	**108.273**	1.28	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 18:33:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.199
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	45.826	0.000	
	U	234	13	40.704	0.000	
	U	235	1154	4.143	0.000	
	U	238	77155	1.031	0.000	
	U 232	232	4	66.144	0.000	
⌈	U-tot	238	78326	0.969	0.000	
|	U-238a	238	77155	1.031	0.000	
|	U-235a	235	1154	4.143	0.000	
⌊>	U 236	236	4918	0.687	0.000	
	U 236-IS	236	4918	0.687	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.333				ng/L
	U	234	13.000				ng/L
	U	235	1154.407				ng/L
	U	238	77155.049				ng/L
	U 232	232	4.000				ng/L
⌈	U-tot	238	15.926	**7919.997**	112.35	1.4	ng/L
|	U-238a	238	15.688	**7851.244**	113.56	1.4	ng/L
|	U-235a	235	0.235	**54.510**	4.86	8.9	ng/L
⌊>	U 236	236	4918.330				ng/L
	U 236-IS	236	4918.330	**108.346**	0.74	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Tuesday, July 26, 2011 18:35:33
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.200
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	57.282	0.000	
	U	234	9	26.964	0.000	
	U	235	567	5.030	0.000	
	U	238	88	14.239	0.000	
	U 232	232	2	50.000	0.000	
┌	U-tot	238	667	3.222	0.000	
│	U-238a	238	88	14.239	0.000	
│	U-235a	235	567	5.030	0.000	
└>	U 236	236	4959	0.845	0.000	
	U 236-IS	236	4959	0.845	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	2.667				ng/L
	U	234	9.333				ng/L
	U	235	567.351				ng/L
	U	238	88.000				ng/L
	U 232	232	2.000				ng/L
┌	U-tot	238	0.135	**-4.992**	2.17	43.4	ng/L
│	U-238a	238	0.018	**-0.828**	1.21	146.5	ng/L
│	U-235a	235	0.114	**-1.962**	2.82	144.0	ng/L
└>	U 236	236	4959.352				ng/L
	U 236-IS	236	4959.352	**109.250**	0.92	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: 469499d10

Sample Date/Time: Tuesday, July 26, 2011 18:37:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469499d10.201
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	2	50.000	0.000	
	U	234	15	26.667	0.000	
	U	235	1419	3.324	0.000	
	U	238	39977	0.603	0.000	
	U 232	232	161	14.567	0.000	
┌	U-tot	238	41413	0.493	0.000	
|	U-238a	238	39977	0.603	0.000	
|	U-235a	235	1419	3.324	0.000	
└>	U 236	236	4531	0.587	0.000	
	U 236-IS	236	4531	0.587	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	2.000				ng/L
	U	234	15.000				ng/L
	U	235	1419.444				ng/L
	U	238	39976.707				ng/L
	U 232	232	161.335				ng/L
┌	U-tot	238	9.139	**4514.096**	49.32	1.1	ng/L
|	U-238a	238	8.822	**4411.028**	51.78	1.2	ng/L
|	U-235a	235	0.313	**91.350**	4.52	4.9	ng/L
└>	U 236	236	4531.462				ng/L
	U 236-IS	236	4531.462	**99.824**	0.59	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: 469499d10D

Sample Date/Time: Tuesday, July 26, 2011 18:40:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469499d10D.202
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	57.282	0.000	
	U	234	19	34.513	0.000	
	U	235	1433	2.520	0.000	
	U	238	40662	1.171	0.000	
	U 232	232	99	30.421	0.000	
⌈	U-tot	238	42118	1.229	0.000	
|	U-238a	238	40662	1.171	0.000	
|	U-235a	235	1433	2.520	0.000	
└>	U 236	236	4560	2.023	0.000	
	U 236-IS	236	4560	2.023	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	2.667				ng/L
	U	234	19.000				ng/L
	U	235	1433.446				ng/L
	U	238	40662.411				ng/L
	U 232	232	99.001				ng/L
⌈	U-tot	238	9.237	**4563.011**	72.84	1.6	ng/L
|	U-238a	238	8.918	**4458.813**	70.14	1.6	ng/L
|	U-235a	235	0.314	**91.866**	2.64	2.9	ng/L
└>	U 236	236	4560.477				ng/L
	U 236-IS	236	4560.477	**100.463**	2.03	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d10

Sample Date/Time: Tuesday, July 26, 2011 18:42:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469500d10.203
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	15	30.551	0.000	
	U	234	26	2.192	0.000	
	U	235	779	3.019	0.000	
	U	238	16059	0.235	0.000	
	U 232	232	298	4.511	0.000	
⌈	U-tot	238	16880	0.331	0.000	
|	U-238a	238	16059	0.235	0.000	
|	U-235a	235	779	3.019	0.000	
└>	U 236	236	4489	0.624	0.000	
	U 236-IS	236	4489	0.624	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	15.000				ng/L
	U	234	26.333				ng/L
	U	235	779.033				ng/L
	U	238	16059.172				ng/L
	U 232	232	297.672				ng/L
⌈	U-tot	238	3.760	**1814.677**	12.90	0.7	ng/L
|	U-238a	238	3.578	**1783.005**	10.80	0.6	ng/L
|	U-235a	235	0.174	**25.801**	2.74	10.6	ng/L
└>	U 236	236	4488.775				ng/L
	U 236-IS	236	4488.775	**98.883**	0.62	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d10D

Sample Date/Time: Tuesday, July 26, 2011 18:44:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469500d10D.204
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	10	21.534	0.000	
U	234	21	12.599	0.000	
U	235	823	2.549	0.000	
U	238	16206	0.689	0.000	
U 232	232	275	8.704	0.000	
┌ U-tot	238	17060	0.727	0.000	
| U-238a	238	16206	0.689	0.000	
| U-235a	235	823	2.549	0.000	
└> U 236	236	4329	1.721	0.000	
U 236-IS	236	4329	1.721	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	9.667				ng/L
U	234	21.000				ng/L
U	235	823.371				ng/L
U	238	16205.765				ng/L
U 232	232	275.338				ng/L
┌ U-tot	238	3.941	**1905.281**	25.50	1.3	ng/L
| U-238a	238	3.744	**1866.185**	22.73	1.2	ng/L
| U-235a	235	0.190	**33.621**	2.90	8.6	ng/L
└> U 236	236	4329.364				ng/L
U 236-IS	236	4329.364	**95.372**	1.64	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 469501d10

Sample Date/Time: Tuesday, July 26, 2011 18:47:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469501d10.205
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	12	52.755	0.000	
	U	234	27	20.653	0.000	
	U	235	1285	2.249	0.000	
	U	238	35696	0.989	0.000	
	U 232	232	166	12.909	0.000	
┌	U-tot	238	37020	1.014	0.000	
│	U-238a	238	35696	0.989	0.000	
│	U-235a	235	1285	2.249	0.000	
└>	U 236	236	4260	1.630	0.000	
	U 236-IS	236	4260	1.630	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	12.333				ng/L
	U	234	26.667				ng/L
	U	235	1284.757				ng/L
	U	238	35696.283				ng/L
	U 232	232	165.668				ng/L
┌	U-tot	238	8.691	**4288.935**	28.49	0.7	ng/L
│	U-238a	238	8.380	**4189.344**	29.50	0.7	ng/L
│	U-235a	235	0.302	**85.878**	1.30	1.5	ng/L
└>	U 236	236	4259.998				ng/L
	U 236-IS	236	4259.998	**93.844**	1.53	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 469501d10D

Sample Date/Time: Tuesday, July 26, 2011 18:49:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469501d10D.206
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	25.000	0.000	
	U	234	13	31.225	0.000	
	U	235	1346	2.297	0.000	
	U	238	39874	0.794	0.000	
	U 232	232	217	14.434	0.000	
┌	U-tot	238	41238	0.683	0.000	
│	U-238a	238	39874	0.794	0.000	
│	U-235a	235	1346	2.297	0.000	
└>	U 236	236	4315	1.832	0.000	
	U 236-IS	236	4315	1.832	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.000				ng/L
	U	234	13.333				ng/L
	U	235	1346.433				ng/L
	U	238	39874.260				ng/L
	U 232	232	217.003				ng/L
┌	U-tot	238	9.558	**4724.255**	91.35	1.9	ng/L
│	U-238a	238	9.242	**4621.303**	89.91	1.9	ng/L
│	U-235a	235	0.312	**90.812**	4.40	4.8	ng/L
└>	U 236	236	4315.358				ng/L
	U 236-IS	236	4315.358	**95.063**	1.74	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 469506d10

Sample Date/Time: Tuesday, July 26, 2011 18:51:47
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\469506d10.207
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	15.746	0.000	
	U	234	15	15.746	0.000	
	U	235	1383	3.038	0.000	
	U	238	37660	0.594	0.000	
	U 232	232	140	22.913	0.000	
⌈	U-tot	238	39062	0.672	0.000	
|	U-238a	238	37660	0.594	0.000	
|	U-235a	235	1383	3.038	0.000	
└>	U 236	236	4311	0.904	0.000	
	U 236-IS	236	4311	0.904	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	14.667				ng/L
	U	235	1383.439				ng/L
	U	238	37659.845				ng/L
	U 232	232	140.001				ng/L
⌈	U-tot	238	9.062	**4475.396**	64.52	1.4	ng/L
|	U-238a	238	8.737	**4368.242**	58.38	1.3	ng/L
|	U-235a	235	0.321	**94.997**	5.76	6.1	ng/L
└>	U 236	236	4310.688				ng/L
	U 236-IS	236	4310.688	**94.960**	0.86	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, July 26, 2011 18:54:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\zzz.208
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	3	57.735	0.000	
U	234	14	17.558	0.000	
U	235	537	1.290	0.000	
U	238	118	12.936	0.000	
U 232	232	6	26.956	0.000	
U-tot	238	673	1.264	0.000	
U-238a	238	118	12.936	0.000	
U-235a	235	537	1.290	0.000	
U 236	236	4510	0.754	0.000	
U 236-IS	236	4510	0.754	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	3.000				ng/L
U	234	14.333				ng/L
U	235	537.016				ng/L
U	238	118.334				ng/L
U 232	232	5.667				ng/L
U-tot	238	0.149	**2.331**	1.32	56.4	ng/L
U-238a	238	0.026	**3.432**	1.68	49.0	ng/L
U-235a	235	0.119	**0.229**	1.10	481.8	ng/L
U 236	236	4510.119				ng/L
U 236-IS	236	4510.119	**99.353**	0.75	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, July 26, 2011 18:56:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\critotU.209
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	13.323	0.000	
	U	234	9	0.000	0.000	
	U	235	548	1.595	0.000	
	U	238	452	3.432	0.000	
	U 232	232	2	69.282	0.000	
┌	U-tot	238	1013	2.428	0.000	
|	U-238a	238	452	3.432	0.000	
|	U-235a	235	548	1.595	0.000	
└>	U 236	236	4496	1.207	0.000	
	U 236-IS	236	4496	1.207	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.333				ng/L
	U	234	9.000				ng/L
	U	235	547.683				ng/L
	U	238	451.678				ng/L
	U 232	232	1.667				ng/L
┌	U-tot	238	0.225	**40.509**	1.40	3.5	ng/L
|	U-238a	238	0.100	**40.619**	1.14	2.8	ng/L
|	U-235a	235	0.122	**1.514**	0.22	14.8	ng/L
└>	U 236	236	4495.778				ng/L
	U 236-IS	236	4495.778	**99.038**	1.20	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Tuesday, July 26, 2011 18:58:46
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\cri235.210
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	47.889	0.000	
	U	234	18	47.467	0.000	
	U	235	573	8.433	0.000	
	U	238	6568	1.594	0.000	
	U 232	232	9	43.684	0.000	
┌	U-tot	238	7166	0.694	0.000	
│	U-238a	238	6568	1.594	0.000	
│	U-235a	235	573	8.433	0.000	
└>	U 236	236	4500	1.872	0.000	
	U 236-IS	236	4500	1.872	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.333				ng/L
	U	234	18.000				ng/L
	U	235	573.351				ng/L
	U	238	6567.705				ng/L
	U 232	232	8.667				ng/L
┌	U-tot	238	1.593	**726.868**	11.92	1.6	ng/L
│	U-238a	238	1.460	**721.738**	12.48	1.7	ng/L
│	U-235a	235	0.128	**4.189**	5.75	137.2	ng/L
└>	U 236	236	4499.780				ng/L
	U 236-IS	236	4499.780	**99.126**	1.86	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, July 26, 2011 19:01:06
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccv.211
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	17	38.413	0.000	
	U	234	29	21.314	0.000	
	U	235	1020	2.066	0.000	
	U	238	70419	0.478	0.000	
	U 232	232	16	7.370	0.000	
⌈	U-tot	238	71485	0.451	0.000	
|	U-238a	238	70419	0.478	0.000	
|	U-235a	235	1020	2.066	0.000	
⌊>	U 236	236	4441	1.019	0.000	
	U 236-IS	236	4441	1.019	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	17.333				ng/L
	U	234	28.667				ng/L
	U	235	1020.057				ng/L
	U	238	70418.685				ng/L
	U 232	232	15.667				ng/L
⌈	U-tot	238	16.097	**8005.988**	95.58	1.2	ng/L
|	U-238a	238	15.857	**7936.104**	95.78	1.2	ng/L
|	U-235a	235	0.230	**52.133**	1.26	2.4	ng/L
⌊>	U 236	236	4441.085				ng/L
	U 236-IS	236	4441.085	**97.833**	1.00	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Tuesday, July 26, 2011 19:03:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 July 2\ccb.212
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	19	22.942	0.000	
	U	234	24	7.217	0.000	
	U	235	531	5.348	0.000	
	U	238	108	6.989	0.000	
	U 232	232	18	11.783	0.000	
┌	U-tot	238	682	4.087	0.000	
│	U-238a	238	108	6.989	0.000	
│	U-235a	235	531	5.348	0.000	
└>	U 236	236	4395	1.958	0.000	
	U 236-IS	236	4395	1.958	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	19.000				ng/L
	U	234	24.000				ng/L
	U	235	530.682				ng/L
	U	238	108.334				ng/L
	U 232	232	17.667				ng/L
┌	U-tot	238	0.155	**5.340**	1.94	36.4	ng/L
│	U-238a	238	0.025	**2.632**	0.70	26.5	ng/L
│	U-235a	235	0.121	**0.995**	2.17	218.1	ng/L
└>	U 236	236	4394.729				ng/L
	U 236-IS	236	4394.729	**96.812**	1.90	2.0	%R

SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 5/Feb 10

☒ 6020 TAP No. 01-0406-046 Rev14/Jan 11

☐ 6020a TAP No. 01-0406-046 Rev14/Jan 11

☐ TAP No. 01-0406-148 Rev0/Apr07

☐ Other________________________

ICP-MS CALIB. STD. ID's — **TVs**

Utot / U238/U23

S0	11-083-09	
STD. 1	11-064-02	44984/44572/319
I. STD	11-064-09	0.5ppb
I. STD		

QC STD. ID's

ICV/CCV	11-083-08	7666/7612/54.
UCL	—	—
CRI	11086-01/02	40/39.7/4.9
ICSA	11-080-12	—
ICSAB	11-078-01	20444/20298/145 ng

ANALYSIS

Utot, ~~U235, U238~~ (NN) JR 8/23/11

IDL Date: 08/10/2011
STD's IV, CCS 1-6 expire 10/1/11
STD's Spex, ME 1-4 expire 9/15/11

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16536.05.006	Fluor	110614-8	8/15/11	SO	WC 15 0082 - 15 0086

INSTRUMENT: DRCII

FILENAME: 110815.rep

Analyst: N. Seiler   Date: 8/15/11

☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Monday, August 15, 2011 09:17:40
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 August 1\Daily Performance Check.920
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Michelle Seiler
8/15/11

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	5033.9	5033.928	186.623	3.7
	In	114.9	29068.7	29068.741	419.299	1.4
	U	238.1	14351.1	14351.121	215.786	1.5
[>	Ce	139.9	25574.2	25574.190	176.933	0.7
[	CeO	155.9	1405.3	0.055	0.003	5.1
[>	Ba	137.9	221068.2	221068.174	2879.164	1.3
[	Ba++	69.0	4138.2	0.019	0.000	1.2
	Bkgd	220.0	1.6	1.600	0.596	37.3
	Bkgd	8.5	1.6	1.633	0.582	35.6

Current Optimization File Data

Current Value	Description
0.98	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
9.75	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

8/23/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	7.0	416.0
Co	59	45	8.8	14874.2
In	115	45	10.3	30969.7

010264

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Monday, August 15, 2011 09:17:40
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 August 1\Daily Performance Check.920
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Michelle Seiler
8/15/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	11.925	2752	2058	0.665	
Mg	23.985	23.925	5668	2066	0.664	
Ar2	75.930	75.925	18319	2097	0.687	
In	114.904	114.875	27793	2123	0.690	
Ce	139.905	139.925	33886	2141	0.675	
Pb	207.977	208.025	50476	2177	0.670	
Th	232.038	232.025	56333	2199	0.678	
U	238.050	238.075	57800	2217	0.677	

Report Date/Time: Monday, August 15, 2011 09:24:43

Quantitative Analysis - Summary Report

Sample ID: S-0

Sample Date/Time: Monday, August 15, 2011 10:51:42
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\S-0.923
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	8	30.199	0.000	
U	234	23	21.141	0.000	
U	235	808	2.602	0.000	
U	238	122	11.475	0.000	
U 232	232	19	26.316	0.000	
┌ U-tot	238	962	2.826	0.000	
│ U-238a	238	122	11.475	0.000	
│ U-235a	235	808	2.602	0.000	
└> U 236	236	6970	0.974	0.000	
U 236-IS	236	6970	0.974	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	8.333				ng/L
U	234	23.333				ng/L
U	235	808.369				ng/L
U	238	122.001				ng/L
U 232	232	19.000				ng/L
┌ U-tot	238	0.138				ng/L
│ U-238a	238	0.018				ng/L
│ U-235a	235	0.116				ng/L
└> U 236	236	6970.004				ng/L
U 236-IS	236	6970.004	**100.000**	0.97	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: S-1

Sample Date/Time: Monday, August 15, 2011 10:54:00
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\S-1.924
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	43.589	0.000	
	U	234	63	7.937	0.000	
	U	235	5490	1.028	0.000	
	U	238	604468	0.349	0.000	
	U 232	232	23	5.094	0.000	
┌	U-tot	238	610031	0.350	0.000	
|	U-238a	238	604468	0.349	0.000	
|	U-235a	235	5490	1.028	0.000	
└>	U 236	236	7115	1.649	0.000	
	U 236-IS	236	7115	1.649	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	10.000				ng/L
	U	234	63.000				ng/L
	U	235	5489.657				ng/L
	U	238	604468.204				ng/L
	U 232	232	22.667				ng/L
┌	U-tot	238	85.757	**44984.000**	758.01	1.7	ng/L
|	U-238a	238	84.975	**44572.000**	746.20	1.7	ng/L
|	U-235a	235	0.772	**319.000**	9.81	3.1	ng/L
└>	U 236	236	7114.784				ng/L
	U 236-IS	236	7114.784	**102.077**	1.68	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Monday, August 15, 2011 10:56:18
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\icv.925
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	39.165	0.000	
	U	234	21	16.496	0.000	
	U	235	1644	4.412	0.000	
	U	238	100383	0.624	0.000	
	U 232	232	21	42.857	0.000	
┌	U-tot	238	102058	0.546	0.000	
|	U-238a	238	100383	0.624	0.000	
|	U-235a	235	1644	4.412	0.000	
└>	U 236	236	7201	0.531	0.000	
	U 236-IS	236	7201	0.531	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.667				ng/L
	U	234	21.000				ng/L
	U	235	1644.482				ng/L
	U	238	100382.857				ng/L
	U 232	232	21.000				ng/L
┌	U-tot	238	14.173	**7373.890**	77.43	1.1	ng/L
|	U-238a	238	13.940	**7304.462**	81.97	1.1	ng/L
|	U-235a	235	0.228	**54.639**	4.30	7.9	ng/L
└>	U 236	236	7201.184				ng/L
	U 236-IS	236	7201.184	**103.317**	0.55	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: icb

Sample Date/Time: Monday, August 15, 2011 10:58:37
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\icb.926
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	52.678	0.000	
	U	234	17	45.943	0.000	
	U	235	792	4.484	0.000	
	U	238	148	5.060	0.000	
	U 232	232	19	5.263	0.000	
⌈	U-tot	238	964	3.196	0.000	
|	U-238a	238	148	5.060	0.000	
|	U-235a	235	792	4.484	0.000	
L>	U 236	236	7034	1.430	0.000	
	U 236-IS	236	7034	1.430	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.667				ng/L
	U	234	17.000				ng/L
	U	235	792.035				ng/L
	U	238	148.335				ng/L
	U 232	232	19.000				ng/L
⌈	U-tot	238	0.137	**-0.501**	2.85	567.5	ng/L
|	U-238a	238	0.021	**1.879**	0.41	21.6	ng/L
|	U-235a	235	0.113	**-1.631**	3.06	187.4	ng/L
L>	U 236	236	7033.720				ng/L
	U 236-IS	236	7033.720	**100.914**	1.44	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, August 15, 2011 11:00:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\critotU.927
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	29.038	0.000	
	U	234	13	22.913	0.000	
	U	235	807	1.549	0.000	
	U	238	665	2.301	0.000	
	U 232	232	20	13.229	0.000	
┌	U-tot	238	1495	1.572	0.000	
│	U-238a	238	665	2.301	0.000	
│	U-235a	235	807	1.549	0.000	
└>	U 236	236	7070	0.862	0.000	
	U 236-IS	236	7070	0.862	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	8.667				ng/L
	U	234	13.333				ng/L
	U	235	807.369				ng/L
	U	238	665.358				ng/L
	U 232	232	20.000				ng/L
┌	U-tot	238	0.211	**38.556**	2.58	6.7	ng/L
│	U-238a	238	0.094	**40.193**	1.28	3.2	ng/L
│	U-235a	235	0.114	**-0.876**	1.32	151.2	ng/L
└>	U 236	236	7070.415				ng/L
	U 236-IS	236	7070.415	**101.441**	0.87	0.9	%R

Sample ID: critotU
Report Date/Time: Monday, August 15, 2011 11:01:27

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Monday, August 15, 2011 11:03:18
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\cri235.928
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	26.964	0.000	
	U	234	16	3.535	0.000	
	U	235	894	5.508	0.000	
	U	238	9318	1.778	0.000	
	U 232	232	21	28.255	0.000	
┌	U-tot	238	10237	1.548	0.000	
│	U-238a	238	9318	1.778	0.000	
│	U-235a	235	894	5.508	0.000	
└>	U 236	236	7224	1.555	0.000	
	U 236-IS	236	7224	1.555	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.333				ng/L
	U	234	16.333				ng/L
	U	235	893.711				ng/L
	U	238	9317.774				ng/L
	U 232	232	21.333				ng/L
┌	U-tot	238	1.417	**671.995**	2.03	0.3	ng/L
│	U-238a	238	1.290	**667.485**	2.16	0.3	ng/L
│	U-235a	235	0.124	**3.763**	3.57	94.9	ng/L
└>	U 236	236	7224.203				ng/L
	U 236-IS	236	7224.203	**103.647**	1.61	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: icsa

Sample Date/Time: Monday, August 15, 2011 11:05:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\icsa.929
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	49.487	0.000	
	U	234	19	20.282	0.000	
	U	235	926	3.624	0.000	
	U	238	227	5.724	0.000	
	U 232	232	456	3.529	0.000	
┌	U-tot	238	1179	3.227	0.000	
│	U-238a	238	227	5.724	0.000	
│	U-235a	235	926	3.624	0.000	
└>	U 236	236	8042	2.079	0.000	
	U 236-IS	236	8042	2.079	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.000				ng/L
	U	234	18.667				ng/L
	U	235	925.714				ng/L
	U	238	227.336				ng/L
	U 232	232	456.011				ng/L
┌	U-tot	238	0.147	**4.470**	1.52	33.9	ng/L
│	U-238a	238	0.028	**5.658**	1.01	17.8	ng/L
│	U-235a	235	0.115	**-0.446**	1.11	248.9	ng/L
└>	U 236	236	8042.223				ng/L
	U 236-IS	236	8042.223	**115.383**	2.40	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Monday, August 15, 2011 11:07:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\icsab.930
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	11	62.422	0.000	
	U	234	45	4.660	0.000	
	U	235	3415	1.461	0.000	
	U	238	312137	1.148	0.000	
	U 232	232	324	3.581	0.000	
┌	U-tot	238	315607	1.135	0.000	
│	U-238a	238	312137	1.148	0.000	
│	U-235a	235	3415	1.461	0.000	
└>	U 236	236	8132	0.974	0.000	
	U 236-IS	236	8132	0.974	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	10.667				ng/L
	U	234	44.667				ng/L
	U	235	3414.641				ng/L
	U	238	312136.615				ng/L
	U 232	232	323.672				ng/L
┌	U-tot	238	38.811	**20318.856**	187.27	0.9	ng/L
│	U-238a	238	38.385	**20128.900**	189.09	0.9	ng/L
│	U-235a	235	0.420	**147.822**	1.76	1.2	ng/L
└>	U 236	236	8131.969				ng/L
	U 236-IS	236	8131.969	**116.671**	1.14	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, August 15, 2011 11:10:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\zzz.931
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	4	31.492	0.000	
U	234	15	10.415	0.000	
U	235	778	1.611	0.000	
U	238	129	14.359	0.000	
U 232	232	26	18.412	0.000	
┌ U-tot	238	925	2.408	0.000	
│ U-238a	238	129	14.359	0.000	
│ U-235a	235	778	1.611	0.000	
└> U 236	236	6748	2.236	0.000	
U 236-IS	236	6748	2.236	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	3.667				ng/L
U	234	14.667				ng/L
U	235	778.033				ng/L
U	238	128.668				ng/L
U 232	232	25.667				ng/L
┌ U-tot	238	0.137	**-0.470**	2.82	601.2	ng/L
│ U-238a	238	0.019	**0.821**	1.39	169.9	ng/L
│ U-235a	235	0.115	**-0.311**	2.15	691.3	ng/L
└> U 236	236	6747.838				ng/L
U 236-IS	236	6747.838	**96.813**	2.16	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, August 15, 2011 11:12:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\ccv.932
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	8	41.929	0.000	
	U	234	20	28.005	0.000	
	U	235	1509	3.842	0.000	
	U	238	96775	0.638	0.000	
	U 232	232	19	21.535	0.000	
┌	U-tot	238	98312	0.658	0.000	
|	U-238a	238	96775	0.638	0.000	
|	U-235a	235	1509	3.842	0.000	
└>	U 236	236	6830	1.109	0.000	
	U 236-IS	236	6830	1.109	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.667				ng/L
	U	234	19.667				ng/L
	U	235	1508.792				ng/L
	U	238	96775.388				ng/L
	U 232	232	19.333				ng/L
┌	U-tot	238	14.395	**7490.845**	39.14	0.5	ng/L
|	U-238a	238	14.171	**7425.288**	42.42	0.6	ng/L
|	U-235a	235	0.221	**51.020**	3.35	6.6	ng/L
└>	U 236	236	6829.565				ng/L
	U 236-IS	236	6829.565	**97.985**	1.09	1.1	%R

Page 1
Sample ID: ccv
Report Date/Time: Monday, August 15, 2011 11:13:03

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, August 15, 2011 11:14:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\ccb.933
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	33.333	0.000	
	U	234	14	29.572	0.000	
	U	235	766	5.352	0.000	
	U	238	111	12.392	0.000	
	U 232	232	20	19.876	0.000	
┌	U-tot	238	894	5.695	0.000	
|	U-238a	238	111	12.392	0.000	
|	U-235a	235	766	5.352	0.000	
└>	U 236	236	6675	1.573	0.000	
	U 236-IS	236	6675	1.573	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.000				ng/L
	U	234	13.667				ng/L
	U	235	766.366				ng/L
	U	238	111.334				ng/L
	U 232	232	20.333				ng/L
┌	U-tot	238	0.134	**-2.161**	2.93	135.6	ng/L
|	U-238a	238	0.017	**-0.435**	1.01	230.9	ng/L
|	U-235a	235	0.115	**-0.601**	2.13	354.0	ng/L
└>	U 236	236	6674.783				ng/L
	U 236-IS	236	6674.783	**95.764**	1.51	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 469506d10D

Sample Date/Time: Monday, August 15, 2011 11:20:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469506d10D.934
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	6	16.667	0.000	
U	234	26	25.942	0.000	
U	235	2212	1.018	0.000	
U	238	59854	1.097	0.000	
U 232	232	325	17.523	0.000	
U-tot	238	62098	1.035	0.000	
U-238a	238	59854	1.097	0.000	
U-235a	235	2212	1.018	0.000	
U 236	236	7303	1.575	0.000	
U 236-IS	236	7303	1.575	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	6.000				ng/L
U	234	25.667				ng/L
U	235	2211.602				ng/L
U	238	59854.409				ng/L
U 232	232	324.673				ng/L
U-tot	238	8.503	**4395.048**	25.43	0.6	ng/L
U-238a	238	8.196	**4290.763**	22.57	0.5	ng/L
U-235a	235	0.303	**90.910**	3.56	3.9	ng/L
U 236	236	7303.266				ng/L
U 236-IS	236	7303.266	**104.781**	1.65	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, August 15, 2011 11:22:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\zzz.935
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	93.264	0.000	
	U	234	14	14.523	0.000	
	U	235	788	1.714	0.000	
	U	238	135	8.816	0.000	
	U 232	232	25	34.953	0.000	
┌	U-tot	238	942	1.064	0.000	
|	U-238a	238	135	8.816	0.000	
|	U-235a	235	788	1.714	0.000	
└>	U 236	236	6919	2.084	0.000	
	U 236-IS	236	6919	2.084	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.333				ng/L
	U	234	14.333				ng/L
	U	235	787.701				ng/L
	U	238	135.334				ng/L
	U 232	232	24.667				ng/L
┌	U-tot	238	0.136	**-1.014**	0.76	74.5	ng/L
|	U-238a	238	0.020	**1.074**	0.77	71.9	ng/L
|	U-235a	235	0.114	**-1.037**	1.48	143.1	ng/L
└>	U 236	236	6919.300				ng/L
	U 236-IS	236	6919.300	**99.273**	2.07	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd14

Sample Date/Time: Monday, August 15, 2011 11:24:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\Blankd14.936
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	7	51.626	0.000	
U	234	29	10.070	0.000	
U	235	2371	1.639	0.000	
U	238	61829	0.531	0.000	
U 232	232	141	14.050	0.000	
U-tot	238	64236	0.568	0.000	
U-238a	238	61829	0.531	0.000	
U-235a	235	2371	1.639	0.000	
U 236	236	7096	1.228	0.000	
U 236-IS	236	7096	1.228	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	7.333				ng/L
U	234	28.667				ng/L
U	235	2370.976				ng/L
U	238	61828.544				ng/L
U 232	232	141.334				ng/L
U-tot	238	9.053	**4683.759**	32.70	0.7	ng/L
U-238a	238	8.714	**4562.287**	32.54	0.7	ng/L
U-235a	235	0.334	**106.098**	1.53	1.4	ng/L
U 236	236	7096.102				ng/L
U 236-IS	236	7096.102	**101.809**	1.25	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d14

Sample Date/Time: Monday, August 15, 2011 11:27:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469500d14.937
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	4	58.076	0.000	
U	234	21	5.587	0.000	
U	235	1107	0.887	0.000	
U	238	19650	0.751	0.000	
U 232	232	467	9.193	0.000	
┌ U-tot	238	20782	0.658	0.000	
| U-238a	238	19650	0.751	0.000	
| U-235a	235	1107	0.887	0.000	
└> U 236	236	6735	1.769	0.000	
U 236-IS	236	6735	1.769	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	4.333				ng/L
U	234	20.667				ng/L
U	235	1106.734				ng/L
U	238	19649.881				ng/L
U 232	232	467.012				ng/L
┌ U-tot	238	3.086	**1549.074**	34.02	2.2	ng/L
| U-238a	238	2.918	**1521.906**	33.11	2.2	ng/L
| U-235a	235	0.164	**23.518**	1.06	4.5	ng/L
└> U 236	236	6734.828				ng/L
U 236-IS	236	6734.828	**96.626**	1.71	1.8	%R

010280

Quantitative Analysis - Summary Report

Sample ID: ~~469500d14L df5~~ 469500d14D (EE) 8/15/11

Sample Date/Time: Monday, August 15, 2011 11:29:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469500d14L df5.938
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	10	84.254	0.000	
U	234	23	30.987	0.000	
U	235	1161	0.348	0.000	
U	238	20263	0.246	0.000	
U 232	232	157	9.730	0.000	
U-tot	238	21456	0.312	0.000	
U-238a	238	20263	0.246	0.000	
U-235a	235	1161	0.348	0.000	
U 236	236	6858	1.372	0.000	
U 236-IS	236	6858	1.372	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	9.667				ng/L
U	234	22.667				ng/L
U	235	1160.741				ng/L
U	238	20262.890				ng/L
U 232	232	157.335				ng/L
U-tot	238	3.129	**1571.483**	25.48	1.6	ng/L
U-238a	238	2.955	**1541.165**	23.05	1.5	ng/L
U-235a	235	0.169	**25.914**	1.27	4.9	ng/L
U 236	236	6857.919				ng/L
U 236-IS	236	6857.919	**98.392**	1.35	1.4	%R

Quantitative Analysis - Summary Report

Sample ID:~~469500d14D~~ 469500d14 L df5 (EE) 8/15/11 WS

Sample Date/Time: Monday, August 15, 2011 11:31:40
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469500d14D.939
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	84.548	0.000	
	U	234	16	19.500	0.000	
	U	235	807	2.554	0.000	
	U	238	3991	0.579	0.000	
	U 232	232	111	7.248	0.000	
┌	U-tot	238	4818	0.301	0.000	
|	U-238a	238	3991	0.579	0.000	
|	U-235a	235	807	2.554	0.000	
└>	U 236	236	6591	0.891	0.000	
	U 236-IS	236	6591	0.891	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.333				ng/L
	U	234	15.667				ng/L
	U	235	806.702				ng/L
	U	238	3990.542				ng/L
	U 232	232	110.667				ng/L
┌	U-tot	238	0.731	**311.574**	3.96	1.3	ng/L
|	U-238a	238	0.605	**308.476**	3.06	1.0	ng/L
|	U-235a	235	0.122	**3.117**	1.93	62.0	ng/L
└>	U 236	236	6591.055				ng/L
	U 236-IS	236	6591.055	**94.563**	0.84	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d14AS

Sample Date/Time: Monday, August 15, 2011 11:33:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469500d14AS.940
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

8/15/11 NS (FE) spiked 20 uL of 1° Natural Uranium df 100 ~~Natural~~ ~~uranium~~ (075-Rad-Sol2, 11-064-06) in 5 mL

$\frac{\text{Tot U}}{\text{TU}}$ = 40924 ppt

$\frac{\text{U238}}{\text{TU}}$ = 40632 ppt

$\frac{\text{U235}}{\text{TU}}$ = 290 ppt

8/15/11 NS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	31.604	0.000	
	U	234	49	14.432	0.000	
	U	235	5534	0.645	0.000	
	U	238	566733	0.676	0.000	
	U 232	232	443	4.100	0.000	
┌	U-tot	238	572325	0.667	0.000	
│	U-238a	238	566733	0.676	0.000	
│	U-235a	235	5534	0.645	0.000	
└>	U 236	236	7207	1.153	0.000	
	U 236-IS	236	7207	1.153	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.667				ng/L
	U	234	48.667				ng/L
	U	235	5534.017				ng/L
	U	238	566733.089				ng/L
	U 232	232	442.677				ng/L
┌	U-tot	238	79.414	**41651.234**	236.32	0.6	ng/L
│	U-238a	238	78.638	**41247.209**	229.11	0.6	ng/L
│	U-235a	235	0.768	**317.119**	6.08	1.9	ng/L
└>	U 236	236	7207.189				ng/L
	U 236-IS	236	7207.189	**103.403**	1.19	1.2	%R

Page 1
Sample ID: 469500d14AS
Report Date/Time: Monday, August 15, 2011 11:34:28

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Monday, August 15, 2011 11:36:18
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\zzz.941
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	60.000	0.000	
	U	234	16	19.500	0.000	
	U	235	751	2.796	0.000	
	U	238	257	5.276	0.000	
	U 232	232	35	30.102	0.000	
⌈	U-tot	238	1029	2.965	0.000	
|	U-238a	238	257	5.276	0.000	
|	U-235a	235	751	2.796	0.000	
⌊>	U 236	236	6552	0.218	0.000	
	U 236-IS	236	6552	0.218	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.000				ng/L
	U	234	15.667				ng/L
	U	235	751.031				ng/L
	U	238	257.337				ng/L
	U 232	232	35.000				ng/L
⌈	U-tot	238	0.157	**9.989**	2.33	23.4	ng/L
|	U-238a	238	0.039	**11.424**	1.04	9.1	ng/L
|	U-235a	235	0.115	**-0.669**	1.52	227.7	ng/L
⌊>	U 236	236	6551.693				ng/L
	U 236-IS	236	6551.693	**93.998**	0.21	0.2	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, August 15, 2011 11:38:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\critotU.942
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	24.119	0.000	
	U	234	22	16.952	0.000	
	U	235	805	2.377	0.000	
	U	238	652	3.074	0.000	
	U 232	232	18	19.245	0.000	
⌈	U-tot	238	1486	2.559	0.000	
|	U-238a	238	652	3.074	0.000	
|	U-235a	235	805	2.377	0.000	
L>	U 236	236	6871	0.721	0.000	
	U 236-IS	236	6871	0.721	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.333				ng/L
	U	234	22.333				ng/L
	U	235	805.369				ng/L
	U	238	651.690				ng/L
	U 232	232	18.000				ng/L
⌈	U-tot	238	0.216	**41.081**	2.59	6.3	ng/L
|	U-238a	238	0.095	**40.580**	1.38	3.4	ng/L
|	U-235a	235	0.117	**0.589**	1.17	198.0	ng/L
L>	U 236	236	6870.595				ng/L
	U 236-IS	236	6870.595	**98.574**	0.71	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Monday, August 15, 2011 11:41:00
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\cri235.943
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	31.225	0.000	
	U	234	19	18.232	0.000	
	U	235	881	7.668	0.000	
	U	238	9084	1.927	0.000	
	U 232	232	19	10.767	0.000	
┌	U-tot	238	9990	2.422	0.000	
│	U-238a	238	9084	1.927	0.000	
│	U-235a	235	881	7.668	0.000	
└>	U 236	236	6928	0.833	0.000	
	U 236-IS	236	6928	0.833	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.667				ng/L
	U	234	19.000				ng/L
	U	235	881.043				ng/L
	U	238	9083.537				ng/L
	U 232	232	19.333				ng/L
┌	U-tot	238	1.442	**685.184**	19.92	2.9	ng/L
│	U-238a	238	1.311	**678.761**	14.47	2.1	ng/L
│	U-235a	235	0.127	**5.446**	4.92	90.4	ng/L
└>	U 236	236	6927.639				ng/L
	U 236-IS	236	6927.639	**99.392**	0.83	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, August 15, 2011 11:43:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\ccv.944
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	62.984	0.000	
	U	234	23	23.007	0.000	
	U	235	1547	4.462	0.000	
	U	238	99280	0.829	0.000	
	U 232	232	15	30.821	0.000	
┌	U-tot	238	100853	0.882	0.000	
|	U-238a	238	99280	0.829	0.000	
|	U-235a	235	1547	4.462	0.000	
└>	U 236	236	6870	2.483	0.000	
	U 236-IS	236	6870	2.483	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.667				ng/L
	U	234	23.000				ng/L
	U	235	1546.798				ng/L
	U	238	99279.854				ng/L
	U 232	232	15.333				ng/L
┌	U-tot	238	14.689	**7645.096**	253.80	3.3	ng/L
|	U-238a	238	14.460	**7577.020**	246.20	3.2	ng/L
|	U-235a	235	0.225	**53.204**	7.09	13.3	ng/L
└>	U 236	236	6869.596				ng/L
	U 236-IS	236	6869.596	**98.559**	2.45	2.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, August 15, 2011 11:45:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\ccb.945
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	56.727	0.000	
	U	234	16	28.641	0.000	
	U	235	808	2.593	0.000	
	U	238	132	2.654	0.000	
	U 232	232	20	13.229	0.000	
┌	U-tot	238	962	1.351	0.000	
|	U-238a	238	132	2.654	0.000	
|	U-235a	235	808	2.593	0.000	
└>	U 236	236	6963	0.229	0.000	
	U 236-IS	236	6963	0.229	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.667				ng/L
	U	234	16.000				ng/L
	U	235	808.036				ng/L
	U	238	132.334				ng/L
	U 232	232	20.000				ng/L
┌	U-tot	238	0.138	**0.057**	0.82	1436.5	ng/L
|	U-238a	238	0.019	**0.789**	0.28	35.8	ng/L
|	U-235a	235	0.116	**0.016**	1.34	8471.0	ng/L
└>	U 236	236	6963.332				ng/L
	U 236-IS	236	6963.332	**99.904**	0.23	0.2	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd21

Sample Date/Time: Monday, August 15, 2011 11:47:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\Blankd21.946
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	24.744	0.000	
	U	234	27	25.956	0.000	
	U	235	2413	1.977	0.000	
	U	238	62932	0.642	0.000	
	U 232	232	53	13.996	0.000	
┌	U-tot	238	65377	0.650	0.000	
|	U-238a	238	62932	0.642	0.000	
|	U-235a	235	2413	1.977	0.000	
└>	U 236	236	7488	0.396	0.000	
	U 236-IS	236	7488	0.396	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	27.333				ng/L
	U	235	2412.654				ng/L
	U	238	62932.079				ng/L
	U 232	232	52.667				ng/L
┌	U-tot	238	8.731	**4514.578**	13.76	0.3	ng/L
|	U-238a	238	8.404	**4400.029**	14.52	0.3	ng/L
|	U-235a	235	0.322	**100.295**	2.70	2.7	ng/L
└>	U 236	236	7488.083				ng/L
	U 236-IS	236	7488.083	**107.433**	0.42	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d21

Sample Date/Time: Monday, August 15, 2011 11:50:18
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469500d21.947
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	47.186	0.000	
	U	234	25	21.166	0.000	
	U	235	1339	5.678	0.000	
	U	238	26159	0.171	0.000	
	U 232	232	180	13.755	0.000	
┌	U-tot	238	27528	0.179	0.000	
|	U-238a	238	26159	0.171	0.000	
|	U-235a	235	1339	5.678	0.000	
└>	U 236	236	7469	1.527	0.000	
	U 236-IS	236	7469	1.527	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.333				ng/L
	U	234	25.000				ng/L
	U	235	1338.765				ng/L
	U	238	26158.915				ng/L
	U 232	232	180.002				ng/L
┌	U-tot	238	3.686	**1864.276**	30.53	1.6	ng/L
|	U-238a	238	3.503	**1828.658**	30.51	1.7	ng/L
|	U-235a	235	0.179	**30.765**	4.85	15.8	ng/L
└>	U 236	236	7468.734				ng/L
	U 236-IS	236	7468.734	**107.155**	1.64	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: ~~469500d21L df5~~ 469500d21D (EE) 8/15/11 NS

Sample Date/Time: Monday, August 15, 2011 11:52:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469500d21L df5.948
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	20.830	0.000	
	U	234	22	34.780	0.000	
	U	235	1198	4.445	0.000	
	U	238	19111	0.505	0.000	
	U 232	232	205	4.653	0.000	
┌	U-tot	238	20339	0.413	0.000	
│	U-238a	238	19111	0.505	0.000	
│	U-235a	235	1198	4.445	0.000	
└>	U 236	236	7438	0.426	0.000	
	U 236-IS	236	7438	0.426	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.333				ng/L
	U	234	22.333				ng/L
	U	235	1198.412				ng/L
	U	238	19111.401				ng/L
	U 232	232	205.002				ng/L
┌	U-tot	238	2.734	**1364.122**	3.15	0.2	ng/L
│	U-238a	238	2.569	**1338.781**	6.18	0.5	ng/L
│	U-235a	235	0.161	**21.937**	3.32	15.1	ng/L
└>	U 236	236	7438.375				ng/L
	U 236-IS	236	7438.375	**106.720**	0.45	0.4	%R

010291

Quantitative Analysis - Summary Report

Sample ID: ~~469500d21D~~ 469500d21L d/5 (EE) 8/15/11 NS

Sample Date/Time: Monday, August 15, 2011 11:54:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469500d21D.949
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	4	58.076	0.000	
	U	234	19	30.308	0.000	
	U	235	922	2.986	0.000	
	U	238	5049	0.895	0.000	
	U 232	232	50	21.149	0.000	
⌈	U-tot	238	5995	1.143	0.000	
|	U-238a	238	5049	0.895	0.000	
|	U-235a	235	922	2.986	0.000	
└>	U 236	236	7342	1.112	0.000	
	U 236-IS	236	7342	1.112	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.333				ng/L
	U	234	19.333				ng/L
	U	235	922.380				ng/L
	U	238	5048.735				ng/L
	U 232	232	49.667				ng/L
⌈	U-tot	238	0.817	**356.554**	9.68	2.7	ng/L
|	U-238a	238	0.688	**351.660**	7.23	2.1	ng/L
|	U-235a	235	0.126	**4.702**	2.44	51.9	ng/L
└>	U 236	236	7341.630				ng/L
	U 236-IS	236	7341.630	**105.332**	1.17	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 469500d21AS

Sample Date/Time: Monday, August 15, 2011 11:57:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469500d21AS.950
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

re-run with 10mL of sample
8/15/11 NS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	66.667	0.000	
	U	234	51	8.900	0.000	
	U	235	5943	0.592	0.000	
	U	238	613718	0.536	0.000	
	U 232	232	156	11.341	0.000	
[	U-tot	238	619715	0.527	0.000	
|	U-238a	238	613718	0.536	0.000	
|	U-235a	235	5943	0.592	0.000	
L>	U 236	236	7479	2.767	0.000	
	U 236-IS	236	7479	2.767	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.000				ng/L
	U	234	50.667				ng/L
	U	235	5942.942				ng/L
	U	238	613718.015				ng/L
	U 232	232	156.001				ng/L
[	U-tot	238	82.901	**43483.388**	1076.38	2.5	ng/L
|	U-238a	238	82.098	**43062.982**	1064.15	2.5	ng/L
|	U-235a	235	0.795	**330.308**	11.00	3.3	ng/L
L>	U 236	236	7478.743				ng/L
	U 236-IS	236	7478.743	**107.299**	2.97	2.8	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, August 15, 2011 11:59:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\zzz.951
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	4	74.182	0.000	
U	234	15	35.919	0.000	
U	235	831	2.018	0.000	
U	238	318	4.880	0.000	
U 232	232	17	32.805	0.000	
┌ U-tot	238	1169	2.955	0.000	
│ U-238a	238	318	4.880	0.000	
│ U-235a	235	831	2.018	0.000	
└> U 236	236	7314	0.519	0.000	
U 236-IS	236	7314	0.519	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	4.333				ng/L
U	234	15.333				ng/L
U	235	831.371				ng/L
U	238	317.672				ng/L
U 232	232	17.333				ng/L
┌ U-tot	238	0.160	**11.430**	2.87	25.1	ng/L
│ U-238a	238	0.043	**13.608**	1.21	8.9	ng/L
│ U-235a	235	0.114	**-1.134**	1.38	121.4	ng/L
└> U 236	236	7314.275				ng/L
U 236-IS	236	7314.275	**104.939**	0.54	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Monday, August 15, 2011 12:02:02
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\critotU.952
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	33.333	0.000	
	U	234	16	27.243	0.000	
	U	235	831	5.135	0.000	
	U	238	696	5.600	0.000	
	U 232	232	11	43.301	0.000	
⌈	U-tot	238	1546	1.479	0.000	
|	U-238a	238	696	5.600	0.000	
|	U-235a	235	831	5.135	0.000	
└>	U 236	236	7430	0.276	0.000	
	U 236-IS	236	7430	0.276	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	3.000				ng/L
	U	234	16.000				ng/L
	U	235	831.038				ng/L
	U	238	696.027				ng/L
	U 232	232	10.667				ng/L
⌈	U-tot	238	0.208	**36.795**	1.86	5.0	ng/L
|	U-238a	238	0.094	**39.962**	2.71	6.8	ng/L
|	U-235a	235	0.112	**-2.020**	2.92	144.5	ng/L
└>	U 236	236	7430.369				ng/L
	U 236-IS	236	7430.369	**106.605**	0.29	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Monday, August 15, 2011 12:04:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\cri235.953
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	31.109	0.000	
	U	234	17	15.563	0.000	
	U	235	918	4.559	0.000	
	U	238	9925	0.610	0.000	
	U 232	232	16	9.352	0.000	
⌈	U-tot	238	10871	0.690	0.000	
|	U-238a	238	9925	0.610	0.000	
|	U-235a	235	918	4.559	0.000	
└>	U 236	236	7455	1.822	0.000	
	U 236-IS	236	7455	1.822	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	10.333				ng/L
	U	234	17.000				ng/L
	U	235	918.380				ng/L
	U	238	9925.082				ng/L
	U 232	232	16.333				ng/L
⌈	U-tot	238	1.458	**693.678**	10.18	1.5	ng/L
|	U-238a	238	1.332	**689.389**	11.96	1.7	ng/L
|	U-235a	235	0.123	**3.473**	1.70	49.0	ng/L
└>	U 236	236	7455.390				ng/L
	U 236-IS	236	7455.390	**106.964**	1.95	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, August 15, 2011 12:06:43
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\ccv.954
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	43.684	0.000	
	U	234	30	20.937	0.000	
	U	235	1714	3.156	0.000	
	U	238	107418	1.102	0.000	
	U 232	232	18	44.096	0.000	
⌈	U-tot	238	109171	1.117	0.000	
|	U-238a	238	107418	1.102	0.000	
|	U-235a	235	1714	3.156	0.000	
└>	U 236	236	7450	1.905	0.000	
	U 236-IS	236	7450	1.905	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	8.667				ng/L
	U	234	30.333				ng/L
	U	235	1714.162				ng/L
	U	238	107417.947				ng/L
	U 232	232	18.000				ng/L
⌈	U-tot	238	14.656	**7627.668**	66.85	0.9	ng/L
|	U-238a	238	14.421	**7556.444**	67.99	0.9	ng/L
|	U-235a	235	0.230	**55.489**	2.24	4.0	ng/L
└>	U 236	236	7449.719				ng/L
	U 236-IS	236	7449.719	**106.883**	2.04	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, August 15, 2011 12:09:02
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\ccb.955
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	55.678	0.000	
	U	234	28	15.568	0.000	
	U	235	868	3.575	0.000	
	U	238	161	8.806	0.000	
	U 232	232	17	30.199	0.000	
⌈	U-tot	238	1067	3.637	0.000	
|	U-238a	238	161	8.806	0.000	
|	U-235a	235	868	3.575	0.000	
L>	U 236	236	7660	0.972	0.000	
	U 236-IS	236	7660	0.972	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	10.000				ng/L
	U	234	28.000				ng/L
	U	235	867.708				ng/L
	U	238	161.001				ng/L
	U 232	232	16.667				ng/L
⌈	U-tot	238	0.139	**0.627**	2.10	334.8	ng/L
|	U-238a	238	0.021	**1.849**	1.01	54.5	ng/L
|	U-235a	235	0.113	**-1.335**	1.44	108.0	ng/L
L>	U 236	236	7659.893				ng/L
	U 236-IS	236	7659.893	**109.898**	1.07	1.0	%R

010298

Quantitative Analysis - Summary Report

Sample ID: 469500d21AS
Sample Date/Time: Monday, August 15, 2011 12:25:15
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469500d21AS.956
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20uL of 1/100 Primary natural uranium (11-064-06, 075-Rad-Sol2) in 10mL

Tot U
TU = 20462 ppt

U238
TU = 20316 ppt 8/15/11

U235
TU = 145 ppt

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	9	11.111	0.000	
	U	234	38	10.861	0.000	
	U	235	3543	1.172	0.000	
	U	238	316987	0.574	0.000	
	U 232	232	358	10.974	0.000	
┌	U-tot	238	320578	0.574	0.000	
|	U-238a	238	316987	0.574	0.000	
|	U-235a	235	3543	1.172	0.000	
└>	U 236	236	7634	1.049	0.000	
	U 236-IS	236	7634	1.049	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	9.000				ng/L
	U	234	38.333				ng/L
	U	235	3543.357				ng/L
	U	238	316987.199				ng/L
	U 232	232	358.340				ng/L
┌	U-tot	238	41.994	**21991.177**	170.22	0.8	ng/L
|	U-238a	238	41.524	**21775.915**	170.73	0.8	ng/L
|	U-235a	235	0.464	**169.344**	1.02	0.6	ng/L
└>	U 236	236	7634.204				ng/L
	U 236-IS	236	7634.204	**109.529**	1.15	1.0	%R

010299

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, August 15, 2011 12:27:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\zzz.957
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	57.282	0.000	
	U	234	17	41.177	0.000	
	U	235	812	3.885	0.000	
	U	238	256	6.287	0.000	
	U 232	232	19	26.543	0.000	
┌	U-tot	238	1090	1.376	0.000	
│	U-238a	238	256	6.287	0.000	
│	U-235a	235	812	3.885	0.000	
└>	U 236	236	7165	0.717	0.000	
	U 236-IS	236	7165	0.717	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.333				ng/L
	U	234	17.000				ng/L
	U	235	811.703				ng/L
	U	238	256.004				ng/L
	U 232	232	19.333				ng/L
┌	U-tot	238	0.152	**7.406**	1.57	21.2	ng/L
│	U-238a	238	0.036	**9.559**	1.06	11.1	ng/L
│	U-235a	235	0.113	**-1.311**	2.54	193.8	ng/L
└>	U 236	236	7165.156				ng/L
	U 236-IS	236	7165.156	**102.800**	0.74	0.7	%R

Page 1
Sample ID: zzz
Report Date/Time: Monday, August 15, 2011 12:28:05

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, August 15, 2011 12:29:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\critotU.958
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	22.913	0.000	
	U	234	18	36.430	0.000	
	U	235	874	3.956	0.000	
	U	238	691	12.101	0.000	
	U 232	232	13	18.875	0.000	
┌	U-tot	238	1590	6.907	0.000	
|	U-238a	238	691	12.101	0.000	
|	U-235a	235	874	3.956	0.000	
└>	U 236	236	7465	2.365	0.000	
	U 236-IS	236	7465	2.365	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.667				ng/L
	U	234	18.000				ng/L
	U	235	874.375				ng/L
	U	238	691.027				ng/L
	U 232	232	13.333				ng/L
┌	U-tot	238	0.213	**39.537**	10.26	26.0	ng/L
|	U-238a	238	0.093	**39.489**	6.96	17.6	ng/L
|	U-235a	235	0.117	**0.585**	3.19	545.0	ng/L
└>	U 236	236	7465.398				ng/L
	U 236-IS	236	7465.398	**107.108**	2.53	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: cri235

Sample Date/Time: Monday, August 15, 2011 12:32:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\cri235.959
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	31.225	0.000	
	U	234	18	8.332	0.000	
	U	235	971	2.880	0.000	
	U	238	10065	1.954	0.000	
	U 232	232	13	13.323	0.000	
┌	U-tot	238	11062	1.538	0.000	
|	U-238a	238	10065	1.954	0.000	
|	U-235a	235	971	2.880	0.000	
└>	U 236	236	7492	2.553	0.000	
	U 236-IS	236	7492	2.553	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.667				ng/L
	U	234	18.333				ng/L
	U	235	971.385				ng/L
	U	238	10065.237				ng/L
	U 232	232	13.000				ng/L
┌	U-tot	238	1.477	**703.386**	11.38	1.6	ng/L
|	U-238a	238	1.344	**695.790**	10.35	1.5	ng/L
|	U-235a	235	0.130	**6.686**	2.98	44.6	ng/L
└>	U 236	236	7491.754				ng/L
	U 236-IS	236	7491.754	**107.486**	2.74	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, August 15, 2011 12:34:37
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\ccv.960
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	28.571	0.000	
	U	234	21	2.706	0.000	
	U	235	1726	1.689	0.000	
	U	238	109887	1.275	0.000	
	U 232	232	14	30.463	0.000	
⌈	U-tot	238	111641	1.261	0.000	
|	U-238a	238	109887	1.275	0.000	
|	U-235a	235	1726	1.689	0.000	
└>	U 236	236	7624	1.145	0.000	
	U 236-IS	236	7624	1.145	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.000				ng/L
	U	234	21.333				ng/L
	U	235	1726.497				ng/L
	U	238	109886.542				ng/L
	U 232	232	13.667				ng/L
⌈	U-tot	238	14.644	**7621.591**	45.54	0.6	ng/L
|	U-238a	238	14.414	**7553.067**	46.93	0.6	ng/L
|	U-235a	235	0.226	**53.732**	1.25	2.3	ng/L
└>	U 236	236	7623.529				ng/L
	U 236-IS	236	7623.529	**109.376**	1.25	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, August 15, 2011 12:36:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\ccb.961
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	7	37.796	0.000	
	U	234	20	12.796	0.000	
	U	235	882	4.607	0.000	
	U	238	140	4.345	0.000	
	U 232	232	16	40.765	0.000	
⌈	U-tot	238	1049	4.119	0.000	
|	U-238a	238	140	4.345	0.000	
|	U-235a	235	882	4.607	0.000	
↳	U 236	236	7696	0.806	0.000	
	U 236-IS	236	7696	0.806	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	7.000				ng/L
	U	234	19.667				ng/L
	U	235	882.376				ng/L
	U	238	140.001				ng/L
	U 232	232	16.333				ng/L
⌈	U-tot	238	0.136	**-0.901**	3.19	354.7	ng/L
|	U-238a	238	0.018	**0.365**	0.48	131.0	ng/L
|	U-235a	235	0.115	**-0.650**	2.68	412.2	ng/L
↳	U 236	236	7695.589				ng/L
	U 236-IS	236	7695.589	**110.410**	0.89	0.8	%R

010304

SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 5/Feb 10

☒ 6020 TAP No. 01-0406-046 Rev14/Jan 11

☐ 6020a TAP No. 01-0406-046 Rev14/Jan 11

☐ TAP No. 01-0406-148 Rev0/Apr07

☐ Other

ICP-MS CALIB. STD. ID's — **TVs**

S0	11-083-09	Tot U/U235/U
STD. 1	11-064-02	44984/44573/
I. STD	11-064-09	0.5ppb
I. STD		

QC STD. ID's

ICV/CCV	11-083-08	7666/7612/54.
UCL		
CRI	11-086-01/02	40/39.7/4.95
ICSA	11-080-12	
ICSAB	11-078-01	20444/20298/145

ANALYSIS (NN) 8/23/11

Utot, ~~U236, U235~~

IDL Date: 08/10/2011
STD's IV, CCS 1-6 expire 10/1/11
STD's Spex, ME 1-4 expire 9/15/11

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526.05.006	Fluor	110614-8	8/15/11	SO	WC 15 0082 - 150086

INSTRUMENT: DRCII

FILENAME: 110815c.rep

Analyst: JJ Seiler

Date: 8 / 15 / 11

☐ CONVERTED (.DAT)

010305

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Monday, August 15, 2011 09:17:40
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 August 1\Daily Performance Check.920
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Michelle Seiler
8/15/11

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24.0	5033.9	5033.928	186.623	3.7
In	114.9	29068.7	29068.741	419.299	1.4
U	238.1	14351.1	14351.121	215.786	1.5
Ce	139.9	25574.2	25574.190	176.933	0.7
CeO	155.9	1405.3	0.055	0.003	5.1
Ba	137.9	221068.2	221068.174	2879.164	1.3
Ba++	69.0	4138.2	0.019	0.000	1.2
Bkgd	220.0	1.6	1.600	0.596	37.3
Bkgd	8.5	1.6	1.633	0.582	35.6

Current Optimization File Data

Current Value	Description
0.98	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
9.75	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

8/23/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	7.0	416.0
Co	59	45	8.8	14874.2
In	115	45	10.3	30969.7

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Monday, August 15, 2011 09:17:40
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 August 1\Daily Performance Check.920
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

Michelle Seiler
8/15/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	11.925	2752	2058	0.665	
Mg	23.985	23.925	5668	2066	0.664	
Ar2	75.930	75.925	18319	2097	0.687	
In	114.904	114.875	27793	2123	0.690	
Ce	139.905	139.925	33886	2141	0.675	
Pb	207.977	208.025	50476	2177	0.670	
Th	232.038	232.025	56333	2199	0.678	
U	238.050	238.075	57800	2217	0.677	

Report Date/Time: Monday, August 15, 2011 09:24:43

Quantitative Analysis - Summary Report

Sample ID: S-0

Sample Date/Time: Monday, August 15, 2011 14:49:50
Sample Description:
Solution Type: Standard
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\S-0.978
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	60.093	0.000	
	U	234	17	13.856	0.000	
	U	235	972	5.077	0.000	
	U	238	154	4.258	0.000	
	U 232	232	24	8.796	0.000	
┌	U-tot	238	1148	3.572	0.000	
│	U-238a	238	154	4.258	0.000	
│	U-235a	235	972	5.077	0.000	
└>	U 236	236	8251	2.020	0.000	
	U 236-IS	236	8251	2.020	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.000				ng/L
	U	234	16.667				ng/L
	U	235	971.719				ng/L
	U	238	154.001				ng/L
	U 232	232	23.667				ng/L
┌	U-tot	238	0.139				ng/L
│	U-238a	238	0.019				ng/L
│	U-235a	235	0.118				ng/L
└>	U 236	236	8251.411				ng/L
	U 236-IS	236	8251.411	**100.000**	2.02	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: S-1

Sample Date/Time: Monday, August 15, 2011 14:52:08
Sample Description:
Solution Type: Standard
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\S-1.979
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	3	57.282	0.000	
	U	234	58	6.020	0.000	
	U	235	6631	2.693	0.000	
	U	238	716319	0.682	0.000	
	U 232	232	26	26.923	0.000	
┌	U-tot	238	723012	0.673	0.000	
|	U-238a	238	716319	0.682	0.000	
|	U-235a	235	6631	2.693	0.000	
└>	U 236	236	8369	0.613	0.000	
	U 236-IS	236	8369	0.613	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	2.667				ng/L
	U	234	58.334				ng/L
	U	235	6631.419				ng/L
	U	238	716319.309				ng/L
	U 232	232	26.000				ng/L
┌	U-tot	238	86.398	**44984.000**	570.23	1.3	ng/L
|	U-238a	238	85.598	**44572.000**	569.77	1.3	ng/L
|	U-235a	235	0.792	**319.000**	9.40	2.9	ng/L
└>	U 236	236	8368.850				ng/L
	U 236-IS	236	8368.850	**101.423**	0.62	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Monday, August 15, 2011 14:54:26
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\icv.980
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	33.333	0.000	
	U	234	27	9.799	0.000	
	U	235	1941	4.110	0.000	
	U	238	121161	0.952	0.000	
	U 232	232	34	15.242	0.000	
┌	U-tot	238	123136	0.957	0.000	
|	U-238a	238	121161	0.952	0.000	
|	U-235a	235	1941	4.110	0.000	
└>	U 236	236	8352	0.543	0.000	
	U 236-IS	236	8352	0.543	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	6.000				ng/L
	U	234	27.000				ng/L
	U	235	1941.207				ng/L
	U	238	121161.442				ng/L
	U 232	232	33.667				ng/L
┌	U-tot	238	14.744	**7616.647**	115.64	1.5	ng/L
|	U-238a	238	14.508	**7546.405**	113.05	1.5	ng/L
|	U-235a	235	0.232	**54.247**	4.78	8.8	ng/L
└>	U 236	236	8351.835				ng/L
	U 236-IS	236	8351.835	**101.217**	0.55	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: icb

Sample Date/Time: Monday, August 15, 2011 14:56:45
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\icb.981
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	26.458	0.000	
	U	234	22	12.026	0.000	
	U	235	971	1.500	0.000	
	U	238	171	4.319	0.000	
	U 232	232	26	15.347	0.000	
┌	U-tot	238	1174	1.485	0.000	
|	U-238a	238	171	4.319	0.000	
|	U-235a	235	971	1.500	0.000	
└>	U 236	236	8277	0.679	0.000	
	U 236-IS	236	8277	0.679	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	10.000				ng/L
	U	234	22.000				ng/L
	U	235	971.385				ng/L
	U	238	170.668				ng/L
	U 232	232	26.333				ng/L
┌	U-tot	238	0.142	**1.408**	1.39	98.4	ng/L
|	U-238a	238	0.021	**1.013**	0.53	52.6	ng/L
|	U-235a	235	0.117	**-0.170**	0.87	514.2	ng/L
└>	U 236	236	8277.100				ng/L
	U 236-IS	236	8277.100	**100.311**	0.68	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, August 15, 2011 14:59:04
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\critotU.982
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	11	24.052	0.000	
	U	234	20	8.660	0.000	
	U	235	979	0.966	0.000	
	U	238	763	5.720	0.000	
	U 232	232	34	20.863	0.000	
┌	U-tot	238	1773	2.507	0.000	
│	U-238a	238	763	5.720	0.000	
│	U-235a	235	979	0.966	0.000	
└>	U 236	236	8318	1.142	0.000	
	U 236-IS	236	8318	1.142	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	11.000				ng/L
	U	234	20.000				ng/L
	U	235	978.719				ng/L
	U	238	763.365				ng/L
	U 232	232	33.667				ng/L
┌	U-tot	238	0.213	**38.630**	4.07	10.5	ng/L
│	U-238a	238	0.092	**38.095**	3.29	8.6	ng/L
│	U-235a	235	0.118	**-0.021**	0.83	4025.1	ng/L
└>	U 236	236	8317.804				ng/L
	U 236-IS	236	8317.804	**100.805**	1.15	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: cri235
Sample Date/Time: Monday, August 15, 2011 15:01:26
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\cri235.983
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	9	43.684	0.000	
U	234	25	24.771	0.000	
U	235	1033	2.762	0.000	
U	238	11188	0.753	0.000	
U 232	232	33	33.045	0.000	
┌ U-tot	238	12255	0.852	0.000	
│ U-238a	238	11188	0.753	0.000	
│ U-235a	235	1033	2.762	0.000	
└> U 236	236	8355	0.914	0.000	
U 236-IS	236	8355	0.914	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	8.667				ng/L
U	234	24.667				ng/L
U	235	1033.392				ng/L
U	238	11188.214				ng/L
U 232	232	33.333				ng/L
┌ U-tot	238	1.467	**692.370**	7.02	1.0	ng/L
│ U-238a	238	1.339	**687.726**	6.57	1.0	ng/L
│ U-235a	235	0.124	**2.814**	1.16	41.3	ng/L
└> U 236	236	8355.171				ng/L
U 236-IS	236	8355.171	**101.257**	0.93	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: icsa

Sample Date/Time: Monday, August 15, 2011 15:03:46
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\icsa.984
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	15	22.904	0.000	
	U	234	25	23.755	0.000	
	U	235	920	2.595	0.000	
	U	238	219	2.511	0.000	
	U 232	232	491	8.815	0.000	
┌	U-tot	238	1179	1.589	0.000	
│	U-238a	238	219	2.511	0.000	
│	U-235a	235	920	2.595	0.000	
└>	U 236	236	8086	1.360	0.000	
	U 236-IS	236	8086	1.360	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	15.333				ng/L
	U	234	24.667				ng/L
	U	235	919.713				ng/L
	U	238	219.336				ng/L
	U 232	232	491.013				ng/L
┌	U-tot	238	0.146	**3.482**	1.62	46.6	ng/L
│	U-238a	238	0.027	**4.403**	0.51	11.5	ng/L
│	U-235a	235	0.114	**-1.880**	1.35	72.0	ng/L
└>	U 236	236	8086.262				ng/L
	U 236-IS	236	8086.262	**97.999**	1.33	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Monday, August 15, 2011 15:06:04
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\icsab.985
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
Mass 233	233	9	24.019	0.000	
U	234	43	22.414	0.000	
U	235	3592	0.492	0.000	
U	238	326972	0.572	0.000	
U 232	232	359	4.178	0.000	
U-tot	238	330616	0.573	0.000	
U-238a	238	326972	0.572	0.000	
U-235a	235	3592	0.492	0.000	
U 236	236	8368	1.570	0.000	
U 236-IS	236	8368	1.570	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
Mass 233	233	8.667				ng/L
U	234	43.333				ng/L
U	235	3592.376				ng/L
U	238	326971.655				ng/L
U 232	232	359.340				ng/L
U-tot	238	39.513	**20533.568**	219.53	1.1	ng/L
U-238a	238	39.077	**20342.879**	217.59	1.1	ng/L
U-235a	235	0.429	**147.344**	2.29	1.6	ng/L
U 236	236	8368.184				ng/L
U 236-IS	236	8368.184	**101.415**	1.59	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, August 15, 2011 15:08:41
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\zzz.986
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	6	20.377	0.000	
	U	234	19	7.901	0.000	
	U	235	884	3.133	0.000	
	U	238	158	9.000	0.000	
	U 232	232	43	10.906	0.000	
┌	U-tot	238	1066	2.382	0.000	
|	U-238a	238	158	9.000	0.000	
|	U-235a	235	884	3.133	0.000	
└>	U 236	236	7809	2.182	0.000	
	U 236-IS	236	7809	2.182	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.667				ng/L
	U	234	19.333				ng/L
	U	235	883.710				ng/L
	U	238	157.668				ng/L
	U 232	232	43.333				ng/L
┌	U-tot	238	0.137	**-1.337**	1.99	149.1	ng/L
|	U-238a	238	0.020	**0.777**	0.71	91.9	ng/L
|	U-235a	235	0.113	**-2.128**	2.38	111.9	ng/L
└>	U 236	236	7809.020				ng/L
	U 236-IS	236	7809.020	**94.639**	2.06	2.2	%R

Page 1
Sample ID: zzz
Report Date/Time: Monday, August 15, 2011 15:09:10

010316

Quantitative Analysis - Summary Report

Sample ID: 469498d10AS

Sample Date/Time: Monday, August 15, 2011 15:11:02
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\469498d10AS.987
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

20uL of 1° Natural Uranium (075-Rad-Sol2) @ df 100 (11-064-06) in 10 mL

Utot
TV = 20462 ng/L

U238
TV = 20316 ng/L

U235
TV = 145 ng/L 8/15/11 ND5

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	10	17.321	0.000	
	U	234	54	14.109	0.000	
	U	235	4827	1.610	0.000	
	U	238	380363	1.197	0.000	
	U 232	232	300	2.082	0.000	
┌	U-tot	238	385254	1.193	0.000	
|	U-238a	238	380363	1.197	0.000	
|	U-235a	235	4827	1.610	0.000	
└>	U 236	236	7852	1.031	0.000	
	U 236-IS	236	7852	1.031	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	10.000				ng/L
	U	234	53.667				ng/L
	U	235	4827.282				ng/L
	U	238	380363.182				ng/L
	U 232	232	300.005				ng/L
┌	U-tot	238	49.062	**25513.369**	145.13	0.6	ng/L
|	U-238a	238	48.439	**25218.675**	146.69	0.6	ng/L
|	U-235a	235	0.615	**235.005**	2.36	1.0	ng/L
└>	U 236	236	7852.390				ng/L
	U 236-IS	236	7852.390	**95.164**	0.98	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, August 15, 2011 15:13:23
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\zzz.988
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	78.062	0.000	
	U	234	9	38.490	0.000	
	U	235	834	1.451	0.000	
	U	238	199	7.335	0.000	
	U 232	232	37	23.092	0.000	
┌	U-tot	238	1047	1.437	0.000	
|	U-238a	238	199	7.335	0.000	
|	U-235a	235	834	1.451	0.000	
└>	U 236	236	7300	0.682	0.000	
	U 236-IS	236	7300	0.682	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	5.333				ng/L
	U	234	9.000				ng/L
	U	235	833.705				ng/L
	U	238	198.669				ng/L
	U 232	232	37.000				ng/L
┌	U-tot	238	0.143	**2.219**	1.58	71.3	ng/L
|	U-238a	238	0.027	**4.452**	1.14	25.6	ng/L
|	U-235a	235	0.114	**-1.656**	0.92	55.3	ng/L
└>	U 236	236	7299.596				ng/L
	U 236-IS	236	7299.596	**88.465**	0.60	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, August 15, 2011 15:15:42
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\ccv.989
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	5	49.487	0.000	
	U	234	21	29.166	0.000	
	U	235	1744	4.314	0.000	
	U	238	108804	0.957	0.000	
	U 232	232	20	5.679	0.000	
┌	U-tot	238	110573	0.951	0.000	
|	U-238a	238	108804	0.957	0.000	
|	U-235a	235	1744	4.314	0.000	
└>	U 236	236	7586	1.496	0.000	
	U 236-IS	236	7586	1.496	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	4.667				ng/L
	U	234	20.667				ng/L
	U	235	1743.501				ng/L
	U	238	108803.939				ng/L
	U 232	232	20.333				ng/L
┌	U-tot	238	14.577	**7529.622**	84.95	1.1	ng/L
|	U-238a	238	14.344	**7461.196**	88.33	1.2	ng/L
|	U-235a	235	0.230	**52.988**	3.35	6.3	ng/L
└>	U 236	236	7585.831				ng/L
	U 236-IS	236	7585.831	**91.934**	1.38	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, August 15, 2011 15:18:00
Sample Description:
Solution Type: Sample
Blank File: C:\Elandata\DataSet\11 August 1\Blank.962
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\tot u-236is a.mth
Dataset File: C:\Elandata\DataSet\11 August 1\ccb.990
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	Mass 233	233	2	98.974	0.000	
	U	234	19	18.977	0.000	
	U	235	916	3.080	0.000	
	U	238	142	6.932	0.000	
	U 232	232	30	34.430	0.000	
┌	U-tot	238	1080	2.620	0.000	
|	U-238a	238	142	6.932	0.000	
|	U-235a	235	916	3.080	0.000	
└>	U 236	236	7633	0.727	0.000	
	U 236-IS	236	7633	0.727	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Mass 233	233	2.333				ng/L
	U	234	19.000				ng/L
	U	235	916.046				ng/L
	U	238	142.334				ng/L
	U 232	232	29.667				ng/L
┌	U-tot	238	0.141	**1.194**	1.59	133.3	ng/L
|	U-238a	238	0.019	**-0.019**	0.62	3234.8	ng/L
|	U-235a	235	0.120	**1.080**	1.58	146.3	ng/L
└>	U 236	236	7633.203				ng/L
	U 236-IS	236	7633.203	**92.508**	0.67	0.7	%R

010320

Standard Logs and Certificates of Analysis

BOOK / PAGE__03 0038__________ Book I.D:_10-0406-017____

Southwest Research Institute®
6220 Culebra Rd.
San Antonio, Texas 78238

Radioactive Standards Log

Standard : 038RadSOL3

Vendor(s) : NIST

Radionuclide(s) : Tc99

Source I.D. : SRM4288a
034RadSOL1

Dilution : Secondary

Procedure :

20mL of 034RadSOL1 was diluted to a final volume of 200mL with 2.5% nitric acid (Inorg #9052, exp: 11/2013).

$$\frac{20mL \times 9993.1\ pCi/mL}{200mL} = 999.31\ pCi/mL$$

WAN 07/07/11

Final Activity :	999.31 pCi/mL	Reference Date :	08/27/2004
Date Prepared :	07/07/11	Certification Date :	07/08/11
Prepared By :	WAN	Re-Certification Date :	07/08/12
Reviewed By :		Date:	07/11/11

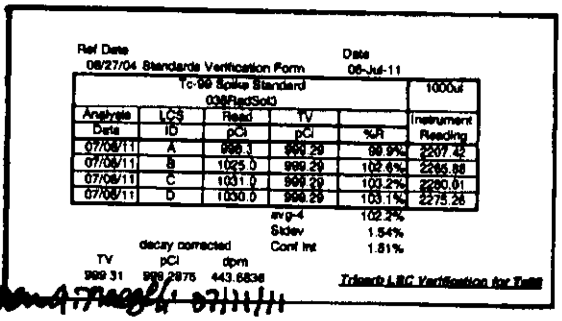
FRM-059 (Rev 1/Apr 10)

BOOK / PAGE__03 0039__________ Book I.D:_10-0406-017____

Southwest Research Institute®
6220 Culebra Rd.
San Antonio, Texas 78238

Radioactive Standards Log

Standard Verification(s) :



Ref Date
08/27/04 Standards Verification Form

Date
08-Jul-11

Tc-99 Spike Standard 038RadSol3					1000ul
Analysis Date	LCS ID	Read pCi	TV pCi	%R	Instrument Reading
07/08/11	A	998.3	999.29	99.9%	2207.42
07/08/11	B	1025.0	999.29	102.6%	2265.88
07/08/11	C	1031.0	999.29	103.2%	2280.01
07/08/11	D	1030.0	999.29	103.1%	2275.26
			avg-4	102.2%	
			Stdev	1.54%	
			Conf Int	1.81%	

decay corrected

TV	pCi	dpm
999.31	999.2875	443.6836

Tricarb LSC Verification for Tc99

07/11/11

WAN 07/11/11

FRM-059 (Rev 1/Apr 10)

010323

National Institute of Standards & Technology

Certificate

Standard Reference Material 4288A
Technetium-99 Radioactivity Standard

DATE RECEIVED: 9/25/01
DATE EXPIRED: Sept 2006 OK
DATE OPENED: 10/1/01
INDEX: 3082 PO: C[illegible]

This Standard Reference Material (SRM) consists of radioactive technetium-99, as potassium pertechnetate, and potassium hydroxide dissolved in 5 mL of distilled water. The solution is contained in a flame-sealed NIST borosilicate-glass ampoule. The SRM is intended for the calibration of beta-particle counting instruments and for the monitoring of radiochemical procedures.

Radiological Hazard

The SRM ampoule contains technetium-99 with a total activity of approximately 160 kBq. Technetium-99 decays by beta-particle emission. None of the beta particles escape from the SRM ampoule. During the decay process no photons are emitted. Approximate unshielded dose rates at several distances (as of the reference time) are given in note [a]*. There is no detectable external radiation. The SRM should be used only by persons qualified to handle radioactive material.

Chemical Hazard

The SRM ampoule contains potassium hydroxide (KOH) with a concentration of 0.001 moles per liter of water. The solution is mildly corrosive and could represent a health hazard if it comes in contact with eyes or skin. If the ampoule is to be opened to transfer the solution, the recommended procedure is given on page 2.

Storage and Handling

The SRM should be stored and used at a temperature between 5 and 65 °C. The solution in an unopened ampoule should remain stable and homogeneous until at least September 2006.

The ampoule (or any subsequent container) should always be clearly marked as containing radioactive material. If the ampoule is transported it should be packed, marked, labeled, and shipped in accordance with the applicable national, international, and carrier regulations. The solution in the ampoule is a dangerous good (hazardous material) because of the radioactivity.

Preparation

This Standard Reference Material was prepared in the Physics Laboratory, Ionizing Radiation Division, Radioactivity Group, J.M.R. Hutchinson, Group Leader. The overall technical direction and physical measurements leading to certification were provided by L.L. Lucas of the Radioactivity Group.

The support aspects involved in the preparation, certification, and issuance of this SRM were coordinated through the Standard Reference Materials Program by N.M. Trahey.

Gaithersburg, Maryland 20899
October 1996 (Text only revised November 1997)

Thomas E. Gills, Chief
Standard Reference Materials Program

*Notes and references are on pages 5 and 6.

010324

Recommended Procedure for Opening the SRM Ampoule

1) If the SRM solution is to be diluted, it is recommended that the diluting solution have a composition comparable to that of the SRM solution.

2) Wear eye protection, gloves, and protective clothing and work over a tray with absorbent paper in it.

3) Shake the ampoule to wet all of the inside surface of the ampoule. Return the ampoule to the upright position.

4) Check that all of the liquid has drained out of the neck of the ampoule. If necessary, gently tap the neck to speed the process.

5) Holding the ampoule upright, score the narrowest part of the neck with a scribe or diamond pencil.

6) Lightly wet the scored line. This reduces the crack propagation velocity and makes for a cleaner break.

7) Hold the ampoule upright with a paper towel, a wiper, or a support jig. Position the scored line away from you. Using a paper towel or wiper to avoid contamination, snap off the top of the ampoule by pressing the narrowest part of the neck away from you while pulling the tip of the ampoule towards you.

8) Transfer the solution from the ampoule using a pycnometer or a pipet with dispenser handle. NEVER PIPETTE BY MOUTH.

9) Seal any unused SRM solution in a flame-sealed glass ampoule, if possible, to minimize the evaporation loss. See also reference [4]*.

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*Notes and references are on page 5 and 6.

PROPERTIES OF SRM 4288A
(Certified values are shown in bold type)

Source identification number	NIST SRM 4288A		
Physical Properties:			
Source description	Liquid in flame-sealed NIST borosilicate-glass ampoule		
Ampoule specifications	Body outside diameter (16.5 ± 0.5) mm Wall Thickness (0.60 ± 0.04) mm Barium content Less than 2.5% Lead-oxide content Less than 0.02% Other heavy elements Trace quantities		
Solution density	(0.998 ± 0.002) g·mL^{-1} at 21 °C [b]*		
Solution mass	(4.998 ± 0.002) g [b]		
Chemical Properties:			
Solution composition	Chemical Formula	Concentration (mol·L^{-1})	Mass Fraction (g·g^{-1})
	H_2O KOH $K^{99}TcO_4$	55 0.001 0.0005	1.00 0.00006 0.0001
Radiological Properties:			
Radionuclide	Technetium-99		
Reference time	1200 EST, 1 September 1996		
Massic activity of the solution [c]	32.61 kBq·g^{-1}		
Relative expanded uncertainty (k=2)	1.14% [d] [e]		
Photon-emitting impurities	None detected [f]		
Half lives used in the decay corrections	Cobalt-60: (5.2714 ± 0.0005) a [g] Technetium-99: (2.111 ± 0.012) × 10^5 a [g]		
Measuring instrument	NIST 4πβ(LS)-γ-anticoincidence counting system using cobalt-60 as the efficiency-tracing radionuclide. The efficiency was varied electronically from 50 to 93 percent.		

*Notes and references are on pages 5 and 6.

EVALUATION OF THE UNCERTAINTY OF THE MASSIC ACTIVITY [d]*

Input Quantity x_i, the source of uncertainty (and individual uncertainty components where appropriate)	Method Used To Evaluate $u(x_i)$, the standard uncertainty of x_i (A) denotes evaluation by statistical methods (B) denotes evaluation by other methods	Relative Uncertainty Of Input Quantity, $u(x_i)/x_i$, (%) [h]	Relative Sensitivity Factor, $\lvert \partial y/\partial x_i \rvert \cdot (x_i/y)$ [i]	Relative Uncertainty Of Output Quantity, $u_i(y)/y$, (%) [j]
Extrapolated massic liquid-scintillation count rate of the Tc-99 solution, corrected for background, Co-60 tracer count rate, and decay.	Standard deviation of the mean for 4 sets of repeated measurements on each of 3 samples (A)	0.10	1.0	0.10
Half life of Co-60 Half life of Tc-99	Standard uncertainty of the half life (A)	0.01 [k] 0.6 [k]	0.01 [m] 0.000005	0.0001 0.000003
Decay scheme data	Standard uncertainty of the probability of decay by beta-particle emission (A)	0.01	1.0	0.01
Extrapolation of the beta-particle-count-rate versus anticoincidence-gamma-ray-count-rate to zero anticoincidence-gamma-ray-count-rate	Estimated (B)	0.40	1.0	0.40
Calibration of the Co-60 tracer solution using the $4\pi\beta$(LS)-γ-anticoincidence counting system	Standard uncertainty of the extrapolated massic count rate (B)	0.25	1.0	0.25
Gravimetric measurements	Estimated (B)	0.20	1.0	0.20
Live time [n]	Estimated (B)	0.10	1.0	0.10
Variability between ampoules	Estimated (B)	0.20	1.0	0.20
Photon-emitting impurities	Limit of detection (B) [p]	100.	0.00004	0.004

Relative Combined Standard Uncertainty of the Output Quantity, $u_c(y)/y$, (%)	0.57
Coverage Factor, k	x2
Relative Expanded Uncertainty of the Output Quantity, U/y, (%)	1.14

*Notes and references are on pages 5 and 6.

NOTES

[a] The Sievert is the SI unit for dose equivalent. See reference [1]. One μSv is equal to 0.1 mrem.

Distance from Ampoule (cm):	1	30	100
Approximate Dose Rate (μSv/h):	<0.1		(Not detectable)

[b] The stated uncertainty is two times the standard uncertainty.

[c] Massic activity is the preferred name for the quantity activity divided by the total mass of the sample. See reference [1].

[d] The reported value, y, of massic activity (activity per unit mass) at the reference time was not measured directly but was derived from measurements and calculations of other quantities. This can be expressed as $y = f(x_1, x_2, x_3, \ldots x_n)$, where f is a mathematical function derived from the assumed model of the measurement process.

The value, x_i, used for each input quantity i has a standard uncertainty, $u(x_i)$, that generates a corresponding uncertainty in y, $u_i(y) = |\partial y/\partial x_i| \cdot u(x_i)$, called a component of combined standard uncertainty of y.

The combined standard uncertainty of y, $u_c(y)$, is the positive square root of the sum of the squares of the components of combined standard uncertainty.

The combined standard uncertainty is multiplied by a coverage factor of $k = 2$ to obtain U, the expanded uncertainty of y.

Since it can be assumed that the possible estimated values of the massic activity are approximately normally distributed with approximate standard deviation $u_c(y)$, the unknown value of the massic activity is believed to lie in the interval $y \pm U$ with a level of confidence of approximately 95 percent.

For further information on the expression of uncertainties, see references [2] and [3].

[e] The value of each standard uncertainty component, and hence the value of the expanded uncertainty itself, is a best estimate based upon all available information, but is only approximately known. That is to say, the "uncertainty of the uncertainty" is large and not well known. This is true for uncertainties evaluated by statistical methods (e.g., the relative standard deviation of the standard deviation of the mean for the liquid-scintillation counting is approximately 50%) and for uncertainties evaluated by other methods (which could easily be over estimated or under estimated by substantial amounts). The unknown value of the expanded uncertainty is believed to lie in the interval $U/2$ to $2U$ (i.e., within a factor of 2 of the estimated value).

[f] Estimated limits of detection for photon-emitting impurities are:
$2 \times 10^{-4}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 20 and 85 keV,
$2 \times 10^{-5}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 93 and 503 keV,
$1 \times 10^{-5}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 519 and 1457 keV, and
$5 \times 10^{-6}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 1465 and 3250 keV.

[g] The stated uncertainty is the standard uncertainty. See reference [5].

[h] Relative standard uncertainty of the input quantity x_i.

[i] The relative change in the output quantity y divided by the relative change in the input quantity x_i. If $|\partial y/\partial x_i| \cdot (x_i/y) = 1.0$, then a 1% change in x_i results in a 1% change in y. If $|\partial y/\partial x_i| \cdot (x_i/y) = 0.05$, then a 1% change in x_i results in a 0.05% change in y.

[j] Relative component of combined standard uncertainty of output quantity y, rounded to two significant figures or less. The relative component of combined standard uncertainty of y is given by $u_i(y)/y = |\partial y/\partial x_i| \cdot u(x_i)/y = |\partial y/\partial x_i| \cdot (x_i/y) \cdot u(x_i)/x_i$. The numerical values of $u(x_i)/x_i$, $|\partial y/\partial x_i| \cdot (x_i/y)$, and $u_i(y)/y$, all dimensionless quantities, are listed in columns 3, 4, and 5, respectively. Thus, the value in column 5 is equal to the value in column 4 multiplied by the value in column 3. The input quantities are independent, or very nearly so. Hence the covariances are zero or negligible.

[k] The relative standard uncertainty of $\lambda \cdot t$ is determined by the relative standard uncertainty of λ (i.e., of the half life). The relative standard uncertainty of t is negligible.

[m] $|\partial y/\partial x_i| \cdot (x_i/y) = |\lambda \cdot t|$, multiplied by other sensitivity factors where appropriate.

[n] The live time is determined by counting the pulses from a gated crystal-controlled oscillator.

[p] The standard uncertainty for each undetected impurity that might reasonably be expected to be present is estimated to be equal to the estimated limit of detection for that impurity, i.e. $u(x_i)/x_i$ = 100%. $|\partial y/\partial x_i| \cdot (x_i/y)$ = {(response per Bq of impurity)/(response per Bq of Tc-99)}·{(Bq of impurity)/(Bq of Tc-99)}. Thus $u_i(y)/y$ is the relative change in y if the impurity were present with a massic activity equal to the estimated limit of detection.

REFERENCES

[1] International Organization for Standardization (ISO), *ISO Standards Handbook - Quantities and Units*, 1993. Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036, U.S.A. 1-212-642-4900.

[2] International Organization for Standardization (ISO), *Guide to the Expression of Uncertainty in Measurement*, 1993. Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036, U.S.A. 1-212-642-4900. (Listed under ISO miscellaneous publications as "ISO Guide to the Expression 1993".)

[3] B. N. Taylor and C. E. Kuyatt, *Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results*, NIST Technical Note 1297, 1994. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, U.S.A.

[4] National Council on Radiation Protection and Measurements Report No. 58, *A Handbook of Radioactivity Measurements Procedures*, Second Edition, 1985. Available from the National Council on Radiation Protection and Measurements, 7910 Woodmont Avenue, Bethesda, MD 20814 U.S.A.

[5] Evaluated Nuclear Structure Data File (ENSDF), September 1996.

ERA
A Waters Company

Certificate of Analysis

Lot No. P165-977

WasteWatR™ pH

Catalog No. 977
Issue Date: January 5, 2009
Revision Date: Original

Certification

Parameter	Certified Value[1] (s.u.)	Uncertainty[2]	QC PALs™[3] (s.u.)	PT PALs™[4] (s.u.)
pH	7.13	2.8%	6.99 - 7.27	6.93 - 7.33

Analytical Verification

	Round Robin Data[5]			NIST Traceability	
Parameter	Mean (s.u.)	Recovery (%)	n	SRM Number	Recovery (%)
pH	7.13	100%	297	SRM 187e	101%

Please see footnotes on back

INORGANIC LABS/RADCHEM LABS
DATE RECEIVED: 10/23/08
DATE EXPIRED: 03/01/2012
DATE OPENED: 07/01/10 Jcw
INORG: 8301 PO: PE

1. The **Certified Value** is the actual "made-to" concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, times a coverage factor which is equal to the student t factor at a 95% confidance interval at n-1 degrees of freedom.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The **QC PALs™** reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the **QC PALs™** to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the **PT PALs™** when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **Analytical Verification** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. This standard **expires 3/2012.** The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certifiad reference material during the period of validity of this certificete.

If you have any questions or need technical assistance, please cell ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com.

Certifying Officer: Tom Widera

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SOUTHWEST RESEARCH INSTITUTE®

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Chemistry and Chemical Engineering Division
Department of Analytical and Environmental Chemistry

October 31, 2011

Fluor-B&W Portsmouth LLC
3930 U.S. Route 23 South
Bldg. X-1000
Piketon, OH 45661

Attn: Gerald Fulkerson

Subject:		
	Client ID:	FXP02234L04
	SwRI Project Number:	16526.05.00X
	SDG:	473754
	SwRI Task Order Number:	110825-10
	SwRI Sample Receipt Number:	45484, 45511
	Samples Received:	08.23.11, 08.25.11
	Fraction:	Distribution Coefficient Results

Dear Mr. Fulkerson:

Please find the enclosed results for the eleven (11) samples received on the above referenced date. Should you have any questions, please feel free to contact me at 210-522-3242.

Sincerely,

R Spies

Radonna Spies
Group Leader

APPROVED:

Michael J. Dammann
Director

RS:aa

Encl

000001

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110825-10
SRR: 45484, 45511
CASE: FXP02234L04
VTSR: 08.23.11, 08.25.11
PROJECT#: 16526.05.00X

NARRATIVE

Client: Fluor-B&W Portsmouth LLC
SDG: 473754
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110825-10

INORGANICS ANALYSIS

The Distribution Coefficients (K_d) for Tc-99 and Total Uranium (U) were determined using the following modification to ASTM C1733.

The contact solution was be prepared by spiking the client provided Tc-99 contaminated groundwater, which had been filtered through a Whatman #1810-125 acid treated TCLP filter, at 100 ppb Uranium. (Tc-99 groundwaters 749-WPW-03, 749-WPW-04 and 749-WPW-05 were used). Only the minimum volume needed for the sample batch was prepared. Samples were weighted in duplicate for 5 time points (Day 7, Day 10, Day 14, Day 21 and Day X). The method specifies a 1:25 soil to contact solution test ratio; therefore, 200 mL of contact solution was added to 8 g of soil in a 250-mL Nalgene bottle. Samples were tumbled using the TCLP tumbler for 12-hours a day. For each time point, a 200 mL of the contact solution was added to an empty Nalgene and processed alongside the sample as a time point "Blank" for each Day n.

At each time point, the sample duplicates and time point "Blank" were filtered using a Whatman #1810-125 acid treated TCLP filter. The filtrate was preserved with nitric acid and stored for analysis. After the 4th time point (Day 21), all samples and "Blanks" were submitted for Tc-99 and total uranium analysis. Please note that the Day 10 time point was inadvertently pulled on Day 9.

To calculate Kd in C1733, the following equation is used:

$$K_d = \frac{\frac{(C_s \, x \, V) - (C_f \, x \, V)}{m}}{C_f}$$

Where:
Cs = Starting Concentration of analyte of interest in contact solution
Cf = Final Concentration of analyte of interest in contact solution
V = Total Volume of contact liquid (mL)
m = Dry Mass of Solid (g)

For the purposes of this modified analysis at multiple time points, the concentrations of all "Blanks" analyzed were averaged and used as the starting concentration of the contact solution. The samples were not dried prior to the sample analysis; therefore, a percent solids was performed, and the results are reported on a dry weight basis. Therefore, following equation was used:

$$K_d = \frac{\frac{(C_{avg\,blk} \, x \, V) - (C_{day\,x} \, x \, V)}{m \, x \, \% \, soilds}}{C_{day\,x}}$$

Client: Fluor-B&W Portsmouth LLC
SDG: 473754
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110825-10

Where:
$C_{avg\ blk}$ = average "Blank" concentration which represents the starting concentration of analyte of interest in contact solution
$C_{day\ x}$ = concentration of analyte of interest in contact solution at time point x
V = total volume of contact liquid (mL)
m = weight of Solid (g)

In addition to the K_d values, the propagated uncertainties were also calculated. The K_d values and the uncertainties for the sample duplicates were averaged for each time point. By evaluating these values, it was established when the Tc-99 and U sorption equilibrium had been reached. It was determined that all samples had reached equilibrium by Day 21; therefore, the analysis of Day X was not necessary.

The final K_d value reported is an average of all K_d time points values once equilibrium was achieved. With the exception of SwRI ID #473758 (WDSB02-07-4.5), it appeared that equilibrium was reached by the first time point (Day 7). Therefore, the final K_d and uncertainties values are the averages of Days 7-21. Equilibrium wasn't reached until Day 14; average of Days 14 and 21 was reported. Also, SwRI ID #473757 (WDSB02-07-24.5) contained two outliers compared to the time points and replicates; therefore, they were not used in the K_d calculation/

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."

Group Leader

10/28/11
Date

Client: Fluor B&W Portsmouth
SDG: 473754
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110825-10

RADIOLOGICAL ANALYSIS

The sample SDG 473754 consisted of eleven soil samples received for radiological analysis. The soil samples for radiological analysis were reported on an "as received" basis. The recommended sample holding time of six months was met.

The samples were analyzed for the following:

Matrix	Analysis	Method
Soil	^{99}Technetium	Liquid Scintillation Spectroscopy

^{99}Technetium

A 100ml aliquot of each sample fraction was analyzed for ^{99}Technetium. The sample aliquots were digested at 80°C for 4 hours with nitric acid and then one additional hour with hydrogen peroxide. The aliquots were then brought to a final volume of 50ml and then chemically separated using resins. A preparation blank and two laboratory control samples were analyzed with each sample batch. Each sample fraction was analyzed in duplicate.

For all liquid scintillation analysis, the daily instrument performance checks were within the running statistical control limits.

For ^{99}Tc analysis, the ^{99}Tc was separated from the digestion using chemical separation resins. After chemical separation, the resin containing the ^{99}Tc was placed into a liquid scintillation vial and 15 ml of scintillation cocktail was added. The samples were counted on a liquid scintillation counter programmed to count only the ^{99}Tc region of interest. The liquid scintillation counter ^{99}Tc program was standardized using ^{99}Tc as the radioisotope to establish a specific efficiency quench curve. A total of eight preparation blanks and sixteen laboratory control samples were analyzed with the sample batches. All of the results for the preparation blanks were less than 1.65 times the TPU, the MDA, and the RL with the exception of SwRI sample ID PBWK11JV1. The preparation blank result for SwRI sample ID PBWK11JV1 was greater than 1.65 times the TPU, but was less than the MDA and the RL. The results for all of the laboratory control samples were within the recovery control limits of 75-125%. Each sample fraction was analyzed in duplicate and the sample duplicate evaluation ratio was less than three for all duplicates. A matrix spike and matrix spike duplicate were not performed with any of the analyses.

Client: Fluor B&W Portsmouth
SDG: 473754
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110825-10

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Warren A. Naegeli
Research Scientist

10/25/11
Date

Client: Fluor – B&W Portsmouth LLC
SDG: 473754
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110825-10

TOTAL URANIUM ANALYSIS

The acidified leachates were analyzed directly (no digestion was required) for total uranium by ICP-MS. All instrument QC criteria were met. The percent recoveries for the initial and continuing calibration verifications were within 90-110%. Total uranium was not detected above SwRI's reporting limit in the initial and continuing calibration blanks. The low level, CRI standard recoveries were within 50-150%. The percent recoveries for the interference check sample ICSABs were within 80-120%. The internal standard recoveries were within 80-120% for the ICV/CCV/ICB/CCBs and within 30-120% for all samples.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."

Group Leader

10/28/11
Date

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110825-10
SRR: 45484, 45511
CASE: FXP02234L04
VTSR: 08.23.11, 08.25.11
PROJECT#: 16526.05.00X

SAMPLE RECEIPT, TASK ORDER & CHAIN OF CUSTODY

000008

Sample Receipt

Sample Receipt Number: 45484

Southwest Research Institute

VTSR: 08/23/11

Time: 08:30:00

Project: 16526.05.00X
Case #: FXP02234L04
Client: Fluor-B&W Portsmouth LLC

Manager: DAMMANN, MIKE
Logged In by: DRoman
Creation Date: 08/22/11

Notes

Samples were received intact 3.0 °C (blue & wet ice)
Fed Ex Tracking #s:
875591109330
874541431008
875591109340
874541430950

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:
001 - admin
006 - metals
007 - drg
*** DRoman Aug 23 2011 10:24AM ***

Background CPM: <100 cpm
Container Wipe CPM: <100 cpm
Total CPM: <100

System ID	Customer ID	CED	Matrix	Containers	Special Reqs.
473633	231A-01G-03	08/19/11	WG	1	
473634	749-WPW-03	08/19/11	WG	1	

Containers: 2 **Samples: 2**

These documents are associated with this receipt: 106111[COC for SRR 45484], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Thermometer: 027
Temperature: 3.0

Client: Fluor-B&W Ports

SR#: 45484

FRM-002

Page Printed: 31 Oct 2011 9:11:09

ver (9/12/2011)

Sample Receipt

Sample Receipt Number: 45511

Southwest Research Institute

VTSR: 08/25/11

Time: 08:30:00

Project: **16526.05.00X**
Case #: **FXP02234L04**
Client: **Fluor-B&W Portsmouth LLC**

Manager: DAMMANN, MIKE
Logged In by: DRoman
Creation Date: 08/24/11

Notes

Samples were received intact 3.0 °C (blue & wet ice)
Fed Ex Tracking #875591109395

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:
001 - admin
006 - metals
007 - drg
*** DRoman Aug 25 2011 3:05PM ***

Background CPM: <100 cpm
Container Wipe CPM: <100 cpm
Total CPM: <100

System ID	Customer ID	CED	Matrix	Containers	Special Reqs.
473754	WDSB02-07-12.0	08/23/11	SO	1	
473755	WDSB02-07-19.5	08/23/11	SO	1	
473756	WDSB02-07-2.0	08/23/11	SO	1	
473757	WDSB02-07-24.5	08/23/11	SO	1	
473758	WDSB02-07-4.5	08/23/11	SO	1	
473759	WDSB02-09-12.0	08/23/11	SO	1	
473760	WDSB02-09-19.5	08/23/11	SO	1	
473761	WDSB02-09-2.0	08/23/11	SO	1	
473762	WDSB02-09-24.5	08/23/11	SO	1	
473763	WDSB02-09-4.5	08/23/11	SO	1	
473764	WDSB05-04-12.0	08/23/11	SO	1	
473765	WDSB05-04-19.5	08/23/11	SO	1	
473766	WDSB05-04-2.0	08/23/11	SO	1	
473767	WDSB05-04-24.5	08/23/11	SO	1	
473768	WDSB05-07-12.0	08/23/11	SO	1	
473769	WDSB05-07-19.5	08/23/11	SO	1	
473770	WDSB05-07-2.0	08/23/11	SO	1	
473771	WDSB05-07-24.5	08/23/11	SO	1	
473772	WDSB05-07-4.5	08/23/11	SO	1	
473773	WDSB05-09-12.0	08/23/11	SO	1	
473774	WDSB05-09-19.5	08/23/11	SO	1	
473775	WDSB05-09-2.0	08/23/11	SO	1	
473776	WDSB05-09-24.5	08/23/11	SO	1	
473777	WDSB05-09-4.5	08/23/11	SO	1	
473778	WDSB05-22-12.0	08/23/11	SO	1	
473779	WDSB05-23-12.0	08/23/11	SO	1	

Containers: 26 **Samples: 26**

Client: Fluor-B&W Ports
SR#: 4551
FRM-002

000010

Sample Receipt

Sample Receipt Number: 45511

Southwest Research Institute

VTSR: 08/25/11

Time: 08:30:00

Project: 16526.05.00X
Case #: FXP02234L04
Client: Fluor-B&W Portsmouth LLC

Manager: DAMMANN, MIKE
Logged In by: DRoman
Creation Date: 08/24/11

These documents are associated with this receipt: 106185[COC for SRR 45511], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Thermometer: 027
Temperature: 3.0

SR#: 45511 Client: Fluor-B&W Ports

FRM-002

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Sample Receipt

Sample Receipt Number: 45547

Southwest Research Institute

VTSR: 08/30/11

Time: 09:30:00

Project: 16526.05.00X
Case #: FXP02234L04
Client: Fluor-B&W Portsmouth LLC

Manager: DAMMANN, MIKE
Logged In by: DRoman
Creation Date: 08/30/11

Notes

Samples were received intact 3.0 °C (blue & wet ice)
Fed Ex Tracking #s:
875591109682
874541430814
874541430755
874541430803
875591109454

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:
001 - admin
006 - metals
007 - drg
*** DRoman Aug 30 2011 3:15PM ***

Background CPM: <100 cpm
Container Wipe CPM: <100 cpm
Total CPM: <100

System ID	Customer ID	CED	Matrix	Containers	Special Reqs.
474203	231A-01G-04	08/19/11	WG	1	
474204	749-WPW-04	08/19/11	WG	1	
474205	WDSB01-04-12.0	08/27/11	SO	1	
474206	WDSB01-04-19.5	08/27/11	SO	1	
474207	WDSB01-04-2.0	08/26/11	SO	1	
474208	WDSB01-04-24.5	08/27/11	SO	1	
474209	WDSB01-04-4.5	08/26/11	SO	1	
474210	WDSB07-04-12.0	08/25/11	SO	1	
474211	WDSB07-04-4.5	08/25/11	SO	1	
474212	WDSB07-07-12.0	08/25/11	SO	1	
474213	WDSB07-07-2.0	08/25/11	SO	1	
474214	WDSB07-07-4.5	08/25/11	SO	1	
474215	WDSB07-09-12.0	08/25/11	SO	1	
474216	WDSB07-09-2.0	08/25/11	SO	1	
474217	WDSB07-09-4.5	08/25/11	SO	1	
474218	WDSB07-15-4.5	08/25/11	WQ	3	
474219	WDSB09-04-2.0	08/25/11	SO	1	
474220	WDSB09-04-4.5	08/25/11	SO	1	
474221	WDSB09-07-2.0	08/25/11	SO	1	
474222	WDSB09-07-4.5	08/25/11	SO	1	
474223	WDSB09-09-2.0	08/25/11	SO	1	
474224	WDSB09-09-4.5	08/25/11	SO	1	
474225	WDSB09-15-4.5	08/25/11	WQ	3	
474226	WDSB09-28-19.5	08/25/11	WQ	3	

Containers: 30 **Samples: 24**

Client: Fluor-B&W Ports
SR#: 4554
FRM-002

Page Printed: 31 Oct 2011 10:22:18

Sample Receipt

Sample Receipt Number: 45547

Southwest Research Institute

VTSR: 08/30/11

Time: 09:30:00

Project: 16526.05.00X
Case #: FXP02234L04
Client: Fluor-B&W Portsmouth LLC

Manager: DAMMANN, MIKE
Logged In by: DRoman
Creation Date: 08/30/11

These documents are associated with this receipt: 106365[COC for SRR 45547], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Thermometer: 027
Temperature: 3.0

Client: Fluor-B&W Ports SR#: 4554

FRM-002

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ver (9/12/2011)

000013

Sample Receipt

Sample Receipt Number: 45654
Revision: 1
This Receipt was Revised Sep 23 2011 8:42AM

Southwest Research Institute

VTSR: 09/15/11

Time: 08:45:00

Project: 16526.05.00X
Case #: FXP02234L04
Client: Fluor-B&W Portsmouth LLC

Manager: DAMMANN, MIKE
Logged in by: DRoman
Creation Date: 09/14/11

Notes

Samples were received intact 3.0°C (blue & wet ice)
Fed Ex Tracking #s:
874541430218
874541430207
874541430229

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:
001 - admin
006 - metals
007 - drg
*** DRoman Sep 15 2011 10:29AM ***
Rev. 1
Revised matrix from SO to BR
*** DRoman Sep 23 2011 8:42AM ***

Background CPM: <100 cpm
Container Wipe CPM: <100 cpm
Total CPM: <100

System ID	Customer ID	CED	Matrix	Containers	Special Reqs.
475063	749-WPW-05	09/13/11	WG	1	
475064	749-WPW-06	09/13/11	WG	1	
475065	749-WPW-07	09/13/11	WG	1	
475066	WDMW04B-33-BE01	09/13/11	BR	1	
475067	WDMW04B-33-BE10	09/13/11	BR	1	
475068	WDMW04B-33-CU01	09/13/11	BR	1	
475069	WDMW04B-33-CU10	09/13/11	BR	1	
475070	WDMW04B-33-SU01	09/13/11	BR	1	
475071	WDMW04B-33-SU10	09/13/11	BR	1	

Containers: 9 **Samples: 9**

These documents are associated with this receipt: 107011[COC for SRR 45654], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Thermometer: 027
Temperature: 3.0

SR#: 4565 Client: Fluor-B&W Ports

FRM-002

Page Printed: 31 Oct 2011 10:22:29
ver (9/12/2011)

Page 1 of 1

Southwest Research Institute

Laboratory Task Order

TO #: 110825-10 Revision: 1

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 09/20/11
To QA: 09/20/11
To Client: 09/21/11

SDG: 473754
VTSR: 08/25/11
CASE: FXP02234L04

SRR #'s: 45484, 45511
Client(s): Fluor-B&W Portsmouth LLC

Instructions

FLUOR-B&W PORTSMOUTH LLC. SOW FXP02234L04. Project OSDC
SDG is 473754. SDG IS CLOSED.

28-day TAT HARDCOPY. Using 26-day TAT for Report/EDD.
FINAL DATA/HARDCOPY IS DUE TO THE CLIENT ON 09/22/11.

26 overall SO samples (26 containers) received on 08/25/11 for SOW FXP02234L04.
OUT of the 26 samples, only the 11 SOIL samples for DISTRIBUTION COEFFICIENT are listed in this task order.

see SOW for full compound list, CRDLs and RLs:
ASTM C1733 Distribution Coefficients
Tc-99 LSC - Technetium-99 (to support ASTM C1733; see summary)
Total U by ICP-MS (to support ASTM C1733; see summary)

EDD REQUIRED. FORMS PLUS RAW DATA PACKAGE REQUIRED.

PROJECT DESCRIPTION _ Change Order #3 _ Characterization to Support Siting of On-Site Disposal Facility
ELECTRONIC DATA DELIVERABLE _ Electronic Deliverable (AMSED) uploaded into PEMS via the internet plus CD.
QC REQUIREMENTS _ Per ICPT BOA/QSAS and method requirements.
SMO representative is Jim Applegate James.Applegate@fbports.com; 740.897.4081
Additional contact is Gerald Fulkerson 740 897 2588, Gerald.Fulkerson@fbports.com.
****
Report ORIGINAL & CD Results to:

FLUOR-B&W PORTSMOUTH LLC.
Attn: Gerald Fulkerson 740-897-2588
3930 U.S. Route 23 South
Building X-1000
Piketon, Ohio 45661

REVISION 1, DRmz 09/14/11: Task Order revised to change SDG from 473033 to 473754. Also, samples 473633 and 473634 WG samples added to task order, which are used for the spiking and blanks.

Documents Related to this task order: 106111[COC for SRR 45484], 106185[COC for SRR 45511], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Deliverables --> Hard Copy: -YES- EDD: -YES- PDF: -YES-

Test: ASTM_C1733 Holding: 180 days from CED
Section: WETCHEM **ASTM C1733 - 10 Method for Distribution Coefficients of Inorganic Species by the Batch Method** Cnt: 13

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
473633		1	WG	231A-01G-03	19 Aug 11	15 Feb 12
473634		1	WG	749-WPW-03	19 Aug 11	15 Feb 12
473754		1	SO	WDSB02-07-12.0	23 Aug 11	19 Feb 12
473755		1	SO	WDSB02-07-19.5	23 Aug 11	19 Feb 12
473756		1	SO	WDSB02-07-2.0	23 Aug 11	19 Feb 12
473757		1	SO	WDSB02-07-24.5	23 Aug 11	19 Feb 12
473758		1	SO	WDSB02-07-4.5	23 Aug 11	19 Feb 12
473768		1	SO	WDSB05-07-12.0	23 Aug 11	19 Feb 12
473769		1	SO	WDSB05-07-19.5	23 Aug 11	19 Feb 12
473770		1	SO	WDSB05-07-2.0	23 Aug 11	19 Feb 12
473771		1	SO	WDSB05-07-24.5	23 Aug 11	19 Feb 12
473772		1	SO	WDSB05-07-4.5	23 Aug 11	19 Feb 12
473778		1	SO	WDSB05-22-12.0	23 Aug 11	19 Feb 12

Southwest Research Institute

Laboratory Task Order

TO #: 110825-10 Revision: 1

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 09/20/11
To QA: 09/20/11
To Client: 09/21/11

SDG: 473754
VTSR: 08/25/11
CASE: FXP02234L04

SRR #'s: 45484, 45511
Client(s): Fluor-B&W Portsmouth LLC

Test: ICPMS-SWRI-ISO_U Holding: 180 days from ASTM_C1733
Section: METALS **ICPMS SwRI Method Isotopic Uranium** Cnt: 11

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
473754		1	SO	WDSB02-07-12.0		Unknown
473755		1	SO	WDSB02-07-19.5		Unknown
473756		1	SO	WDSB02-07-2.0		Unknown
473757		1	SO	WDSB02-07-24.5		Unknown
473758		1	SO	WDSB02-07-4.5		Unknown
473768		1	SO	WDSB05-07-12.0		Unknown
473769		1	SO	WDSB05-07-19.5		Unknown
473770		1	SO	WDSB05-07-2.0		Unknown
473771		1	SO	WDSB05-07-24.5		Unknown
473772		1	SO	WDSB05-07-4.5		Unknown
473778		1	SO	WDSB05-22-12.0		Unknown

Test: LSC-TC99_SWRI Holding: 180 days from ASTM_C1733
Section: RADCHEM **Technetium-99 by liquid scintillation counting** Cnt: 11

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
473754		1	SO	WDSB02-07-12.0		Unknown
473755		1	SO	WDSB02-07-19.5		Unknown
473756		1	SO	WDSB02-07-2.0		Unknown
473757		1	SO	WDSB02-07-24.5		Unknown
473758		1	SO	WDSB02-07-4.5		Unknown
473768		1	SO	WDSB05-07-12.0		Unknown
473769		1	SO	WDSB05-07-19.5		Unknown
473770		1	SO	WDSB05-07-2.0		Unknown
473771		1	SO	WDSB05-07-24.5		Unknown
473772		1	SO	WDSB05-07-4.5		Unknown
473778		1	SO	WDSB05-22-12.0		Unknown

106111

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**

Lab Chain of Custody (LCOC) Number: **OSDC127LL**

Page: 1 for OSDC127LL
Date: 08/22/2011 07:31 AM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
231A-01G-03	OSDC127	5UA	WG	REG	2.5	GAL	CUBI	1	19-AUG-2011	803		Distribution Coefficient	None	WATER CONTAINING URANIUM TO RUN Kd Distribution Coefficient

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	22-AUG-2011	OSDC	OSDC127LL	DEG C		FXP02234L04

Relinquished by:	Date(mm/dd/yyyy): 8/22/11	Time: 0913	Received by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-22-11	Time: 0913
Relinquished by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-22-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 8-22-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/23/11	Time: 0830	Received by:	Date(mm/dd/yyyy): 8/23/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

Client: Flour B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/23/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45484
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #026

10ce111

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC125LL**

Page: 1 for OSDC125LL
Date: 08/22/2011 07:31 AM

Sample ID	**Sample Log**	**Task**	**Matrix**	**Smpl Type**	**Sample Container**				**Sample Date**	**Smpl Time**	**Associate Sample ID**	**Param Anly Group**	**Preser-vative**	**Remarks**
					Vol	**Unit**	**Type**	**Qty**						
749-WPW-03	OSDC125	X-749	WG	REG	2.5	GAL	CUBI	1	19-AUG-2011	906		Distribution Coefficient	None	Water containing TC99 to run Kd Distribution Coefficient

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX	22-AUG-2011	OSDC	OSDC125LL	DEG C		FXP02234L04

Relinquished by:	Date(mm/dd/yyyy): 8/22/11	Time: 0913	Received by:	Date(mm/dd/yyyy): 8-22-11	Time: 0913
Relinquished by:	Date(mm/dd/yyyy): 8-22-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 8-22-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/23/11	Time: 0836	Received by:	Date(mm/dd/yyyy): 8/23/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

Sc

Client: Flour B&W Portsmouth SwRI SRR #45484
SwRI Project #16526.05.00X Case: FXP02234L04
VTSR: 08/23/11 0830 Sample(s) Received Intact
Battery Check: Y Background Check: <100 cpm
Cooler/Container Wipe: <100 cpm Temp.: 3.0 °C / #026
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

Southwest Research Institute

Traffic Report

Sample Custodian Signature: _______________

Project: 16526.06-00X
Case: FXP02234L04 / SDG: __________
Sample Receipt: 45484
Airbill: SEE SRR NOTES

1. Custody Seal — Present
2. Chain of Custody — Present
3. Sample Tags — Not Present
   Sample Tag Numbers — Not on COC
4. SMO Forms — Not Present

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		[illegible]	Sample Condition
				Sample Tag #	SwRI #		
08/23/11	08:30:00	OSDC127LL	231A-01G-03	None	473633	YES	Intact
08/23/11	08:30:00	OSDC125LL	749-WPW-03	None	473634	YES	Intact

WO: 45484

FRM-217

SAMPLE LOG-IN SHEET

Lab Name: Southwest Research Institute

Page 1 of 1

Received By (Print Name): DINO ROMAN

Log-in Date: 08/22/2011

Received By (Signature):

Case Number: FXP02234L04

Sample Delivery Group No.: N/A

SAS Number: N/A

Remarks: 16526.05.00X

1. Custody Seal(s): [✓ Present]/Absent*; [✓ Intact]/Broken
2. Custody Seal Nos.: N/A
3. Chain-of Custody Records: [✓ Present]/Absent*
4. Traffic Reports or Packing Lists: Present/[✓ Absent]
5. Airbill: Airbill/Sticker [✓ Present]/Absent*
6. Airbill No.: SEE SRR NOTES
7. Sample Tags: Present/[✓ Absent]

   Sample Tag Numbers: Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition: [✓ Intact]/Broken*/Leaking
9. Cooler Temperature: 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree?: [✓ Yes]/No*
11. Date Received at Lab: 08/23/2011
12. Time Received: 08:30:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
231A-01G-03	None	473633	Intact
749-WPW-03	None	473634	Intact

Sample Transfer

Fraction Inorgs	Fraction
Area # R13	Area #
By DINO ROMAN	By
On 08/23/2011	On

* Contact SMO and attach record of resolution

Reviewed By:

Date: 8.24.11

Logbook No.: ✓ Sample Receipt (45484)

Logbook Page No.: ✓ 7729 Sec 4 of 4

106185

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC129LL**

RECEIVED
AUG 25 2011

Page: 1 for OSDC129LL
Date: 08/23/2011 04:34 PM

Client: Fluor B&W
SwRI Project #16526.05.00X
VTSR: 08/25/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45511
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #026

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Unit	Type	Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
WDSB02-07-12.0	OSDC129	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011	1330		Distribution Coefficient	DEG4C	
WDSB02-07-19.5	OSDC129	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011	1415		Distribution Coefficient	DEG4C	
WDSB02-07-2.0	OSDC129	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011	1222		Distribution Coefficient	DEG4C	
WDSB02-07-24.5	OSDC129	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011	1445		Distribution Coefficient	DEG4C	
WDSB02-07-4.5	OSDC129	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011	1236		Distribution Coefficient	DEG4C	
WDSB02-09-12.0	OSDC129	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011	1330		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB02-09-19.5	OSDC129	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011	1415		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB02-09-2.0	OSDC129	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011	1222		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB02-09-24.5	OSDC129	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011	1445		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB02-09-4.5	OSDC129	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011	1236		Cation-Exchange Capacity (SW846-9081)	DEG4C	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	24-AUG-2011	OSDC	OSDC129LL	DEG C		FXP02234L04

Relinquished by:	Date(mm/dd/yyyy): 8-24-11	Time: 0830	Received by:	Date(mm/dd/yyyy): 82411	Time: 0830
Relinquished by:	Date(mm/dd/yyyy): 82411	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 82411	Time: 1200

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**

Lab Chain of Custody (LCOC) Number: **OSDC44LL**

Page: 2 for OSDC44LL
Date: 08/23/2011 04:35 PM

WDSB05-09-19.5 ✓	OSDC44	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011 ✓	1400 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB05-09-2.0 ✓	OSDC44	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011 ✓	1220 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB05-09-24.5 ✓	OSDC44	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011 ✓	1430 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB05-09-4.5 ✓	OSDC44	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011 ✓	1230 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB05-22-12.0 ✓	OSDC44	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011 ✓	1310 ✓		Distribution Coefficient	DEG4C	
WDSB05-23-12.0 ✓	OSDC44	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011 ✓	1310 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX	24-AUG-2011	OSDC	OSDC44LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 8-24-11	Time: 0830	Received by: AWS	Date(mm/dd/yyyy): 82411	Time: 0830
Relinquished by: AWS	Date(mm/dd/yyyy): 82411	Time: 1700	Received by: Fedex	Date(mm/dd/yyyy): 82411	Time: 1700
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/25/11	Time: 0830	Received by:	Date(mm/dd/yyyy): 8/25/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

RT

Client: Fluor B&W	SwRI SRR #45511
SwRI Project #16526.05.00X	Case: FXP02234L04
VTSR: 08/25/11 0830	Sample(s) Received Intact
Battery Check: Y	Background Check: <100 cpm
Cooler/Container Wipe: <100 cpm	Temp.: 3.0 °C / #026
Total cpm-mR/h (samples): <100 cpm / 0 mR/h	
(see Radioactive Material Receiving Form for more information	

106185

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC129LL**

Page: 2 for OSDC129LL
Date: 08/23/2011 04:34 PM

Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/25/11	Time: 0830	Received by:	Date(mm/dd/yyyy): 8/25/11	Time: 0820
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

Client: Fluor B&W
SwRI Project #16526.05.00X
VTSR: 08/25/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45511
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #026

106185

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC44LL**

RECEIVED
AUG 25 2011

Page: 1 for OSDC44LL
Date: 08/23/2011 04:35 PM

Client: Fluor B&W	SwRI SRR #45511
SwRI Project #16526.05.00X	Case: FXP02234L04
VTSR: 08/25/11 0830	Sample(s) Received Intact
Battery Check: Y	Background Check: <100 cpm
Cooler/Container Wipe: <100 cpm	Temp.: 3.0 °C / #026

Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
WDSB05-04-12.0 ✓	OSDC44	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011 ✓	1310 ✓		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB05-04-19.5 ✓	OSDC44	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011 ✓	1400 ✓		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB05-04-2.0 ✓	OSDC44	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011 ✓	1220 ✓		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB05-04-24.5 ✓	OSDC44	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011 ✓	1430 ✓		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB05-07-12.0 ✓	OSDC44	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011 ✓	1310 ✓		Distribution Coefficient	DEG4C	
WDSB05-07-19.5 ✓	OSDC44	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011 ✓	1400 ✓		Distribution Coefficient	DEG4C	
WDSB05-07-2.0 ✓	OSDC44	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011	1220 ✓		Distribution Coefficient	DEG4C	0002314 AA 10.31.11
WDSB05-07-24.5 ✓	OSDC44	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011	1430 ✓		Distribution Coefficient	DEG4C	
WDSB05-07-4.5 ✓	OSDC44	SS	SO	REG	8	OZ	AGLS	1	23-AUG-2011	1230 ✓		Distribution Coefficient	DEG4C	
WDSB05-09-12.0 ✓	OSDC44	SS	SO	REG	4	OZ	AGLS	1	23-AUG-2011	1310 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	

Southwest Research Institute

Traffic Report

Sample Custodian Signature: ______________

Project: 16526.05-00X
Case: FXP02234L04 / SDG: ____________
Sample Receipt: 45511
Airbill: 875591109395

1. Custody Seal	Present
2. Chain of Custody	Present
3. Sample Tags	Not Present
Sample Tag Numbers	Not on COC
4. SMO Forms	Not Present

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		Traffic Rpt, Tags, COC Agree	Sample Condition
				Sample Tag #	SwRI #		
08/25/11	08:30:00	OSDC129LL	WDSB02-07-12.0	None	473754	YES	Intact
08/25/11	08:30:00	OSDC129LL	WDSB02-07-19.5	None	473755	YES	Intact
08/25/11	08:30:00	OSDC129LL	WDSB02-07-2.0	None	473756	YES	Intact
08/25/11	08:30:00	OSDC129LL	WDSB02-07-24.5	None	473757	YES	Intact
08/25/11	08:30:00	OSDC129LL	WDSB02-07-4.5	None	473758	YES	Intact
08/25/11	08:30:00	OSDC129LL	WDSB02-09-12.0	None	473759	YES	Intact
08/25/11	08:30:00	OSDC129LL	WDSB02-09-19.5	None	473760	YES	Intact
08/25/11	08:30:00	OSDC129LL	WDSB02-09-2.0	None	473761	YES	Intact
08/25/11	08:30:00	OSDC129LL	WDSB02-09-24.5	None	473762	YES	Intact
08/25/11	08:30:00	OSDC129LL	WDSB02-09-4.5	None	473763	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-04-12.0	None	473764	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-04-19.5	None	473765	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-04-2.0	None	473766	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-04-24.5	None	473767	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-07-12.0	None	473768	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-07-19.5	None	473769	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-07-2.0	None	473770	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-07-24.5	None	473771	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-07-4.5	None	473772	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-09-12.0	None	473773	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-09-19.5	None	473774	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-09-2.0	None	473775	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-09-24.5	None	473776	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-09-4.5	None	473777	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-22-12.0	None	473778	YES	Intact
08/25/11	08:30:00	OSDC44LL	WDSB05-23-12.0	None	473779	YES	Intact

WO: 45511 PortsmouthFluor-B&W

FRM-217

Printed: 25 Aug 2011 15:05:45

page 1 of 1

ver (3/19/2010)

SAMPLE LOG-IN SHEET

Lab Name Southwest Research Institute	Page 1 of 2
Received By (Print Name) DINO ROMAN	Log-in Date 08/24/2011
Received By (Signature)	

Case Number FXP02234L04	Sample Delivery Group No. NA	SAS Number NA

Remarks: 16526.05.00X

1. Custody Seal(s) — [✓ Present]/Absent* — [✓ Intact]/Broken
2. Custody Seal Nos. — NA
3. Chain-of Custody Records — [✓ Present]/Absent*
4. Traffic Reports or Packing Lists — Present/[✓ Absent]
5. Airbill — Airbill/Sticker — [✓ Present]/Absent*
6. Airbill No. — 875591109395
7. Sample Tags — Present/[✓ Absent]

   Sample Tag Numbers — Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition — [✓ Intact]/Broken*/Leaking
9. Cooler Temperature — 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree? — [✓ Yes]/No*
11. Date Received at Lab — 08/25/2011
12. Time Received — 08:30:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
WDSB02-07-12.0	None	473754	Intact
WDSB02-07-19.5	None	473755	Intact
WDSB02-07-2.0	None	473756	Intact
WDSB02-07-24.5	None	473757	Intact
WDSB02-07-4.5	None	473758	Intact
WDSB02-09-12.0	None	473759	Intact
WDSB02-09-19.5	None	473760	Intact
WDSB02-09-2.0	None	473761	Intact
WDSB02-09-24.5	None	473762	Intact
WDSB02-09-4.5	None	473763	Intact
WDSB05-04-12.0	None	473764	Intact
WDSB05-04-19.5	None	473765	Intact
WDSB05-04-2.0	None	473766	Intact
WDSB05-04-24.5	None	473767	Intact
WDSB05-07-12.0	None	473768	Intact
WDSB05-07-19.5	None	473769	Intact
WDSB05-07-2.0	None	473770	Intact
WDSB05-07-24.5	None	473771	Intact
WDSB05-07-4.5	None	473772	Intact
WDSB05-09-12.0	None	473773	Intact
WDSB05-09-19.5	None	473774	Intact
WDSB05-09-2.0	None	473775	Intact
WDSB05-09-24.5	None	473776	Intact

Sample Transfer

Fraction Frez	Fraction
Area # R17	Area #
By DINO ROMAN	By
On 08/25/2011	On

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	Sample Receipt (45511)
Date	8.26.11	Logbook Page No.	~~7731~~ 7730 SEC 3, 4 or 5

000024

SAMPLE LOG-IN SHEET

Lab Name Southwest Research Institute	Page 2 of 2
Received By (Print Name) DINO ROMAN	Log-in Date 08/24/2011
Received By (Signature)	
Case Number FXP02234L04	Sample Delivery Group No. NA / SAS Number NA

Remarks: 16526.05.00X

1. Custody Seal(s) [✓ Present]/Absent* [✓ Intact]/Broken
2. Custody Seal Nos. NA
3. Chain-of Custody Records [✓ Present]/Absent*
4. Traffic Reports or Packing Lists Present/[✓ Absent*]
5. Airbill Airbill/Sticker [✓ Present]/Absent*
6. Airbill No. 875591109395
7. Sample Tags Present/[✓ Absent*]
   Sample Tag Numbers Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition [✓ Intact]/Broken*/Leaking
9. Cooler Temperature 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree? [✓ Yes]/No*
11. Date Received at Lab 08/25/2011
12. Time Received 08:30:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
WDSB05-09-4.5	None	473777	Intact
WDSB05-22-12.0	None	473778	Intact
WDSB05-23-12.0	None	473779	Intact

Sample Transfer

Fraction Inorg	Fraction
Area # R13	Area #
By DINO ROMAN	By
On 08/25/2011	On

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. Sample Receipt (45511)
Date 8.26.11	Logbook Page No. ~~7731~~ 7730 SEC 3,4 of 5

FORM DC-1 OLM04.2

1063365

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC126LL**

Page: 1 for OSDC126LL
Date: 08/24/2011 07:01 AM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
749-WPW-04	OSDC126	X-749	WG	REG	2.5	GAL	CUBI	1	19-AUG-2011	920		Distribution Coefficient	None	Water containing TC99 to run Kd Distribution Coefficient

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX	29-AUG-2011	OSDC	OSDC126LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 8-29-11	Time: 0910	Received by: J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 0910
Relinquished by: J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 8-29-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/30/11	Time: 0930	Received by:	Date(mm/dd/yyyy): 8/30/11	Time: 0930
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

UR

Client: Fluor B&W Portsmouth SwRI SRR #45547
SwRI Project #16526.05.00X Case: FXP02234L04
VTSR: 08/30/11 0930 Sample(s) Received Intact
Battery Check: Y Background Check: <100 cpm
Cooler/Container Wipe: <100 cpm Temp.: 3.0 °C / #027
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

Southwest Research Institute

Traffic Report

Sample Custodian Signature: ______________________

Project: 16526.05-00X
Case: FXP02234L04 / SDG: ____________
Sample Receipt: 45547
Airbill: SEE SRR NOTES

1. Custody Seal	Present
2. Chain of Custody	Present
3. Sample Tags	Not Present
Sample Tag Numbers	Not on COC
4. SMO Forms	Not Present

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		Traffic Rpt, Tags, COC Agree	Sample Condition
				Sample Tag #	SwRI #		
08/30/11	09:30:00	OSDC128LL	231A-01G-04	None	474203	YES	Intact
08/30/11	09:30:00	OSDC126LL	749-WPW-04	None	474204	YES	Intact
08/30/11	09:30:00	OSDC41LL	WDSB01-04-12.0	None	474205	YES	Intact
08/30/11	09:30:00	OSDC41LL	WDSB01-04-19.5	None	474206	YES	Intact
08/30/11	09:30:00	OSDC41LL	WDSB01-04-2.0	None	474207	YES	Intact
08/30/11	09:30:00	OSDC41LL	WDSB01-04-24.5	None	474208	YES	Intact
08/30/11	09:30:00	OSDC41LL	WDSB01-04-4.5	None	474209	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-04-12.0	None	474210	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-04-4.5	None	474211	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-07-12.0	None	474212	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-07-2.0	None	474213	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-07-4.5	None	474214	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-09-12.0	None	474215	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-09-2.0	None	474216	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-09-4.5	None	474217	YES	Intact
08/30/11	09:30:00	OSDC112LL	WDSB07-15-4.5	None	474218	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-04-2.0	None	474219	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-04-4.5	None	474220	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-07-2.0	None	474221	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-07-4.5	None	474222	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-09-2.0	None	474223	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-09-4.5	None	474224	YES	Intact
08/30/11	09:30:00	OSDC116LL	WDSB09-15-4.5	None	474225	YES	Intact
08/30/11	09:30:00	OSDC116LL	WDSB09-28-19.5	None	474226	YES	Intact

WO: 45547

FRM-217

SAMPLE LOG-IN SHEET

Lab Name: Southwest Research Institute
Page 1 of 2

Received By (Print Name): DINO ROMAN
Log-in Date: 08/30/2011

Received By (Signature):

Case Number: FXP02234L04
Sample Delivery Group No.: NA
SAS Number: NA

Remarks: 16526.05.00X

1. Custody Seal(s): [✓ Present]/Absent* [✓ Intact]/Broken
2. Custody Seal Nos.: NA
3. Chain-of Custody Records: [✓ Present]/Absent*
4. Traffic Reports or Packing Lists: Present/[✓ Absent]
5. Airbill: Airbill/Sticker [✓ Present]/Absent*
6. Airbill No.: SEE SRR NOTES
7. Sample Tags: Present/[✓ Absent]

   Sample Tag Numbers: Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition: [✓ Intact]/Broken*/ Leaking
9. Cooler Temperature: 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree?: [✓ Yes]/No*
11. Date Received at Lab: 08/30/2011
12. Time Received: 09:30:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
231A-01G-04	None	474203	Intact
749-WPW-04	None	474204	Intact
WDSB01-04-12.0	None	474205	Intact
WDSB01-04-19.5	None	474206	Intact
WDSB01-04-2.0	None	474207	Intact
WDSB01-04-24.5	None	474208	Intact
WDSB01-04-4.5	None	474209	Intact
WDSB07-04-12.0	None	474210	Intact
WDSB07-04-4.5	None	474211	Intact
WDSB07-07-12.0	None	474212	Intact
WDSB07-07-2.0	None	474213	Intact
WDSB07-07-4.5	None	474214	Intact
WDSB07-09-12.0	None	474215	Intact
WDSB07-09-2.0	None	474216	Intact
WDSB07-09-4.5	None	474217	Intact
WDSB07-15-4.5	None	474218	Intact
WDSB09-04-2.0	None	474219	Intact
WDSB09-04-4.5	None	474220	Intact
WDSB09-07-2.0	None	474221	Intact
WDSB09-07-4.5	None	474222	Intact
WDSB09-09-2.0	None	474223	Intact
WDSB09-09-4.5	None	474224	Intact
WDSB09-15-4.5	None	474225	Intact

Sample Transfer

Fraction: Thcg	Fraction:
Area #: R13	Area #:
By: DINO ROMAN	By:
On: 08/30/2011	On:

* Contact SMO and attach record of resolution

Reviewed By:
Date: 8.31.11
Logbook No.: Sample Receipt (45547)
Logbook Page No.: ✓ 7736 SEC 2, 3 or 6

SAMPLE LOG-IN SHEET

Lab Name: Southwest Research Institute

Page 2 of 2

Received By (Print Name): DINO ROMAN

Log-in Date: 08/30/2011

Received By (Signature):

Case Number: FXP02234L04

Sample Delivery Group No.: NA

SAS Number: NA

Remarks: 16526.05.00X

1. Custody Seal(s) [✓ Present]/Absent* [✓ Intact]/Broken
2. Custody Seal Nos. NA
3. Chain-of Custody Records [✓ Present]/Absent*
4. Traffic Reports or Packing Lists Present/[✓ Absent]
5. Airbill Airbill/Sticker [✓ Present]/Absent*
6. Airbill No. SEE SRR NOTES
7. Sample Tags Present/[✓ Absent]
   Sample Tag Numbers Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition [✓ Intact]/Broken*/ Leaking
9. Cooler Temperature 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree? [✓ Yes]/No*
11. Date Received at Lab 08/30/2011
12. Time Received 09:30:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
WDSB09-28-19.5	None	474226	Intact

Sample Transfer

Fraction Thers	Fraction
Area # R13	Area #
By DINO ROMAN	By
On 08/30/2011	On

* Contact SMO and attach record of resolution

Reviewed By: Art Aguel

Date: 8.31.11

Logbook No.: Sample Receipt (45547)

Logbook Page No.: ✓7736 SEC 2, 3 of 6

107011

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04** ✓

Lab Chain of Custody (LCOC) Number: **OSDC135LL**

Page: 1 for OSDC135LL
Date: 09/13/2011 05:19 PM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Unit	Type	Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
749-WPW-05 ✓	OSDC135	X-749	WG	REG	2.5	GAL	CUBI	1	13-SEP-2011 ✓	1353 ✓		Distribution Coefficient	None	WATER CONTAINING TC-99 TO RUN Kd

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX ✓	14-SEP-2011 ✓	X749	OSDC135LL	DEG C		FXP02234L04

Relinquished by: Stacy [illegible]	Date(mm/dd/yyyy): 9-14-11	Time: 0830	Received by: AWS	Date(mm/dd/yyyy): 9/14/11	Time: 0830
Relinquished by: AWS	Date(mm/dd/yyyy): 9/14/11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 9/14/11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 9/15/11	Time: 0845	Received by:	Date(mm/dd/yyyy): 9/15/11	Time: 0845
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

KI

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/15/11 0845
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45654
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Southwest Research Institute

Traffic Report

Sample Custodian Signature:

Project: 16526.05-00X
Case: FXP02234L04 / SDG: ____________
Sample Receipt: 45654
Airbill: SEE SRR NOTES

1. Custody Seal	Present
2. Chain of Custody	Present
3. Sample Tags	Not Present
Sample Tag Numbers	Not on COC
4. SMO Forms	Not Present

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		Traffic Rpt, Tags, COC Agree	Sample Condition
				Sample Tag #	SwRI #		
09/15/11	08:45:00	OSDC135LL	749-WPW-05	None	475063	YES	Intact
09/15/11	08:45:00	OSDC137LL	749-WPW-06	None	475064	YES	Intact
09/15/11	08:45:00	OSDC139LL	749-WPW-07	None	475065	YES	Intact
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-BE01	None	475066	YES	Intact
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-BE10	None	475067	YES	Broken
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-CU01	None	475068	YES	Broken
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-CU10	None	475069	YES	Intact
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-SU01	None	475070	YES	Intact
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-SU10	None	475071	YES	Intact

PortsmouthFluor-B&W
WO: 45654
FRM-217

SAMPLE LOG-IN SHEET

Lab Name: Southwest Research Institute

Page 1 of 1

Received By (Print Name): DINO ROMAN

Log-in Date: 09/14/2011

Received By (Signature):

Case Number: FXP02234L04

Sample Delivery Group No.: NA

SAS Number: NA

Remarks: 16526.05.00X

1. Custody Seal(s): [✓ Present]/Absent* — [✓ Intact]/Broken
2. Custody Seal Nos.: NA
3. Chain-of Custody Records: [✓ Present]/Absent*
4. Traffic Reports or Packing Lists: Present/[✓ Absent]
5. Airbill: Airbill/Sticker [✓ Present]/Absent*
6. Airbill No.: SEE SRR NOTES
7. Sample Tags: Present/[✓ Absent]

   Sample Tag Numbers: Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition: [✓ Intact]/Broken*/Leaking
9. Cooler Temperature: 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree?: [✓ Yes]/No*
11. Date Received at Lab: 09/15/2011
12. Time Received: 08:45:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
749-WPW-05	None	475063	Intact
749-WPW-06	None	475064	Intact
749-WPW-07	None	475065	Intact
WDMW04B-33-BE01	None	475066	Intact
WDMW04B-33-BE10	None	475067	Broken
WDMW04B-33-CU01	None	475068	Broken
WDMW04B-33-CU10	None	475069	Intact
WDMW04B-33-SU01	None	475070	Intact
WDMW04B-33-SU10	None	475071	Intact

Sample Transfer

Fraction: Inorg	Fraction
Area #: RIJ	Area #
By: DINO ROMAN	By
On: 09/15/2011	On

* Contact SMO and attach record of resolution

Reviewed By:

Date: 09/16/11

Logbook No.: Sample Receipt (45654)

Logbook Page No.: ~~7752~~ 7751 SEC 7 of 7

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110825-10
SRR: 45484, 45511
CASE: FXP02234L04
VTSR: 08.23.11, 08.25.11
PROJECT#: 16526.05.00X

pH TABLE

000033 1063

SwRI

pH Preservation Report

Sample Receipt Report 45547

Project: 16526.05.00X
Case: FXP022341.04

Customer: Fluor-B&W Portsmouth LLC
Received: Aug 30 2011 9:30AM
pH Adjuster:
Adjusted:

SwRI #	Customer's ID	pH
474203 1/1	231A-01G-04	Login
Container ID	Adjustment	Final
474204 1/1	749-WPW-04	Login
Container ID	Adjustment	Final
474205 1/1	WDSB01-04-12.0	Login
Container ID	Adjustment	Final
474206 1/1	WDSB01-04-19.5	Login
Container ID	Adjustment	Final
474207 1/1	WDSB01-04-2.0	Login
Container ID	Adjustment	Final
474208 1/1	WDSB01-04-24.5	Login
Container ID	Adjustment	Final
474209 1/1	WDSB01-04-4.5	Login
Container ID	Adjustment	Final
474210 1/1	WDSB07-04-12.0	Login
Container ID	Adjustment	Final
474211 1/1	WDSB07-04-4.5	Login
Container ID	Adjustment	Final
474212 1/1	WDSB07-07-12.0	Login
Container ID	Adjustment	Final
474213 1/1	WDSB07-07-2.0	Login
Container ID	Adjustment	Final
474214 1/1	WDSB07-07-4.5	Login
Container ID	Adjustment	Final
474215 1/1	WDSB07-09-12.0	Login
Container ID	Adjustment	Final
474216 1/1	WDSB07-09-2.0	Login
Container ID	Adjustment	Final
474217 1/1	WDSB07-09-4.5	Login
Container ID	Adjustment	Final
474218 1/3	WDSB07-15-4.5	Login <2
Container ID	Adjustment	Final
474218 2/3	WDSB07-15-4.5	Login <2
Container ID	Adjustment	Final
474218 3/3	WDSB07-15-4.5	Login <2
Container ID	Adjustment	Final
474219 1/1	WDSB09-04-2.0	Login
Container ID	Adjustment	Final

SwRI #	Customer's ID	pH
474220 1/1	WDSB09-04-4.5	Login
Container ID	Adjustment	Final
474221 1/1	WDSB09-07-2.0	Login
Container ID	Adjustment	Final
474222 1/1	WDSB09-07-4.5	Login
Container ID	Adjustment	Final
474223 1/1	WDSB09-09-2.0	Login
Container ID	Adjustment	Final
474224 1/1	WDSB09-09-4.5	Login
Container ID	Adjustment	Final
474225 1/3	WDSB09-15-4.5	Login <2
Container ID	Adjustment	Final
474225 2/3	WDSB09-15-4.5	Login <2
Container ID	Adjustment	Final
474225 3/3	WDSB09-15-4.5	Login <2
Container ID	Adjustment	Final
474226 1/3	WDSB09-28-19.5	Login <2
Container ID	Adjustment	Final
474226 2/3	WDSB09-28-19.5	Login <2
Container ID	Adjustment	Final
474226 3/3	WDSB09-28-19.5	Login <2
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final

FRM-115

Page 1 of 1

ver (3/19/2010)

010001

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110825-10
SRR: 45484, 45511
CASE: FXP02234L04
VTSR: 08.23.11, 08.25.11
PROJECT#: 16526.05.00X

METALS ANALYSIS

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110825-10
SRR: 45484, 45511
CASE: FXP02234L04
VTSR: 08.23.11, 08.25.11
PROJECT#: 16526.05.00X

SAMPLE DATA

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

Lab Name: Southwest Research Institute

Lab Code: SwRI

Matrix: SO

SRR #: 45511

Method: ASTM C1733

Client: Fluor-B&W Portsmouth LLC

Project No.: 16526.05.00X

SOW: FXP02234L04

Date Received: 08/25/11

Task Order #: 110825-10

Sample ID	Lab System ID	Tc99 K_d Results (mL/g)	Tc99 Uncertainty	Total Uranium K_d Results (mL/g)	Total Uranium Uncertainty
Prep Blank	Blank	0.300	0.909	0.222	1.01
WDSB02-07-12.0	473754	3.03	0.689	5.56	0.822
WDSB02-07-19.5	473755	8.16	0.767	12.3	0.944
WDSB02-07-2.0	473756	3.41	0.701	39.4	1.62
WDSB02-07-24.5	473757	7.29	0.771	15.3	1.21
WDSB02-07-4.5	473758	2.81	0.685	118	4.71
WDSB05-07-12.0	473768	3.81	0.705	6.04	0.844
WDSB05-07-19.5	473769	4.19	0.711	12.1	0.965
WDSB05-07-2.0	473770	2.72	0.686	5.98	0.809
WDSB05-07-24.5	473771	4.07	0.714	3.67	0.793
WDSB05-07-4.5	473772	3.75	0.707	6.32	0.855
WDSB05-22-12.0	473778	4.72	0.723	11.3	0.961

Page 1 of 1

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Sample Note

GROUNDWATER SAMPLES USED

Sample ID	Lab System ID	Date Received	SRR #
749-WPW-03	473634	08/23/11	45484
749-WPW-04	474204	08/30/11	45547
749-WPW-05	475063	09/15/11	45654

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110825-10
SRR: 45484, 45511
CASE: FXP02234L04
VTSR: 08.23.11, 08.25.11
PROJECT#: 16526.05.00X

RAW DATA

Distribution Coefficient Tabulation

TC-99 - Kd Values

Sample ID			Day 7		Day 10 (9)		Day 14		Day 21		Report Kd (pooled)		
			K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	
Blank			0.36	1.82	-0.39	1.77	1.03	1.87	0.20	1.81	**0.300**	**0.909**	
473754			2.69	1.93	2.51	1.92	2.45	1.92	3.32	1.96	**3.03**	**0.689**	Day 7-21
473754D			5.50	2.07	3.20	1.95	2.45	1.91	2.15	1.90			
473754-Avg			4.10	1.42	2.85	1.37	2.45	1.35	2.73	1.37			
473755			9.08	2.21	5.30	2.03	9.02	2.21	10.85	2.30	**8.16**	**0.767**	Day 7-21
473755D			8.94	2.21	6.98	2.11	7.19	2.13	7.89	2.15			
473755-Avg			9.01	1.56	6.14	1.46	8.10	1.54	9.37	1.58			
473756			4.31	2.04	4.27	2.02	2.89	1.95	2.45	1.93	**3.41**	**0.701**	Day 7-21
473756D			4.24	2.04	3.45	1.98	2.76	1.94	2.94	1.95			
473756-Avg			4.28	1.44	3.86	1.42	2.83	1.37	2.69	1.37			
473757			7.10	2.18	8.00	2.22	9.05	2.27	7.64	2.19	**7.29**	**0.771**	Day 7-21
473757D			5.72	2.09	6.50	2.14	6.72	2.15	7.61	2.20			
473757-Avg			6.41	1.51	7.25	1.54	7.88	1.56	7.62	1.55			
473758			3.28	1.97	2.93	1.95	2.86	1.94	2.52	1.93	**2.81**	**0.685**	Day 7-21
473758D			3.43	1.97	2.82	1.95	2.85	1.94	1.79	1.87			
473758-Avg			3.36	1.39	2.87	1.38	2.86	1.37	2.15	1.34			
473768			3.29	1.97	3.70	1.99	4.07	2.01	3.86	1.99	**3.81**	**0.705**	Day 7-21
473768D			4.29	2.02	3.26	1.95	4.00	2.01	4.04	2.01			
473768-Avg			3.79	1.41	3.48	1.40	4.03	1.42	3.95	1.41			
473769			4.39	2.02	5.06	2.06	3.26	1.96	3.88	1.99	**4.19**	**0.711**	Day 7-21
473769D			3.42	1.96	4.65	2.04	4.08	2.01	4.77	2.03			
473769-Avg			3.91	1.41	4.86	1.45	3.67	1.40	4.32	1.42			
473770			3.74	2.00	2.89	1.95	1.79	1.89	2.83	1.94	**2.72**	**0.686**	Day 7-21
473770D			3.44	1.98	3.01	1.96	2.51	1.92	1.53	1.87			
473770-Avg			3.59	1.41	2.95	1.38	2.15	1.35	2.18	1.35			
473771			3.19	1.97	5.27	2.09	3.83	2.01	3.97	2.02	**4.07**	**0.714**	Day 7-21
473771D			3.47	1.97	3.97	2.02	4.08	2.02	4.77	2.07			
473771-Avg			3.33	1.39	4.62	1.45	3.95	1.42	4.37	1.44			
473772			4.61	2.04	3.33	1.98	3.22	1.97	3.34	1.98	**3.75**	**0.707**	Day 7-21
473772D			3.96	2.01	4.14	2.02	3.86	2.01	3.50	1.98			
473772-Avg			4.29	1.43	3.74	1.41	3.54	1.41	3.42	1.40			
473778			3.96	2.00	4.32	2.01	5.69	2.10	3.50	1.98	**4.72**	**0.723**	Day 7-21
473778D			4.53	2.04	5.06	2.07	5.52	2.10	5.17	2.07			
473778-Avg			4.25	1.43	4.69	1.44	5.61	1.48	4.34	1.43			
473045			4.52	2.04	5.05	2.07	5.02	2.07	4.04	2.02	**4.97**	**0.732**	Day 7-21
473045D			4.97	2.08	5.79	2.12	5.18	2.08	5.17	2.09			
473045-Avg			4.74	1.46	5.42	1.48	5.10	1.47	4.61	1.45			

$$Kd = \frac{\frac{200\,(C_{\text{avg blank}} - C_{\text{day }x})}{m \times \%\text{ solids}}}{C_{\text{day }x}}$$

Sample calc
473754 Day21

$$= \frac{\frac{200(632-575)}{8.0072 \times 0.7457}}{575} = 3.32$$ ✓

RJones
10/27/11

010008

Total U - Kd Values

Sample ID			Day 7		Day 10 (9)		Day 14		Day 21		Report Kd (pooled)		
			K$_d$, mL/g	*Uncert*	K$_d$, mL/g	*Uncert*	K$_d$, mL/g	*Uncert*	K$_d$, mL/g	*Uncert*	K$_d$, mL/g	*Uncert*	
Blank			0.32	2.03	-0.92	1.95	-0.45	1.97	1.93	2.15	**0.222**	**1.01**	
473754			2.32	2.14	2.86	2.17	2.98	2.18	8.71	2.50	**5.56**	**0.822**	Day ~~2-10~~ 7-21 RSS 10/27/11
473754D			8.68	2.49	5.13	2.30	6.13	2.35	7.70	2.44			
473754-Avg			5.50	1.64	4.00	1.58	4.56	1.60	8.21	1.74			
473755			14.2	2.77	9.80	2.53	13.2	2.72	14.7	2.79	**12.3**	**0.944**	Day 7-21
473755D			14.1	2.76	12.0	2.65	11.1	2.60	9.53	2.52			
473755-Avg			14.2	1.96	10.9	1.83	12.2	1.88	12.1	1.88			
473756			35.1	4.28	43.5	4.85	39.4	4.58	39.9	4.61	**39.4**	**1.62**	Day 7-21
473756D			39.1	4.54	35.8	4.34	38.4	4.53	43.7	4.87			
473756-Avg			37.1	3.12	39.6	3.26	38.9	3.22	41.8	3.35			
473757			13.9	2.86	13.7	2.84	outlier	--	20.7	3.29	**15.3**	**1.21**	Day 7-21
473757D			outlier	--	19.7	3.22	11.7	2.72	12.1	2.74			
473757-Avg			13.92	2.86	16.7	2.15	11.7	2.72	16.4	2.14			
473758			94.3	7.88	101	8.32	124	9.80	122	9.63	**118**	**4.71**	Day 14-21
473758D			96.2	8.04	120	9.51	116	9.27	110	8.94			
473758-Avg			95.2	5.63	111	6.32	120	6.74	116	6.57			
473768			6.65	2.42	5.35	2.34	5.27	2.34	6.53	2.42	**6.04**	**0.844**	Day 7-21
473768D			5.11	2.33	8.17	2.52	6.20	2.40	5.07	2.33			
473768-Avg			5.88	1.68	6.76	1.72	5.74	1.67	5.80	1.68			
473769			14.4	2.86	11.2	2.67	11.0	2.7	12.3	2.74	**12.1**	**0.965**	Day 7-21
473769D			10.8	2.66	11.4	2.68	12.9	2.8	12.8	2.77			
473769-Avg			12.6	1.95	11.3	1.89	11.9	1.9	12.5	1.95			
473770			6.99	2.47	6.26	2.42	5.91	2.39	6.41	2.43	**5.98**	**0.809**	Day 7-21
473770D			6.42	1.29	5.90	2.40	5.95	2.40	4.00	2.27			
473770-Avg			6.71	1.39	6.08	1.70	5.93	1.70	5.21	1.66			
473771			3.87	2.26	4.26	2.28	3.43	2.23	3.48	2.23	**3.67**	**0.793**	Day 7-21
473771D			3.56	2.24	4.78	2.31	3.07	2.21	2.94	2.20			
473771-Avg			3.72	1.59	4.52	1.62	3.25	1.57	3.21	1.56			
473772			6.67	2.44	6.71	2.44	7.39	2.49	4.84	2.32	**6.32**	**0.855**	Day 7-21
473772D			5.87	2.39	6.01	2.40	7.52	2.49	5.54	2.37			
473772-Avg			6.27	1.71	6.36	1.71	7.45	1.76	5.19	1.66			
473778			11.6	2.74	13.0	2.83	9.84	2.63	9.55	2.61	**11.3**	**0.961**	Day 7-21
473778D			8.37	2.53	12.1	2.76	9.68	2.61	16.0	3.01			
473778-Avg			9.98	1.86	12.6	1.98	9.76	1.85	12.8	1.99			
473045			1.79	2.13	2.78	2.19	2.79	2.19	1.66	2.12	**2.05**	**0.758**	Day 7-21
473045D			2.22	2.16	1.31	2.09	2.11	2.15	1.77	2.12			
473045-Avg			2.01	1.51	2.05	1.52	2.45	1.53	1.71	1.50			

$$Kd = \frac{\frac{200\,(C_{avg\ blank} - C_{day\ x})}{m \times \%\ solids}}{C_{day\ x}}$$

sample calc 473045
Day 7

$$= \frac{\frac{(100180 - 94300) \times 200}{8.0687 \times 0.8642}}{94300} = 1.79 ✓$$

RSS 10/27/11

Fluor 16526.05.006
110825-10, 110915-9

TC-99 - Instrument Results

Sample ID	Day 0		Day 7		Day 10 (9)		Day 14		Day 21				
	pCi/mL	err	pCi/mL	err	pCi/L	err	pCi/L	err	pCi/L	err	$C_{avg\ blk}$	err	Rel Err
Blank	663	39.0	623	36.7	642	37.8	607	35.8	627	37.0	**632**	**16.67**	**2.64%**
473754			585	34.6	588	34.7	589	34.8	575	34.0			
473754D			543	32.1	577	34.1	589	34.7	594	35.1			
473755			502	29.8	549	32.5	503	29.9	483	28.7			
473755D			504	29.9	527	31.2	525	31.1	516	30.6			
473756			551	32.6	551	32.6	575	34.0	583	34.4			
473756D			552	32.6	565	33.4	577	34.1	574	33.9			
473757			514	30.5	502	29.8	488	29.0	506	30.0			
473757D			533	31.6	522	30.9	519	30.8	507	30.1			
473758			571	33.7	577	34.1	578	34.1	584	34.5			
473758D			568	33.6	579	34.2	578	34.2	597	35.2			
473768			570	33.7	563	33.2	557	32.9	560	33.1			
473768D			553	32.7	570	33.7	558	33.0	557	33.0			
473769			555	32.8	545	32.3	573	33.9	563	33.3			
473769D			570	33.7	551	32.6	560	33.1	549	32.4			
473770			559	33.0	574	33.9	595	35.1	575	34.0			
473770D			564	33.3	572	33.8	581	34.3	600	35.4			
473771			570	33.7	536	31.7	559	33.1	557	32.9			
473771D			565	33.4	557	32.9	555	32.8	544	32.2			
473772			545	32.3	567	33.5	569	33.6	567	33.5			
473772D			556	32.9	553	32.7	558	33.0	564	33.3			
473778			558	33.0	552	32.6	531	31.4	566	33.4			
473778D			549	32.5	541	32.0	534	31.6	539	31.9			
473045			546	32.3	537	31.8	538	31.8	554	32.8			
473045D			539	31.9	526	31.1	535	31.7	536	31.7			

10/27/11

Fluor 16526.05.006
110825-10, 110915-9

Total U - Instrument Results

Sample ID	Day 0		Day 7		Day 10 (9)		Day 14		Day 21				
	ng/L	err	ng/L	err	ng/L	err	ng/L	err	ng/L	err	$C_{avg\ blk}$	err	
Blank	103000	6936	98900	6675	104000	7034	102000	6871	93000	6279	**100180**	**3025.08**	**3.02%**
473754			93700	6323	92300	6229	92000	6213	79500	5366			
473754D			79600	5373	86900	5868	84700	5717	81500	5499			
473755			71300	4811	78300	5286	72800	4913	70700	4772			
473755D			71500	4826	74600	5037	76200	5141	78800	5317			
473756			45600	3081	40100	2704	42600	2876	42300	2857			
473756D			42900	2896	44900	3028	43100	2913	40000	2700			
473757			69100	4666	69400	4687	41800	2825	59800	4040			
473757D			96200	6495	61100	4126	72600	4904	72000	4858			
473758			24600	1659	23300	1572	19800	1338	20100	1354			
473758D			24100	1624	20400	1379	20900	1410	21700	1467			
473768			82100	5544	85100	5746	85300	5756	82300	5555			
473768D			85600	5779	78700	5310	83100	5613	85700	5783			
473769			68900	4653	74000	4997	74300	5014	72200	4876			
473769D			74500	5027	73700	4976	71300	4815	71300	4813			
473770			80500	5438	82200	5550	83100	5611	81800	5525			
473770D			81800	520	83100	5613	82900	5595	87900	5936			
473771			88500	5973	87500	5909	89700	6053	89600	6047			
473771D			89300	6028	86200	5816	90700	6126	91100	6148			
473772			81400	5492	81400	5496	79900	5393	85900	5802			
473772D			83300	5625	83000	5603	79600	5375	84100	5675			
473778			72200	4873	69700	4704	75400	5088	76000	5129			
473778D			78300	5283	71500	4828	75800	5118	65300	4406			
473045			94300	6363	91300	6164	91300	6162	94700	6395			
473045D			93000	6281	95800	6464	93300	6300	94400	6373			

10/27/11

Distribution Coefficient pH Data

010013

Fluor 16526.05.006
110825-10, 110915-9

pH Data

Sample ID	Day 7	Day 10 (9)	Day 14	Day 21
	pH	pH	pH	pH
Blank	7.76	7.61	8.06	8.05
473754	7.62	7.45	7.72	7.71
473754D	7.79	7.44	7.88	7.61
473755	7.68	7.60	7.81	7.88
473755D	7.65	7.56	7.76	7.84
473756	7.78	7.85	7.97	7.90
473756D	7.82	7.81	7.98	7.98
473757	7.88	7.78	8.18	8.09
473757D	7.87	7.77	8.01	7.90
473758	7.93	7.84	7.99	8.03
473758D	7.97	7.88	8.05	8.12
473768	8.07	7.81	8.23	8.10
473768D	7.99	7.94	8.16	8.14
473769	7.89	7.75	8.21	8.01
473769D	7.86	7.77	8.03	7.95
473770	7.76	7.76	7.85	7.85
473770D	7.80	7.64	7.90	7.80
473771	7.85	7.74	7.86	8.03
473771D	7.90	7.64	7.82	7.86
473772	7.92	7.71	8.12	7.83
473772D	7.89	7.66	7.92	7.85
473778	8.38	7.86	8.38	8.25
473778D	8.46	7.82	8.30	8.13
473045	7.99	7.54	8.25	7.86
473045D	7.91	7.57	8.21	7.92

10/23/11

Southwest Research Institute® Logbook: pH

010014

Analysis/Method: pH DAY 7 Project#: 16526.05.006

Client: Fluor-B&W Portsmouth TO#: 110825-10, 1109~~20~~ 15-9
TE JAM 9/26/11

QC Source: INORG# 8325 TV: 7.52 s.u.

Notes: QC Range 7.43 - 7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A				
4.0	4.00 ~~8958~~*	8958	1/13	22.0
7.0	7.01	8960	2/13	22.0
10.0	10.04	8961	1/13	21.9
N/A				

*TE JAM 9/26/11

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.51				21.9
473754	7.62				21.3
473754D	7.79				21.5
473755	7.68				21.4
473755D	7.65				21.5
473756	7.78				21.8
473756D	7.82				21.8
473757	7.88		JAM 9/26/11		21.8
473757D	7.87				21.8
473758	7.93				21.7
473758D	7.97				21.8
CCV	7.55				21.9
473768	8.07				21.9
473768D	7.99				21.9
473769	7.89				21.8
473769D	7.86				21.8
473770	7.76				21.9
473770D	7.80				21.9

Analyst Signature: James Maher Date: 9/26/11

Reviewed by: T L Spies Date: 9/28/11

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FRM-241 (Rev 2/Feb 04)

010015

Southwest Research Institute® Logbook: pH

Analysis/Method: pH DAY 7 **Project#:** 16526.05.006

Client: Fluor - B+W Portsmouth **TO#:** 110825-10, 110915-9

QC Source: INORG # 8325 **TV:** 7.52 s.u.

Notes: QC Range 7.43 - 7.61

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A				
4.0	4.00	8958	1/13	22.0
7.0	7.0~~4~~1 [illegible]	8960	2/13	22.0
10.0	10.04	8961	1/13	21.9
N/A				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
473771	7.85				21.9
473771D	7.90				21.9
473772	7.92				20.4
473772D	7.89				20.9
CCV2	7.54				21.8
473778	8.~~26~~28 TE JAM 9/26/11				18.9
473778D	8.46				19.2
473045	7.99				20.9
473045D	7.91				20.8
Blank D7	7.76				22.0
CCV3	7.57				21.9

JAM 9/26/11

JAM 9/26/11

Analyst Signature: James Maher **Date:** 9/26/11

Reviewed by: **Date:** 9/28/11

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010016

Southwest Research Institute® Logbook: pH

Analysis/Method: pH DAY 10 Project#: K0526.0~~4~~5.006

Client: Fluor B&W Portsmouth TO#: 110825-10, 110915-9

QC Source: 8325 TV: 7.52

Notes: taken off on DAY9 * QC Range 7.43-7.61

Standardization of pH Meter: * TE JAM 9/28/11

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
4.0	4.01	8958	1/13	23.0
7.0	7.01	8960	2/13	23.0
10.0	10.03	8961	1/13	23.0

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.49				23.0
473754	7.45				22.2
473754D	7.44				21.9
473755	7.60				21.9
473755D	7.56				21.9
473756	7.85				21.8
473756D	7.81				21.9
473757	7.78				22.1
473757D	7.77				22.2
473758	7.84				22.2
473758D	7.88				22.2
CCV	7.49				22.9
473768	7.81				22.4
473768D	7.94				22.3
473769	7.75				22.2
473769D	7.77				22.2
473770	7.76				22.1
473770D	7.64				22.2

JAM 9/28/11

Analyst Signature: James Maher Date: 9/28/11

Reviewed by: Date: 9/28/11

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FRM-241 (Rev 2/Feb 04)

010017

Southwest Research Institute® Logbook: pH

Analysis/Method: pH DAY 10 **Project#:** 16526.05.006

Client: Fluor- B&W Portsmouth **TO#:** 110825-10, 110915-9

QC Source: 8325 **TV:** 7.52 s.u.

Notes: taken out on DAY 9 QC Range 7.43-7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A				
4.0	4.01	8958	1/13	23.0
7.0	7.01	8960	2/13	23.0
10.0	10.03	8961	1/13	23.0
N/A				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
473771	7.74				22.6
473771D	7.64				22.6
473772	7.71				22.4
473772D	7.66				22.7
CCV2	7.54				23.1
473778	7.86		JAM 9/28/11		22.4
473778D	7.82				22.5
473045	7.54				22.4
473045D	7.57				22.4
TE JAM 9/28/11 ~~CCV3~~ Blank	DIO 7.61				22.5
CCV3	7.55				23.0
		JAM 9/28/11			

Analyst Signature: James Mohan **Date:** 9/28/11

Reviewed by: **Date:** 9/28/11

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FRM 241 (Rev 2/Feb 04)

Southwest Research Institute® Logbook: pH010018

Analysis/Method: pH DAY 14 **Project#:** 16526.05.006

Client: Fluor-B&W Portsmouth **TO#:** 110825-10, 110915-9

QC Source: INORG # 8325 **TV:** 7.52 s.u

Notes: QC Range 7.43-7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A				
4.0	4.00	8958	1/13	21.9
7.0	7.01	8960	2/13	21.9
10.0	10.04	8961	1/13	21.9
N/A				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.52				21.6
473754	7.72				20.7
473754D	7.88				20.7
473755	7.81				20.6
473755D	7.76				20.8
473756	7.97				20.8
473756D	7.98				20.7
473757	8.18				20.9
473757D	8.01		JAM 10/3/11		20.8
473758	7.99				20.7
473758D	8.05				21.0
CCV	7.55				21.8
473768	8.23				20.4
473768D	8.16				20.8
473769	8.21				20.4
473769D	8.03				20.6
473770	7.85				20.5
473770D	7.90				20.9

Analyst Signature: James Maher **Date:** 10/3/11

Reviewed by: M. Mendoza **Date:** 10/27/11

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FRM-241 (Rev 2/Feb 04)

Southwest Research Institute® Logbook: pH

Analysis/Method: pH DAY 14 **Project#:** 16526.05.006

Client: Fluor B&W Portsmouth **TO#:** 110825-10, 110915-9

QC Source: 8325 **TV:** 7.52 s.u.

Notes: QC Range: 7.43-7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A				
4.0	4.00	8958	1/13	21.9
7.0	7.01	8960	2/13	21.9
10.0	10.04	8961	1/13	21.9
N/A				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
473771	7.86				21.4
473771D	7.82				21.2
473772	8.12				20.6
473772D	7.92				20.9
CCV2	7.55				22.1
473778	8.38				21.7
473778D	8.30				21.5
473045	8.25				21.9
473045D	8.21				21.6
CCV3	7.54				21.8
Blank D14	8.06				21.6
CCV4	7.55				22.0

JAM 10/3/11

JAM 10/3/11

Analyst Signature: James Maher **Date:** 10/3/11

Reviewed by: M. Mendoza **Date:** 10/27/11

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Southwest Research Institute® Logbook: pH 010020

Analysis/Method: pH DAY 21 **Project#:** 16526.05.006

Client: Fluor B&W Portsmouth **TO#:** 110825-10, 110915-9

QC Source: INORG# 8325 **TV:** 7.52 s.u.

Notes: QC Range 7.43-7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A				
4.0	4.00	8958	1/13	22.4
7.0	7.01	8960	2/13	22.4
10.0	10.03	8961	1/13	22.7
N/A				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.52				23.3
473754	7.71				22.2
473754D	7.61				22.1
473755	7.88				22.1
473755D	7.84				22.1
473756	7.90				22.1
473756D	7.98				22.1
473757	8.09				22.0
473757D	7.90				22.1
473758	8.03				21.9
473758D	8.12				21.9
CCV	7.54				23.1
473768	8.10				22.0
473768D	8.14				21.9
473769	8.01				22.0
473769D	7.95				22.1
473770	7.85				21.9
473770D	7.80				22.2

JAM 10/10/11

Analyst Signature: James Maher **Date:** 10/10/11

Reviewed by: M. Mendoza **Date:** 10/21/11

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010021

Southwest Research Institute® Logbook: pH

Analysis/Method: pH D21 Project#: 16526.05.006

Client: Fluor B/W Portsmouth TO#: 110826-10, 110915-9

3 2 Ⓒ 10/13/11
QC Source: INORG# 8~~2~~35 mm TV: 7.52 s.u.

Notes: QC Range 7.43- 7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
N/A				
4.0	4.00	8958	1/13	22.4
7.0	7.01	8960	2/13	22.4
10.0	10.03	8961	1/13	22.7
N/A				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
473771	8.03				21.7
473771D	7.86				21.9
473772	7.83				21.4
473772D	7.85				21.8
CCV2	7.54				23.0
473778	8.25				21.7
473778D	8.13				21.7
473045	7.86				21.7
473045D	7.92				21.8
Blank D21	8.05				22.3
CCV3	7.54				23.4

SAM 10/10/11

SAM 10/10/11

Analyst Signature: James Maher Date: 10/10/11

Reviewed by: M. Mendoza Date: 10/27/11

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Book/Page

010022

Distribution Coefficient Prep

Fluor 16526.05.006
110825-10, 110915-9

Prep Information

Sample ID			Day 7		Day 10 (9)		Day 14		Day 21	
		% Solids	Wt g	Vol mL	Wt g	Vol mL	Wt g	Vol mL	Wt g	Vol mL
Blank		100.0%	8.0000	200	8.0000	200	8.0000	200	8.0000	200
473754		74.57%	8.0007	200	8.0011	200	8.0062	200	8.0072	200
473754D		74.40%	8.0075	200	8.0085	200	8.0087	200	8.0020	200
473755		70.54%	8.0826	200	8.0832	200	8.0611	200	8.0607	200
473755D		70.54%	8.0574	200	8.0905	200	8.0411	200	8.0756	200
473756		85.33%	8.0024	200	8.0724	200	8.0482	200	8.0344	200
473756D		85.33%	8.0022	200	8.0641	200	8.0850	200	8.0614	200
473757		80.59%	8.0197	200	8.0357	200	8.0893	200	8.0858	200
473757D		80.59%	8.0648	200	8.0472	200	8.0464	200	8.0432	200
473758		81.16%	8.0296	200	8.0304	200	8.0541	200	8.0299	200
473758D		81.16%	8.0866	200	8.0069	200	8.0656	200	8.0876	200
473768		82.51%	8.0249	200	8.0212	200	8.0250	200	8.0662	200
473768D		82.51%	8.0789	200	8.0990	200	8.0341	200	8.0729	200
473769		78.68%	8.0295	200	8.0158	200	8.0328	200	8.0346	200
473769D		78.68%	8.0865	200	8.0275	200	8.0055	200	8.0527	200
473770		86.71%	8.0613	200	8.0635	200	8.0279	200	8.0852	200
473770D		86.71%	8.0729	200	8.0356	200	8.0773	200	8.0463	200
473771		84.68%	8.0507	200	8.0287	200	8.0449	200	8.0118	200
473771D		84.68%	8.0816	200	8.0090	200	8.0394	200	8.0100	200
473772		85.54%	8.0883	200	8.0441	200	8.0320	200	8.0273	200
473772D		85.54%	8.0745	200	8.0592	200	8.0380	200	8.0656	200
473778		82.85%	8.0741	200	8.0917	200	8.0664	200	8.0456	200
473778D		82.85%	8.0591	200	8.0261	200	8.0210	200	8.0535	200
473045		86.42%	8.0687	200	8.1036	200	8.0577	200	8.0623	200
473045D		86.42%	8.0361	200	8.0600	200	8.0944	200	8.0182	200

10/27/11

Southwest Research Institute

Electronic Bench Sheet

% Solids

09/14/11

Project #: 16526.05.006
Client: Fluor - B&W Portsmouth LLC
Method: %solid
TO# 110825-10, 110830-12, 110831-5

Date: 09/01/11
Analyst: James Moken jam

Seq #	Sample ID	A Tare Wt(g)	B Wet Sample + Tare Wt(g)	(B - A) Wet Sample Wt(g)	C Dried Sample + Tare Wt(g)	(C - A) Dried Sample Wt(g)	% Solids	RPD
1	PB	0.9611	0.9611	0.0000	0.9610	-0.0001	<0.05	
2	473754	0.9623	6.8311	5.8688	5.3388	4.3765	74.57	
3	473754D	0.9598	6.7724	5.8126	5.2845	4.3247	74.40	0.228%
4	473755	0.9601	6.8940	5.9339	5.1459	4.1858	70.54	
5	473756	0.9654	6.7588	5.7934	5.9091	4.9437	85.33	
6	473757	0.9629	6.8881	5.9252	5.7378	4.7749	80.59	
7	473758	0.9630	6.5646	5.6016	5.5092	4.5462	81.16	
8	473768	0.9612	6.9096	5.9484	5.8694	4.9082	82.51	
9	473769	0.9613	6.4828	5.5215	5.3054	4.3441	78.68	
10	473770	0.9589	6.3777	5.4188	5.6575	4.6986	86.71	
11	473771	0.9557	6.6900	5.7343	5.8116	4.8559	84.68	
12	PB2	0.9571	0.9571	0.0000	0.9571	0.0000	<0.05	
13	473772	0.9575	6.8693	5.9118	6.0142	5.0567	85.54	
14	473778	0.9633	6.6260	5.6627	5.6551	4.6918	82.85	
15	474212	0.9640	6.8165	5.8525	6.2547	5.2907	90.40	
16	474212D	0.9590	6.9142	5.9552	6.3621	5.4031	90.73	0.363%
17	474213	1.0153	6.7501	5.7348	6.0538	5.0385	87.86	
18	474214	1.0146	6.6879	5.6733	6.0996	5.0850	89.63	
19	474221	1.0068	6.5495	5.5427	5.4183	4.4115	79.59	
20	474222	1.0063	6.6579	5.6516	5.5944	4.5881	81.18	
21	474300	0.9971	6.3794	5.3823	5.7209	4.7238	87.77	
22	474301	0.9599	6.3362	5.3763	5.5632	4.6033	85.62	
23	PB3	1.0439	1.0439	0.0000	1.0437	-0.0002	<0.05	
24	474302	1.0182	6.7701	5.7519	5.9726	4.9544	86.14	

% Solids = Dried Sample Wt(g)*100 / Wet Sample Wt(g)

Sample Calculation : 473754

$$\frac{4.3765g}{5.8688g} \times 100 = 74.57\%$$

010025

Southwest Research Institute®
Logbook: Physical Testing

Analysis / Method: % Solid
Project# 16526.05.006
Client: Fluor B&W Portsmouth
TO# 110825-10, 110830-12, 110831-5

LCS Info: N/A **TV=** N/A **Balance#:** 88
Notes: in oven #31 12:00 9/1/11
out oven #31 7:00 9/2/11

Sample ID	tare wt (g)	tare+samp (g)	dried+tare (g)		
PB	0.9611	0.9611	0.9610		
473754	0.9623	6.8311	5.3388		
473754D	0.9598	6.7724	5.2845		
473755	0.9601	6.8940	5.1459		
473756	0.9654	6.7588	5.9091		
473757	0.9629	6.8881	5.7378		
473758	0.9630	6.5646	5.5092		
473768	0.9612	6.9096	5.8694		
473769	0.96~~88~~13*	6.4828	5.3054		
473770	0.9589	6.3777	5.6575		
473771	0.9557	6.6900	5.8116		
PB2	0.9571	0.9571	0.9571		
473772	0.9575	6.8693	6.0142		
473778	0.9633	6.6260	5.6551		
474212	0.9640	6.8165	6.2547		
474212D	0.9590	6.9142	6.3621		
474213	1.0153	6.7501	6.0538		
474214	1.0146	6.6879	6.0996		
474221	1.0068	6.5495	5.4183		

JAM 9/1/11

Calculation: *TE JAM 9/1/11

Analyst Signature: James Mohen **Date:** 9/1/11

Reviewed by: Julay Herrera **Date:** 09/14/11

Logbook #/Page # 10 153

Southwest Research Institute®
Logbook: Physical Testing

Analysis / Method: % Solid **Project#** 16526.05.006
Client: Fluor B&W Portsmouth **TO#** 11826-10, 110830-12, 110831-5

LCS Info: N/A **TV=** N/A **Balance#:** 88
Notes: In oven #31 12:00 9/1/11
out oven #31 7:00 9/2/11

Sample ID	tare wt (g)	samp + tare (g)	dried + tare (g)		
474222	1.0063	6.6579	5.5944		
474300	0.9971	6.3794	5.7209		
474301	0.9599	6.3362	5.5632		
PB3	1.0439	1.0439	1.0437		
474302	1.0182	6.7701	5.9726		

JAM 9/2/11

Calculation:

Analyst Signature: James Mohen **Date:** 9/1/11

Reviewed by: Juay Alenora **Date:** 09/14/11

Logbook #/ Page # 10 154

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010027

09/14/11

Southwest Research Institute

Electronic Bench Sheet

% Solids

Project #:	16526.05.006	Date:	09/12/11
Client:	Fluor - B&W Portsmouth LLC	Analyst:	James Moken JM
Method:	%solid		
TO#	110902-3, 110901-7, ~~110813-4~~ 110915-9 (C) 10/27/11 mn		

Seq #	Sample ID	A Tare Wt(g)	B Wet Sample + Tare Wt(g)	(B - A) Wet Sample Wt(g)	C Dried Sample + Tare Wt(g)	(C - A) Dried Sample Wt(g)	% Solids	RPD
1	PB	0.9699	0.9699	0.0000	0.9698	-0.0001	<0.05	
2	473045	0.9804	4.8778	3.8974	4.3486	3.3682	86.42	
3	474401	0.9825	4.0451	3.0626	3.8466	2.8641	93.52	
4	474401D	0.9804	4.0037	3.0233	3.7929	2.8125	93.03	0.527%
5	474402	0.9559	3.7876	2.8317	3.4167	2.4608	86.90	
6	474341	1.0125	3.6139	2.6014	3.4489	2.4364	93.66	
7	474344	1.0169	3.6565	2.6396	3.4128	2.3959	90.77	
8	474340	0.9864	3.6943	2.7079	3.3926	2.4062	88.86	

% Solids = Dried Sample Wt(g)*100 / Wet Sample Wt(g)

Sample Calculation: 473045

$$\frac{3.3682g}{3.8974g} \times 100 = 86.42\,\%$$

010028

Southwest Research Institute®
Logbook: Physical Testing

Analysis / Method: % Solid **Project#** 16526.05.006

Client: Fluor B&W Portsmouth **TO#** 110902-3 110901-7 110902-4 110915-9

@ 10/21/11 mm

LCS Info: N/A **TV=** N/A **Balance#:** 12

Notes: in oven #31 14:15 9/12/11

out oven #31 8:15 9/13/11

Sample ID	tare wt. (g)	samp + tare (g)	dried + tare (g)		
PB	0.9699	0.9699	0.9698		
473045	0.9804	4.8778	4.3486		
474401	0.9825	4.0451	3.8466		
474401D	0.9804	4.0037	3.7929		
474402	0.9559	3.7876	3.4167		
474341	1.0125	3.6139	3.4489		
474344	1.0169	3.6565	3.4128		
474340	0.9864	3.6943	3.3926		

Jah 09/13/11

Calculation:

Analyst Signature: James Maher **Date:** 9/12/11

Reviewed by: Jay Herrera **Date:** 09/13/11

Logbook #/ Page # 10 156

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010029

Southwest Research Institute
WC Sample Prep Logbook

Book/Page: _15_ 00132_

Book I.D. # _10-0406-057_

Analysis: ASTM C1733

Method (circle) Digestion / Distillation / [✓ Extraction] / Bomb

Client: Fluor B&W Portsmouth

Project #: 16526.06.006

Task Order#: 110825-10, 110915-9

TAP#: N/A

Balance ID: 12

Pipette ID: 5000- / 1000- / 200- /

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: N/A

LCS TV = N/A

Notes / Prep: Solution preped using 473634, 474201, 475063 and spiked with 2.6mL of INORG#9204 1000ppm Uranium Preped 26L of solution. DAY 1, 2 and 4 were removed from the analysis. DAY 10 was taken out a day early by mistake so it is now DAY 9.

9/9/11   9/19/11

Sample ID	Sample Wt [✓ (g)] Sample Vol (ml)	Final Volume (ml)
473754 D1	8.0011	200 ml
473754D D1	8.0036	↓
473754 D2	8.0047	
473754D D2	8.0079	
473754 D4 *	8.0090	
473754D D4	8.0001	
473754 D7	8.0007	
473754D D7	8.0075	
473754 D10	8.0011	
473754D D10	8.0085	
473754 D14	8.0062	
473754D D14	8.0087	
473754 D21	8.0072	
473754D D21	8.0020	
473754 DX	8.0053	
473754D DX	8.0036	
473755 D1	8.0643	
473755D D1	8.0121	
473755 D2	8.0710	
473755D D2	8.0157	
473755 D4	8.0277	↓

*TE SAM 9/9/11

Analyst Signature: Jenny Herrera Date: 09/09/11

Reviewed by: Date: 10/13/11

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Continued to: 15-00133

Southwest Research Institute
WC Sample Prep Logbook

Book/Page: 15 00133

Book I.D. # 10-0406-057

Analysis: ASTM C1733

Method (circle): Digestion / Distillation / [✓ Extraction] / Bomb

Client: Fluor B&W Portsmouth

Project #: 16526.05.006

Task Order#: 110825-10, 110915-9

TAP#: N/A

Balance ID: 12

Digestion Apparatus: N/A

LCS ID: N/A

Notes / Prep: see PB 15-00132

Pipette ID: 5000 1000 200

Temperature: N/A

LCS TV = N/A

	9/19/11	9/19/11			
Sample ID	[✓ Sample Wt (g)] Sample Vol (ml)	Final Volume (ml)			
473755D D1	8.0524	200 ml			
473755 D7	8.0826				
473755D D7	8.0574				
473755 D10	8.0832				
473755D D10	8.0905				
473755 D14	8.0611				
473755D D14	8.0411				
473755 D21	8.0607				
473755D D21	8.0756				
473755 Dx	8.0367				
473755D Dx	8.0031				
473756 D1	8.0733		large rocks		
473756D D1	8.0035		removed		
473756 D2	8.0138				
473756D D2	8.0619		total sample wt. (g) = 371.57g		
473756 D4	8.0064		rocks removed wt. (g) = 44.37g		
473756D D4	8.0268				
473756 D7	8.0024		% rocks = 44.37 / 371.57 = 11.9%		
473756D D7	8.0022				
473756 D10	8.0724				
473756D D10	8.0641				

Analyst Signature:

Date: 09/19/11

Reviewed by:

Date: 10/13/11

continued from 15-00132

continued to 15-00134

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 00134_

Book I.D. # _10-0406-057_

Analysis: ASTM C1733

Method (circle) Digestion / Distillation / [✓ Extraction] / Bomb

Client: Fluor B&W Portsmouth

Project #: 16526.05.006

Task Order#: 110825-10, 110915-9

TAP#: N/A

Balance ID: (473756) 12 / 88 (473757)

Pipette ID: 5000- ✓ 1000- — 200- —

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: NA

LCS TV = N/A

Notes / Prep: see pg. 15-00132

9/9/11 9/19/11

Sample ID	Sample Wt [✓ (g)] Sample Vol (ml)	Final Volume (ml)			
473756 D14	8.0482	200 ml	-		
473756D D14	8.0850				
473756 D21	8.0344		see note		
473756D D21	8.0614		pg. 15-00133		
473756 Dx	8.0790				
473756D Dx	8.0934				
473757 D1	8.0670			large rocks	
757D D1	8.0247			removed	
757 D2	8.0749			total wgt sample	
757D D2	8.0465			297.75g	
757 D4	8.0517				
757D D4	8.0208			rocks removed	
757 D7	8.0197			87.29g	
757D D7	8.0648				
757 D10	8.0357			% rock = $\frac{87.29}{297.75}$ = 29.3%	
757D D10	8.0472				
757 D14	8.0893				
757D D14	8.0464				
757 D4	8.0858				
757D D21	8.0432				
757 DX	8.0631				

Analyst Signature: Juan Herrera / James Mohan Date: 09/09/11

Reviewed by: Date: 10/13/11

Continued from 15-00133

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continued to 15-00135

010032

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 00135_

Book I.D. # _10-0406-057_

Analysis: ASTM C1733
Method (circle) Digestion / Distillation / [✓ Extraction] / Bomb
Client: Fluor B&W Portsmouth
Project #: 16526.05.006
Task Order#: 110825-10, 110915-9
TAP#: N/A

Balance ID: 88
Digestion Apparatus: N/A
LCS ID: N/A
Notes / Prep: See pg. 15-00132
Pipette ID: 5000- 1000- 200-
Temperature: N/A
LCS TV = N/A

	4/9/11	9/19/11			
Sample ID	Sample Wt [✓ (g)] Sample Vol (ml)	Final Volume (ml)			
473757D DX	8.0437	200mL		see note pg. 15-00134	
473758 D1	8.0745				
758D D1	8.0861				
758 D2	8.0443				
758D D2	8.0445				
758 D4	8.0728				
758D D4	8.0356				
758 D7	8.0296				
758D D7	8.0866				
758 D10	8.0304				
758D D10	8.0069				
758 D14	8.0541				
758D D14	8.0656				
758 D21	8.0299				
758D D21	8.0876				
758 DX	8.0604				
758D DX	8.0928				
473768 D1	8.0355				
768D D1	8.0315				
768 D2	8.0750				
768D D2	8.0234				

Analyst Signature: James Maben
Date: 9/9/11
Reviewed by:
Date: 10/13/11

continued from 15-00134

010033

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 00136_

Book I.D. # _10-0406-057_

Analysis: ASTM C1733

Method (circle) Digestion / Distillation / [✓ Extraction] / Bomb

Client: Fluor B&W Portsmouth

Project #: 16526.05.006

Task Order#: 110825-10, 110915-9

TAP#: N/A

Balance ID: 88 ~~(473768)~~ ~~(473769)~~ / ~~12~~ TE 10/13/11 14

Digestion Apparatus: N/A

LCS ID: N/A

Notes / Prep: See pg ~~12~~ 15-00132 TE 9/9/11

Pipette ID: 5000-1 1000-1 200-1

Temperature: N/A

LCS TV = N/A

Sample ID		9/9/11 Sample Wt (g) Sample Vol (ml)	9/19/11 Final Volume (ml)			
473768	D1	8.0774	200mL			
768D	D1	8.0671				
768	D7	8.0249				
768D	D7	8.0789				
768	D10	8.0212				
768D	D10	8.0990				
768	D4	8.0250				
768D	D4	8.0341				
768	D21	8.0662				
768D	D21	8.0729				
768	DX	8.0629				
768D	DX	8.0648				
473769	D1	8.0264				
769D	D1	8.0510				
769	D2	8.0366				
769D	D2	8.0899				
769	D4	8.0243				
769D	D4	8.0712				
769	D7	8.0295				
769D	D7	8.0865				
769	D10	8.0158				

Analyst Signature: M. Mendoza / James Mehen Date: 9/9/11

Reviewed by: Date: 10/13/11

continued from 15-00135

FRM-277 (Rev 4/Dec 10)

Continue to 15-00137

Southwest Research Institute
WC Sample Prep Logbook

Book/Page: 15_ 00137

Book I.D. # 10-0406-057

Analysis: ASTM C1733
Method (circle) Digestion / Distillation / [✓ Extraction] / Bomb
Client: Fluor B&W Portsmouth
Project #: 16526.05.006
Task Order#: 110825-10, 110915-9
TAP#: N/A

Balance ID: 12 (473770) / 88 (473769)
Digestion Apparatus: N/A
LCS ID: N/A
Notes / Prep: See pg. 15-00132
Pipette ID: 5000- — 1000- — 200- —
Temperature: N/A
LCS TV = N/A

Sample ID	9/9/11 Sample [✓ Wt (g)] Sample Vol (ml)	9/19/11 Final Volume (ml)			
473769D D10	8.0275	200ml			
769 D14	8.0328				
769D D14	8.0055				
769 D21	8.0346				
769D D21	8.0527				
769 DX	8.0030				
769D DX	8.0625				
473770 D1	8.0808			large rocks remove	
770D D1	8.0879				
770 D2	8.0440			sample weight	
770D D2	8.0448			*~~28G~~ 132.25g	
770 D4	8.0513			rock weight	
770D D4	8.0506			2.02g	
770 D7	8.0613			%rock $\frac{2.02}{132.25}$ x100 = 1.63%	
770D D7	8.0729				
770 D10	8.0635				
770D D10	8.0356				
770 D14	8.0279				
770D D14	8.0773				
770 D21	8.0852				
770D D21	8.0463				

*TE SAM 9/9/11

Analyst Signature: Mayra Herrera / M. Mendoza Date: 09/09/11
Reviewed by: Date: 10/13/11

FRM-277 (Rev 4/Dec 10)

Continued from 15-00136

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 00138_

Book I.D. # _10-0406-057_

Analysis: ASTM C1733

Project #: 16526.05.006

Method (circle) Digestion / Distillation / [✓ Extraction] / Bomb

Task Order#: 110825-10, 110915-9

Client: Fluor B&W Portsmouth

TAP#: N/A

Balance ID: (473770+473771) 12 / 88 (473772)

Pipette ID: 5000- — 1000- — 200- —

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: N/A

LCS TV = N/A

Notes / Prep: See pg. 15-00132

Sample ID	Sample Wt (g) Sample Vol (ml)	Final Volume (ml)			
	9/9/11	9/19/11			
473770 DX	8.0167	200mL		↑ see pg. 15-137	
473770D DX	7.8777	↓			
473771 D1	8.0005				
771D D1	8.0044				
771 D2	8.0097				
771D D2	8.0507				
771 D4	8.0303				
771D D4	8.0947				
771 D7	8.0507				
771D D7	8.0816				
771 D10	8.0287				
771D D10	8.0090				
771 D14	8.0449				
771D D~~X~~14 *	8.0394				
771 D~~X~~21 *	8.0118				
771D D~~X~~21 *	8.0~~0~~100				
771 DX	8.0405				
↓ 771D DX	8.0350				
473772 D1	8.0539				
772D D1	8.0278				
↓ 772 D2	8.0578	↓			

* (EE) 9/9/11 mm

Analyst Signature:

Date: 9/9/11

Reviewed by:

Date: 10/13/11

continued from 15-00137

continued to 15-00139

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Southwest Research Institute
WC Sample Prep Logbook

Book/Page: _15_ 00139_

Book I.D. # _10-0406-057_

Analysis: ASTM C1733

Method (circle) Digestion / Distillation / [✓ Extraction] / Bomb

Client: Fluor B&W Portsmouth

Project #: 16526.05.006

Task Order#: 110825-10, 110915-9

TAP#: N/A

Balance ID: (473778) 12 / 88 (473772)

Digestion Apparatus: N/A

LCS ID: N/A

Notes / Prep: See pg 15-00132 *TE JAM 9/10/11

9/9/11

Pipette ID: 5000-✓ 1000-✓ 200-✓

Temperature: N/A

LCS TV = N/A

Sample ID	Sample Wt [✓ (g)] Sample Vol (ml)	Final Volume (ml)			
473772D D2	8.0587	200ml			
772~~D~~* D4	8.0596		large rocks removed		
772D D4	8.0637				
772~~D~~* D7	8.0883		sample weight = 170.6273g		
772D D7	8.0745				
772~~D~~* D10	8.0441		rock weight = 5.0573g		
772D D10	8.0592				
772~~D~~* D14	8.0320				
772D D14	8.0380		% rock = $\frac{5.0573g}{170.6273g}$ = 2.96%		
772~~D~~* D21	8.0273				
772D D21	8.0656				
772~~D~~* DX	8.0519				
772D DX	8.0761				
473778 D1	8.0005				
778D D1	8.0740				
778 D2	8.0150				
778D D2	8.0549				
778 D4	8.0124				
778D D4	8.0834				
778 D7	8.0741				
778D D7	8.0591				

Analyst Signature: Judy Flores Date: 9/9/11

Reviewed by: Date: 10/13/11

Continued from 15_00138

Contin

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Southwest Research Institute
WC Sample Prep Logbook

Book/Page: 15 00140

Book I.D. # 10-0406-057

Analysis: ASTM C1733

Project #: 16526.05.006

Method (circle) Digestion / Distillation / [✓ Extraction] / Bomb

Task Order#: 110825-10, 110915-9

Client: Fluor B&W Portsmouth

TAP#: N/A

Balance ID: 12 (473778) / 12

Pipette ID: 5000- / 1000- / 200- /

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: N/A

LCS TV = N/A

Notes / Prep: *Sample 473045 initially had 4g wgt more sample was aquired so final wgt was brought up to 8g 9/9/11

Sample ID	Sample Wt (g)	Final Volume	Final (wgt)	Final volume	
	Sample Vol (ml)	(ml) 9/19/11	g	(mL) 9/19/11	
473778 D10	8.0917	?		200mL	
778D D10	8.0261				
778 D14	8.0664				
778D D14	8.0210				
778 D21	8.0456				
778D D21	8.0535				
778 DX	8.0414				
778D DX	8.0311				
473045* D14	4.0090	4.0487	8.0577		
045D D14	4.0014	4.0930	8.0944		
045 D21	4.0047	4.0576	8.0623		
045D D21	4.0084	4.009~~7~~8 (RE) 9/19/11 mm	8.0182		
045 D~~4~~7	4.0062	4.0864	8.0926		
045D D~~4~~7	4.0063	4.0392	8.0455		
045 *D1~~0~~7	4.0006	4.0*~~7~~681	8.0687		
045D *D1~~0~~7	4.0041	4.0320	8.0361		
045 D10	4.0113	4.0923	8.*~~0~~1036		
045D D10	4.0128	4.0472	8.0600		
		*(RE) 9/19/11 mm			

TE 09/13/11 jau
TE 09/13/11 jau

Analyst Signature: Judy Herrera / M. Mendoza

Date: 9/9/11

Reviewed by: J Rangel

Date: 10/13/11

continued from 15-00139

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Tc99 Data for Distribution Coefficient

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-190
Prep Date: 30-Sep-11

WAN

✓ JW 10/25/11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer %Rec	No Tracer % error
PBWJ30JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWJ30JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWJ30JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-0	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-7	0.10	50.0	0.00200	50.0	0.100	10.00		
473754	0.10	50.0	0.00200	50.0	0.100	10.00		
473754D	0.10	50.0	0.00200	50.0	0.100	10.00		
473755	0.10	50.0	0.00200	50.0	0.100	10.00		
473755D	0.10	50.0	0.00200	50.0	0.100	10.00		
473756	0.10	50.0	0.00200	50.0	0.100	10.00		
473756D	0.10	50.0	0.00200	50.0	0.100	10.00		
473757	0.10	50.0	0.00200	50.0	0.100	10.00		
473757D	0.10	50.0	0.00200	50.0	0.100	10.00		
473758	0.10	50.0	0.00200	50.0	0.100	10.00		
473758D	0.10	50.0	0.00200	50.0	0.100	10.00		
473768	0.10	50.0	0.00200	50.0	0.100	10.00		
473768D	0.10	50.0	0.00200	50.0	0.100	10.00		
473769	0.10	50.0	0.00200	50.0	0.100	10.00		
473769D	0.10	50.0	0.00200	50.0	0.100	10.00		
473770	0.10	50.0	0.00200	50.0	0.100	10.00		
473770D	0.10	50.0	0.00200	50.0	0.100	10.00		
473771	0.10	50.0	0.00200	50.0	0.100	10.00		
473771D	0.10	50.0	0.00200	50.0	0.100	10.00		
473772	0.10	50.0	0.00200	50.0	0.100	10.00		
473772D	0.10	50.0	0.00200	50.0	0.100	10.00		
473778	0.10	50.0	0.00200	50.0	0.100	10.00		
473778D	0.10	50.0	0.00200	50.0	0.100	10.00		
473045	0.10	50.0	0.00200	50.0	0.100	10.00		
473045D	0.10	50.0	0.00200	50.0	0.100	10.00		
PBWJ30JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWJ30JV3	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWJ30JV4	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

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Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-190
Prep Date: 30-Sep-11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

Liquid Scintilliation Results

Lab Id	Analyte	Matrix	Time (m)	tSIE	Raw cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	303.20	14.85	8.50	15.27	97.26	
BKG-2	Tc-99	Water	60	357.83	15.46	8.23	15.65	98.81	
				AVG BKG	15.16	AVG BKG	15.46		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWJ30JV1	Tc-99	Water	60	349.77	15.86	8.11	0.71	98.64		3.22E+00	3.29E+00	1.09E+01	3.28E+00		PB < 1.65*TPU	
LCSWJ30JV1	Tc-99	Water	60	359.19	1098.57	0.78	1096.24	98.83		4.94E+03	2.85E+02	1.09E+01	1.96E+01	5000	98.8%	-0.012
LCSWJ30JV2	Tc-99	Water	60	324.95	1098.44	0.78	1107.43	97.82		4.99E+03	2.88E+02	1.10E+01	1.98E+01	5000	99.8%	-0.002
Blank-0	Tc-99	Water	60	353.03	160.46	2.24	147.20	98.71		6.63E+02	3.90E+01	1.09E+01	7.81E+00			
Blank-7	Tc-99	Water	60	358.73	151.93	2.15	138.39	98.83		6.23E+02	3.67E+01	1.09E+01	7.61E+00			
473754	Tc-99	Water	60	346.73	143.25	2.22	129.94	98.58		5.85E+02	3.46E+01	1.09E+01	7.42E+00	RPD	Dup Evaluation	
473754D	Tc-99	Water	60	347.43	133.93	2.31	120.47	98.59		5.43E+02	3.21E+01	1.09E+01	7.20E+00	7.56	0.90	Pass
473755	Tc-99	Water	60	325.70	124.30	2.40	111.54	97.85		5.02E+02	2.98E+01	1.10E+01	7.02E+00	RPD	Dup Evaluation	
473755D	Tc-99	Water	60	316.30	124.19	2.40	111.88	97.46		5.04E+02	2.99E+01	1.10E+01	7.04E+00	0.30	0.04	Pass
473756	Tc-99	Water	60	346.34	135.77	2.29	122.36	98.57		5.51E+02	3.26E+01	1.09E+01	7.25E+00	RPD	Dup Evaluation	
473756D	Tc-99	Water	60	308.54	134.20	2.30	122.45	97.22		5.52E+02	3.26E+01	1.11E+01	7.31E+00	0.07	0.01	Pass
473757	Tc-99	Water	60	346.72	127.65	2.36	114.12	98.58		5.14E+02	3.05E+01	1.09E+01	7.05E+00	RPD	Dup Evaluation	
473757D	Tc-99	Water	60	354.99	132.01	2.32	118.33	98.75		5.33E+02	3.16E+01	1.09E+01	7.14E+00	3.63	0.43	Pass
473758	Tc-99	Water	60	355.76	140.38	2.25	126.80	98.76		5.71E+02	3.37E+01	1.09E+01	7.34E+00	RPD	Dup Evaluation	
473758D	Tc-99	Water	60	346.61	139.43	2.26	126.07	98.58		5.68E+02	3.36E+01	1.09E+01	7.33E+00	0.58	0.07	Pass
473768	Tc-99	Water	60	338.41	139.61	2.25	126.50	98.38		5.70E+02	3.37E+01	1.09E+01	7.35E+00	RPD	Dup Evaluation	
473768D	Tc-99	Water	60	369.12	136.58	2.28	122.66	98.99		5.53E+02	3.27E+01	1.09E+01	7.24E+00	3.08	0.37	Pass
473769	Tc-99	Water	60	333.44	136.10	2.29	123.19	98.18		5.55E+02	3.28E+01	1.10E+01	7.28E+00	RPD	Dup Evaluation	
473769D	Tc-99	Water	60	325.82	139.07	2.26	126.62	97.86		5.70E+02	3.37E+01	1.10E+01	7.38E+00	2.75	0.33	Pass
473770	Tc-99	Water	60	327.71	136.64	2.28	124.05	97.93		5.59E+02	3.30E+01	1.10E+01	7.32E+00	RPD	Dup Evaluation	
473770D	Tc-99	Water	60	373.20	139.05	2.26	125.18	98.97		5.64E+02	3.33E+01	1.09E+01	7.30E+00	0.91	0.11	Pass
473771	Tc-99	Water	60	334.53	139.43	2.26	126.53	98.22		5.70E+02	3.37E+01	1.09E+01	7.36E+00	RPD	Dup Evaluation	
473771D	Tc-99	Water	60	356.25	139.02	2.26	125.41	98.77		5.65E+02	3.34E+01	1.09E+01	7.31E+00	0.89	0.11	Pass
473772	Tc-99	Water	60	339.98	134.35	2.30	121.08	98.44		5.45E+02	3.23E+01	1.09E+01	7.22E+00	RPD	Dup Evaluation	
473772D	Tc-99	Water	60	329.38	136.09	2.28	123.40	98.00		5.56E+02	3.29E+01	1.10E+01	7.30E+00	1.90	0.23	Pass
473778	Tc-99	Water	60	320.99	136.16	2.28	123.92	97.65		5.58E+02	3.30E+01	1.10E+01	7.33E+00	RPD	Dup Evaluation	
473778D	Tc-99	Water	60	354.04	135.48	2.29	121.87	98.73		5.49E+02	3.25E+01	1.09E+01	7.23E+00	1.66	0.20	Pass
73045	Tc-99	Water	60	354.79	134.75	2.29	121.12	98.74		5.46E+02	3.23E+01	1.09E+01	7.21E+00	RPD	Dup Evaluation	
73045D	Tc-99	Water	60	350.68	133.27	2.31	119.72	98.66		5.39E+02	3.19E+01	1.09E+01	7.18E+00	1.16	0.14	Pass
BWJ30JV2	Tc-99	Water	60	342.71	13.63	9.04	-1.55	98.50		-6.97E+00	3.19E+00	1.09E+01	3.17E+00		PB < 1.65*TPU	
CSWJ30JV3	Tc-99	Water	60	350.22	1099.66	0.78	1099.35	98.65		4.95E+03	2.86E+02	1.09E+01	1.97E+01	5000	99.0%	-0.010
CSWJ30JV4	Tc-99	Water	60	338.16	1101.97	0.78	1104.82	98.37		4.98E+03	2.88E+02	1.09E+01	1.98E+01	5000	99.5%	-0.005

Notes: Day #7 results.

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-190
Prep Date: 30-Sep-11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

Sample Calculations
dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

TPU Factors	%
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	5.77%

Assay Definition

```
Assay Description:

Assay Type: DPM (Single)
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111003_1114\Replay_20111004_225324
Raw Results Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111003_1114\20111003_1114.results
Assay File Name: C:\Packard\TriCarb\Assays\99tc_dpm.lsa
```

Count Conditions

```
Nuclide: 99tc
   Quench Indicator: tSIE/AEC
   External Std Terminator (sec): 10 sec
   Pre-Count Delay (min): 0.00
Quench Set:
   Low Energy: 99Tc
Count Time (min): 60.00
Count Mode: Normal
Assay Count Cycles: 1          Repeat Sample Count: 1
#Vials/Sample: 1               Calculate % Reference: Off
```

Fluor B&W Portsmouth
16526.05.00X
TD# 110825-10, 110915-9
12-190
WAN

Background Subtract

```
Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions        LL      UL
A             0.0   292.0
B             0.0   292.0
C             0.0  2000.0
```

Count Corrections

```
Static Controller: On           Luminescence Correction: On
Colored Samples: On             Heterogeneity Monitor: Off
Coincidence Time (nsec): 18     Delay Before Burst (nsec): 75
```

Instrument Block Data

```
MODEL=Tri-Carb 3180TR/SL
VERSION=2.12
SERIAL=084368
```

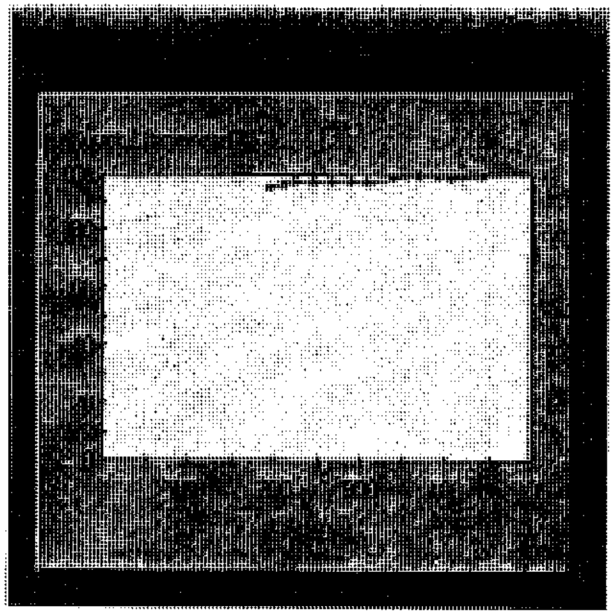
IPA Block Data

```
Software Version IC: 2.12
Software Version EC: 3.00
Instrument Model: Tri-Carb 3180TR/SL
Instrument Serial Number: 084368
3H Chi Square: 9.02    Date Processed: 10/3/2011 2:49:05 AM
14C Chi Square: 19.91   Date Processed: 10/3/2011 2:49:05 AM
3H E^2/B (1-18.6 keV): 1629.47  Date Processed: 10/3/2011 2:49:05 AM
14C E^2/B (4-156 keV): 6115.31   Date Processed: 10/3/2011 2:49:05 AM
3H Efficiency (1-18.6 keV): 64.59  Date Processed: 10/3/2011 2:49:05 AM
14C Efficiency (4-156 keV): 93.42  Date Processed: 10/3/2011 2:49:05 AM
IPA Background Date Processed: 10/3/2011 2:49:05 AM
3H Background CPM (1-18.6 keV): 2.56  Date Processed: 10/3/2011 2:49:05 AM
14C Background CPM (4-156 keV): 1.43  Date Processed: 10/3/2011 2:49:05 AM
3H Calibration DPM: 281700
3H Reference Date: 6/27/2008
14C Calibration DPM: 123000
```

Cycle 1 Results

Quench Curve Block Data

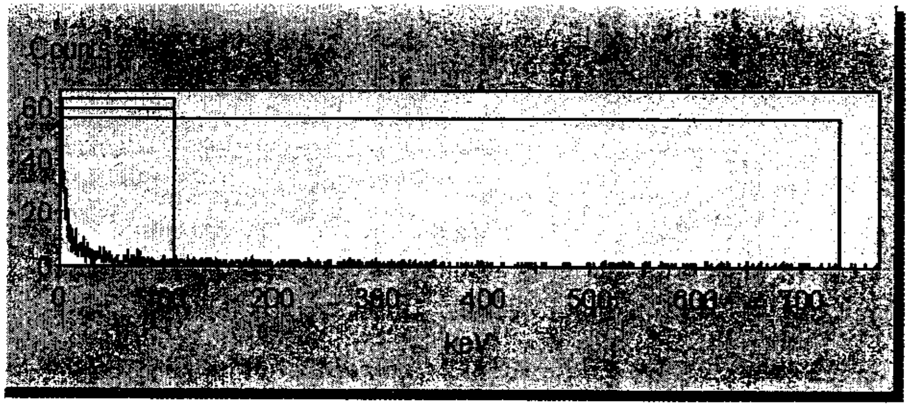
```
20111003_1114.results
```



```
Date Acquired: 02/15/2011
Date Modified:
99Tc in A

tSIE/AEC      Count Efficiency (%)
443.42        99.12
406.31        98.84
367.18        99.00
339.52        98.43
310.34        97.21
291.55        97.35
267.03        97.31
246.83        97.51
224.44        96.91
211.47        96.41
195.92        95.37
```

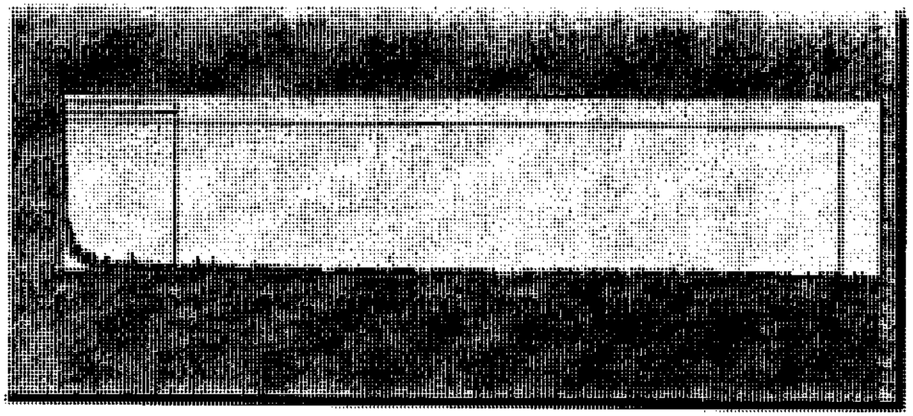
```
 S#  P#  PID  Count Time        SMPL ID        CPMA     DPM1      SIS     tSIE  MESSAGES  A:2S%    ELTIME   LUM
DATE           TIME  Eff Nucl In A
  1   5   19      60.00          Bkg.-1       14.85       15   418.29   303.20             8.50   0:00:02   16
10/3/2011  11:15:53 AM       97.26
```

SpectraView Block Data



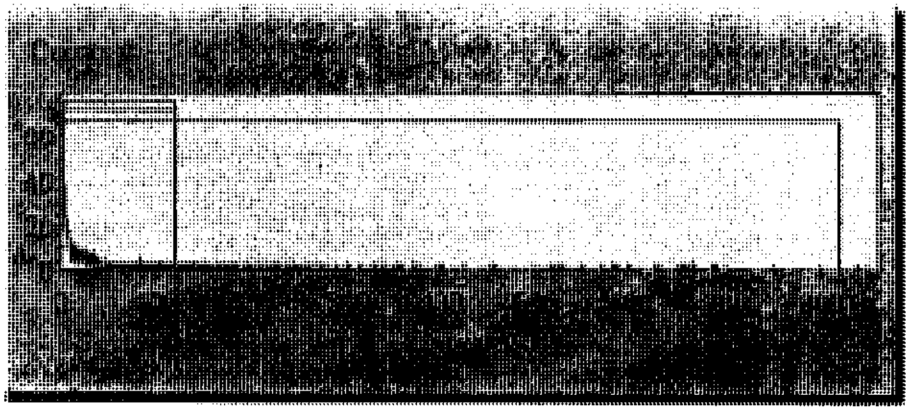
```
   2    5    19          60.00            Bkg.-2         15.46        16    467.77    357.83                8.23    0:00:03    16
10/3/2011    12:17:25 PM             98.81
```

SpectraView Block Data



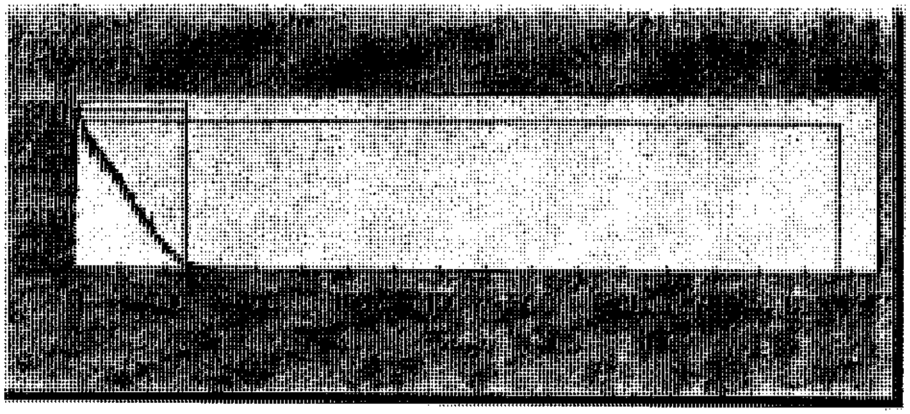
```
Missing vial 3.
   4    5    19          60.00          PBWJ30JV1        15.86        16    460.43    349.77                8.11    0:00:04    16
10/3/2011     1:18:57 PM             98.64
```

SpectraView Block Data



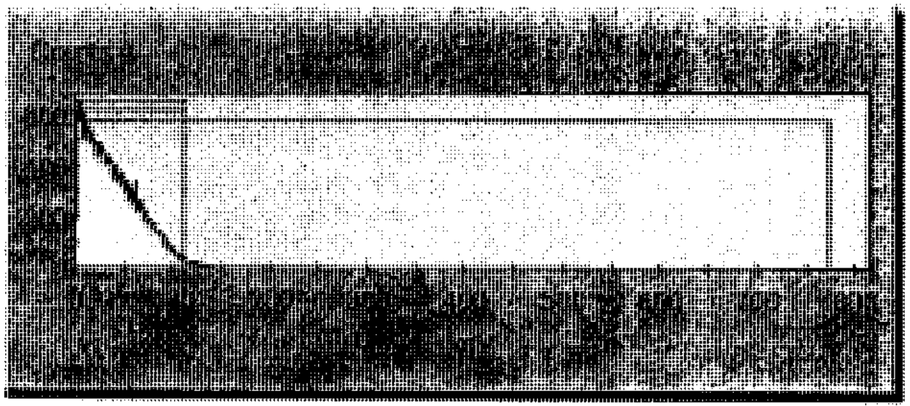
```
   5    5    19          60.00        LCSWJ30JV1      1098.57     1112    139.42    359.19                0.78    0:00:05     0
10/3/2011    2:20:28 PM               98.83
```

SpectraView Block Data

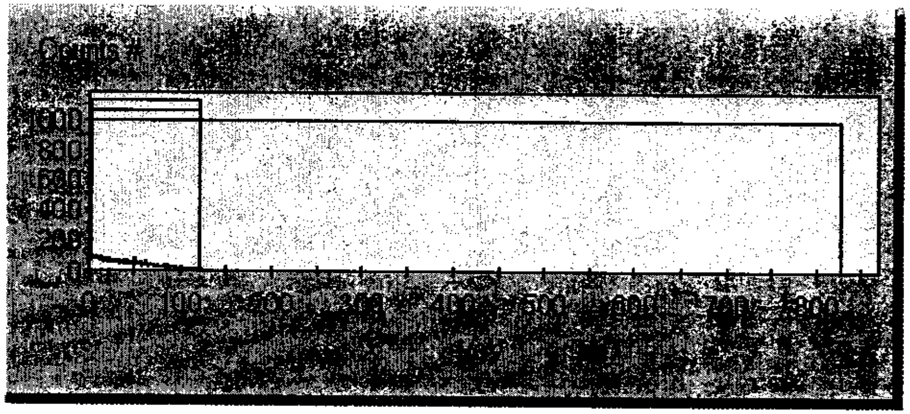


```
   6    5    19          60.00        LCSWJ30JV2      1098.44     1123    135.11    324.95                0.78    0:00:07     0
10/3/2011    3:22:01 PM               97.82
```

SpectraView Block Data

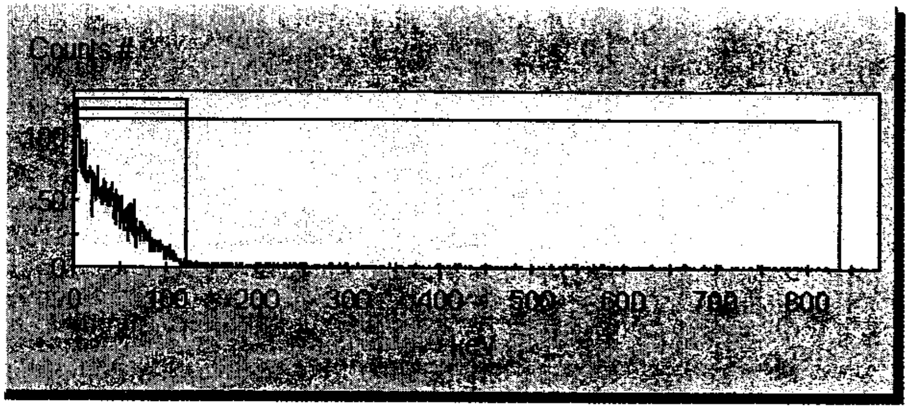


```
   7    5    19        60.00         Blank-0       160.46      163    169.10    353.03              2.24    0:00:08     9
10/3/2011    4:23:33 PM          98.71

SpectraView Block Data
```



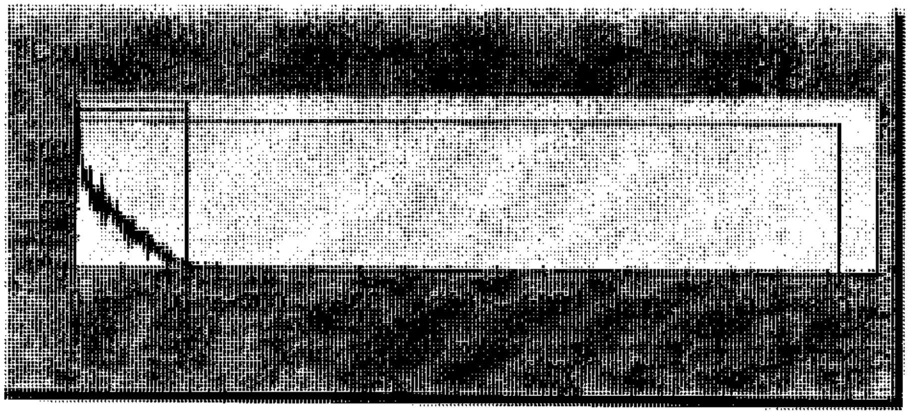
```
   8    5    19        60.00         Blank-7       151.93      154    190.20    358.73              2.15    0:00:09     3
10/3/2011    5:25:04 PM          98.83

SpectraView Block Data
```

010047



```
   9    5    19        60.00         473754-7        143.25       145    191.91    346.73                 2.22    0:00:10     3
10/3/2011    6:26:34 PM           98.58
```

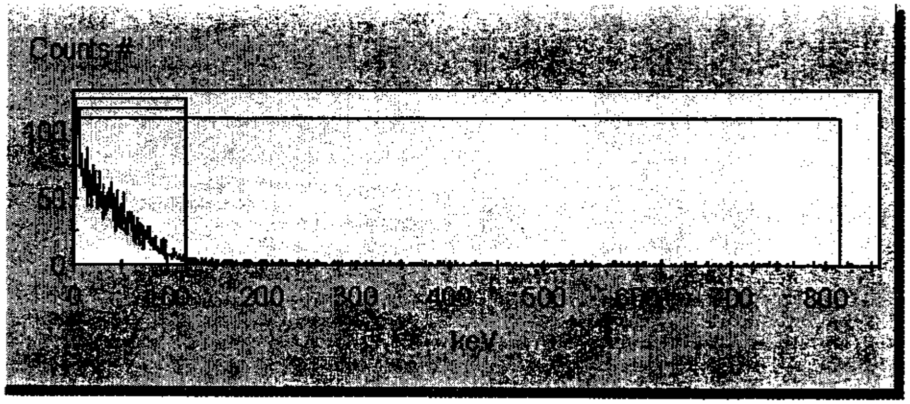
SpectraView Block Data



```
  10    5    19        60.00         473754D-7       133.93       136    190.35    347.43                 2.31    0:00:11     3
10/3/2011    7:28:05 PM           98.59
```

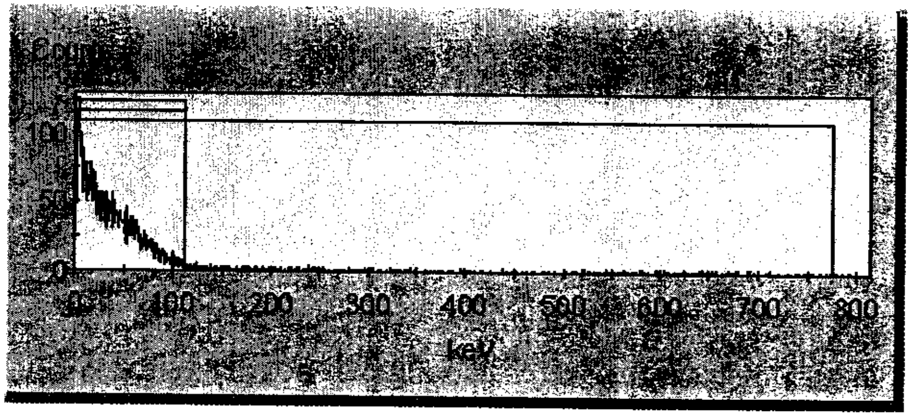
SpectraView Block Data

20111003_1114.results



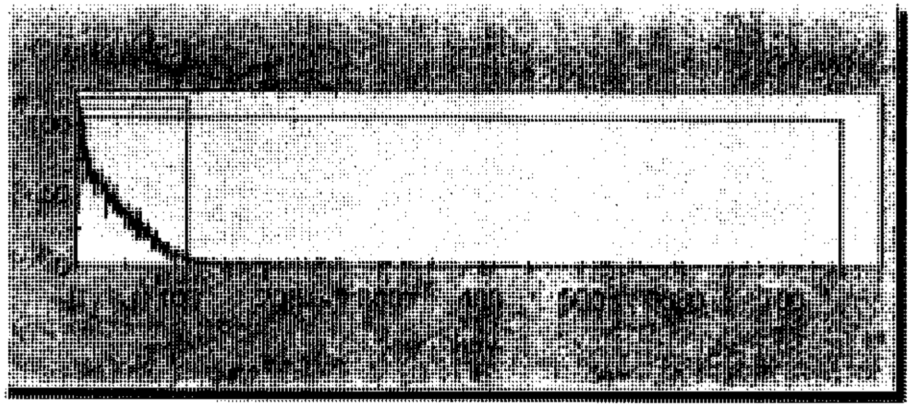
```
  11    5    19        60.00         473755-7       124.30      127    185.89    325.70              2.40    0:00:13     3
10/3/2011    8:29:37 PM            97.85
```

SpectraView Block Data



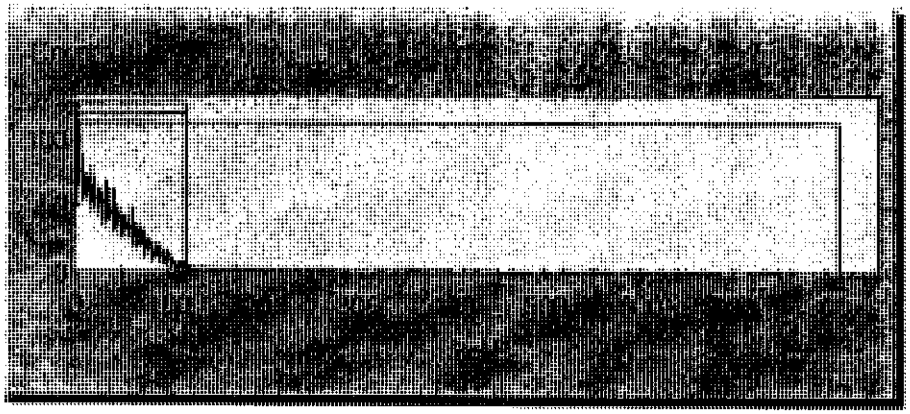
```
  12    5    19        60.00        473755D-7       124.19      127    186.21    316.30              2.40    0:00:14     3
10/3/2011    9:31:08 PM            97.46
```

SpectraView Block Data



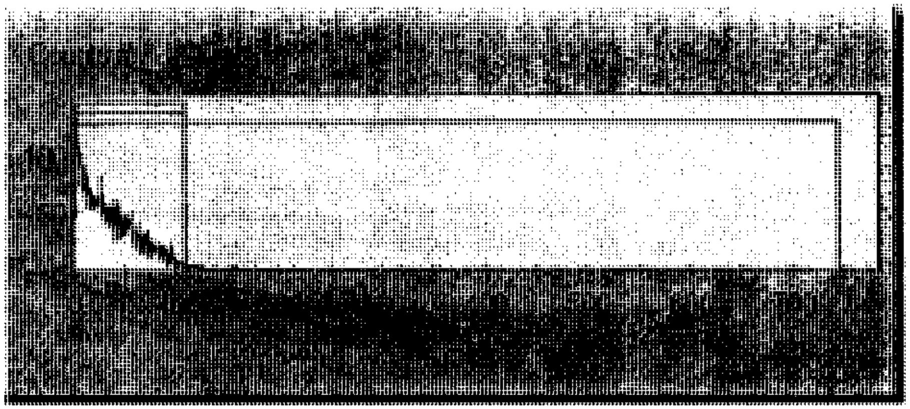
```
  13    5     9         60.00          473756-7        135.77       138    190.16    346.34                 2.29    0:00:15     3
10/3/2011  10:32:43 PM               98.57
```

SpectraView Block Data



```
  14    5     9         60.00          473756D-7       134.20       138    183.94    308.54                 2.30    0:00:16     3
10/3/2011  11:34:14 PM               97.22
```

SpectraView Block Data

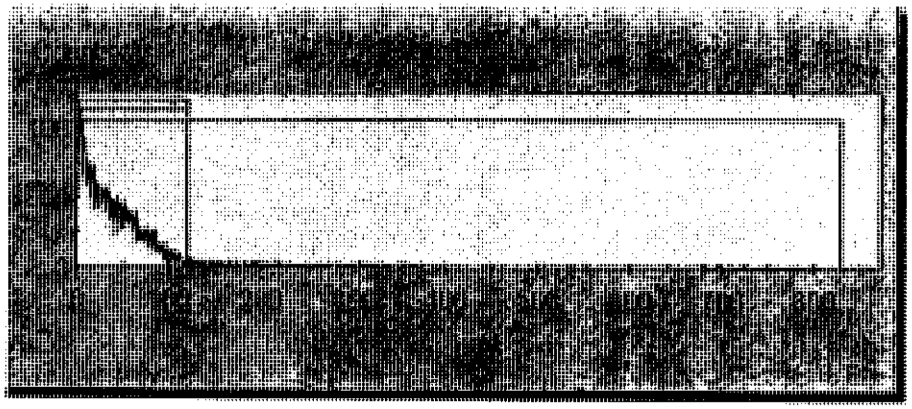


```
  15    5     9          60.00          473757-7        127.65       129    191.98    346.72              2.36    0:00:17     3
10/4/2011  12:35:45 AM             98.58
```

SpectraView Block Data

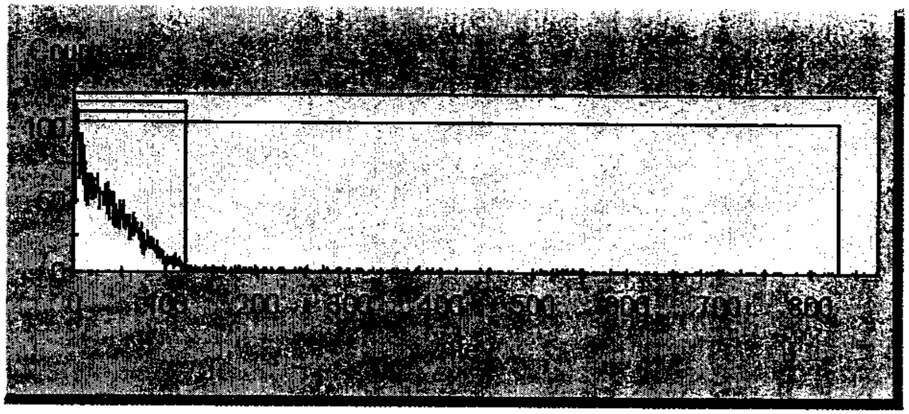
```
  16    5     9          60.00          473757D-7       132.01       134    183.62    354.99              2.32    0:00:18     3
10/4/2011   1:37:15 AM             98.75
```

SpectraView Block Data



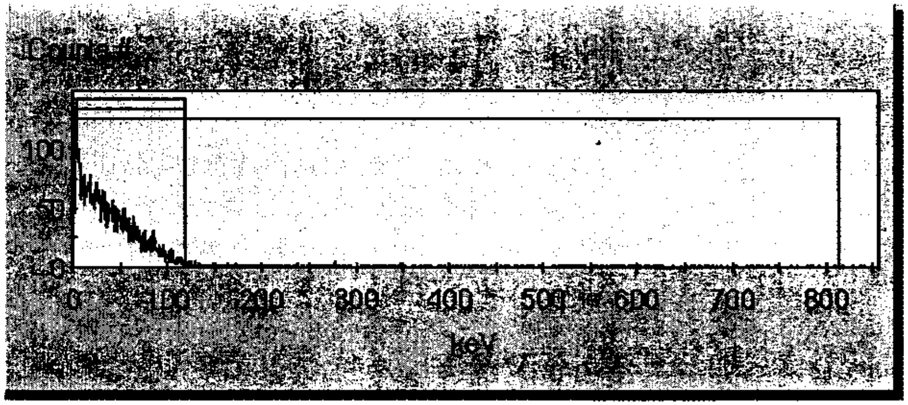
```
  17    5     9         60.00          473758-7        140.38       142    194.15    355.76              2.25   0:00:19     3
10/4/2011     2:38:46 AM              98.76
```

SpectraView Block Data



```
  18    5     9         60.00          473758D-7       139.43       141    191.89    346.61              2.26   0:00:21     3
10/4/2011     3:40:17 AM              98.58
```

SpectraView Block Data

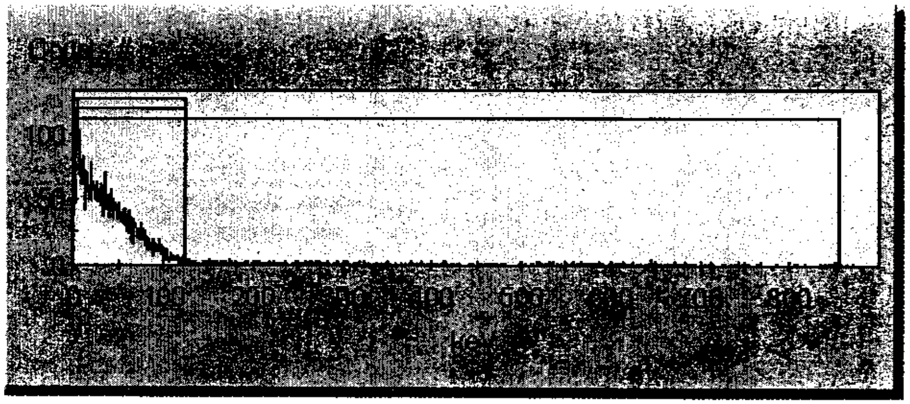


```
  19    5     9        60.00          473768-7        139.61      142    191.45    338.41              2.25    0:00:22     3
10/4/2011   4:41:48 AM              98.38
```

SpectraView Block Data

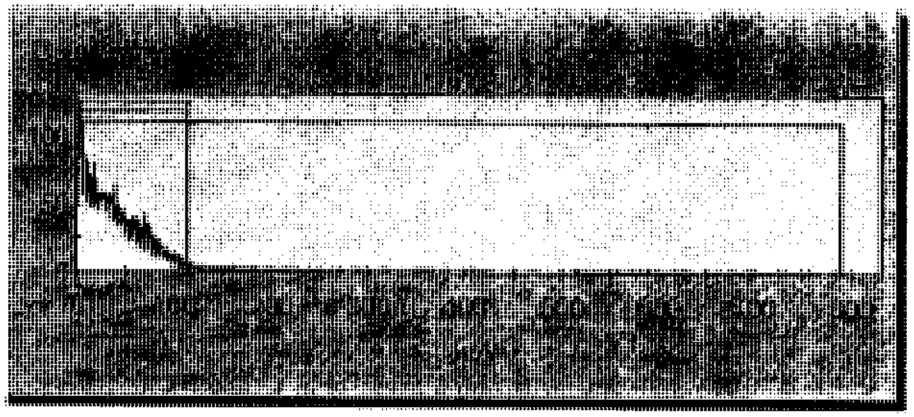
```
  20    5     9        60.00          473768D-7       136.58      138    193.13    369.12              2.28    0:00:23     3
10/4/2011   5:43:19 AM              98.99
```

SpectraView Block Data



```
  21    5     9       60.00          473769-7       136.10      139    191.46    333.44              2.29    0:00:24     3
10/4/2011    6:44:51 AM          98.18
```

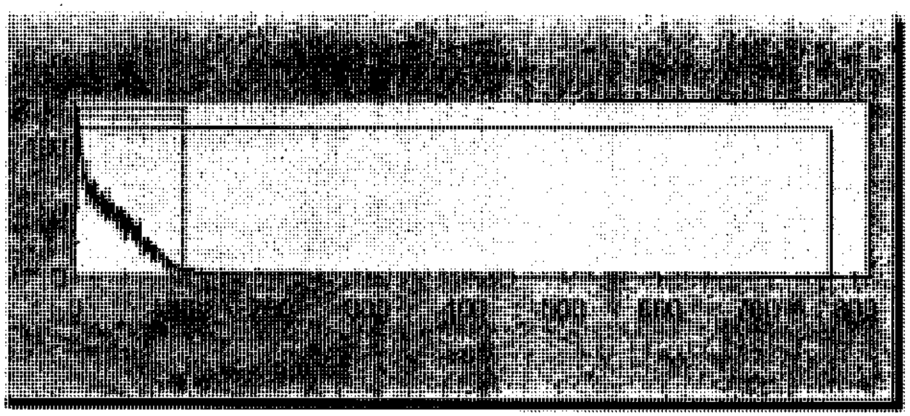
SpectraView Block Data



```
  22    5     9       60.00        4743769D-7       139.07      142    187.29    325.82              2.26    0:00:25     3
10/4/2011    7:46:22 AM          97.86
```

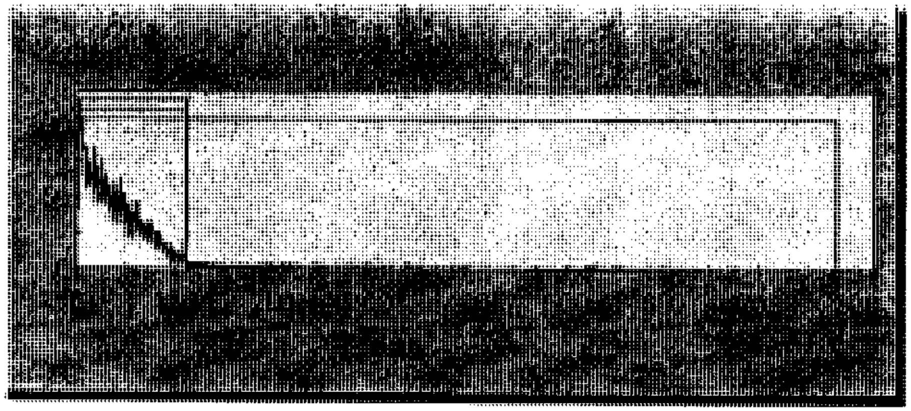
SpectraView Block Data

010054



```
  23   5     9        60.00          473770-7       136.64     140    190.05    327.71                 2.28    0:00:26     3
10/4/2011    8:47:54 AM            97.93
```

SpectraView Block Data

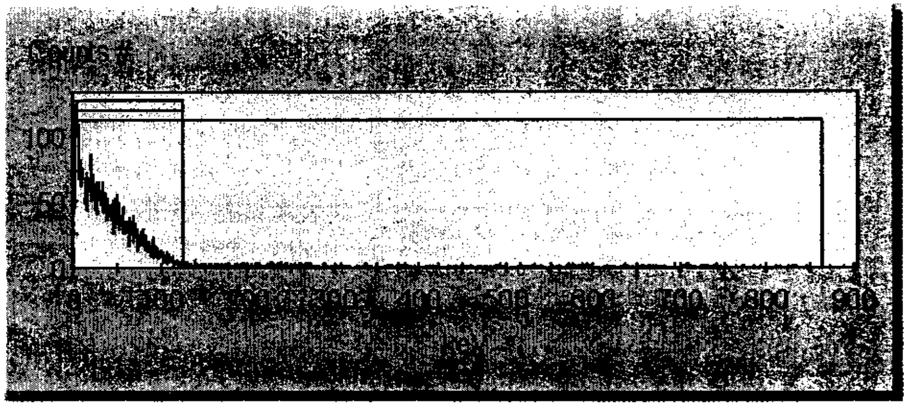


```
  24   5     9        60.00         473770D-7       139.05     140    189.60    373.20                 2.26    0:00:28     3
10/4/2011    9:49:24 AM            98.97
```

SpectraView Block Data

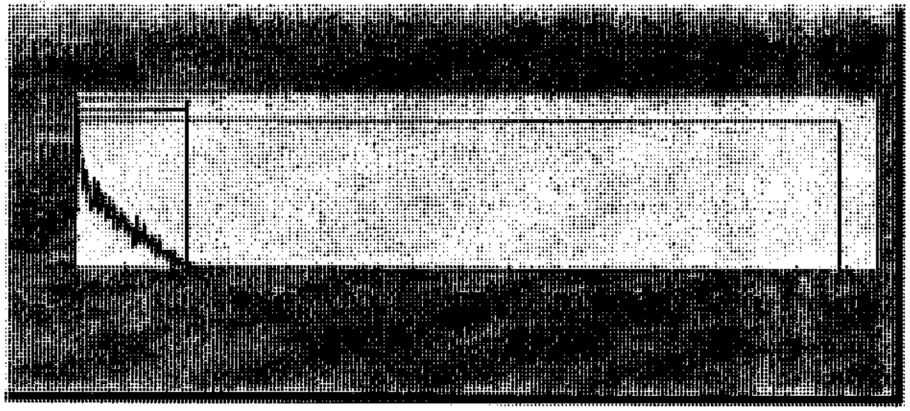
010055

20111003_1114.results



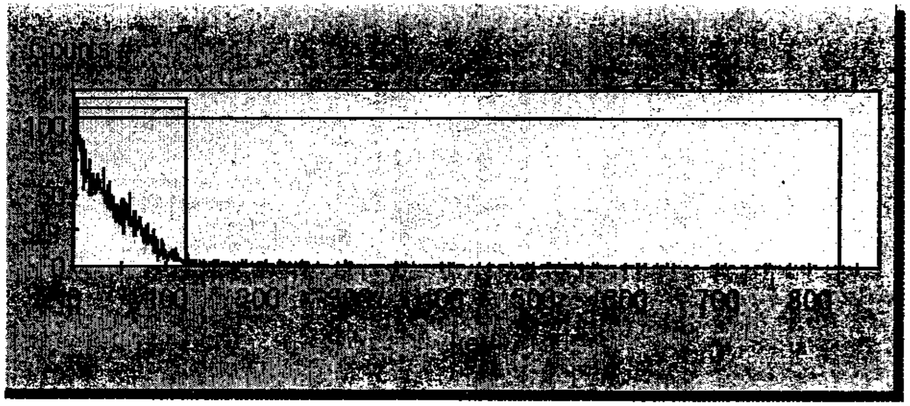
```
  25    5    1        60.00          473771-7       139.43      142    192.12    334.53                2.26    0:00:29     3
10/4/2011  10:51:02 AM             98.22
```

SpectraView Block Data



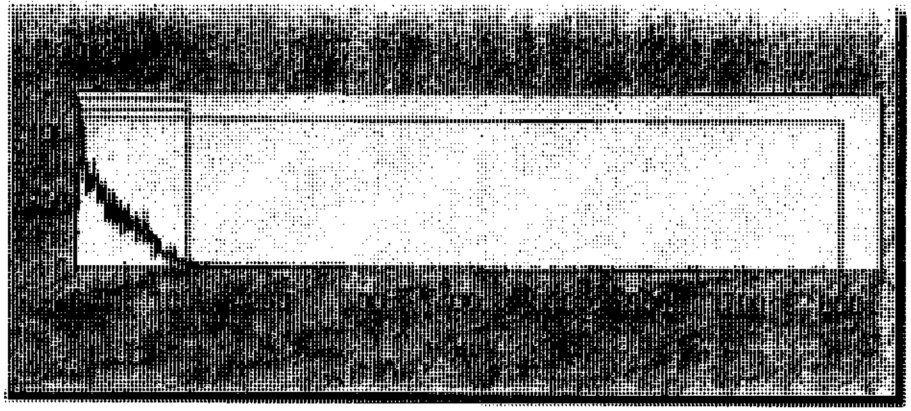
```
  26    5    1        60.00          473771D-7      139.02      141    191.32    356.25                2.26    0:00:30     3
10/4/2011  11:52:32 AM             98.77
```

SpectraView Block Data



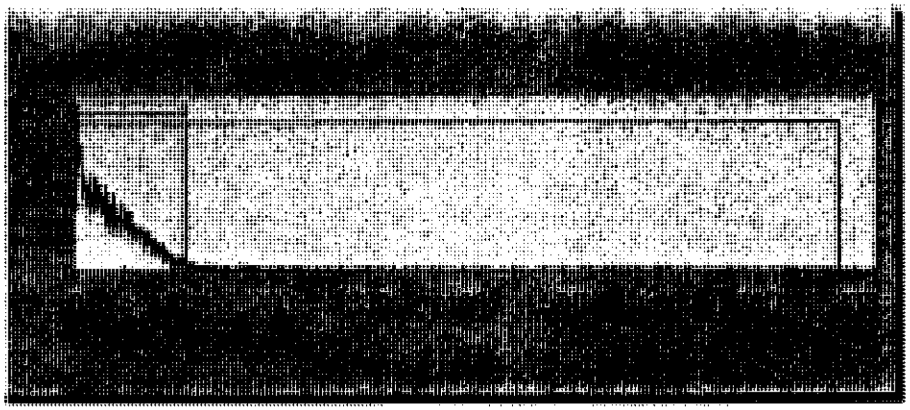
```
  27    5    1       60.00        473772-7       134.35      136    191.54    339.98                2.30   0:00:31     3
10/4/2011  12:54:04 PM          98.44
```

SpectraView Block Data



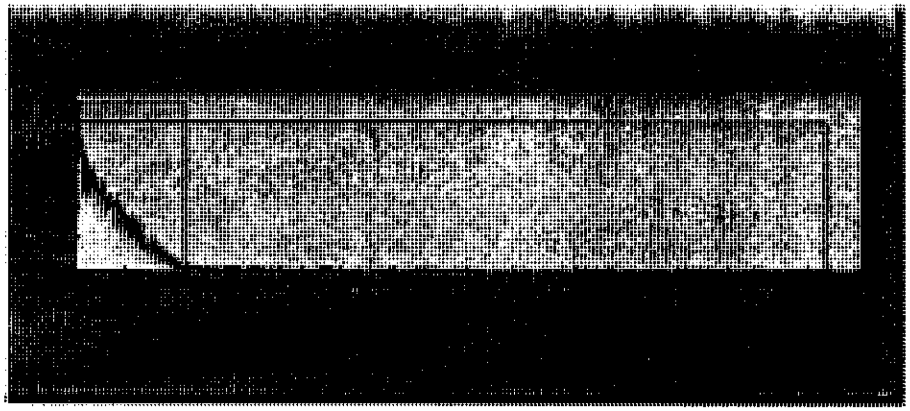
```
  28    5    1       60.00        473772D-7      136.09      139    196.47    329.38                2.28   0:00:32     3
10/4/2011   1:55:35 PM          98.00
```

SpectraView Block Data



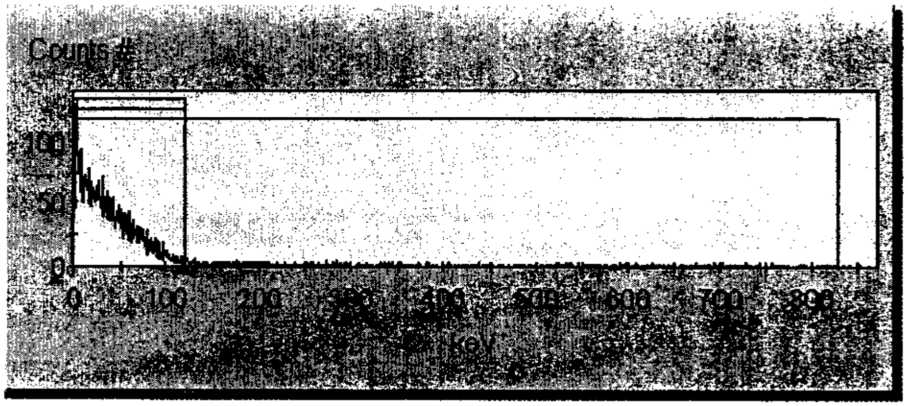
```
  29   5    1        60.00          473778-7       136.16       139   179.81   320.99              2.28   0:00:33     3
10/4/2011    2:57:06 PM             97.65
```

SpectraView Block Data

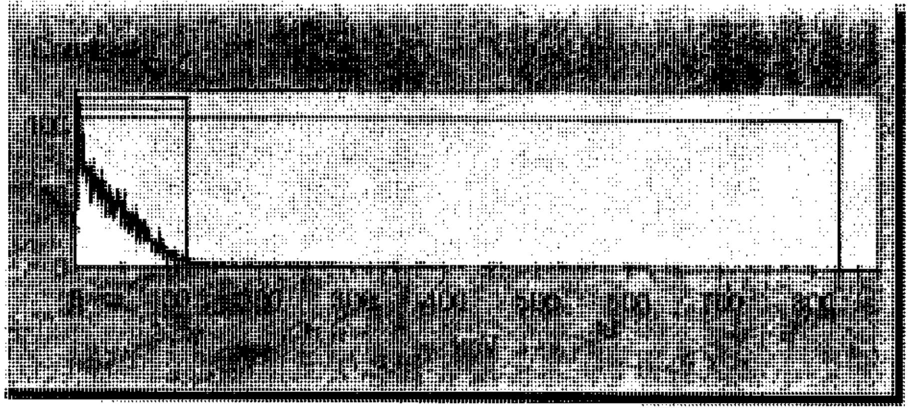


```
  30   5    1        60.00         473778D-7       135.48       137   205.32   354.04              2.29   0:00:34     3
10/4/2011    3:58:37 PM             98.73
```

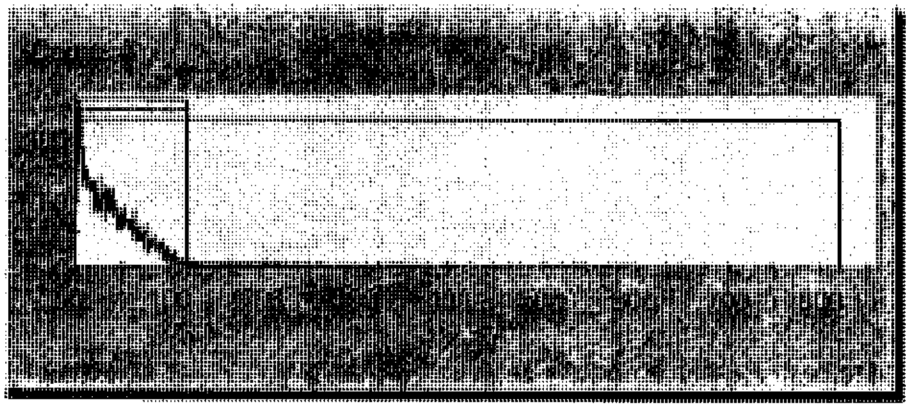
SpectraView Block Data



```
  31    5     1         60.00          473045-7        134.75       136    196.49    354.79                 2.29    0:00:35     3
10/4/2011     5:00:07 PM             98.74

SpectraView Block Data
```



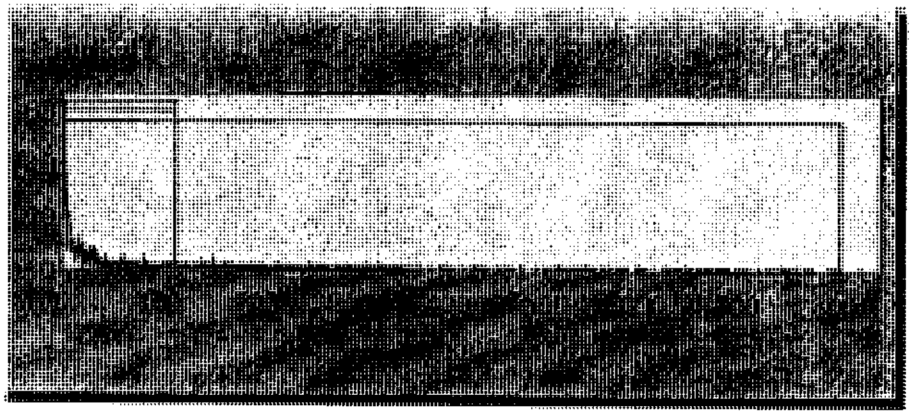
```
  32    5     1         60.00          473045D-7       133.27       135    185.21    350.68                 2.31    0:00:36     3
10/4/2011     6:01:38 PM             98.66

SpectraView Block Data
```



PBWJ30JV2

```
  33   5    1        60.00       Sample #33        13.63        14    486.68    342.71                9.04    0:00:37    17
10/4/2011   7:03:10 PM           98.50
```

SpectraView Block Data

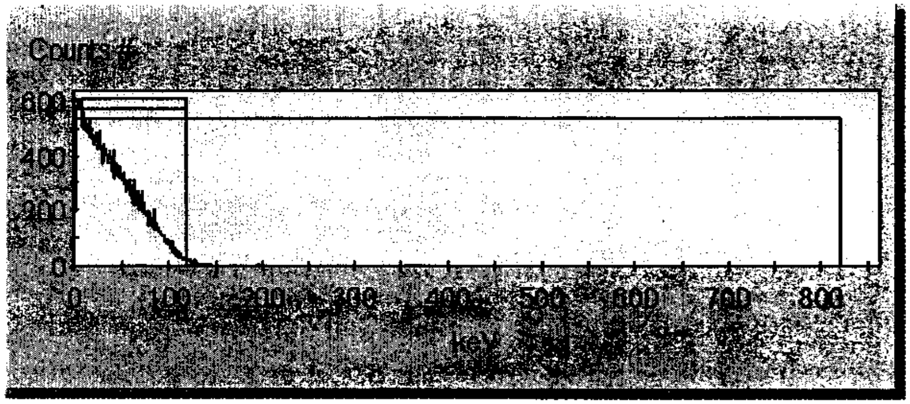


LCSWJ30JY3

```
  34   5    1        60.00       Sample #34      1099.66      1115    139.95    350.22                0.78    0:00:38     0
10/4/2011   8:04:40 PM           98.65
```

SpectraView Block Data

010060



LCSWJ30JV4

```
  35    5     1        60.00         Sample #35       1101.97     1120    136.59    338.16                 0.78    0:00:40     0
10/4/2011    9:06:14 PM              98.37
```

SpectraView Block Data

Southwest Research Institute, Division 1, Radiochemistry
LSC Bench Sheet
Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-192
Prep Date: 3-Oct-11
WAN

✓ JHW 10/25/11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer	
							%Rec	% error
PBWK03JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK03JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK03JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-10	0.10	50.0	0.00200	50.0	0.100	10.00		
473754	0.10	50.0	0.00200	50.0	0.100	10.00		
473754D	0.10	50.0	0.00200	50.0	0.100	10.00		
473755	0.10	50.0	0.00200	50.0	0.100	10.00		
473755D	0.10	50.0	0.00200	50.0	0.100	10.00		
473756	0.10	50.0	0.00200	50.0	0.100	10.00		
473756D	0.10	50.0	0.00200	50.0	0.100	10.00		
473757	0.10	50.0	0.00200	50.0	0.100	10.00		
473757D	0.10	50.0	0.00200	50.0	0.100	10.00		
473758	0.10	50.0	0.00200	50.0	0.100	10.00		
473758D	0.10	50.0	0.00200	50.0	0.100	10.00		
473768	0.10	50.0	0.00200	50.0	0.100	10.00		
473768D	0.10	50.0	0.00200	50.0	0.100	10.00		
473769	0.10	50.0	0.00200	50.0	0.100	10.00		
473769D	0.10	50.0	0.00200	50.0	0.100	10.00		
473770	0.10	50.0	0.00200	50.0	0.100	10.00		
473770D	0.10	50.0	0.00200	50.0	0.100	10.00		
473771	0.10	50.0	0.00200	50.0	0.100	10.00		
473771D	0.10	50.0	0.00200	50.0	0.100	10.00		
473772	0.10	50.0	0.00200	50.0	0.100	10.00		
473772D	0.10	50.0	0.00200	50.0	0.100	10.00		
473778	0.10	50.0	0.00200	50.0	0.100	10.00		
473778D	0.10	50.0	0.00200	50.0	0.100	10.00		
473045	0.10	50.0	0.00200	50.0	0.100	10.00		
473045D	0.10	50.0	0.00200	50.0	0.100	10.00		
PBWK03JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK03JV3	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK03JV4	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

010062

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-192
Prep Date: 3-Oct-11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

Liquid Scintilliation Results

Lab Id	Analyte	Matrix	Time (m)	tSIE	Raw cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	334.89	15.35	8.28	15.63	98.24	
BKG-2	Tc-99	Water	60	361.20	15.51	8.17	15.69	98.88	
				AVG BKG	15.43	AVG BKG	15.66		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWK03JV1	Tc-99	Water	60	334.94	14.70	8.51	-0.74	98.54		-3.34E+00	3.25E+00	1.10E+01	3.24E+00		PB < 1.65*TPU	
LCSWK03JV1	Tc-99	Water	60	351.21	1090.26	0.79	1089.32	98.67		4.91E+03	2.84E+02	1.10E+01	1.96E+01	5000	98.1%	-0.019
LCSWK03JV2	Tc-99	Water	60	367.28	1104.01	0.78	1099.58	99.00		4.95E+03	2.86E+02	1.10E+01	1.97E+01	5000	99.1%	-0.009
Blank-10	Tc-99	Water	60	336.66	155.59	2.13	142.57	98.31		6.42E+02	3.78E+01	1.10E+01	7.74E+00			
473754	Tc-99	Water	60	372.17	144.62	2.21	130.52	98.98		5.88E+02	3.47E+01	1.10E+01	7.43E+00	RPD	Dup Evaluation	
473754D	Tc-99	Water	60	349.09	141.87	2.24	128.20	98.63		5.77E+02	3.41E+01	1.10E+01	7.39E+00	1.80	0.22	Pass
473755	Tc-99	Water	60	376.27	135.96	2.29	121.80	98.96		5.49E+02	3.25E+01	1.10E+01	7.23E+00	RPD	Dup Evaluation	
473755D	Tc-99	Water	60	349.15	130.92	2.33	117.09	98.63		5.27E+02	3.12E+01	1.10E+01	7.13E+00	3.94	0.47	Pass
473756	Tc-99	Water	60	343.38	135.92	2.28	122.31	98.51		5.51E+02	3.26E+01	1.10E+01	7.26E+00	RPD	Dup Evaluation	
473756D	Tc-99	Water	60	360.39	139.40	2.25	125.40	98.86		5.65E+02	3.34E+01	1.10E+01	7.32E+00	2.49	0.30	Pass
473757	Tc-99	Water	60	353.49	125.35	2.39	111.35	98.72		5.02E+02	2.98E+01	1.10E+01	6.99E+00	RPD	Dup Evaluation	
473757D	Tc-99	Water	60	360.89	129.92	2.34	115.80	98.87		5.22E+02	3.09E+01	1.10E+01	7.09E+00	3.92	0.47	Pass
473758	Tc-99	Water	60	376.71	142.18	2.23	128.08	98.96		5.77E+02	3.41E+01	1.10E+01	7.38E+00	RPD	Dup Evaluation	
473758D	Tc-99	Water	60	366.07	142.57	2.23	128.45	98.98		5.79E+02	3.42E+01	1.10E+01	7.39E+00	0.29	0.03	Pass
473768	Tc-99	Water	60	378.76	139.00	2.26	124.88	98.95		5.63E+02	3.32E+01	1.10E+01	7.30E+00	RPD	Dup Evaluation	
473768D	Tc-99	Water	60	366.11	140.75	2.25	126.61	98.98		5.70E+02	3.37E+01	1.10E+01	7.34E+00	1.38	0.16	Pass
473769	Tc-99	Water	60	358.30	135.07	2.30	121.07	98.82		5.45E+02	3.23E+01	1.10E+01	7.22E+00	RPD	Dup Evaluation	
473769D	Tc-99	Water	60	366.67	136.42	2.28	122.22	98.99		5.51E+02	3.26E+01	1.10E+01	7.24E+00	0.95	0.11	Pass
473770	Tc-99	Water	60	381.54	141.43	2.24	127.35	98.94		5.74E+02	3.39E+01	1.10E+01	7.36E+00	RPD	Dup Evaluation	
473770D	Tc-99	Water	60	356.58	140.87	2.25	126.99	98.78		5.72E+02	3.38E+01	1.10E+01	7.36E+00	0.28	0.03	Pass
473771	Tc-99	Water	60	353.16	132.87	2.31	118.97	98.71		5.36E+02	3.17E+01	1.10E+01	7.17E+00	RPD	Dup Evaluation	
473771D	Tc-99	Water	60	377.28	137.78	2.27	123.64	98.96		5.57E+02	3.29E+01	1.10E+01	7.27E+00	3.84	0.46	Pass
473772	Tc-99	Water	60	364.76	139.94	2.25	125.83	98.95		5.67E+02	3.35E+01	1.10E+01	7.33E+00	RPD	Dup Evaluation	
473772D	Tc-99	Water	60	379.58	136.88	2.28	122.74	98.95		5.53E+02	3.27E+01	1.10E+01	7.25E+00	2.49	0.30	Pass
473778	Tc-99	Water	60	336.75	135.88	2.29	122.52	98.31		5.52E+02	3.26E+01	1.10E+01	7.28E+00	RPD	Dup Evaluation	
473778D	Tc-99	Water	60	370.89	134.35	2.30	120.15	98.98		5.41E+02	3.20E+01	1.10E+01	7.19E+00	1.96	0.23	Pass
473045	Tc-99	Water	60	355.57	133.13	2.31	119.18	98.76		5.37E+02	3.18E+01	1.10E+01	7.18E+00	RPD	Dup Evaluation	
473045D	Tc-99	Water	60	367.94	131.01	2.33	116.75	99.00		5.26E+02	3.11E+01	1.10E+01	7.11E+00	2.06	0.25	Pass
PBWK03JV2	Tc-99	Water	60	363.19	14.91	8.45	-0.53	98.92		-2.37E+00	3.24E+00	1.10E+01	3.24E+00		PB < 1.65*TPU	
CSWK03JV3	Tc-99	Water	60	340.22	1096.22	0.78	1097.81	98.45		4.95E+03	2.86E+02	1.10E+01	1.97E+01	5000	98.9%	-0.011
CSWK03JV4	Tc-99	Water	60	373.78	1098.22	0.78	1094.06	98.97		4.93E+03	2.85E+02	1.10E+01	1.96E+01	5000	98.6%	-0.014

Notes: Day #10 results.

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-192
Prep Date: 3-Oct-11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

Sample Calculations
dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

TPU Factors	%
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	5.77%

```
20111005_1749.results



Assay Definition

Assay Description:

Assay Type: DPM (Single)
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111005_1749\Replay_20111008_170016
Raw Results Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111005_1749\20111005_1749.results
Assay File Name: C:\Packard\TriCarb\Assays\99tc_dpm.lsa


Count Conditions

Nuclide: 99tc
   Quench Indicator: tSIE/AEC
   External Std Terminator (sec): 10 sec
   Pre-Count Delay (min): 0.00
Quench Set:
   Low Energy: 99Tc
Count Time (min): 60.00
Count Mode: Normal
Assay Count Cycles: 1          Repeat Sample Count: 1
#Vials/Sample: 1               Calculate % Reference: Off


Background Subtract

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions          LL       UL
A               0.0    292.0
B               0.0    292.0
C               0.0   2000.0


Count Corrections

Static Controller: On          Luminescence Correction: On
Colored Samples: On            Heterogeneity Monitor: Off
Coincidence Time (nsec): 18    Delay Before Burst (nsec): 75


Instrument Block Data
```

Fluor B+W Portsmouth
16526.05.00X
TO# 110825-10, 110915-9
12-192, 12-193
WAN

```
MODEL=Tri-Carb 3180TR/SL
VERSION=2.12
SERIAL=084368
```

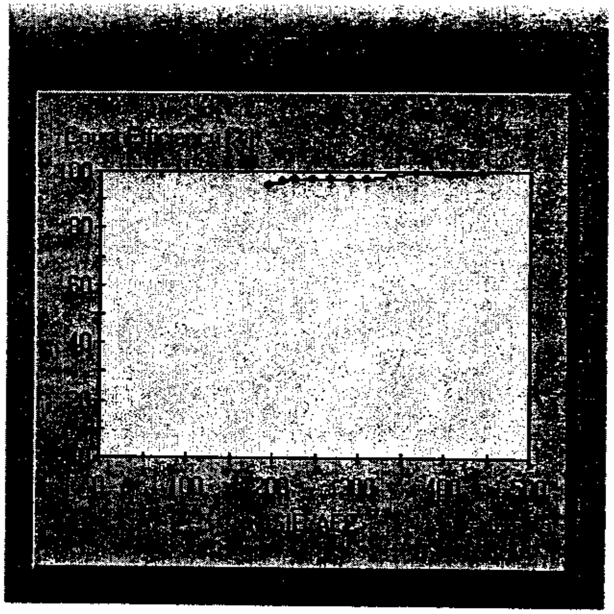
IPA Block Data

```
Software Version IC: 2.12
Software Version EC: 3.00
Instrument Model: Tri-Carb 3180TR/SL
Instrument Serial Number: 084368
3H Chi Square: 22.41    Date Processed: 10/5/2011 2:01:32 AM
14C Chi Square: 26.42   Date Processed: 10/5/2011 2:01:32 AM
3H E^2/B (1-18.6 keV): 1482.66  Date Processed: 10/5/2011 2:01:32 AM
14C E^2/B (4-156 keV): 5759.51   Date Processed: 10/5/2011 2:01:32 AM
3H Efficiency (1-18.6 keV): 64.86  Date Processed: 10/5/2011 2:01:32 AM
14C Efficiency (4-156 keV): 93.40  Date Processed: 10/5/2011 2:01:32 AM
IPA Background Date Processed: 10/5/2011 2:01:32 AM
3H Background CPM (1-18.6 keV): 2.84  Date Processed: 10/5/2011 2:01:32 AM
14C Background CPM (4-156 keV): 1.51  Date Processed: 10/5/2011 2:01:32 AM
3H Calibration DPM: 281700
3H Reference Date: 6/27/2008
14C Calibration DPM: 123000
```

Cycle 1 Results

Quench Curve Block Data

0111005_1749.results

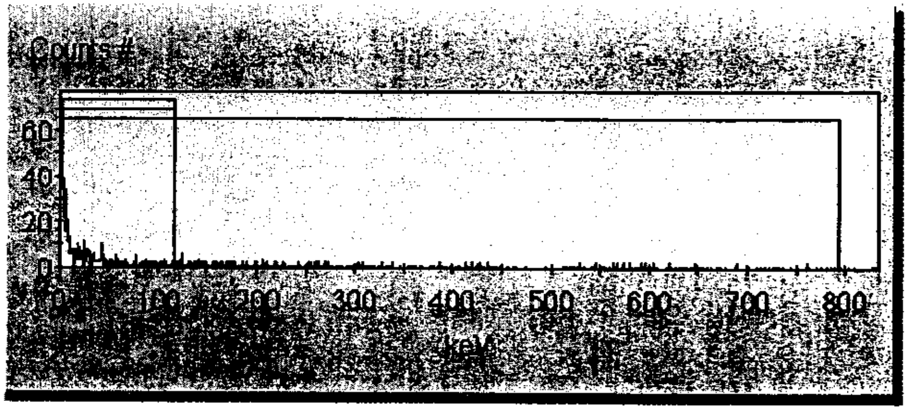


Date Acquired: 02/15/2011
Date Modified:
99Tc in A

tSIE/AEC	Count Efficiency (%)
443.42	99.12
406.31	98.84
367.18	99.00
339.52	98.43
310.34	97.21
291.55	97.35
267.03	97.31
246.83	97.51
224.44	96.91
211.47	96.41
195.92	95.37

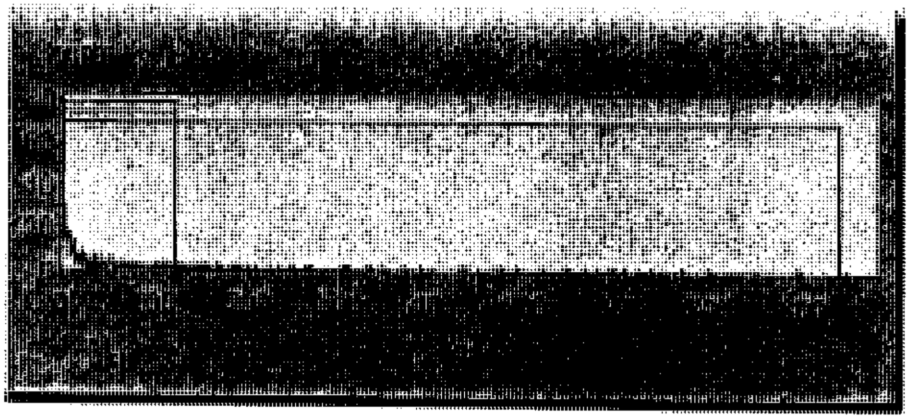
```
  S#   P#   PID  Count Time          SMPL ID        CPMA     DPM1       SIS      tSIE  MESSAGES  A:2S%     ELTIME   LUM
DATE             TIME  Eff Nucl  In A
   1    5    1       60.00            Bkg-1         15.35       16    436.99    334.89             8.28    0:00:03    16
10/5/2011    5:50:53 PM               98.24
```

SpectraView Block Data



```
  2   5    1       60.00             Bkg-2         15.51       16    485.33    361.20                   8.17    0:00:04    15
10/5/2011    6:52:23 PM          98.88
```

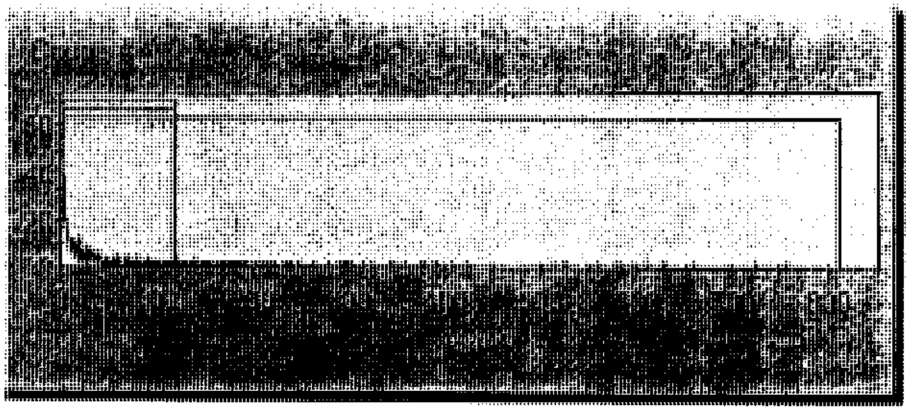
SpectraView Block Data



```
Missing vial 3.
  4   5    1       60.00        PBWK03JV1         14.70       15    462.98    344.94                   8.51    0:00:05    16
10/5/2011    7:53:54 PM          98.54
```

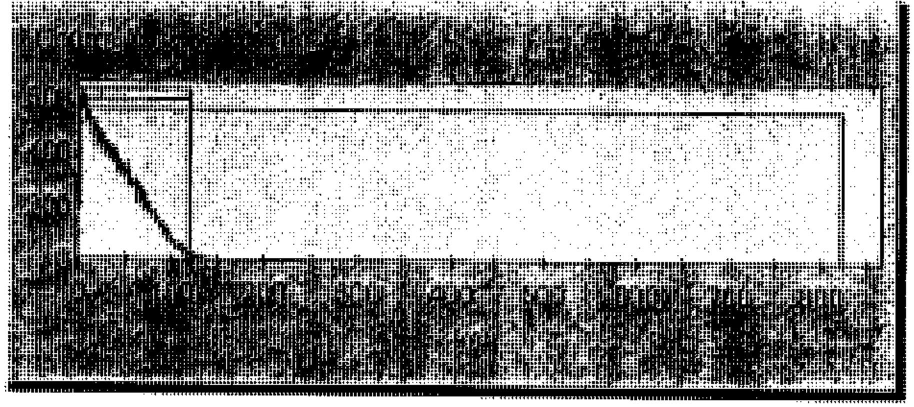
```
0111005_1749.results
```

SpectraView Block Data



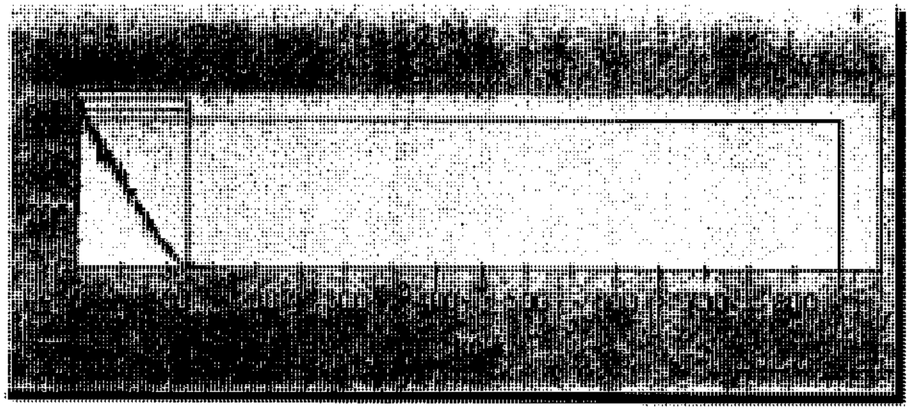
```
   5    5     1          60.00        LCSWK03JV1      1090.26     1105    139.20    351.21                  0.79    0:00:07      0
10/5/2011    8:55:25 PM               98.67
```

SpectraView Block Data



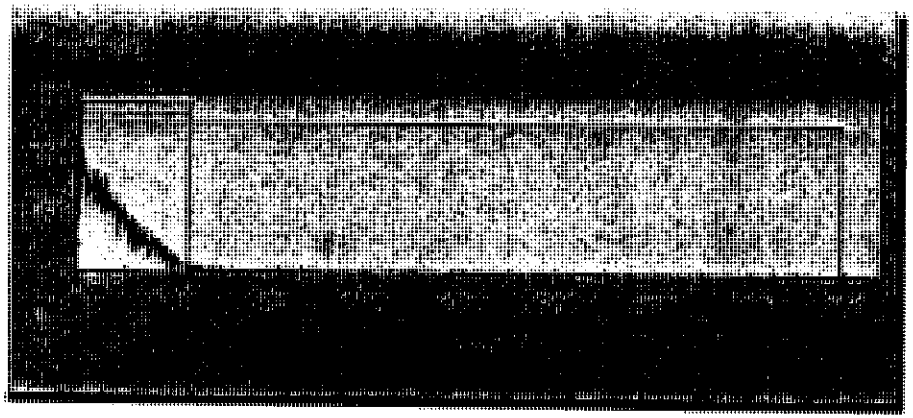
```
   6    5     1          60.00        LCSWK03JV2      1104.01     1115    133.91    367.28                  0.78    0:00:08      0
10/5/2011    9:56:59 PM               99.00
```

SpectraView Block Data



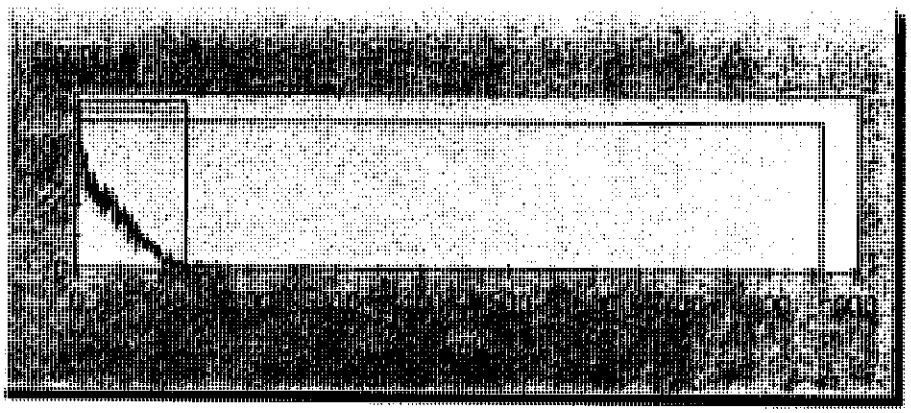
```
   7   5    1       60.00    Blank Day #10      155.59     158   176.82   336.66               2.13   0:00:09    3
10/5/2011  10:58:34 PM          98.31
```

SpectraView Block Data



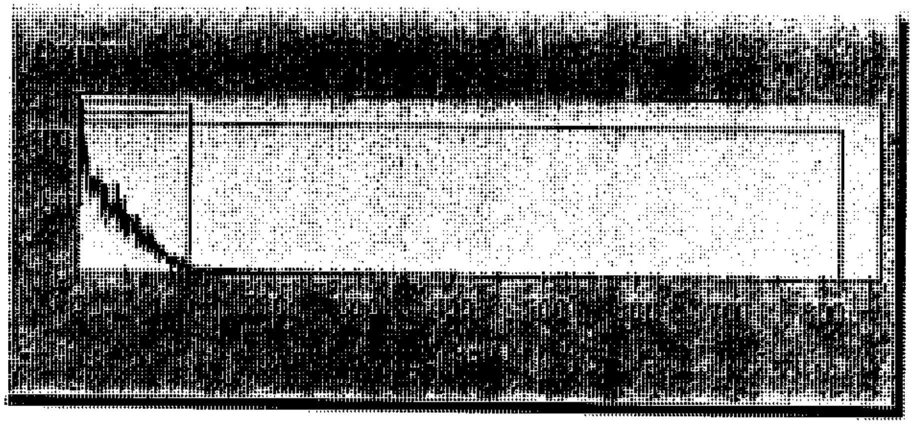
```
   8   5    1       60.00        473754-10      144.62     146   187.41   372.17               2.21   0:00:10    3
10/6/2011  12:00:06 AM          98.98
```

SpectraView Block Data



```
  9    5     1        60.00        473754D-10      141.87      144    192.43    349.09                2.24    0:00:11     3
10/6/2011    1:01:36 AM            98.63
```

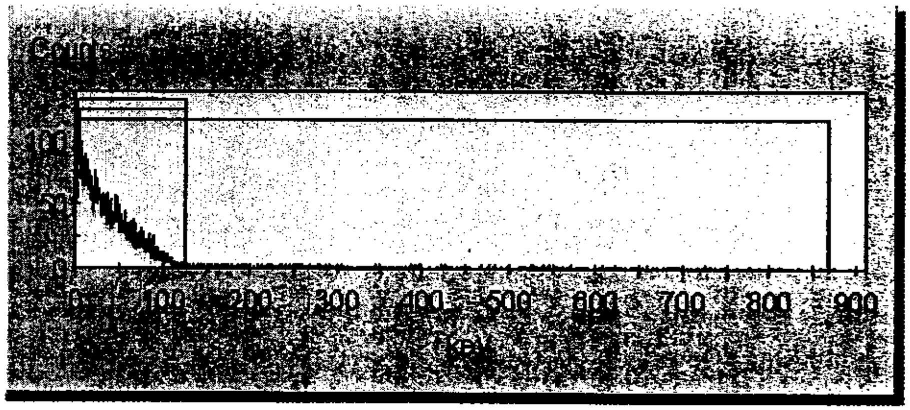
SpectraView Block Data



```
 10    5     1        60.00         473755-10      135.96      137    187.04    376.27                2.29    0:00:12     3
10/6/2011    2:03:07 AM            98.96
```

SpectraView Block Data

010071



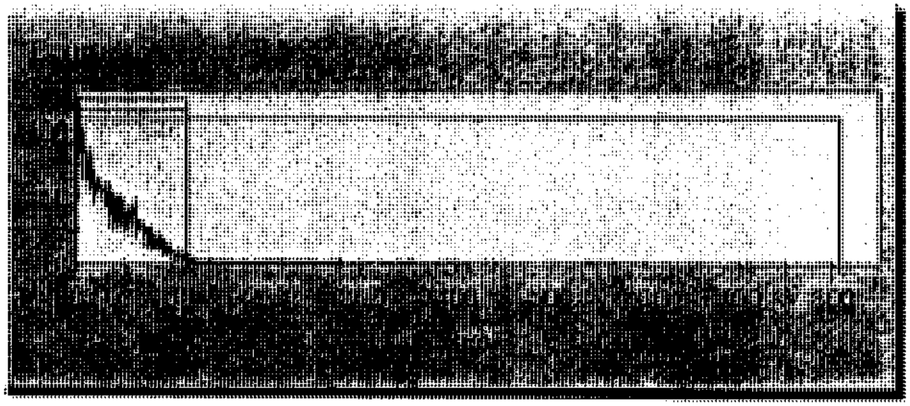
```
  11    5     1         60.00         473755D-10        130.92      133    198.09    349.15                 2.33    0:00:14     3
10/6/2011     3:04:38 AM              98.63
```

SpectraView Block Data

```
  12    5     1         60.00         473756-10         135.92      138    187.20    343.38                 2.28    0:00:15     3
10/6/2011     4:06:09 AM              98.51
```

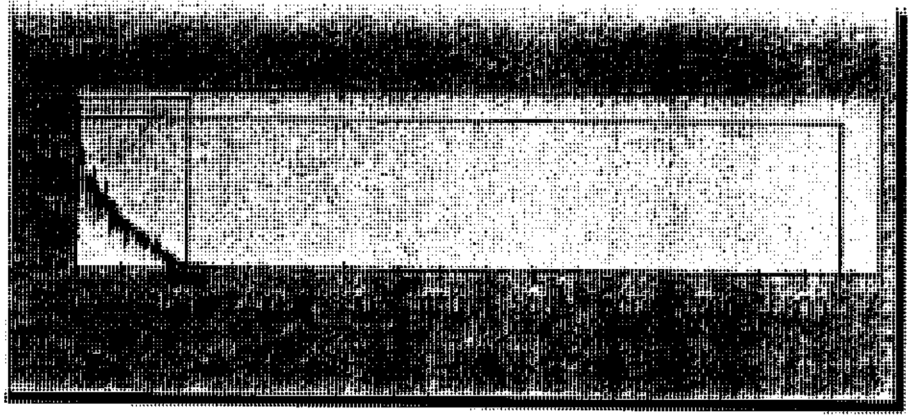
SpectraView Block Data

010072



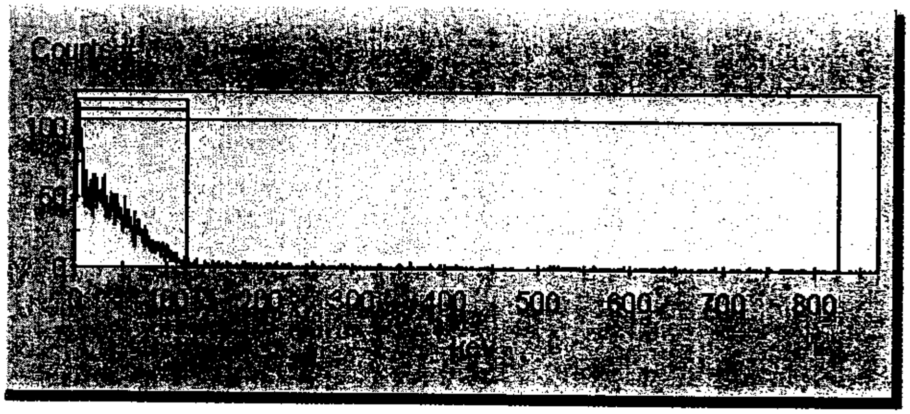
```
  13    5     2         60.00          473756D-10        139.40       141    177.85    360.39                  2.25    0:00:16      3
10/6/2011    5:07:45 AM                98.86
```

SpectraView Block Data



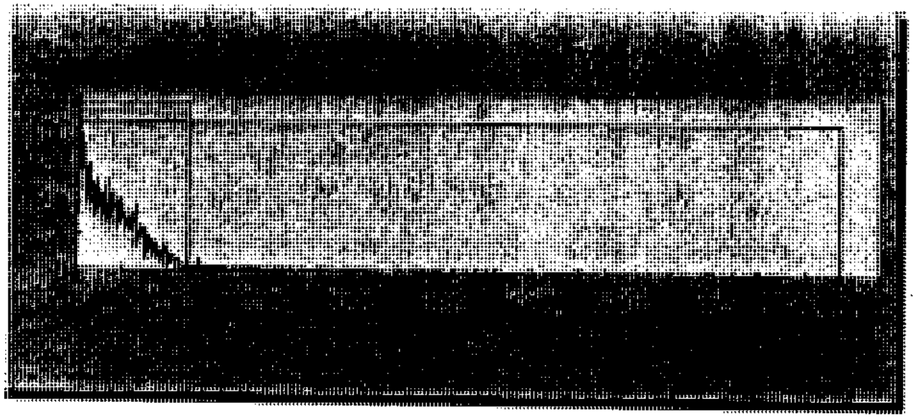
```
  14    5     2         60.00          473757-10         125.35       127    195.99    353.49                  2.39    0:00:17      3
10/6/2011    6:09:16 AM                98.72
```

SpectraView Block Data



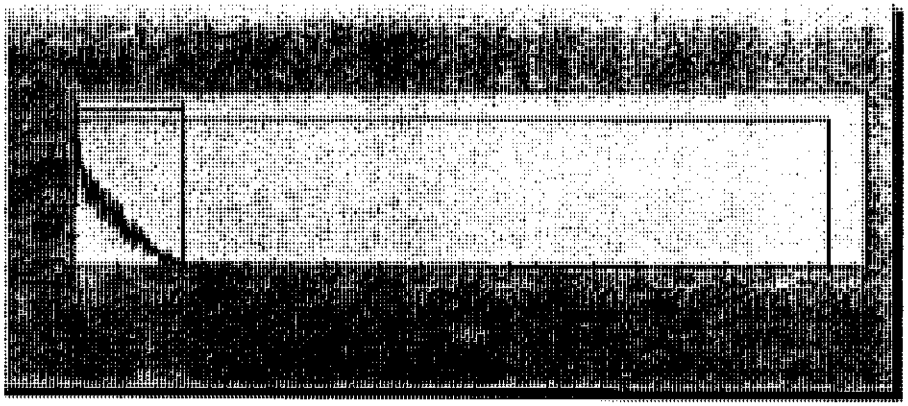
```
 15   5    2        60.00        473757D-10       129.92      131    200.37    360.89                2.34   0:00:18    3
10/6/2011    7:10:47 AM          98.87
```

SpectraView Block Data



```
 16   5    2        60.00        473758-10        142.18      144    183.21    376.71                2.23   0:00:19    3
10/6/2011    8:12:17 AM         98.96
```

SpectraView Block Data

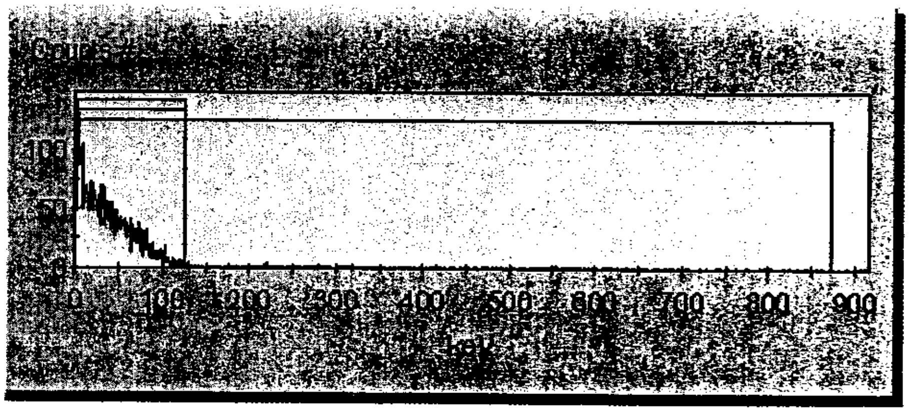


```
  17    5     2         60.00         473758D-10        142.57      144    191.45    366.07                 2.23   0:00:21     3
10/6/2011     9:13:47 AM              98.98
```

SpectraView Block Data

```
  18    5     2         60.00         473768-10         139.00      140    186.23    378.76                 2.26   0:00:22     3
10/6/2011   10:15:18 AM               98.95
```

SpectraView Block Data

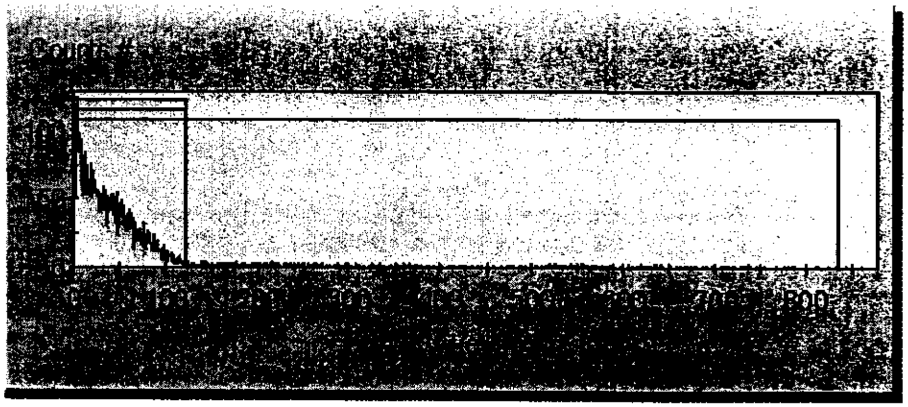


19 5 2 60.00 473768D-10 140.75 142 195.15 366.11 2.25 0:00:23 3
10/6/2011 11:16:49 AM 98.98

SpectraView Block Data

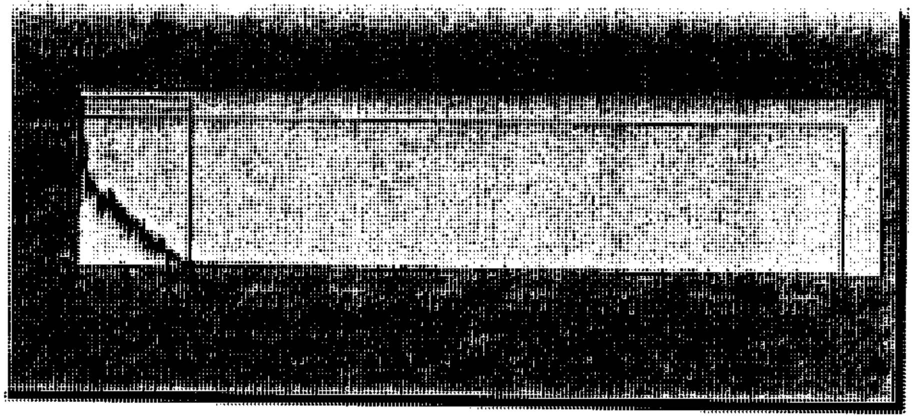
20 5 2 60.00 473769-10 135.07 137 186.99 358.30 2.30 0:00:24 3
10/6/2011 12:18:20 PM 98.82

SpectraView Block Data



```
  21    5     2          60.00          473769D-10        136.42       138    193.86    366.67                  2.28    0:00:25     3
10/6/2011    1:19:49 PM                 98.99
```

SpectraView Block Data

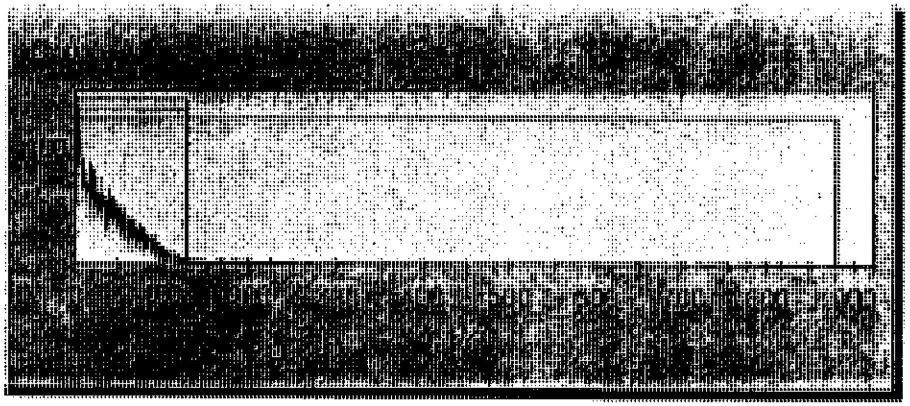


```
  22    5     2          60.00          473770-10         141.43       143    193.50    381.54                  2.24    0:00:26     3
10/6/2011    2:21:19 PM                 98.94
```

SpectraView Block Data

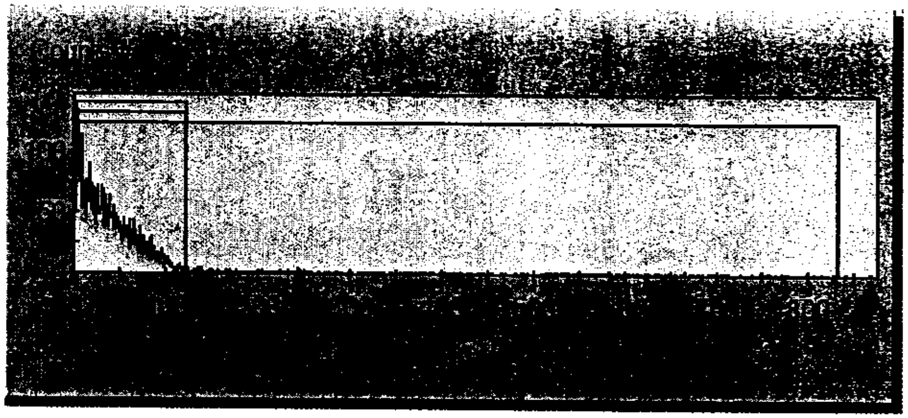
010077

0111005_1749.results



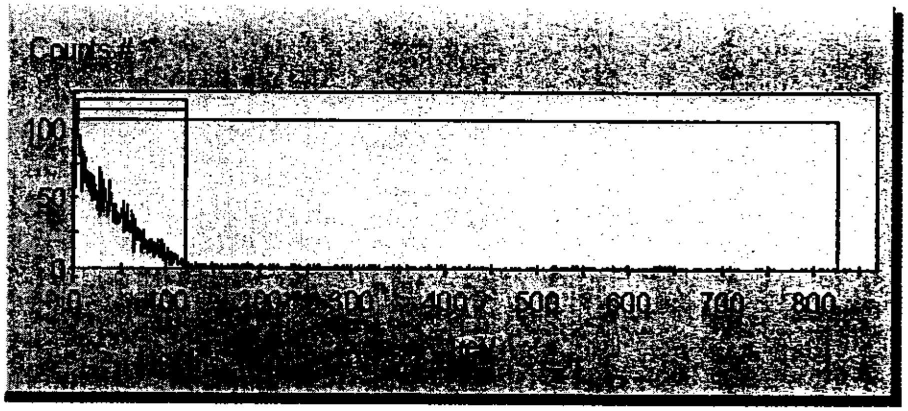
```
  23    5     2         60.00        473770D-10        140.87      143    189.20    356.58                 2.25    0:00:28      3
10/6/2011     3:22:49 PM             98.78
```

SpectraView Block Data



```
  24    5     2         60.00         473771-10        132.87      135    191.54    353.16                 2.31    0:00:29      3
10/6/2011     4:24:20 PM             98.71
```

SpectraView Block Data

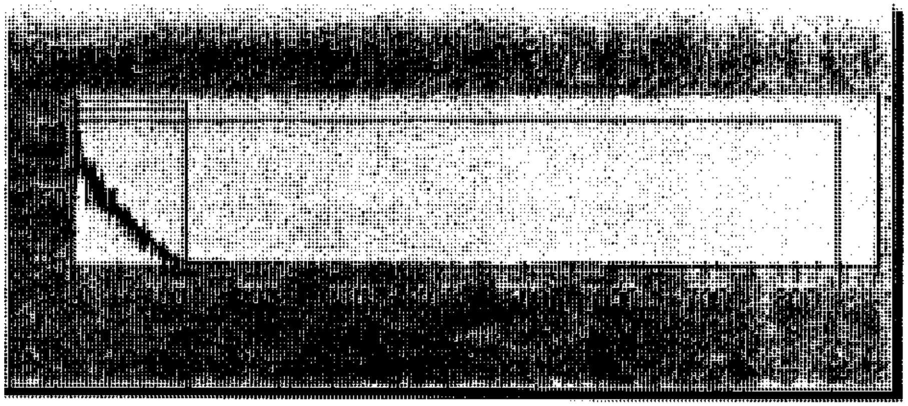


```
  25    5     9          60.00          473771D-10        137.78       139    182.42    377.28                2.27    0:00:30     3
10/6/2011    5:25:56 PM                 98.96
```

SpectraView Block Data

```
  26    5     9          60.00          473772-10         139.94       141    186.34    364.76                2.25    0:00:31     3
10/6/2011    6:27:27 PM                 98.95
```

SpectraView Block Data

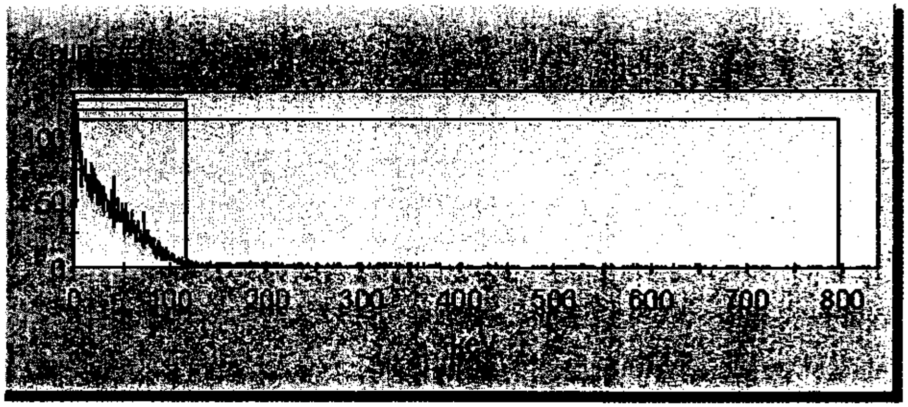


```
  27    5     9         60.00         473772D-10       136.88       138    188.18    379.58                2.28    0:00:32     3
10/6/2011     7:28:58 PM              98.95
```

SpectraView Block Data

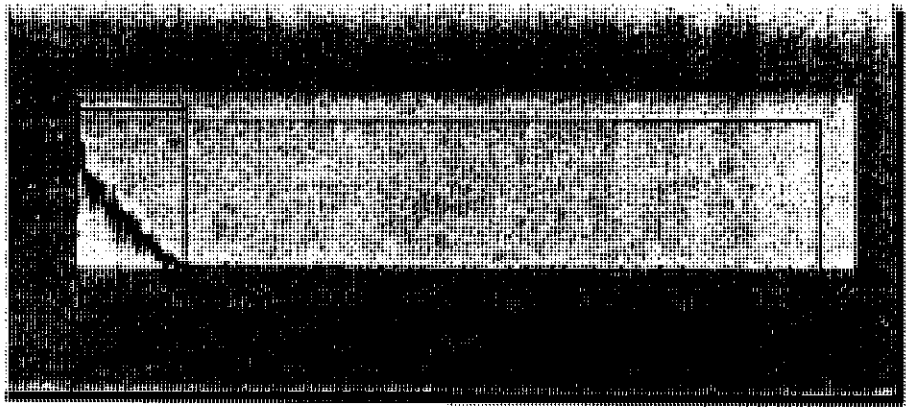
```
  28    5     9         60.00          473778-10       135.88       138    182.57    336.75                2.29    0:00:34     3
10/6/2011     8:30:29 PM              98.31
```

SpectraView Block Data



```
  29   5     9        60.00        473778D-10        134.35      136    195.14    370.89           2.30    0:00:35     3
10/6/2011    9:31:59 PM            98.98
```

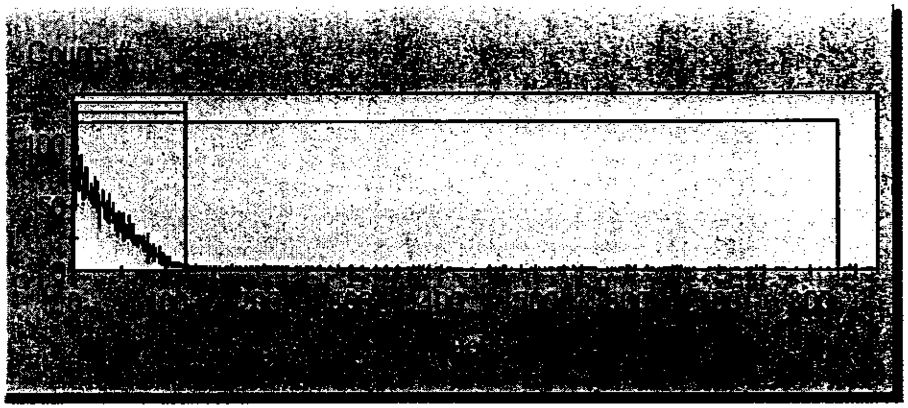
SpectraView Block Data



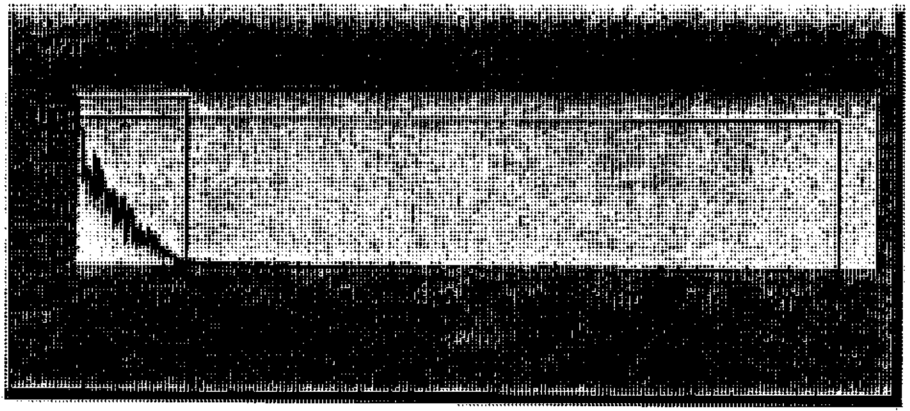
```
  30   5     9        60.00         473045-10        133.13      135    183.31    355.57           2.31    0:00:36     3
10/6/2011  10:33:30 PM             98.76
```

SpectraView Block Data

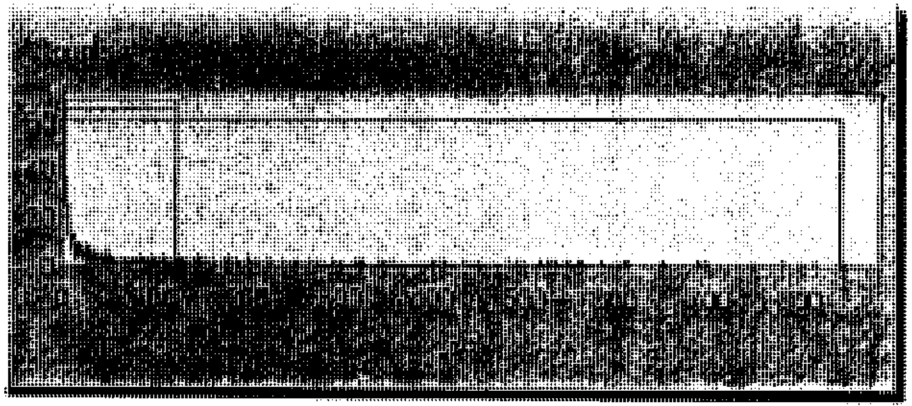
```
0111005_1749.results
```



```
  31    5     9        60.00        473045D-10       131.01      132    189.53    367.94              2.33    0:00:37     3
10/6/2011  11:35:00 PM              99.00

SpectraView Block Data
```

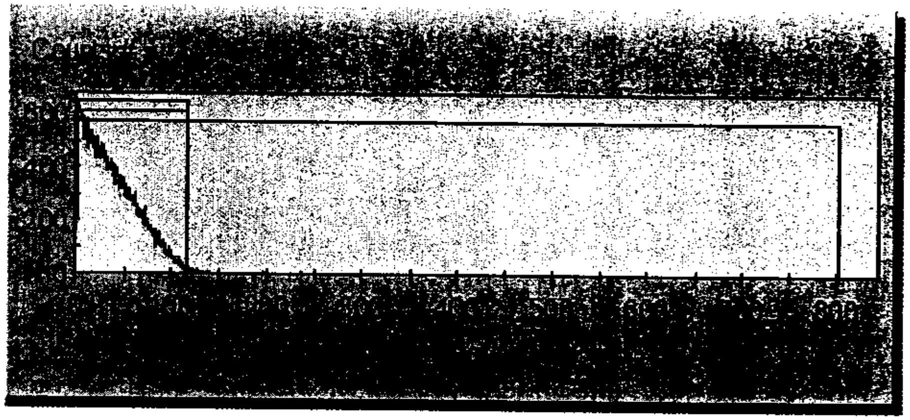


```
  32    5     9        60.00        PBWK03JV2         14.91       15    483.11    363.19              8.45    0:00:38    16
10/7/2011  12:36:30 AM              98.92

SpectraView Block Data
```



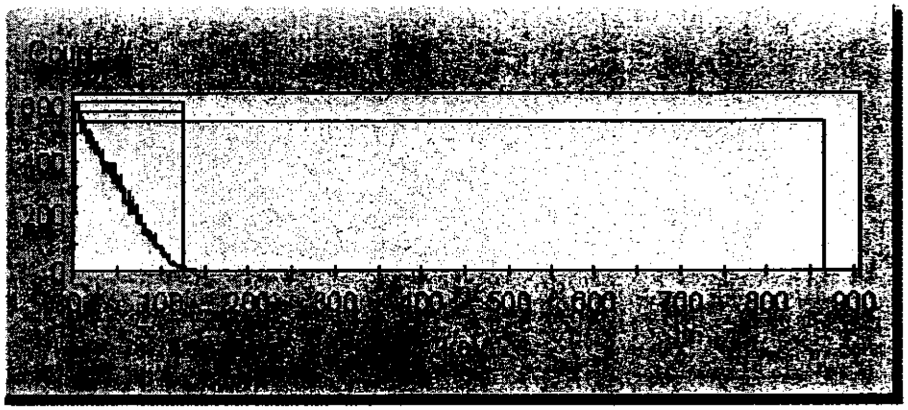
```
  33    5     9          60.00        LCSWK03JV3       1096.22     1114    133.77    340.22                0.78    0:00:40     0
10/7/2011   1:37:59 AM              98.45
```

SpectraView Block Data



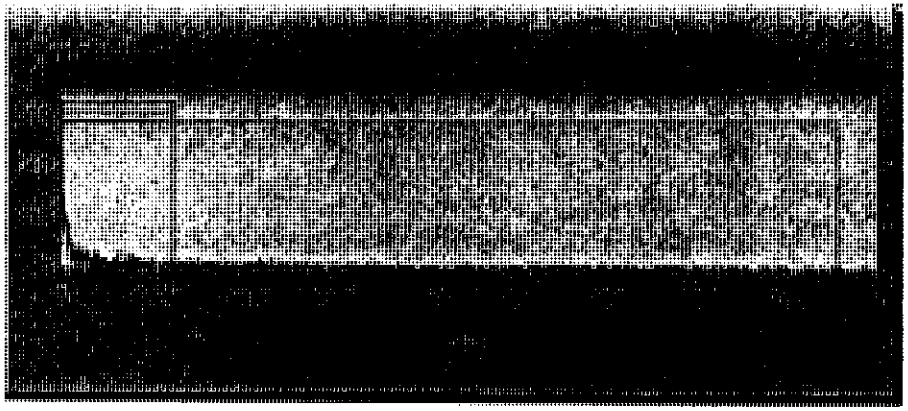
```
  34    5     9          60.00        LCSWK03JV4       1098.22     1110    136.44    373.78                0.78    0:00:41     0
10/7/2011   2:39:31 AM              98.97
```

SpectraView Block Data



```
  35   5     9         60.00         PBWK04JV1        15.34        15    454.34    368.90                8.29    0:00:42    16
10/7/2011    3:41:02 AM            98.99
```

SpectraView Block Data

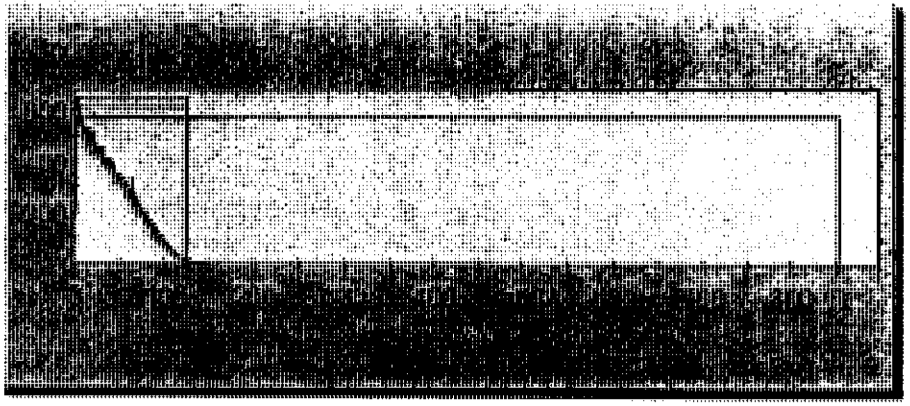


```
  36   5     9         60.00        LCSWK04JV1      1096.72      1108    138.31    368.08                0.78    0:00:43     0
10/7/2011    4:42:32 AM            98.99
```

SpectraView Block Data

010084

0111005_1749.results



```
  37    5    16         60.00       LCSWK04JV2      1106.36     1122    134.74    349.89              0.78    0:00:44     0
10/7/2011     5:44:10 AM            98.64
```

SpectraView Block Data

```
  38    5    16         60.00      Blank Day #14     148.47      150    179.98    357.64              2.18    0:00:46     3
10/7/2011     6:45:45 AM              98.80
  39    5    16         60.00         473754-14      144.78      146    178.73    362.68              2.21    0:00:46     3
10/7/2011     7:47:16 AM              98.91
  40    5    16         60.00        473754D-14      144.76      146    189.77    366.19              2.21    0:00:46     3
10/7/2011     8:48:47 AM              98.98
```

```
  41   5   16       60.00      473755-14       125.85     127   190.03   359.11            2.36   0:00:46    3
10/7/2011   9:50:18 AM         98.83
  42   5   16       60.00      473755D-14      130.84     132   195.86   377.41            2.33   0:00:47    3
10/7/2011  10:51:47 AM         98.96
  43   5   16       60.00      473756-14       141.56     143   182.25   359.67            2.24   0:00:47    3
10/7/2011  11:53:17 AM         98.84
  44   5   16       60.00      473756D-14      141.51     144   186.11   341.59            2.24   0:00:47    3
10/7/2011  12:54:47 PM         98.47
  45   5   16       60.00      473757-14       120.75     124   202.69   310.20            2.43   0:00:47    3
10/7/2011   1:56:18 PM         97.21
  46   5   16       60.00      473757D-14      129.14     131   189.41   349.43            2.35   0:00:46    3
10/7/2011   2:57:50 PM         98.63
  47   5   16       60.00      473758-14       142.47     144   186.50   370.50            2.23   0:00:48    3
10/7/2011   3:59:19 PM         98.98
  48   5   16       60.00      473758D-14      142.50     144   187.73   370.67            2.23   0:00:48    3
10/7/2011   5:00:51 PM         98.98
  49   5   19       60.00      473768-14       137.67     139   188.46   359.87            2.27   0:00:48    3
10/7/2011   6:02:27 PM         98.85
  50   5   19       60.00      473768D-14      137.67     140   184.10   350.50            2.27   0:00:48    3
10/7/2011   7:03:58 PM         98.66
  51   5   19       60.00      473769-14       141.05     143   180.44   354.36            2.24   0:00:49    3
10/7/2011   8:05:28 PM         98.74
  52   5   19       60.00      473769D-14      138.43     140   190.31   366.86            2.26   0:00:49    3
10/7/2011   9:06:58 PM         98.99
  53   5   19       60.00      473770-14       145.79     148   182.82   356.26            2.20   0:00:49    3
10/7/2011  10:08:27 PM         98.77
  54   5   19       60.00      473770D-14      142.99     144   183.09   374.57            2.22   0:00:49    3
10/7/2011  11:09:57 PM         98.97
  55   5   19       60.00      473771-14       137.70     140   191.10   341.12            2.27   0:00:49    3
10/8/2011  12:11:27 AM         98.46
  56   5   19       60.00      473771D-14      135.15     139   179.50   309.09            2.29   0:00:50    3
10/8/2011   1:12:58 AM         97.21
  57   5   19       60.00      473772-14       140.06     142   187.16   348.19            2.25   0:00:50    3
10/8/2011   2:14:27 AM         98.61
  58   5   19       60.00      473772D-14      137.52     140   195.44   345.67            2.27   0:00:50    3
10/8/2011   3:15:57 AM         98.56
  59   5   19       60.00      473778-14       131.72     134   191.66   349.83            2.33   0:00:50    3
10/8/2011   4:17:27 AM         98.64
  60   5   19       60.00      473778D-14      132.43     134   190.79   355.26            2.32   0:00:51    3
10/8/2011   5:18:58 AM         98.75
  61   5    7       60.00      473045-14       133.63     135   193.57   369.26            2.31   0:00:51    3
10/8/2011   6:20:34 AM         98.99
  62   5    7       60.00      473045D-14      132.15     134   191.23   336.55            2.32   0:00:51    3
10/8/2011   7:22:03 AM         98.31
  63   5    7       60.00      PBWK04JV2        14.31      14   472.16   351.30            8.69   0:00:51   17
10/8/2011   8:23:34 AM         98.67
```

010086

```
  64   5    7       60.00       LCSWK04JV3     1094.65    1111    133.57   345.86             0.78   0:00:51    0
10/8/2011   9:25:04 AM          98.56
  65   5    7       60.00       LCSWK04JV4     1099.34    1111    136.89   382.62             0.78   0:00:52    0
10/8/2011  10:26:36 AM          98.94
```

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-193
Prep Date: 4-Oct-11
WAN

✓ JNW 10/25/11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer	
							%Rec	% error
PBWK04JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK04JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK04JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-14	0.10	50.0	0.00200	50.0	0.100	10.00		
473754	0.10	50.0	0.00200	50.0	0.100	10.00		
473754D	0.10	50.0	0.00200	50.0	0.100	10.00		
473755	0.10	50.0	0.00200	50.0	0.100	10.00		
473755D	0.10	50.0	0.00200	50.0	0.100	10.00		
473756	0.10	50.0	0.00200	50.0	0.100	10.00		
473756D	0.10	50.0	0.00200	50.0	0.100	10.00		
473757	0.10	50.0	0.00200	50.0	0.100	10.00		
473757D	0.10	50.0	0.00200	50.0	0.100	10.00		
473758	0.10	50.0	0.00200	50.0	0.100	10.00		
473758D	0.10	50.0	0.00200	50.0	0.100	10.00		
473768	0.10	50.0	0.00200	50.0	0.100	10.00		
473768D	0.10	50.0	0.00200	50.0	0.100	10.00		
473769	0.10	50.0	0.00200	50.0	0.100	10.00		
473769D	0.10	50.0	0.00200	50.0	0.100	10.00		
473770	0.10	50.0	0.00200	50.0	0.100	10.00		
473770D	0.10	50.0	0.00200	50.0	0.100	10.00		
473771	0.10	50.0	0.00200	50.0	0.100	10.00		
473771D	0.10	50.0	0.00200	50.0	0.100	10.00		
473772	0.10	50.0	0.00200	50.0	0.100	10.00		
473772D	0.10	50.0	0.00200	50.0	0.100	10.00		
473778	0.10	50.0	0.00200	50.0	0.100	10.00		
473778D	0.10	50.0	0.00200	50.0	0.100	10.00		
473045	0.10	50.0	0.00200	50.0	0.100	10.00		
473045D	0.10	50.0	0.00200	50.0	0.100	10.00		
PBWK04JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK04JV3	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK04JV4	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

Southwest Research Institute, Division 1, Radiochemistry
LSC Bench Sheet
Tc-99

Client:	Fluor-B&W Portsmouth	**Project #:**	16526.05.00X
Task Order:	110825-10, 110915-9	**SRR:**	45511, 45412
Prep Page:	12-193	**RL:**	20 pCi/L
Prep Date:	4-Oct-11	**Units:**	L

Liquid Scintilliation Results

Lab Id	Analyte	Matrix	Time (m)	tSIE	Raw cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	334.89	15.35	8.28	15.63	98.24	
BKG-2	Tc-99	Water	60	361.20	15.51	8.17	15.69	98.88	
				AVG BKG	15.43	AVG BKG	15.66		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWK04JV1	Tc-99	Water	60	368.90	15.34	8.29	-0.09	98.99		-4.10E-01	3.26E+00	1.10E+01	3.26E+00		PB < 1.65*TPU	
LCSWK04JV1	Tc-99	Water	60	368.08	1096.72	0.78	1092.32	98.99		4.92E+03	2.84E+02	1.10E+01	1.96E+01	5000	98.4%	-0.016
LCSWK04JV2	Tc-99	Water	60	349.89	1106.36	0.78	1105.97	98.64		4.98E+03	2.88E+02	1.10E+01	1.97E+01	5000	99.6%	-0.004
Blank-14	Tc-99	Water	60	357.64	148.47	2.18	134.66	98.80		6.07E+02	3.58E+01	1.10E+01	7.54E+00			
473754	Tc-99	Water	60	362.68	144.78	2.21	130.78	98.91		5.89E+02	3.48E+01	1.10E+01	7.44E+00	RPD	Dup Evaluation	
473754D	Tc-99	Water	60	366.19	144.76	2.21	130.66	98.98		5.89E+02	3.47E+01	1.10E+01	7.44E+00	0.09	0.01	Pass
473755	Tc-99	Water	60	359.11	125.85	2.38	111.73	98.83		5.03E+02	2.99E+01	1.10E+01	6.99E+00	RPD	Dup Evaluation	
473755D	Tc-99	Water	60	377.41	130.84	2.33	116.62	98.96		5.25E+02	3.11E+01	1.10E+01	7.11E+00	4.29	0.51	Pass
473756	Tc-99	Water	60	359.67	141.56	2.24	127.61	98.84		5.75E+02	3.40E+01	1.10E+01	7.37E+00	RPD	Dup Evaluation	
473756D	Tc-99	Water	60	341.59	141.51	2.24	128.04	98.47		5.77E+02	3.41E+01	1.10E+01	7.40E+00	0.34	0.04	Pass
473757	Tc-99	Water	60	310.20	120.75	2.43	108.34	97.21		4.88E+02	2.90E+01	1.12E+01	6.98E+00	RPD	Dup Evaluation	
473757D	Tc-99	Water	60	349.43	129.14	2.35	115.29	98.63		5.19E+02	3.08E+01	1.10E+01	7.09E+00	6.21	0.74	Pass
473758	Tc-99	Water	60	370.50	142.47	2.23	128.35	98.98		5.78E+02	3.41E+01	1.10E+01	7.38E+00	RPD	Dup Evaluation	
473758D	Tc-99	Water	60	370.67	142.50	2.23	128.38	98.98		5.78E+02	3.42E+01	1.10E+01	7.38E+00	0.02	0.00	Pass
473768	Tc-99	Water	60	359.87	137.67	2.27	123.66	98.85		5.57E+02	3.29E+01	1.10E+01	7.28E+00	RPD	Dup Evaluation	
473768D	Tc-99	Water	60	350.50	137.67	2.27	123.90	98.66		5.58E+02	3.30E+01	1.10E+01	7.29E+00	0.19	0.02	Pass
473769	Tc-99	Water	60	354.36	141.05	2.24	127.22	98.74		5.73E+02	3.39E+01	1.10E+01	7.37E+00	RPD	Dup Evaluation	
473769D	Tc-99	Water	60	366.86	138.43	2.26	124.25	98.99		5.60E+02	3.31E+01	1.10E+01	7.29E+00	2.36	0.28	Pass
473770	Tc-99	Water	60	356.26	145.79	2.20	131.98	98.77		5.95E+02	3.51E+01	1.10E+01	7.48E+00	RPD	Dup Evaluation	
473770D	Tc-99	Water	60	374.57	142.99	2.22	128.89	98.97		5.81E+02	3.43E+01	1.10E+01	7.40E+00	2.37	0.28	Pass
473771	Tc-99	Water	60	341.12	137.70	2.27	124.18	98.46		5.59E+02	3.31E+01	1.10E+01	7.31E+00	RPD	Dup Evaluation	
473771D	Tc-99	Water	60	309.09	135.15	2.29	123.16	97.21		5.55E+02	3.28E+01	1.12E+01	7.34E+00	0.83	0.10	Pass
473772	Tc-99	Water	60	348.19	140.06	2.25	126.39	98.61		5.69E+02	3.36E+01	1.10E+01	7.35E+00	RPD	Dup Evaluation	
473772D	Tc-99	Water	60	345.67	137.52	2.27	123.87	98.56		5.58E+02	3.30E+01	1.10E+01	7.30E+00	2.01	0.24	Pass
473778	Tc-99	Water	60	349.83	131.72	2.33	117.89	98.64		5.31E+02	3.14E+01	1.10E+01	7.15E+00	RPD	Dup Evaluation	
473778D	Tc-99	Water	60	355.26	132.43	2.32	118.48	98.75		5.34E+02	3.16E+01	1.10E+01	7.16E+00	0.50	0.06	Pass
473045	Tc-99	Water	60	369.26	133.63	2.31	119.41	98.99		5.38E+02	3.18E+01	1.10E+01	7.17E+00	RPD	Dup Evaluation	
473045D	Tc-99	Water	60	336.55	132.15	2.32	118.73	98.31		5.35E+02	3.17E+01	1.10E+01	7.19E+00	0.57	0.07	Pass
PBWK04JV2	Tc-99	Water	60	351.30	14.31	8.69	-1.14	98.67		-5.11E+00	3.23E+00	1.10E+01	3.21E+00		PB < 1.65*TPU	
LCSWK04JV3	Tc-99	Water	60	345.86	1094.65	0.78	1094.99	98.56		4.93E+03	2.85E+02	1.10E+01	1.97E+01	5000	98.6%	-0.014
LCSWK04JV4	Tc-99	Water	60	382.62	1099.34	0.78	1095.52	98.94		4.93E+03	2.85E+02	1.10E+01	1.96E+01	5000	98.7%	-0.013

Notes: Day #14 results.

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-193
Prep Date: 4-Oct-11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

TPU Factors	%
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	**5.77%**

Sample Calculations

dpm = cpm / (eff-1 / 100) - avg bkg dpm

Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)

TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)

MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22

Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)

(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100

Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

```
10/8/2011  5:01:19 PM              QuantaSmart (TM) - 3.00 - Serial# 084368                          Page # 1
20111005_1749.results


Assay Definition

Assay Description:

Assay Type: DPM (Single)
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111005_1749\Replay_20111008_170016
Raw Results Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111005_1749\20111005_1749.results
Assay File Name: C:\Packard\TriCarb\Assays\99tc_dpm.lsa


Count Conditions

Nuclide: 99tc
   Quench Indicator: tSIE/AEC
   External Std Terminator (sec): 10 sec
   Pre-Count Delay (min): 0.00
Quench Set:
   Low Energy: 99Tc
Count Time (min): 60.00
Count Mode: Normal
Assay Count Cycles: 1         Repeat Sample Count: 1
#Vials/Sample: 1              Calculate % Reference: Off


Background Subtract

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions          LL        UL
A               0.0     292.0
B               0.0     292.0
C               0.0    2000.0


Count Corrections

Static Controller: On         Luminescence Correction: On
Colored Samples: On           Heterogeneity Monitor: Off
Coincidence Time (nsec): 18   Delay Before Burst (nsec): 75


Instrument Block Data
```

Fluor B+W Portsmouth
16526.05.00X
TO# 110825-10, 110915-9
12-192, 12-193
WAN

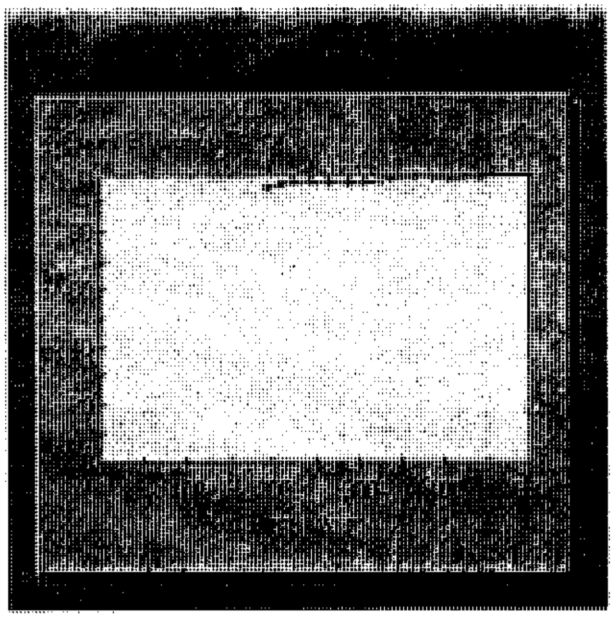
```
MODEL=Tri-Carb 3180TR/SL
VERSION=2.12
SERIAL=084368
```

IPA Block Data

```
Software Version IC: 2.12
Software Version EC: 3.00
Instrument Model: Tri-Carb 3180TR/SL
Instrument Serial Number: 084368
3H Chi Square: 22.41    Date Processed: 10/5/2011 2:01:32 AM
14C Chi Square: 26.42   Date Processed: 10/5/2011 2:01:32 AM
3H E^2/B (1-18.6 keV): 1482.66  Date Processed: 10/5/2011 2:01:32 AM
14C E^2/B (4-156 keV): 5759.51   Date Processed: 10/5/2011 2:01:32 AM
3H Efficiency (1-18.6 keV): 64.86  Date Processed: 10/5/2011 2:01:32 AM
14C Efficiency (4-156 keV): 93.40  Date Processed: 10/5/2011 2:01:32 AM
IPA Background Date Processed: 10/5/2011 2:01:32 AM
3H Background CPM (1-18.6 keV): 2.84  Date Processed: 10/5/2011 2:01:32 AM
14C Background CPM (4-156 keV): 1.51  Date Processed: 10/5/2011 2:01:32 AM
3H Calibration DPM: 281700
3H Reference Date: 6/27/2008
14C Calibration DPM: 123000
```

Cycle 1 Results

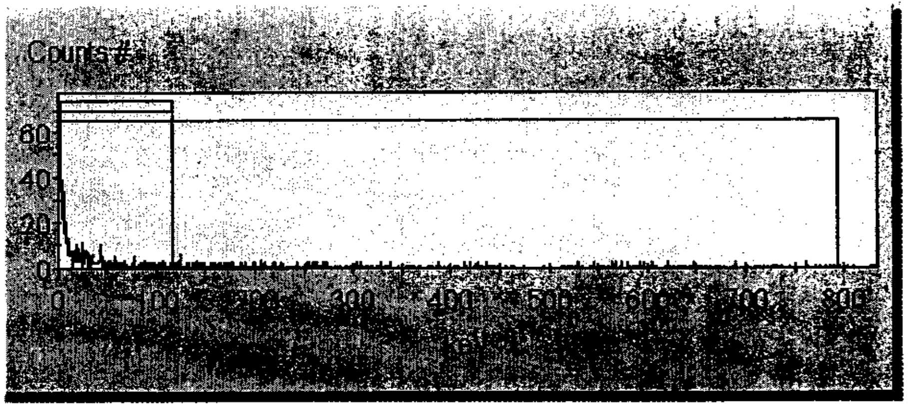
Quench Curve Block Data



```
Date Acquired: 02/15/2011
Date Modified:
99Tc in A

tSIE/AEC      Count Efficiency (%)
443.42        99.12
406.31        98.84
367.18        99.00
339.52        98.43
310.34        97.21
291.55        97.35
267.03        97.31
246.83        97.51
224.44        96.91
211.47        96.41
195.92        95.37
```

```
  S#  P#  PID  Count Time          SMPL ID        CPMA    DPM1      SIS     tSIE  MESSAGES  A:2S%    ELTIME   LUM
DATE            TIME  Eff Nucl  In A
   1   5   1       60.00            Bkg-1        15.35      16   436.99   334.89             8.28   0:00:03    16
10/5/2011     5:50:53 PM          98.24
```

SpectraView Block Data



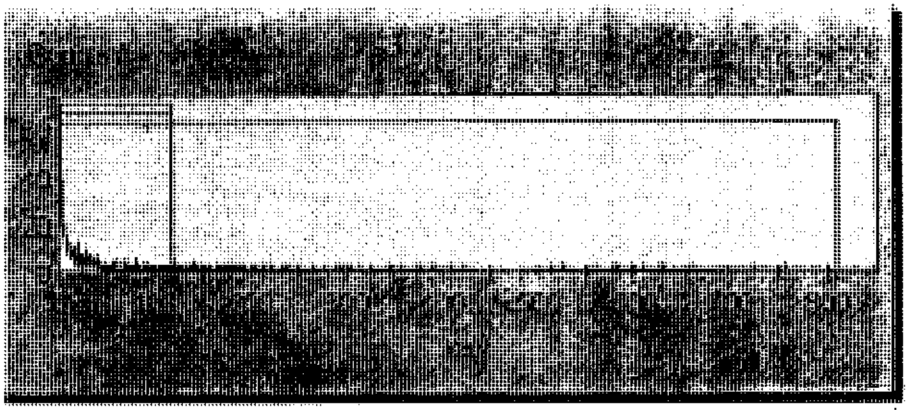
```
  2   5    1        60.00              Bkg-2        15.51       16   485.33   361.20                8.17   0:00:04   15
10/5/2011    6:52:23 PM            98.88
```

SpectraView Block Data

```
Missing vial 3.
  4   5    1        60.00          PBWK03JV1        14.70       15   462.98   344.94                8.51   0:00:05   16
10/5/2011    7:53:54 PM            98.54
```

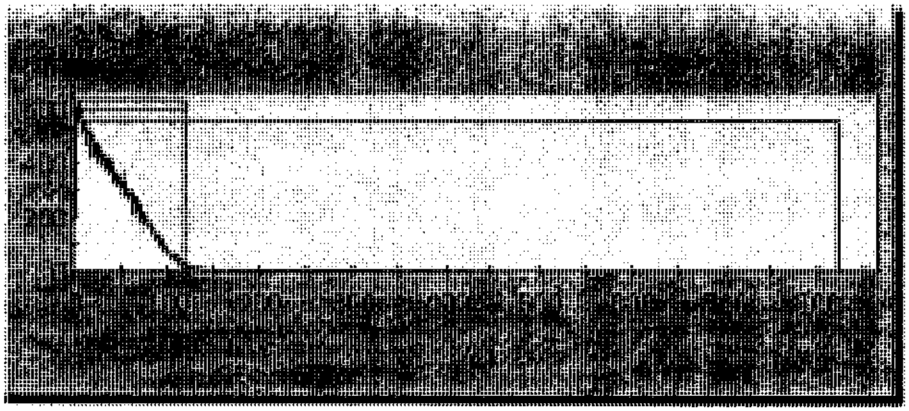
20111005_1749.results

SpectraView Block Data



```
   5    5     1        60.00       LCSWK03JV1      1090.26     1105    139.20    351.21                0.79   0:00:07     0
10/5/2011    8:55:25 PM            98.67
```

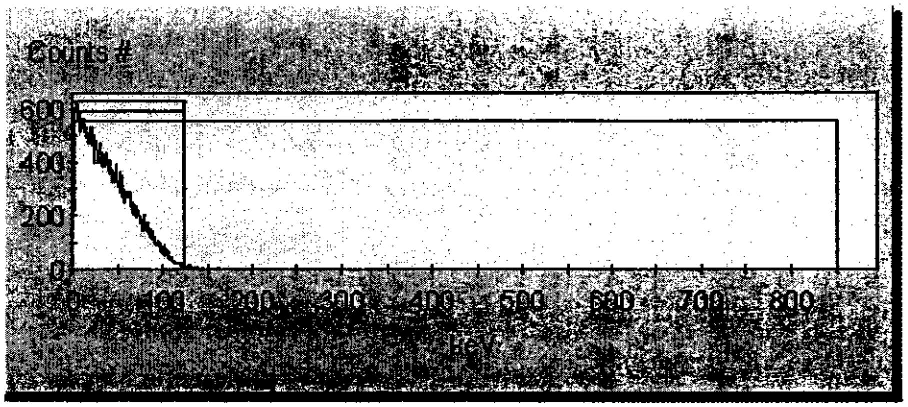
SpectraView Block Data



```
   6    5     1        60.00       LCSWK03JV2      1104.01     1115    133.91    367.28                0.78   0:00:08     0
10/5/2011    9:56:59 PM            99.00
```

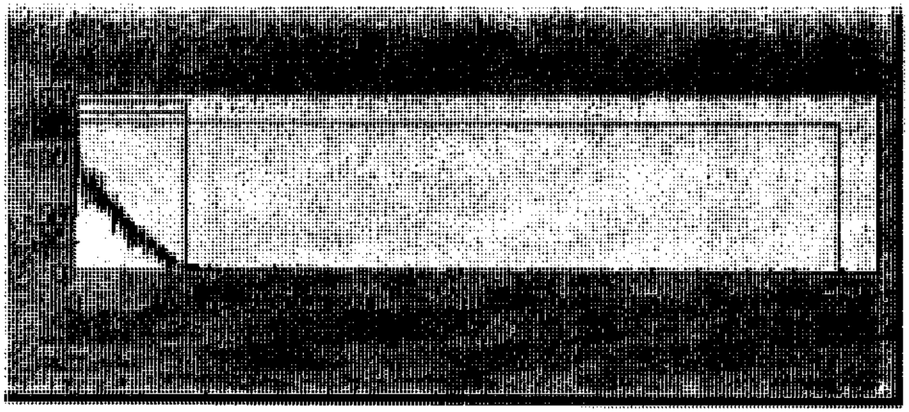
SpectraView Block Data

20111005_1749.results



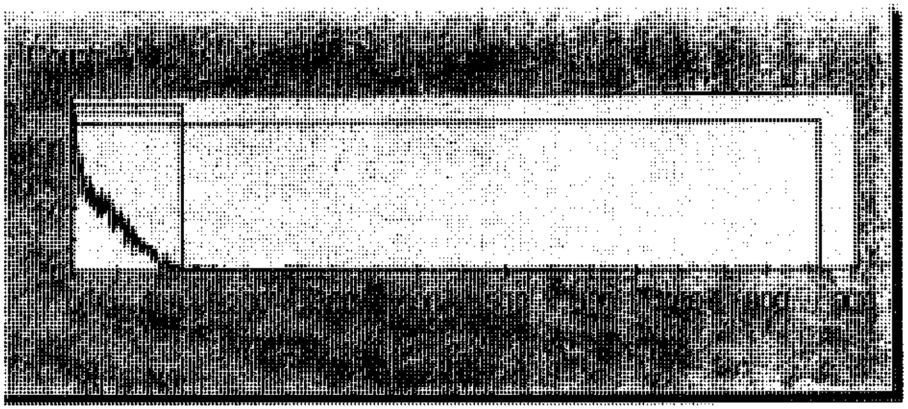
```
   7    5    1        60.00    Blank Day #10      155.59      158    176.82    336.66                2.13    0:00:09     3
10/5/2011  10:58:34 PM              98.31
```

SpectraView Block Data



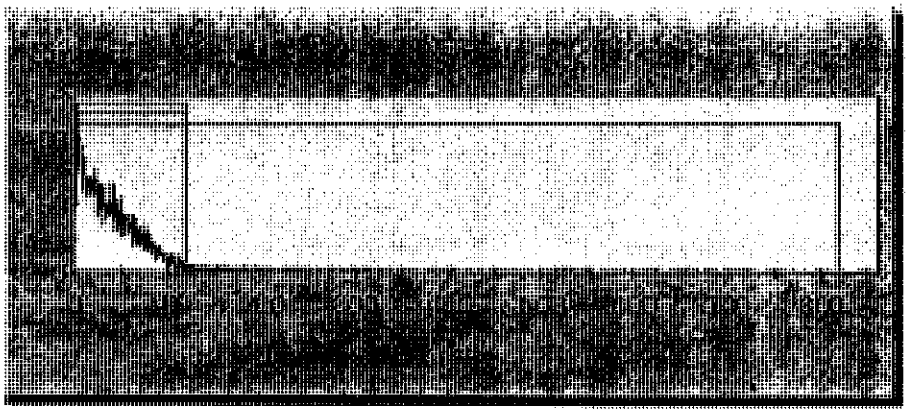
```
   8    5    1        60.00       473754-10       144.62      146    187.41    372.17                2.21    0:00:10     3
10/6/2011  12:00:06 AM              98.98
```

SpectraView Block Data



```
   9   5    1       60.00       473754D-10      141.87      144   192.43   349.09                 2.24   0:00:11     3
10/6/2011   1:01:36 AM          98.63
```

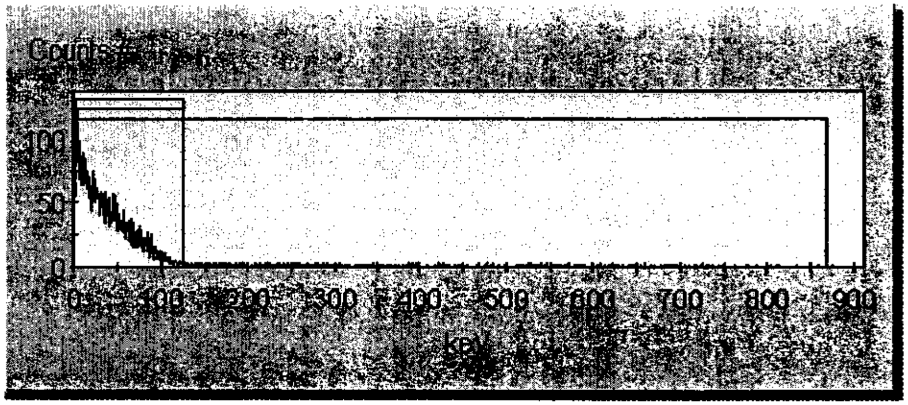
SpectraView Block Data



```
  10   5    1       60.00        473755-10      135.96      137   187.04   376.27                 2.29   0:00:12     3
10/6/2011   2:03:07 AM          98.96
```

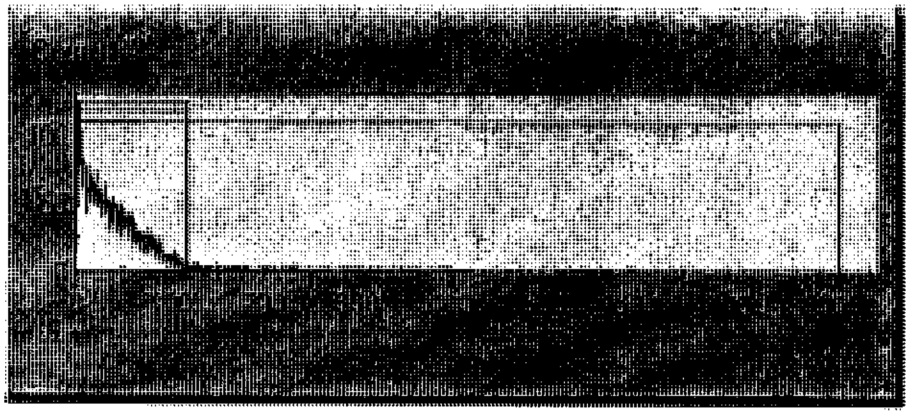
SpectraView Block Data

20111005_1749.results



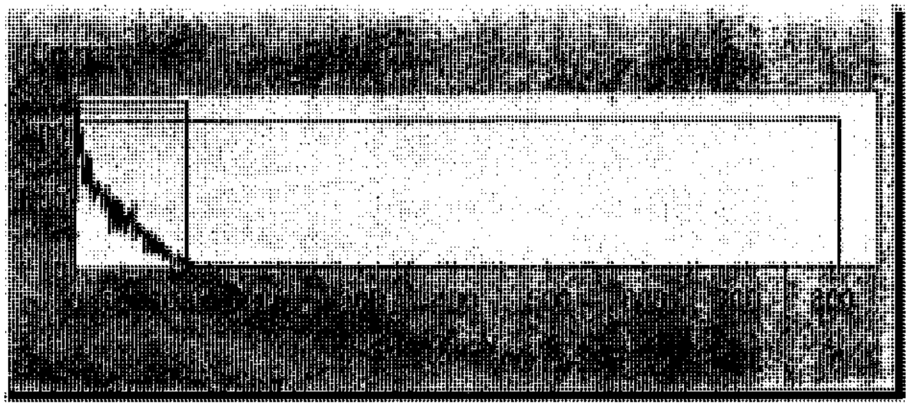
```
  11    5     1         60.00          473755D-10        130.92       133    198.09    349.15                2.33    0:00:14     3
10/6/2011    3:04:38 AM                98.63
```

SpectraView Block Data



```
  12    5     1         60.00          473756-10         135.92       138    187.20    343.38                2.28    0:00:15     3
10/6/2011    4:06:09 AM                98.51
```

SpectraView Block Data

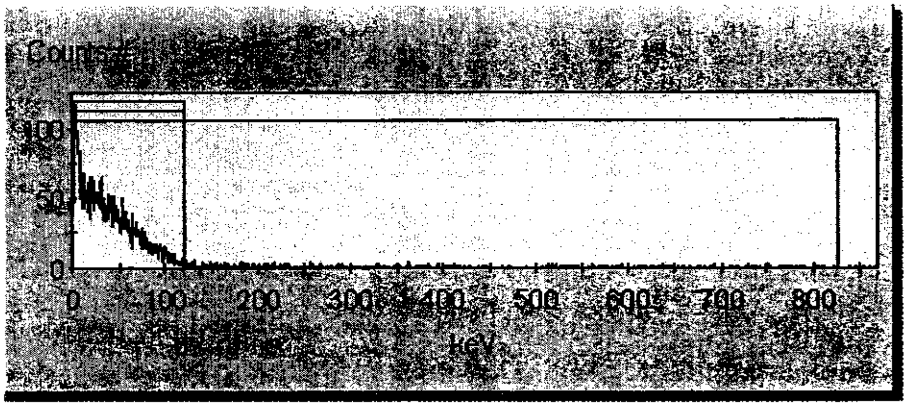


```
  13   5    2        60.00       473756D-10     139.40     141   177.85   360.39             2.25   0:00:16    3
10/6/2011   5:07:45 AM           98.86
```

SpectraView Block Data

```
  14   5    2        60.00        473757-10     125.35     127   195.99   353.49             2.39   0:00:17    3
10/6/2011   6:09:16 AM           98.72
```

SpectraView Block Data

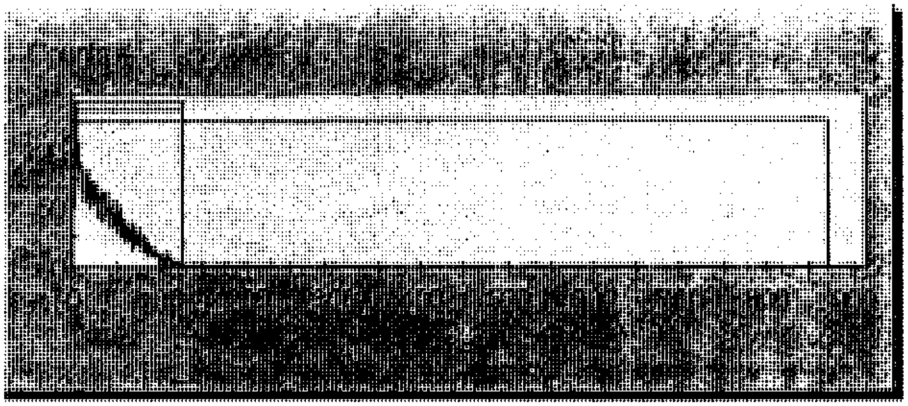


```
  15    5     2        60.00        473757D-10        129.92      131    200.37    360.89                2.34    0:00:18     3
10/6/2011    7:10:47 AM             98.87
```

SpectraView Block Data

```
  16    5     2        60.00         473758-10        142.18      144    183.21    376.71                2.23    0:00:19     3
10/6/2011    8:12:17 AM             98.96
```

SpectraView Block Data

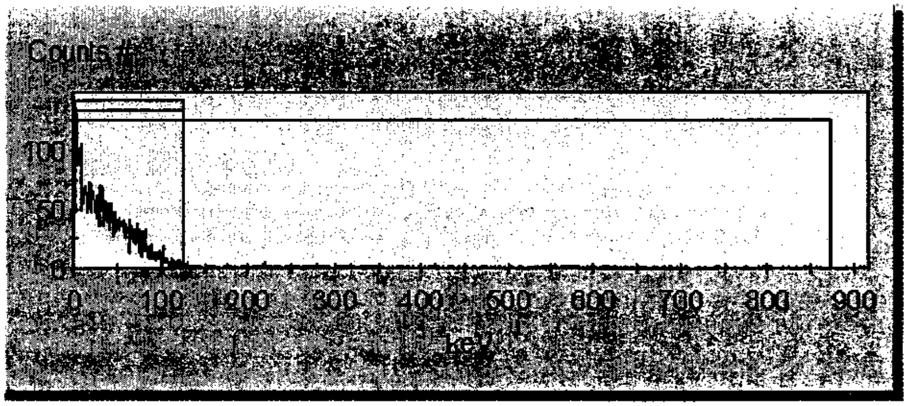


```
  17    5     2         60.00         473758D-10        142.57       144    191.45    366.07                 2.23    0:00:21      3
10/6/2011    9:13:47 AM             98.98
```

SpectraView Block Data

```
  18    5     2         60.00          473768-10        139.00       140    186.23    378.76                 2.26    0:00:22      3
10/6/2011   10:15:18 AM             98.95
```

SpectraView Block Data

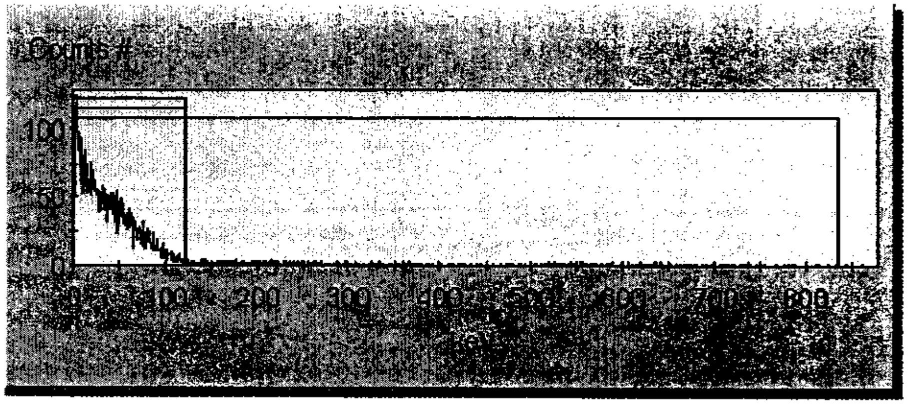


```
  19   5    2       60.00        473768D-10       140.75      142    195.15    366.11              2.25   0:00:23     3
10/6/2011  11:16:49 AM           98.98
```

SpectraView Block Data

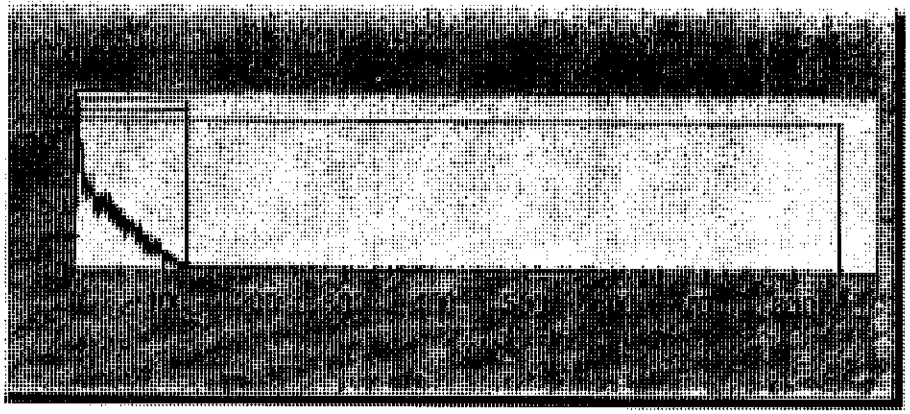
```
  20   5    2       60.00         473769-10       135.07      137    186.99    358.30              2.30   0:00:24     3
10/6/2011  12:18:20 PM           98.82
```

SpectraView Block Data



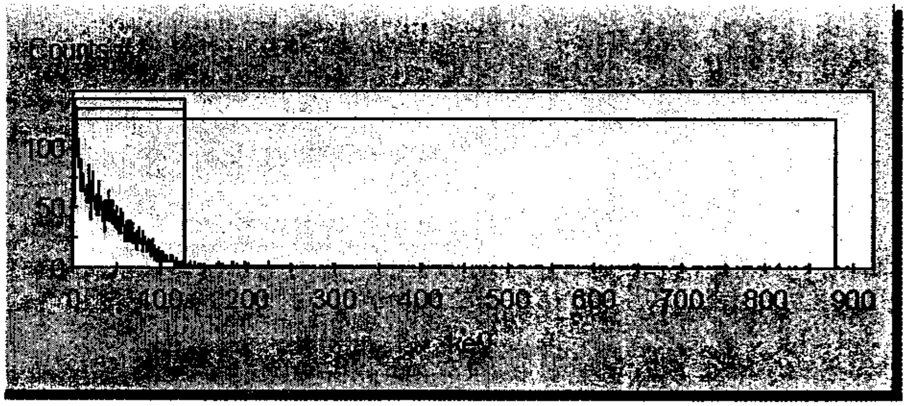
```
  21    5     2        60.00        473769D-10       136.42      138    193.86    366.67                  2.28    0:00:25     3
10/6/2011    1:19:49 PM             98.99
```

SpectraView Block Data



```
  22    5     2        60.00         473770-10       141.43      143    193.50    381.54                  2.24    0:00:26     3
10/6/2011    2:21:19 PM             98.94
```

SpectraView Block Data

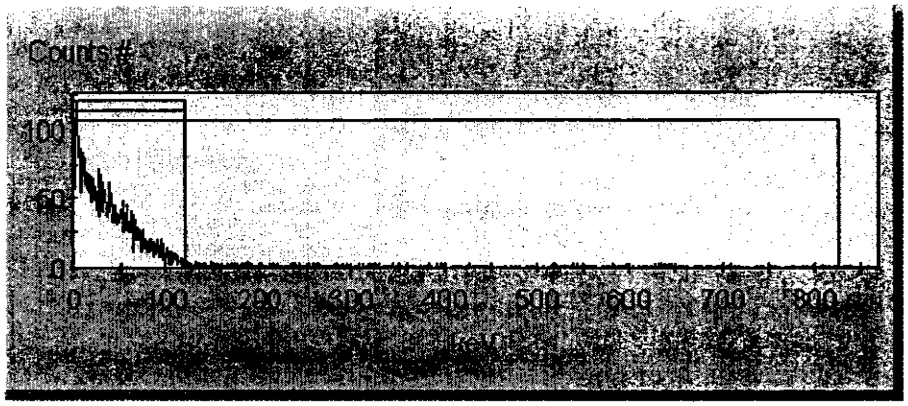


```
  23   5     2          60.00          473770D-10         140.87       143    189.20    356.58                   2.25    0:00:28     3
10/6/2011    3:22:49 PM                98.78
```

SpectraView Block Data

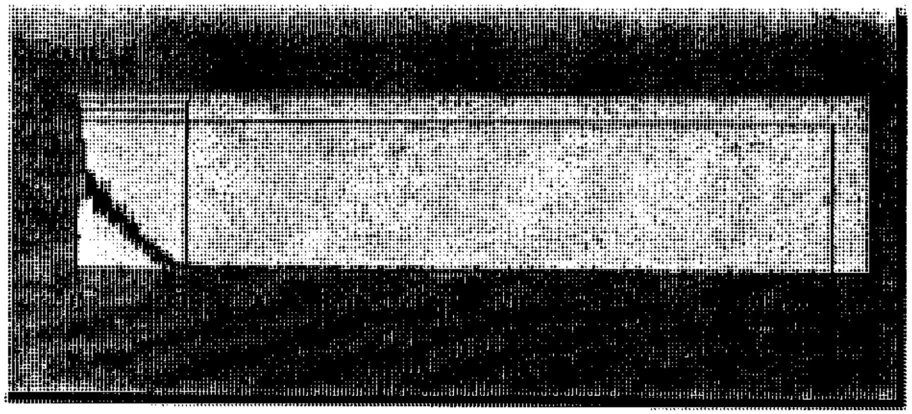
```
  24   5     2          60.00           473771-10         132.87       135    191.54    353.16                   2.31    0:00:29     3
10/6/2011    4:24:20 PM                98.71
```

SpectraView Block Data



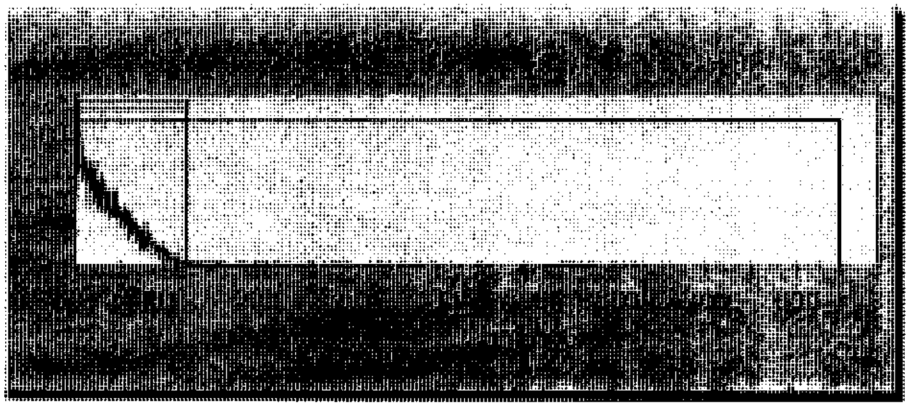
```
  25    5     9         60.00         473771D-10        137.78       139    182.42    377.28                 2.27    0:00:30     3
10/6/2011     5:25:56 PM              98.96
```

SpectraView Block Data



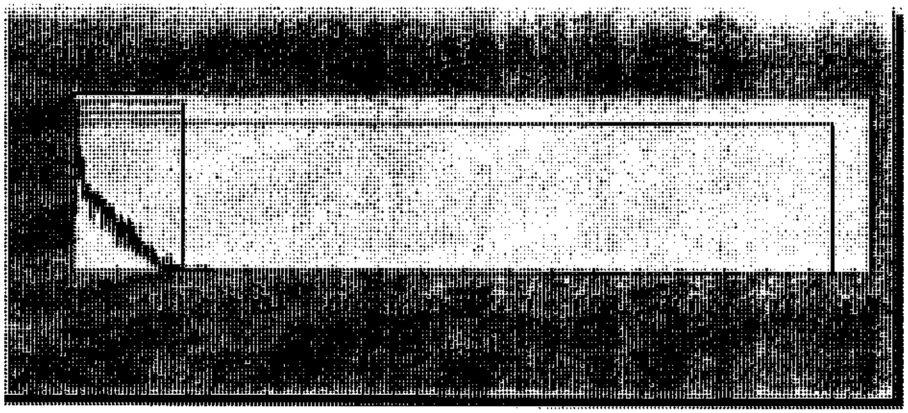
```
  26    5     9         60.00          473772-10        139.94       141    186.34    364.76                 2.25    0:00:31     3
10/6/2011     6:27:27 PM              98.95
```

SpectraView Block Data



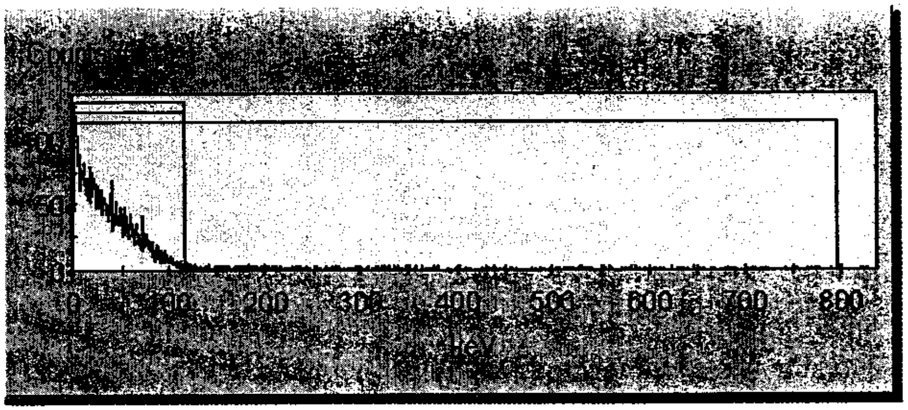
```
  27   5     9         60.00        473772D-10        136.88       138    188.18    379.58                 2.28    0:00:32     3
10/6/2011    7:28:58 PM             98.95
```

SpectraView Block Data



```
  28   5     9         60.00         473778-10        135.88       138    182.57    336.75                 2.29    0:00:34     3
10/6/2011    8:30:29 PM             98.31
```

SpectraView Block Data



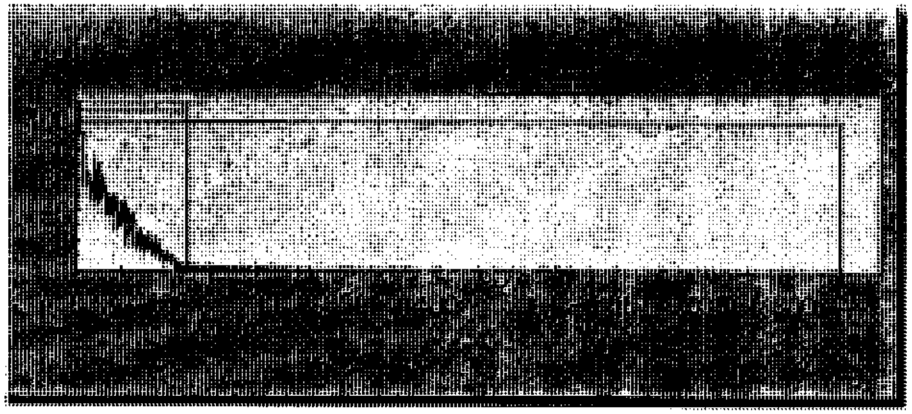
```
  29    5     9         60.00          473778D-10        134.35        136    195.14     370.89                2.30    0:00:35      3
10/6/2011     9:31:59 PM               98.98
```

SpectraView Block Data

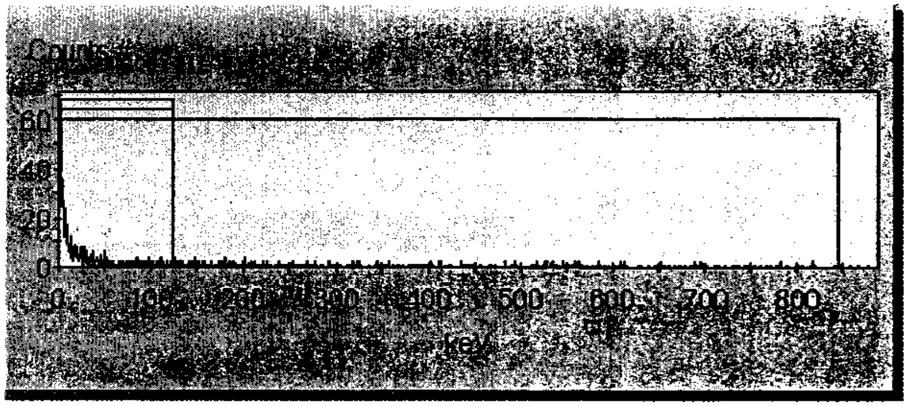
```
  30    5     9         60.00           473045-10        133.13        135    183.31     355.57                2.31    0:00:36      3
10/6/2011    10:33:30 PM               98.76
```

SpectraView Block Data

```
  31   5     9          60.00          473045D-10        131.01       132    189.53    367.94                 2.33    0:00:37     3
10/6/2011  11:35:00 PM                 99.00

SpectraView Block Data
```



```
  32   5     9          60.00           PBWK03JV2         14.91        15    483.11    363.19                 8.45    0:00:38    16
10/7/2011  12:36:30 AM                 98.92

SpectraView Block Data
```

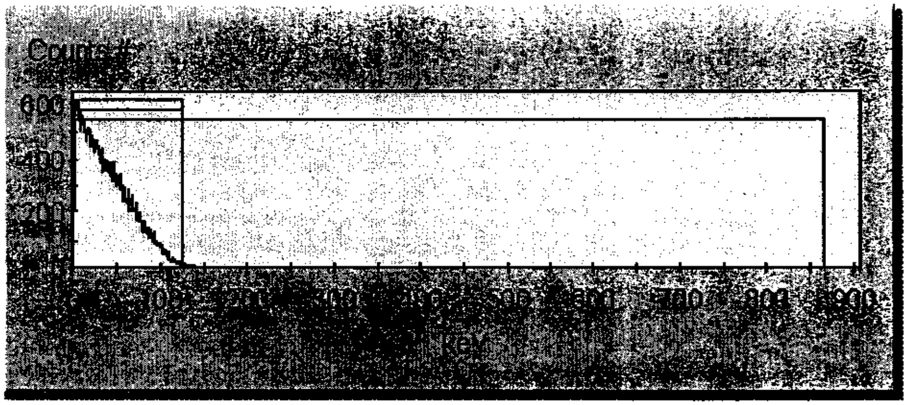


```
  33    5     9         60.00        LCSWK03JV3      1096.22     1114     133.77    340.22                  0.78     0:00:40      0
10/7/2011     1:37:59 AM             98.45
```

SpectraView Block Data

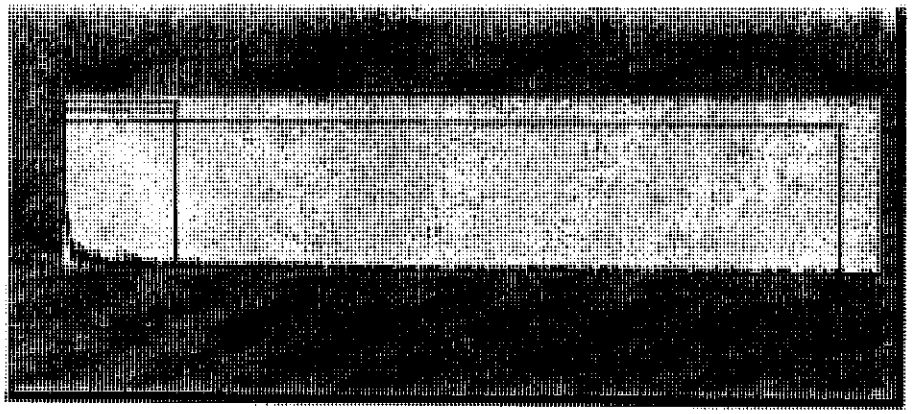
```
  34    5     9         60.00        LCSWK03JV4      1098.22     1110     136.44    373.78                  0.78     0:00:41      0
10/7/2011     2:39:31 AM             98.97
```

SpectraView Block Data



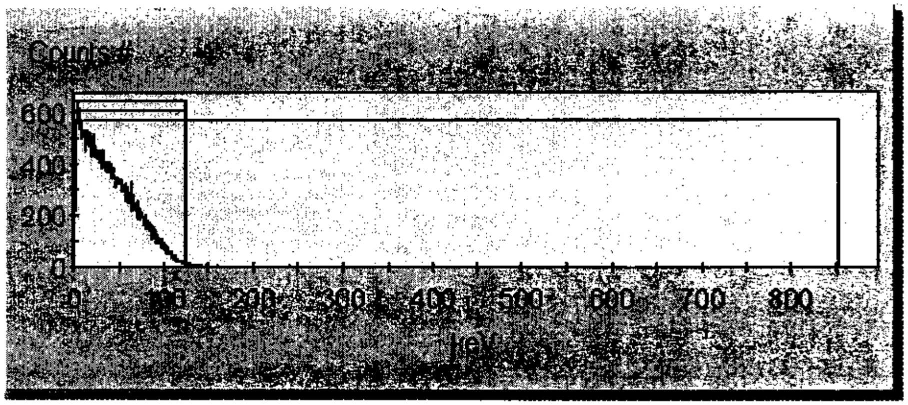
```
  35    5     9        60.00        PBWK04JV1        15.34       15    454.34    368.90                 8.29    0:00:42    16
10/7/2011    3:41:02 AM           98.99
```

SpectraView Block Data



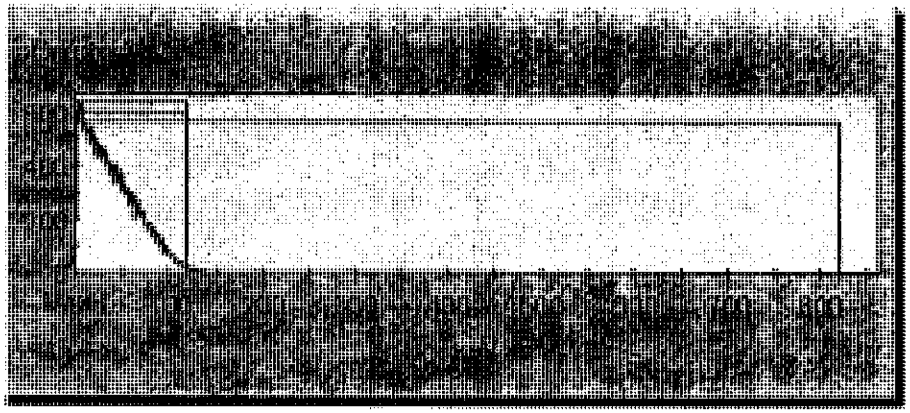
```
  36    5     9        60.00        LCSWK04JV1     1096.72     1108    138.31    368.08                 0.78    0:00:43     0
10/7/2011    4:42:32 AM           98.99
```

SpectraView Block Data



```
  37    5   16        60.00        LCSWK04JV2      1106.36     1122    134.74    349.89                0.78    0:00:44     0
10/7/2011    5:44:10 AM            98.64
```

SpectraView Block Data



```
  38    5   16        60.00      Blank Day #14      148.47      150    179.98    357.64                2.18    0:00:46     3
10/7/2011    6:45:45 AM            98.80
  39    5   16        60.00          473754-14      144.78      146    178.73    362.68                2.21    0:00:46     3
10/7/2011    7:47:16 AM            98.91
  40    5   16        60.00         473754D-14      144.76      146    189.77    366.19                2.21    0:00:46     3
10/7/2011    8:48:47 AM            98.98
```

```
  41   5   16        60.00        473755-14      125.85     127   190.03   359.11          2.38   0:00:46    3
 10/7/2011   9:50:18 AM           98.83
  42   5   16        60.00        473755D-14     130.84     132   195.86   377.41          2.33   0:00:47    3
 10/7/2011  10:51:47 AM           98.96
  43   5   16        60.00        473756-14      141.56     143   182.25   359.67          2.24   0:00:47    3
 10/7/2011  11:53:17 AM           98.84
  44   5   16        60.00        473756D-14     141.51     144   186.11   341.59          2.24   0:00:47    3
 10/7/2011  12:54:47 PM           98.47
  45   5   16        60.00        473757-14      120.75     124   202.69   310.20          2.43   0:00:47    3
 10/7/2011   1:56:18 PM           97.21
  46   5   16        60.00        473757D-14     129.14     131   189.41   349.43          2.35   0:00:48    3
 10/7/2011   2:57:50 PM           98.63
  47   5   16        60.00        473758-14      142.47     144   186.50   370.50          2.23   0:00:48    3
 10/7/2011   3:59:19 PM           98.98
  48   5   16        60.00        473758D-14     142.50     144   187.73   370.67          2.23   0:00:48    3
 10/7/2011   5:00:51 PM           98.98
  49   5   19        60.00        473768-14      137.67     139   188.46   359.87          2.27   0:00:48    3
 10/7/2011   6:02:27 PM           98.85
  50   5   19        60.00        473768D-14     137.67     140   184.10   350.50          2.27   0:00:48    3
 10/7/2011   7:03:58 PM           98.66
  51   5   19        60.00        473769-14      141.05     143   180.44   354.36          2.24   0:00:49    3
 10/7/2011   8:05:28 PM           98.74
  52   5   19        60.00        473769D-14     138.43     140   190.31   366.86          2.26   0:00:49    3
 10/7/2011   9:06:58 PM           98.99
  53   5   19        60.00        473770-14      145.79     148   182.82   356.26          2.20   0:00:49    3
 10/7/2011  10:08:27 PM           98.77
  54   5   19        60.00        473770D-14     142.99     144   183.09   374.57          2.22   0:00:49    3
 10/7/2011  11:09:57 PM           98.97
  55   5   19        60.00        473771-14      137.70     140   191.10   341.12          2.27   0:00:49    3
 10/8/2011  12:11:27 AM           98.46
  56   5   19        60.00        473771D-14     135.15     139   179.50   309.09          2.29   0:00:50    3
 10/8/2011   1:12:58 AM           97.21
  57   5   19        60.00        473772-14      140.06     142   187.16   348.19          2.25   0:00:50    3
 10/8/2011   2:14:27 AM           98.61
  58   5   19        60.00        473772D-14     137.52     140   195.44   345.67          2.27   0:00:50    3
 10/8/2011   3:15:57 AM           98.56
  59   5   19        60.00        473778-14      131.72     134   191.66   349.83          2.33   0:00:50    3
 10/8/2011   4:17:27 AM           98.64
  60   5   19        60.00        473778D-14     132.43     134   190.79   355.26          2.32   0:00:51    3
 10/8/2011   5:18:58 AM           98.75
  61   5   7         60.00        473045-14      133.63     135   193.57   369.26          2.31   0:00:51    3
 10/8/2011   6:20:34 AM           98.99
  62   5   7         60.00        473045D-14     132.15     134   191.23   336.55          2.32   0:00:51    3
 10/8/2011   7:22:03 AM           98.31
  63   5   7         60.00        PBWK04JV2       14.31      14   472.16   351.30          8.69   0:00:51   17
 10/8/2011   8:23:34 AM           98.67
```

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```
  64   5    7        60.00       LCSWK04JV3     1094.65     1111    133.57    345.86              0.78    0:00:51     0
 10/8/2011   9:25:04 AM          98.56
  65   5    7        60.00       LCSWK04JV4     1099.34     1111    136.89    382.62              0.78    0:00:52     0
 10/8/2011  10:26:36 AM          98.94
```

Southwest Research Institute, Division 1, Radiochemistry
LSC Bench Sheet
Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-217
Prep Date: 11-Oct-11
WAN

✓ JVN 10/25/11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer	
							%Rec	% error
PBWK11JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK11JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK11JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-21	0.10	50.0	0.00200	50.0	0.100	10.00		
473754	0.10	50.0	0.00200	50.0	0.100	10.00		
473754D	0.10	50.0	0.00200	50.0	0.100	10.00		
473755	0.10	50.0	0.00200	50.0	0.100	10.00		
473755D	0.10	50.0	0.00200	50.0	0.100	10.00		
473756	0.10	50.0	0.00200	50.0	0.100	10.00		
473756D	0.10	50.0	0.00200	50.0	0.100	10.00		
473757	0.10	50.0	0.00200	50.0	0.100	10.00		
473757D	0.10	50.0	0.00200	50.0	0.100	10.00		
473758	0.10	50.0	0.00200	50.0	0.100	10.00		
473758D	0.10	50.0	0.00200	50.0	0.100	10.00		
473768	0.10	50.0	0.00200	50.0	0.100	10.00		
473768D	0.10	50.0	0.00200	50.0	0.100	10.00		
473769	0.10	50.0	0.00200	50.0	0.100	10.00		
473769D	0.10	50.0	0.00200	50.0	0.100	10.00		
473770	0.10	50.0	0.00200	50.0	0.100	10.00		
473770D	0.10	50.0	0.00200	50.0	0.100	10.00		
473771	0.10	50.0	0.00200	50.0	0.100	10.00		
473771D	0.10	50.0	0.00200	50.0	0.100	10.00		
473772	0.10	50.0	0.00200	50.0	0.100	10.00		
473772D	0.10	50.0	0.00200	50.0	0.100	10.00		
473778	0.10	50.0	0.00200	50.0	0.100	10.00		
473778D	0.10	50.0	0.00200	50.0	0.100	10.00		
473045	0.10	50.0	0.00200	50.0	0.100	10.00		
473045D	0.10	50.0	0.00200	50.0	0.100	10.00		
PBWK11JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK11JV3	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK11JV4	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-217
Prep Date: 11-Oct-11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

Liquid Scintilliation Results

Lab Id	Analyte	Matrix	Time (m)	tSIE	Raw cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	317.14	15.38	8.30	15.78	97.49	
BKG-2	Tc-99	Water	60	370.96	14.33	8.69	14.48	98.98	
				AVG BKG	14.86	AVG BKG	15.13		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWK11JV1	Tc-99	Water	60	363.85	16.18	8.03	1.34	98.93		6.03E+00	3.29E+00	1.08E+01	3.27E+00		PB > 1.65*TPU	
LCSWK11JV1	Tc-99	Water	60	353.51	1106.59	0.78	1105.89	98.72		4.98E+03	2.88E+02	1.08E+01	1.97E+01	5000	99.6%	-0.004
LCSWK11JV2	Tc-99	Water	60	341.10	1100.57	0.78	1102.70	98.46		4.97E+03	2.87E+02	1.08E+01	1.97E+01	5000	99.3%	-0.007
Blank-21	Tc-99	Water	60	390.00	152.57	2.15	139.25	98.90		6.27E+02	3.70E+01	1.08E+01	7.61E+00			
473754	Tc-99	Water	60	346.80	140.72	2.25	127.68	98.58		5.75E+02	3.40E+01	1.08E+01	7.36E+00	RPD	Dup Evaluation	
473754D	Tc-99	Water	60	308.82	143.12	2.23	131.93	97.22		5.94E+02	3.51E+01	1.10E+01	7.52E+00	3.28	0.39	Pass
473755	Tc-99	Water	60	354.86	120.85	2.44	107.34	98.75		4.83E+02	2.87E+01	1.08E+01	6.86E+00	RPD	Dup Evaluation	
473755D	Tc-99	Water	60	354.99	127.92	2.37	114.50	98.75		5.16E+02	3.06E+01	1.08E+01	7.04E+00	6.45	0.77	Pass
473756	Tc-99	Water	60	377.23	142.95	2.23	129.44	98.96		5.83E+02	3.44E+01	1.08E+01	7.38E+00	RPD	Dup Evaluation	
473756D	Tc-99	Water	60	352.64	140.70	2.25	127.50	98.70		5.74E+02	3.39E+01	1.08E+01	7.35E+00	1.51	0.18	Pass
473757	Tc-99	Water	60	361.67	125.84	2.38	112.23	98.89		5.06E+02	3.00E+01	1.08E+01	6.98E+00	RPD	Dup Evaluation	
473757D	Tc-99	Water	60	373.68	126.28	2.38	112.58	98.97		5.07E+02	3.01E+01	1.08E+01	6.98E+00	0.31	0.04	Pass
473758	Tc-99	Water	60	342.28	142.59	2.23	129.69	98.49		5.84E+02	3.45E+01	1.08E+01	7.41E+00	RPD	Dup Evaluation	
473758D	Tc-99	Water	60	369.42	146.04	2.20	132.52	98.99		5.97E+02	3.52E+01	1.08E+01	7.45E+00	2.16	0.26	Pass
473768	Tc-99	Water	60	385.75	137.88	2.27	124.37	98.92		5.60E+02	3.31E+01	1.08E+01	7.27E+00	RPD	Dup Evaluation	
473768D	Tc-99	Water	60	367.58	137.37	2.27	123.75	99.00		5.57E+02	3.30E+01	1.08E+01	7.25E+00	0.50	0.06	Pass
473769	Tc-99	Water	60	345.40	138.13	2.27	125.09	98.55		5.63E+02	3.33E+01	1.08E+01	7.30E+00	RPD	Dup Evaluation	
473769D	Tc-99	Water	60	361.66	135.28	2.29	121.78	98.89		5.49E+02	3.24E+01	1.08E+01	7.21E+00	2.68	0.32	Pass
473770	Tc-99	Water	60	356.25	140.94	2.24	127.66	98.77		5.75E+02	3.40E+01	1.08E+01	7.35E+00	RPD	Dup Evaluation	
473770D	Tc-99	Water	60	364.42	146.57	2.20	133.13	98.94		6.00E+02	3.54E+01	1.08E+01	7.47E+00	4.20	0.50	Pass
473771	Tc-99	Water	60	347.80	136.76	2.28	123.64	98.60		5.57E+02	3.29E+01	1.08E+01	7.26E+00	RPD	Dup Evaluation	
473771D	Tc-99	Water	60	342.17	133.70	2.31	120.67	98.49		5.44E+02	3.22E+01	1.08E+01	7.20E+00	2.43	0.29	Pass
473772	Tc-99	Water	60	350.90	139.10	2.26	125.93	98.66		5.67E+02	3.35E+01	1.08E+01	7.31E+00	RPD	Dup Evaluation	
473772D	Tc-99	Water	60	340.59	138.05	2.27	125.13	98.45		5.64E+02	3.33E+01	1.08E+01	7.30E+00	0.64	0.08	Pass
473778	Tc-99	Water	60	315.72	137.18	2.27	125.55	97.43		5.66E+02	3.34E+01	1.09E+01	7.36E+00	RPD	Dup Evaluation	
473778D	Tc-99	Water	60	357.03	133.17	2.31	119.76	98.79		5.39E+02	3.19E+01	1.08E+01	7.16E+00	4.72	0.56	Pass
473045	Tc-99	Water	60	371.31	136.65	2.28	123.05	98.98		5.54E+02	3.28E+01	1.08E+01	7.23E+00	RPD	Dup Evaluation	
473045D	Tc-99	Water	60	368.23	132.60	2.32	118.95	98.99		5.36E+02	3.17E+01	1.08E+01	7.13E+00	3.39	0.41	Pass
PBWK11JV2	Tc-99	Water	60	355.45	14.24	8.77	-0.62	98.76		-2.81E+00	3.18E+00	1.08E+01	3.18E+00		PB < 1.65*TPU	
LCSWK11JV3	Tc-99	Water	60	337.94	1105.28	0.78	1108.61	98.36		4.99E+03	2.89E+02	1.08E+01	1.98E+01	5000	99.9%	-0.001
LCSWK11JV4	Tc-99	Water	60	353.16	1112.94	0.78	1112.44	98.71		5.01E+03	2.90E+02	1.08E+01	1.98E+01	5000	100.2%	0.002

Notes: Day #21 results.

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110825-10, 110915-9
Prep Page: 12-217
Prep Date: 11-Oct-11

Project #: 16526.05.00X
SRR: 45511, 45412
RL: 20 pCi/L
Units: L

Sample Calculations
dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

TPU Factors	%
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	5.77%

010116

Assay Definition

Assay Description:

Assay Type: DPM (Single)
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111012_1229
Raw Results Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111012_1229\20111012_1229.results
Assay File Name: C:\Packard\TriCarb\Assays\99tc_dpm.lsa

Count Conditions

Nuclide: 99tc
  Quench Indicator: tSIE/AEC
  External Std Terminator (sec): 10 sec
  Pre-Count Delay (min): 0.00
Quench Set:
  Low Energy: 99Tc
Count Time (min): 60.00
Count Mode: Normal
Assay Count Cycles: 1   Repeat Sample Count: 1
#Vials/Sample: 1   Calculate % Reference: Off

Fluor B&W Portsmouth
16526.05.00K
TD# 110825-10, 110915-9
12-217
WAN
Day21

Background Subtract

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

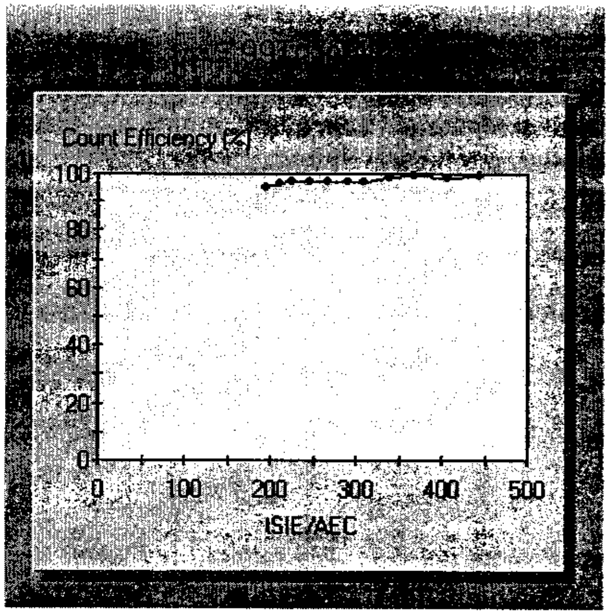
Regions	LL	UL
A	0.0	292.0
B	0.0	292.0
C	0.0	2000.0

Count Corrections

Static Controller: On   Luminescence Correction: On
Colored Samples: On   Heterogeneity Monitor: Off
Coincidence Time (nsec): 18   Delay Before Burst (nsec): 75

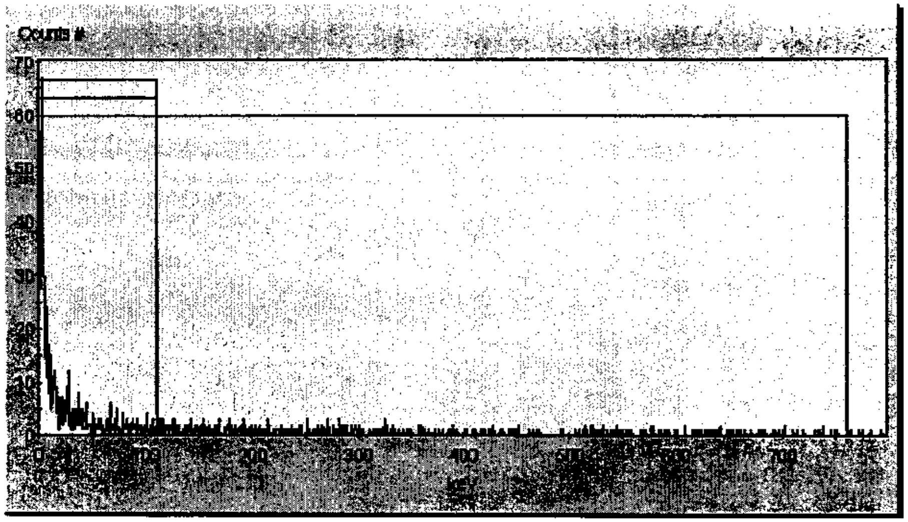
Instrument Block Data

```
MODEL=Tri-Carb 3180TR/SL
VERSION=2.12
SERIAL=084368


IPA Block Data

Software Version IC: 2.12
Software Version EC: 3.00
Instrument Model: Tri-Carb 3180TR/SL
Instrument Serial Number: 084368
3H Chi Square: 19.79    Date Processed: 10/12/2011 10:53:32 AM
14C Chi Square: 23.31   Date Processed: 10/12/2011 10:53:32 AM
3H E^2/B (1-18.6 keV): 1496.07  Date Processed: 10/12/2011 10:53:32 AM
14C E^2/B (4-156 keV): 5915.62   Date Processed: 10/12/2011 10:53:32 AM
3H Efficiency (1-18.6 keV): 64.51  Date Processed: 10/12/2011 10:53:32 AM
14C Efficiency (4-156 keV): 93.41  Date Processed: 10/12/2011 10:53:32 AM
IPA Background Date Processed: 10/12/2011 10:53:32 AM
3H Background CPM (1-18.6 keV): 2.78  Date Processed: 10/12/2011 10:53:32 AM
14C Background CPM (4-156 keV): 1.48  Date Processed: 10/12/2011 10:53:32 AM
3H Calibration DPM: 281700
3H Reference Date: 6/27/2008
14C Calibration DPM: 123000


Cycle 1 Results
Quench Curve Block Data
```



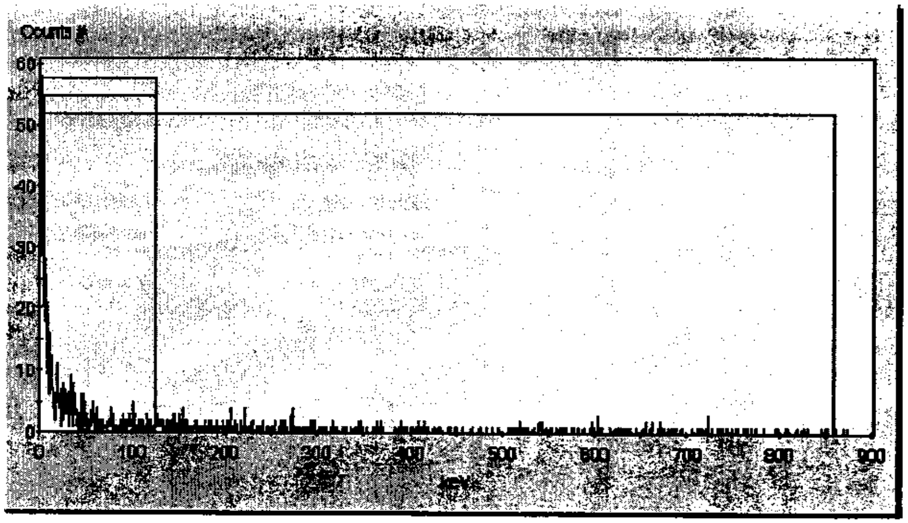
```
Date Acquired: 02/15/2011
Date Modified:
99Tc in A

tSIE/AEC      Count Efficiency (%)
443.42        99.12
406.31        98.84
367.18        99.00
339.52        98.43
310.34        97.21
291.55        97.35
267.03        97.31
246.83        97.51
224.44        96.91
211.47        96.41
195.92        95.37


  S#   P#   PID  Count Time          SMPL ID       CPMA    DPM1      SIS      tSIE  MESSAGES  A:2S%    ELTIME   LUM
DATE           TIME  Eff Nucl In A
   1    5    1       60.00             Bkg-1       15.38      16   430.96   317.14              8.30  1:01:33    16
10/12/2011  12:30:48 PM            97.49
```

SpectraView Block Data



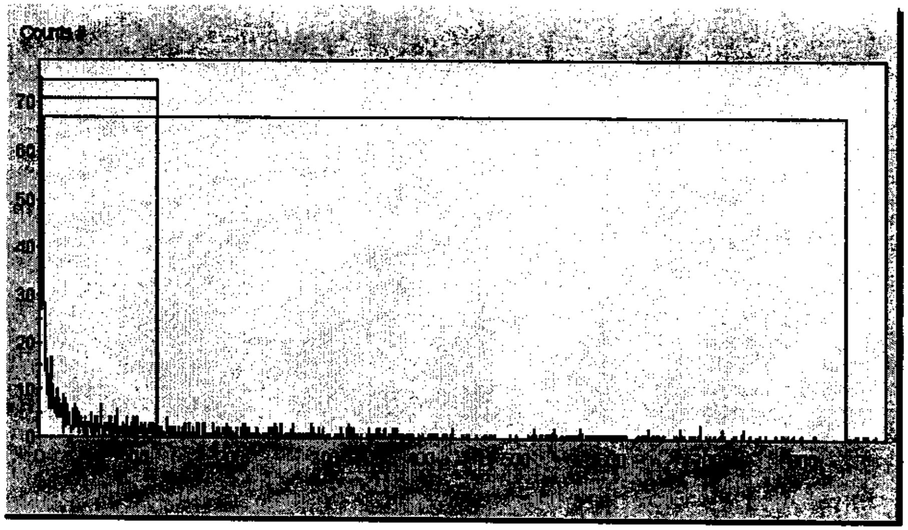
```
   2   5    1       60.00            Bkg-2       14.33       14   441.73   370.96             8.69   2:03:03   17
10/12/2011   1:32:20 PM          98.98
```

SpectraView Block Data



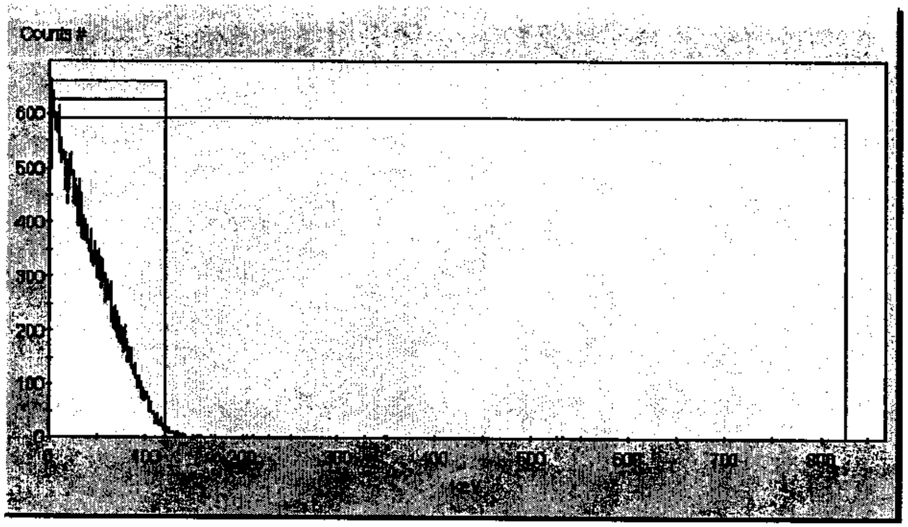
```
Missing vial 3.
  4   5    1        60.00        PBWK11JV1        16.18       16   446.29   363.85              8.03   3:04:36   16
10/12/2011   2:33:52 PM          98.93
```

SpectraView Block Data



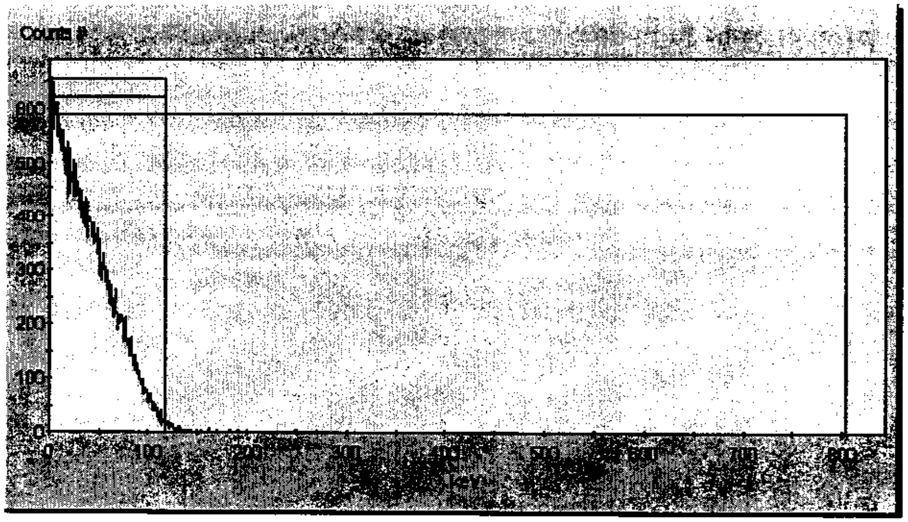
```
   5    5     1        60.00        LCSWK11JV1      1106.59     1121     135.33     353.51                 0.78    4:06:20     0
10/12/2011    3:35:23 PM             98.72
```

SpectraView Block Data



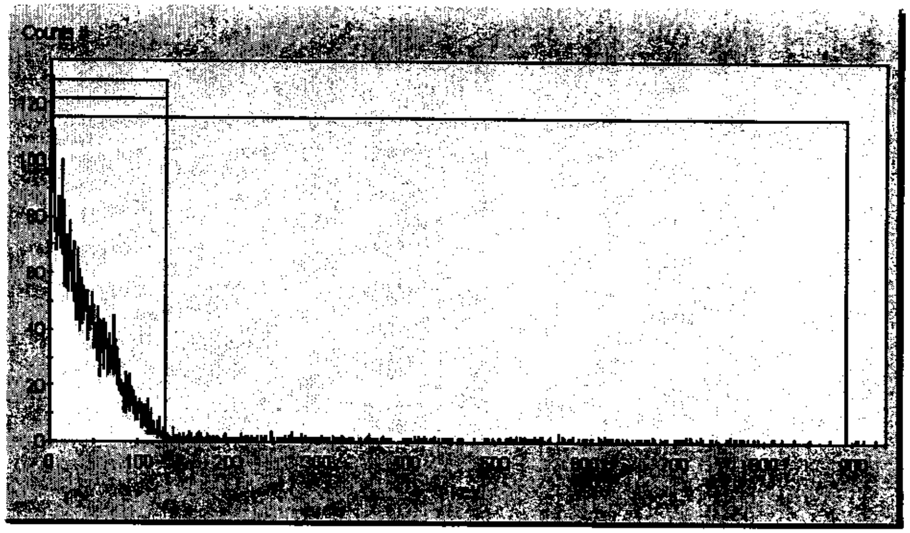
```
   6    5     1        60.00        LCSWK11JV2      1100.57     1118     133.38     341.10                 0.78    5:07:52     0
10/12/2011    4:37:07 PM             98.46
```

SpectraView Block Data

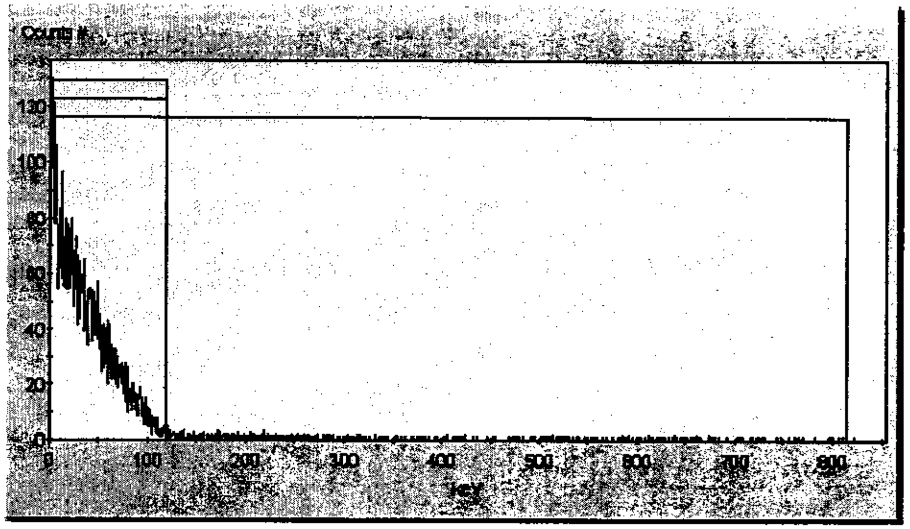


```
   7    5     1        60.00     Blank Day #21       152.57      154    190.36    390.00                2.15   6:10:21     3
10/12/2011    5:38:40 PM            98.90
```

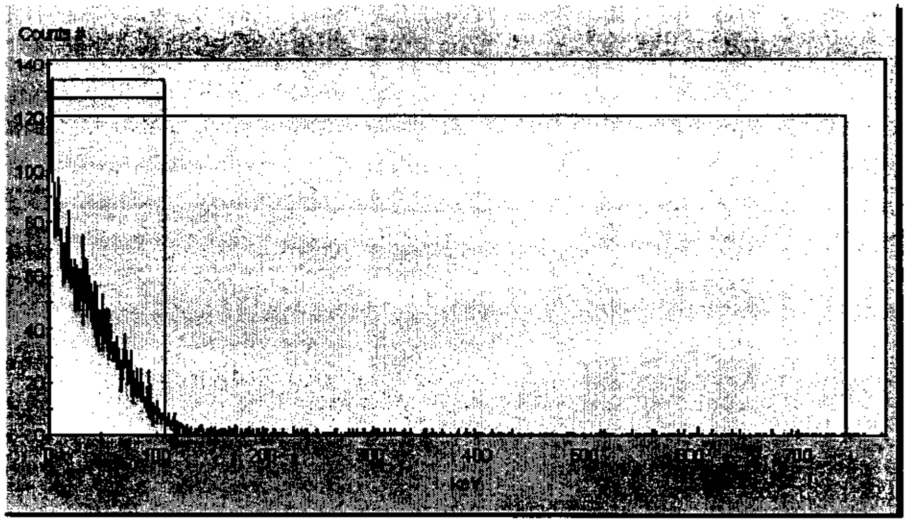
SpectraView Block Data



```
  8   5   1        60.00        473754-21       140.72      143   179.73   346.80                 2.25   7:12:50    3
10/12/2011   6:41:08 PM         98.58

SpectraView Block Data
```

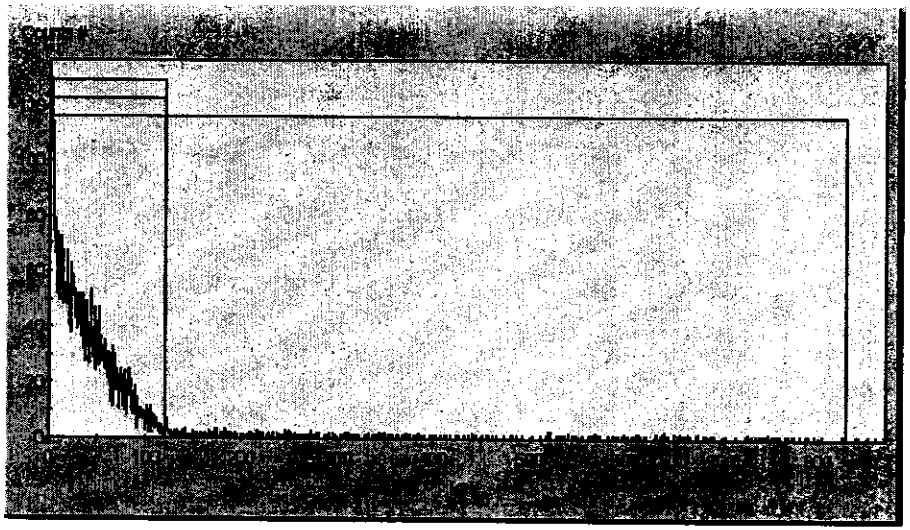


```
  9   5   1        60.00       473754D-21       143.12      147   187.96   308.82                 2.23   8:15:19    3
10/12/2011   7:43:37 PM         97.22

SpectraView Block Data
```



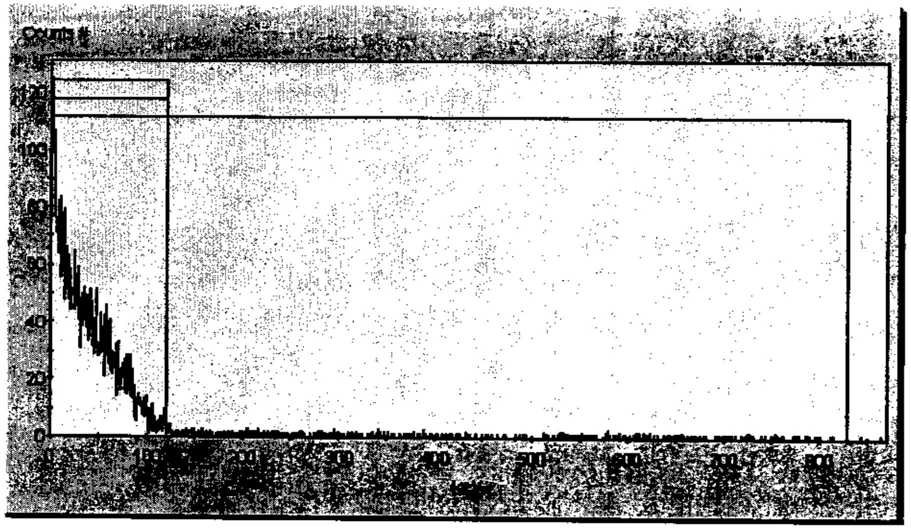
```
  10    5     1        60.00         473755-21        120.85      122   197.27   354.86              2.44   9:17:46    4
10/12/2011   8:46:06 PM              98.75
```

SpectraView Block Data



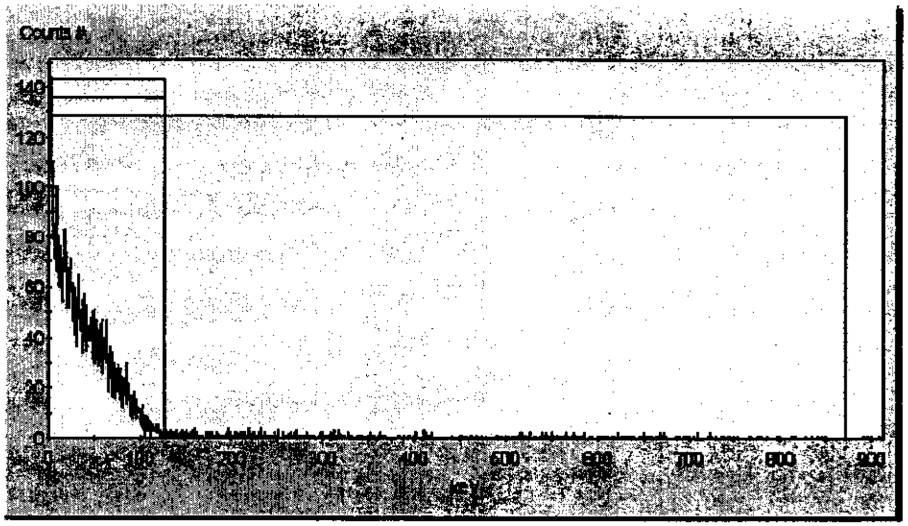
```
  11    5     1         60.00        473755D-21        127.92      130     195.64    354.99                  2.37   10:20:12     3
10/12/2011    9:48:33 PM              98.75
```

SpectraView Block Data



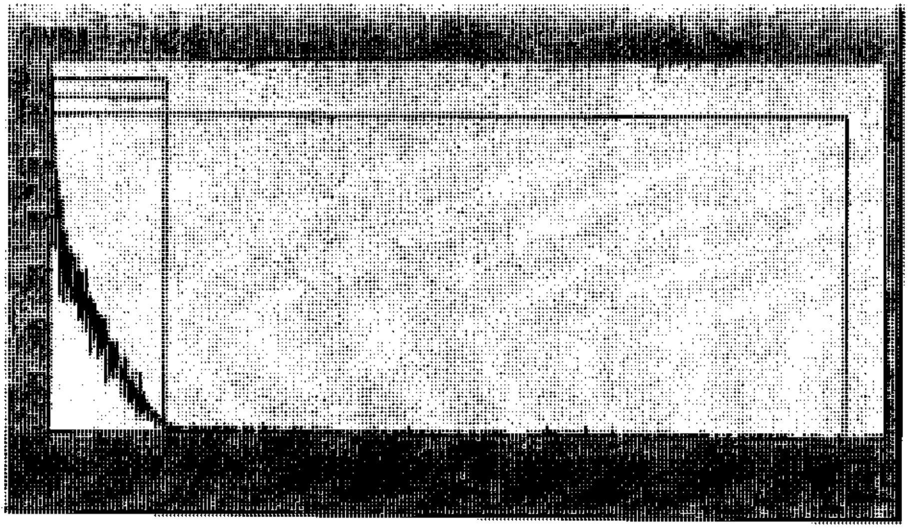
```
  12    5     1         60.00         473756-21        142.95      144     187.34    377.23                  2.23   11:22:38     3
10/12/2011   10:50:59 PM              98.96
```

SpectraView Block Data



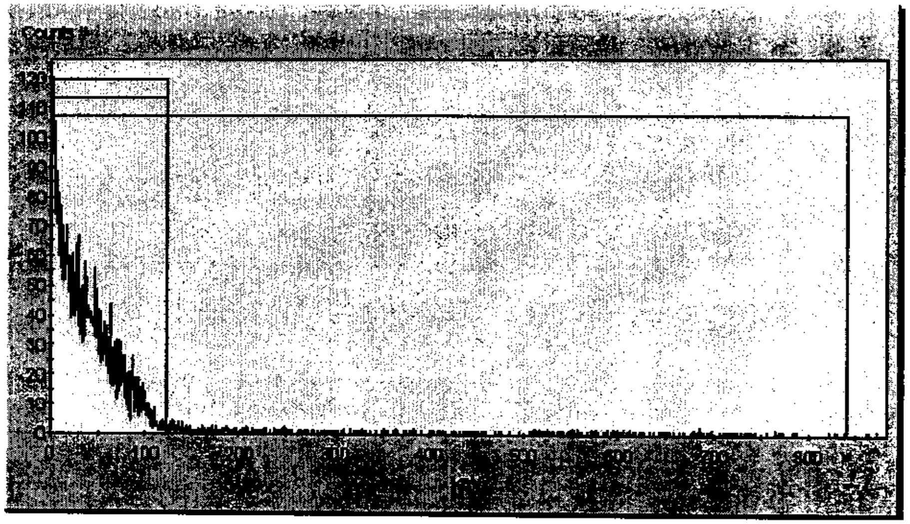
```
  13   5    2        60.00        473756D-21       140.70      143   192.19   352.64              2.25  12:25:08    3
10/12/2011  11:53:31 PM            98.70
```

SpectraView Block Data



```
  14   5    2        60.00         473757-21       125.84     127    194.36    361.67              2.38  13:27:30     3
10/13/2011  12:55:55 AM            98.89
```

SpectraView Block Data

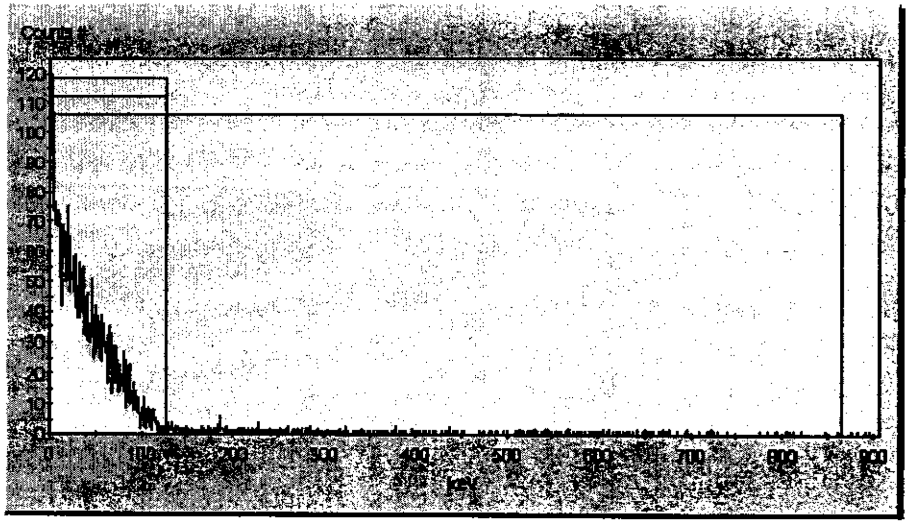


```
  15   5    2        60.00         473757D-21      126.28     128    193.21    373.68              2.38  14:29:49     3
10/13/2011   1:58:17 AM            98.97
```

SpectraView Block Data

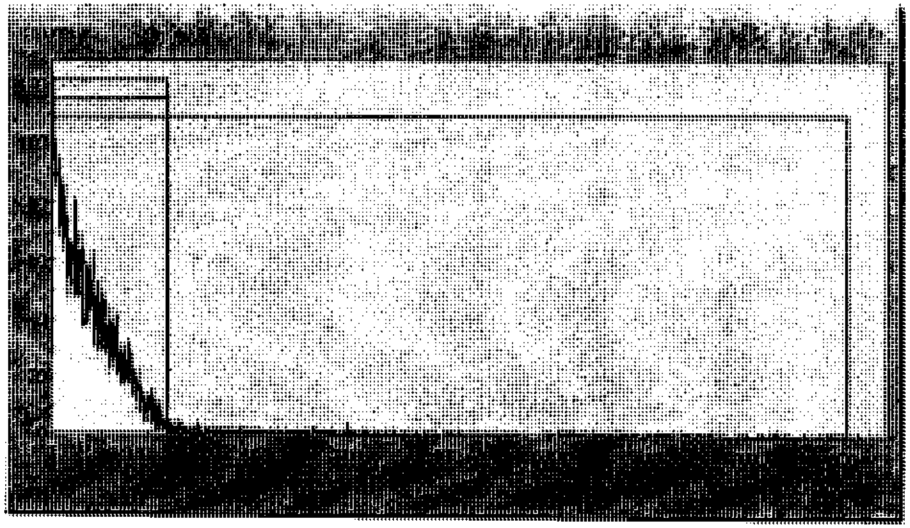
Protocol# 5 - 99tc_dpm.lsa

User: Default



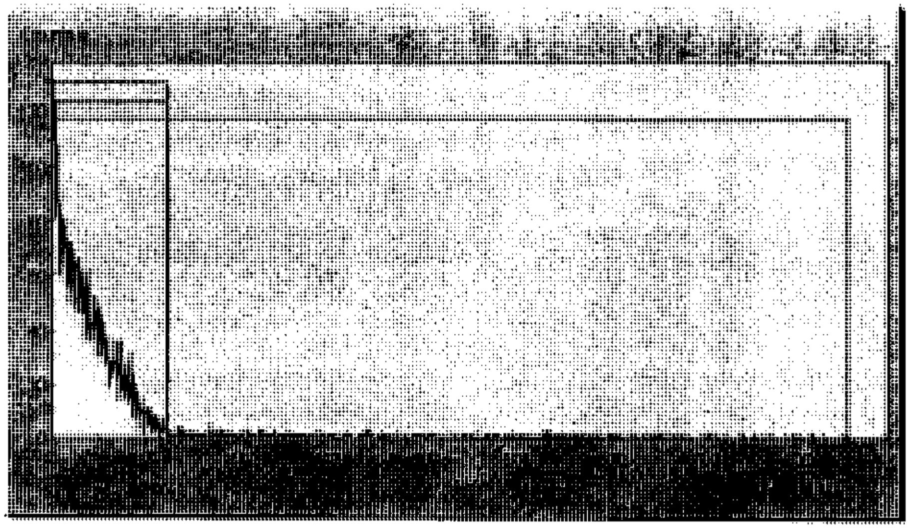
```
  16   5    2        60.00          473758-21        142.59      145    182.56    342.28                   2.23  15:32:12    3
10/13/2011   3:00:36 AM             98.49
```

SpectraView Block Data



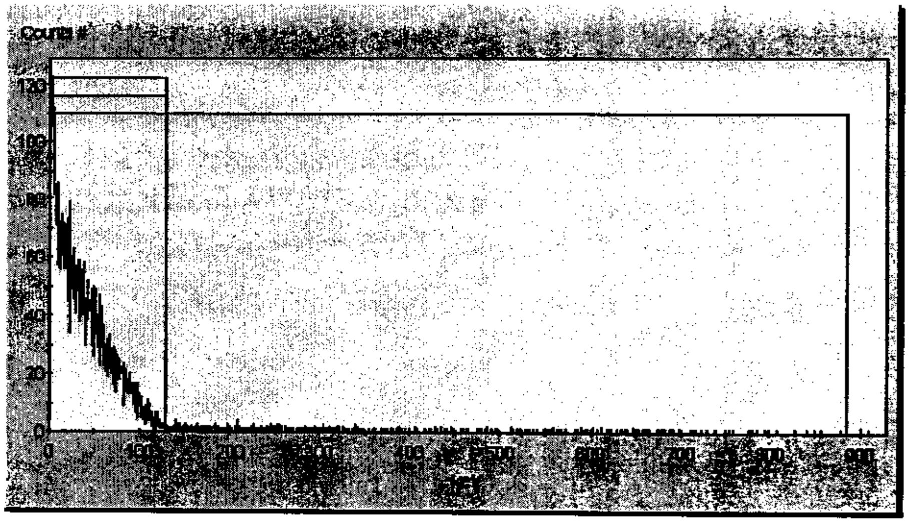
```
  17   5    2        60.00        473758D-21       146.04      148    186.77    369.42                  2.20  16:34:26     3
10/13/2011    4:02:59 AM            98.99
```

SpectraView Block Data



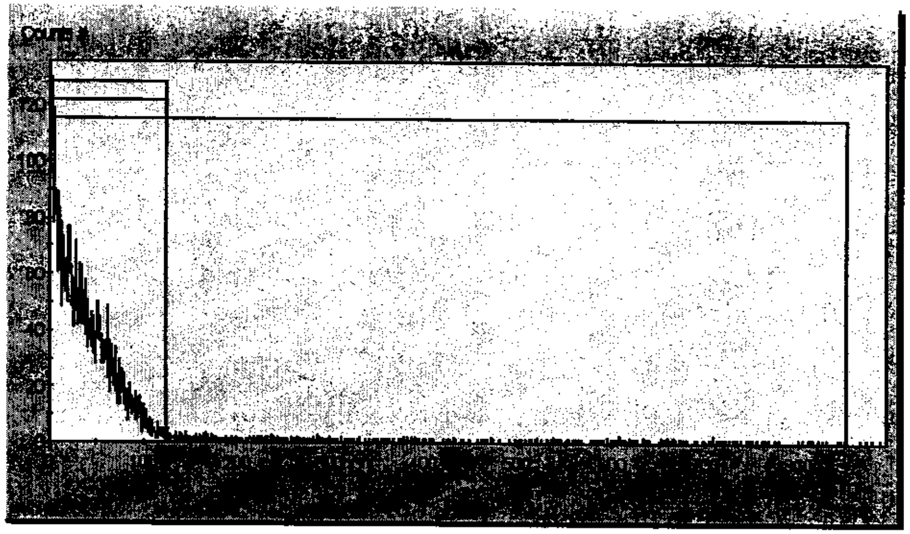
```
  18   5    2        60.00          473768-21      137.88      139    183.13    385.75                  2.27  17:36:38     3
10/13/2011    5:05:13 AM            98.92
```

SpectraView Block Data



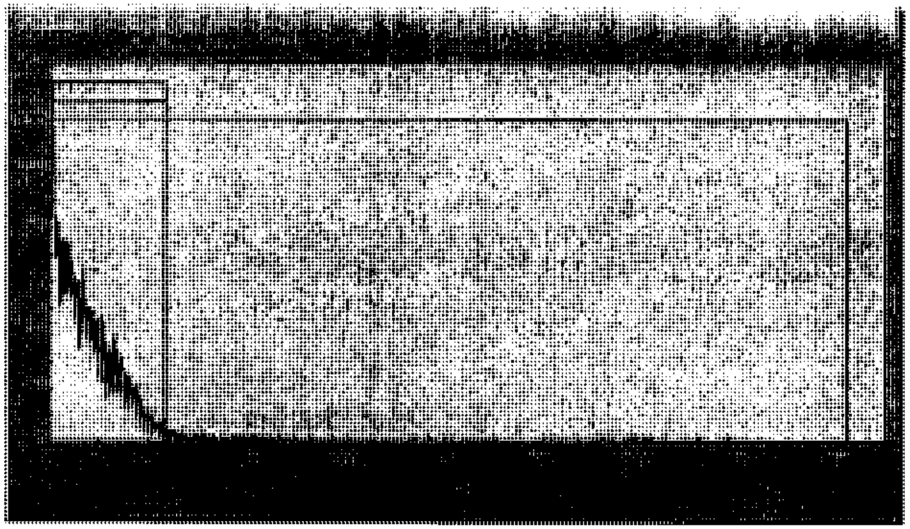
```
  19   5    2        60.00        473768D-21      137.37      139   188.67    367.58                2.27  18:38:41    3
10/13/2011    6:07:25 AM           99.00
```

SpectraView Block Data



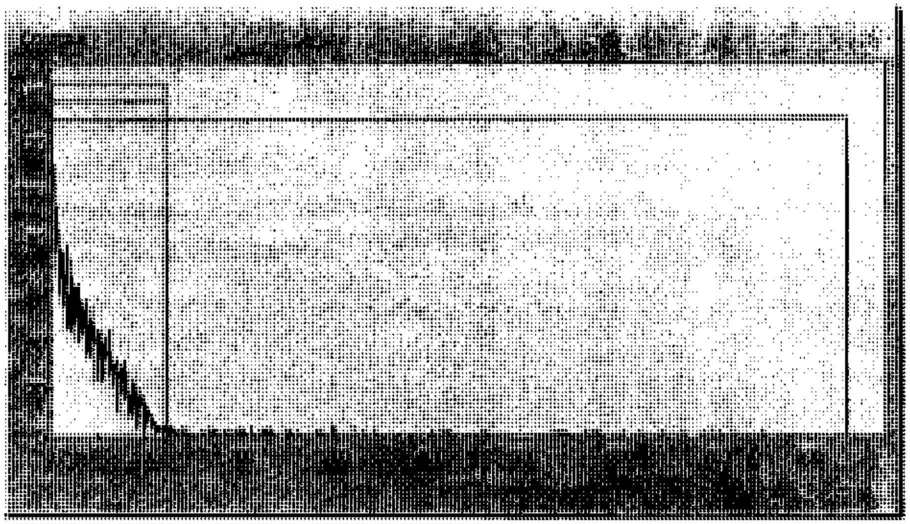
```
  20    5     2         60.00          473769-21        138.13      140    191.03    345.40                2.27  19:40:47     3
10/13/2011    7:09:28 AM               98.55
```

SpectraView Block Data



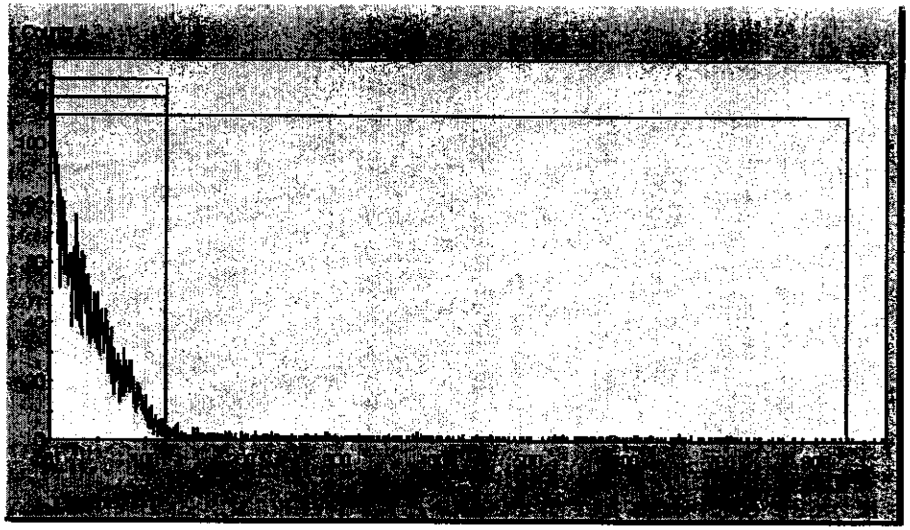
```
  21    5     2         60.00          473769D-21       135.28      137    193.03    361.66                2.29  20:42:46     3
10/13/2011    8:11:35 AM               98.89
```

SpectraView Block Data



```
  22    5    2        60.00        473770-21        140.94       143    192.69    356.25                2.24   21:44:38     3
10/13/2011    9:13:33 AM           98.77
```

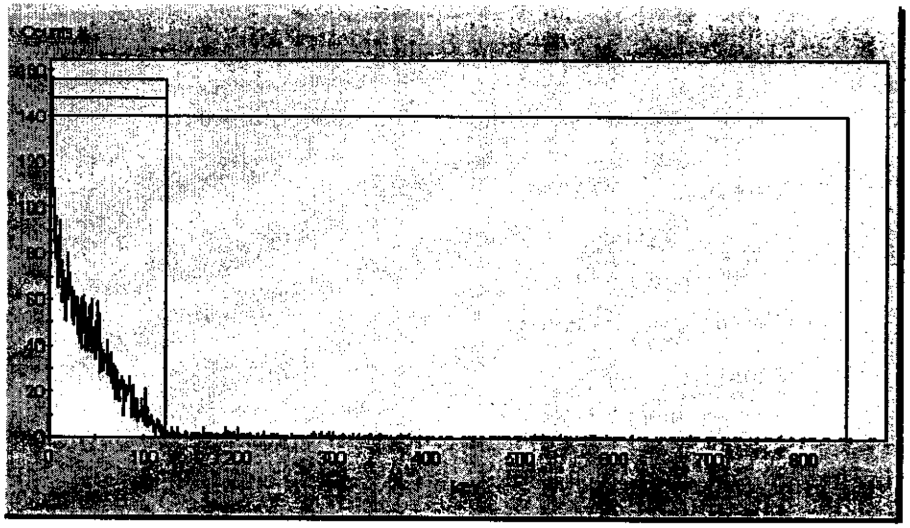
SpectraView Block Data



0101133

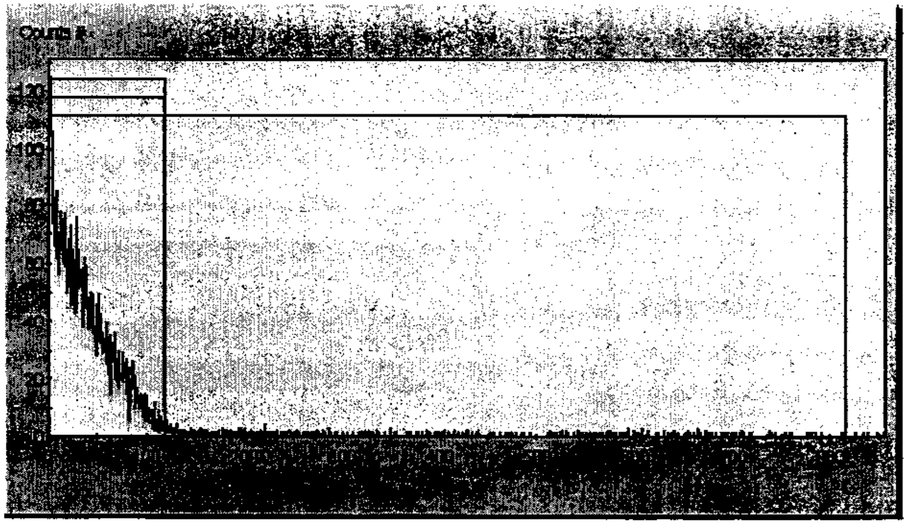
```
  23   5    2       60.00        473770D-21       146.57      148    182.22   364.42               2.20   22:46:42    3
10/13/2011  10:15:26 AM            98.94
```

SpectraView Block Data



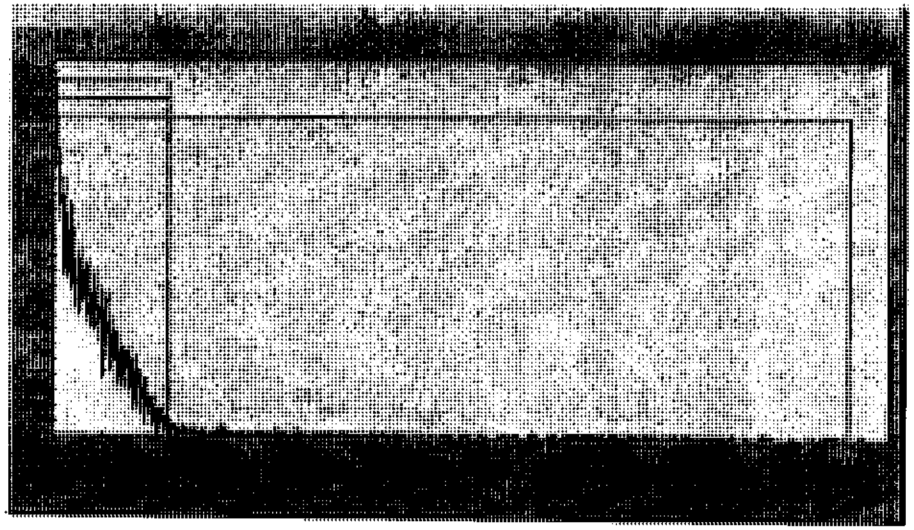
```
  24   5    2       60.00          473771-21       136.76      139    190.37   347.80               2.28   23:48:30    3
10/13/2011  11:17:28 AM              98.60
```

SpectraView Block Data



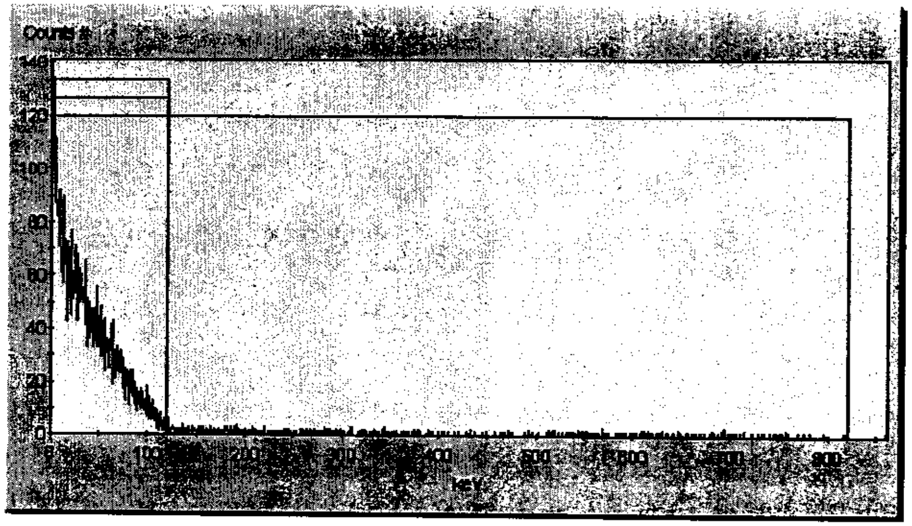
```
  25   5    7       60.00      473771D-21      133.70     136   191.76   342.17             2.31  24:50:30    3
10/13/2011  12:19:23 PM         98.49
```

SpectraView Block Data



```
  26    5     7          60.00          473772-21        139.10       141    192.15    350.90                  2.26   25:52:14     3
10/13/2011    1:21:17 PM               98.66
```

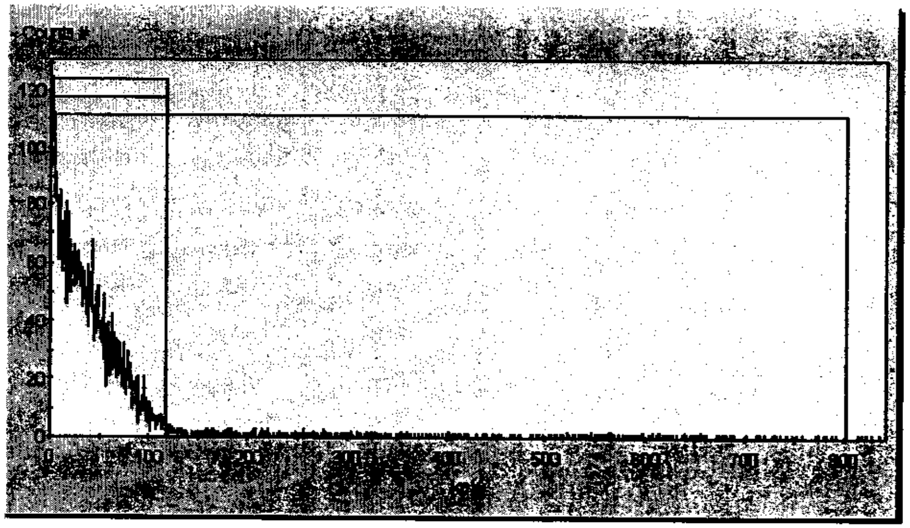
SpectraView Block Data



```
  27    5     7          60.00          473772D-21       138.05       140    187.76    340.59                  2.27   26:54:02     3
10/13/2011    2:23:02 PM               98.45
```

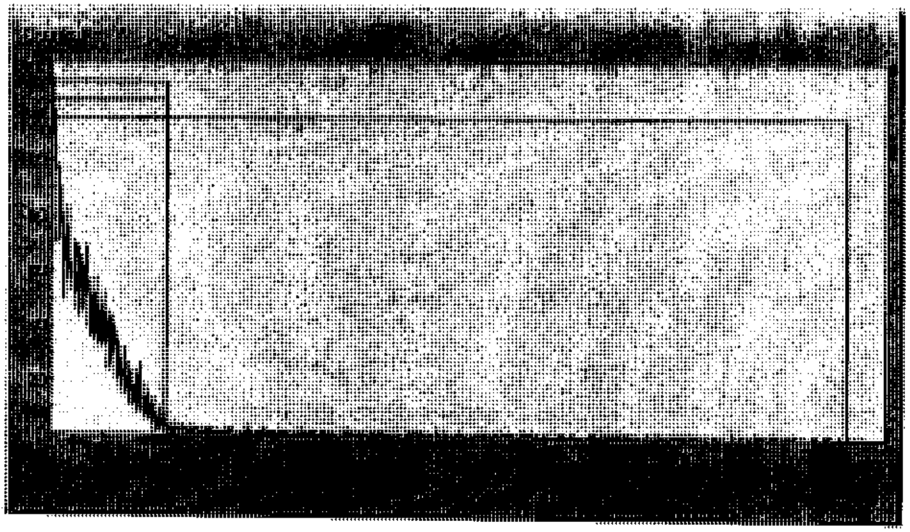
SpectraView Block Data

010136



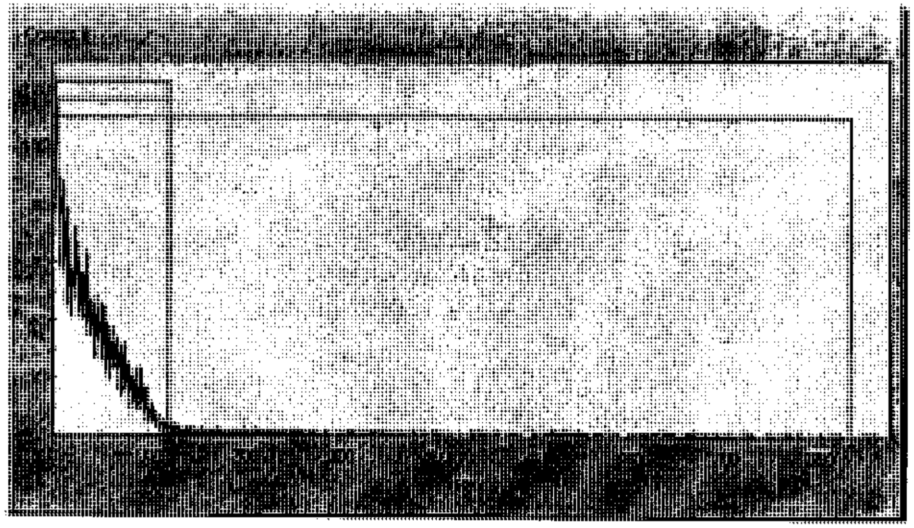
```
  28    5     7          60.00          473778-21        137.18       141    177.09    315.72                2.27   27:55:32     3
10/13/2011    3:24:48 PM               97.43
```

SpectraView Block Data



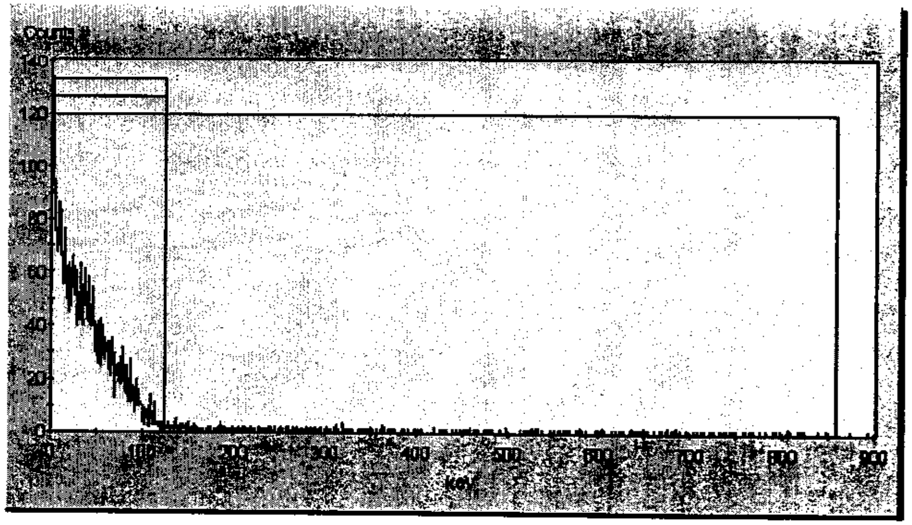
```
  29    5     7         60.00         473778D-21       133.17      135    191.86    357.03              2.31   28:57:18     3
10/13/2011    4:26:18 PM               98.79
```

SpectraView Block Data



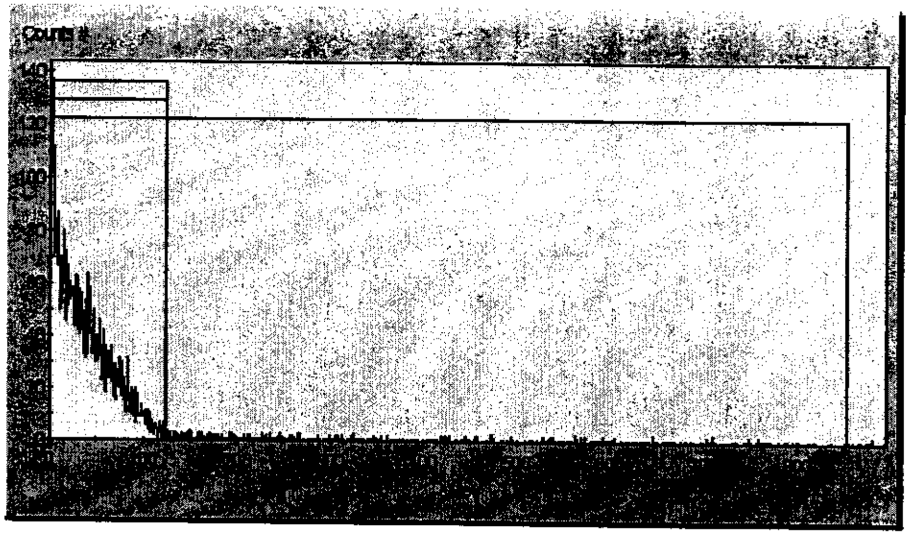
```
  30    5     7         60.00         473045-21        136.65      138    190.59    371.31              2.28   29:59:00     3
10/13/2011    5:28:06 PM               98.98
```

SpectraView Block Data

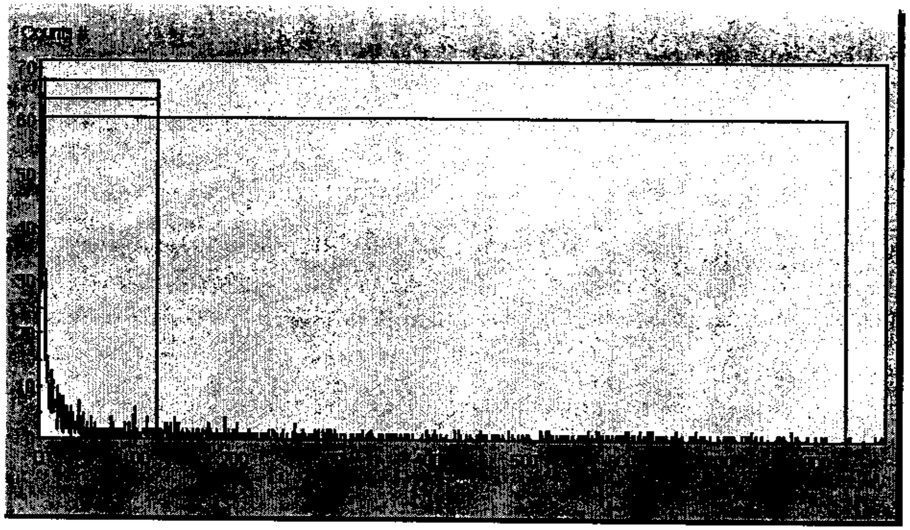


```
  31    5     7          60.00          473045D-21         132.60       134    204.60    368.23                  2.32  31:00:41     3
10/13/2011    6:29:47 PM                 98.99
```

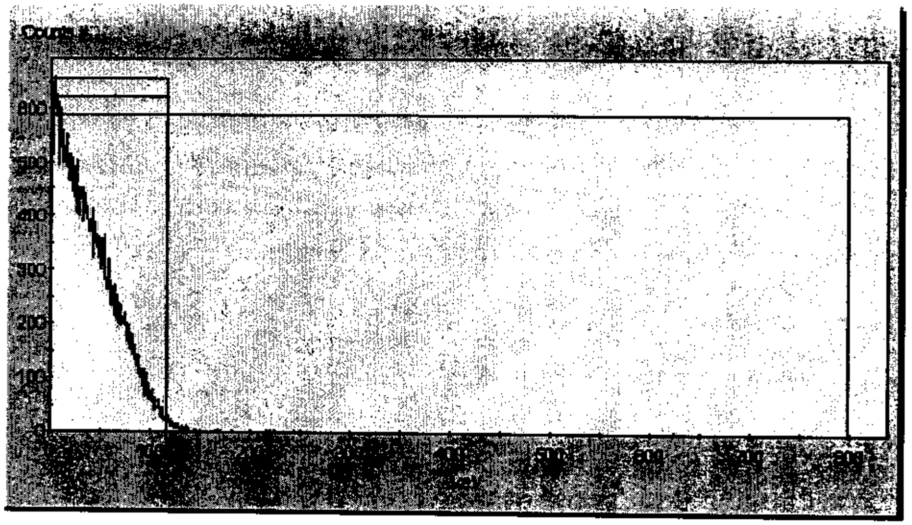
SpectraView Block Data



```
  32    5     7          60.00        PBWK11JV2       14.24       14    442.50    355.45              8.77   32:02:11    17
10/13/2011    7:31:28 PM              98.76

SpectraView Block Data
```

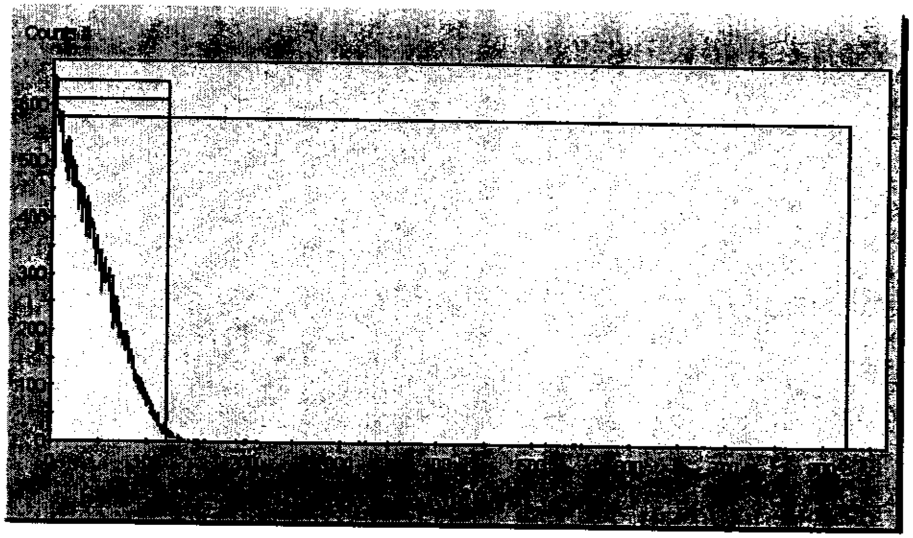


```
  33    5     7          60.00        LCSWK11JV3    1105.28     1124    134.23    337.94              0.78   33:03:46     0
10/13/2011    8:32:58 PM               98.36

SpectraView Block Data
```



```
  34    5     7        60.00        LCSWK11JV4      1112.94     1127    137.10    353.16                  0.78  34:05:26    0
10/13/2011    9:34:33 PM               98.71
```

SpectraView Block Data



Tc99
Prep Logs

010143

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D._11-0406-033 BOOK / PAGE:_12 00190

CLIENT(S): FLUOR B&W PORTSMOUTH (DAY #7, TC KD)
TASK ORDER(S): 110815-10, 110915-9 SDG(S): 473754
PROJECT NO(S): 16526.05.006
METHOD: TC99
TAP: 01.0411.049 REV. #4
MATRIX: Water ✓ Soil ✓ Biota ___ Solid ___ Liquid ___ TCLP Ext ___ OTHER (KD EXTRACT)
INSTRUMENT: Gamma ___ Alpha ___ LSC ✓ GPC ___ ICP/MS ___ OTHER ___
ACID INORG #: HNO_3# ✓9313 HCl# ___ H_2SO_4# ___ $HClO_4$# ___ HF# ___ H_2O_2# ✓9093
Tracer(s): NA * SPIKED W/0.5 mL TC 99, 038 RAD SOL 3
Oven/[✓ Hotplate]/ Block ID: ✓ #6 Temperature (°C): 150°C

	SAMPLE ID	ALIQUOT	FV. 1M HNO3		SAMPLE ID (CONT)	ALIQUOT	FV 1M HNO3
1	PBWJ30JV1	100mL	50mL	㉘	473045	100 mL	50mL
2	LCSWJ30JV1*	↓	↓	㉙	045DUP	↓	↓
3	LCSWJ30JV2*			㉚	PBWJ30JV2		
4	BLANK DAY #0			㉛	LCSWJ30JV3*		
5	BLANK DAY #7			㉜	LCSWJ30JV4*		
6	473754	(DAY #7)			PIPETTES: 5000 - 2		
7	54 DUP				1000 - 1		
8	55				200 - 1		
9	55 DUP						
10	56						
11	56 DUP						
12	57						
13	57 DUP						
14	58						
15	58 DUP						
16	68						
17	68 DUP						
18	69						
19	69 DUP						
20	70						
21	70 DUP						
22	71						
23	71 DUP						
24	72						
25	72 DUP						
26	78						
27	78 DUP						

09/30/11

PREPARED BY: ___ DATE: 09/30/11
REVIEWED BY: ___ DATE: 10/4/11
LOCATION: ___ C-765 DISPOSAL: ___

FRM-018 (Rev 1/May 10)

010144

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D. 11-0406-033

BOOK / PAGE: 12 00192

CLIENT(S): FLUOR B&W PORTSMOUTH (DAY #10 TC, KD)
TASK ORDER(S): 110865-10, 110915-9 SDG(S): 473754, 473845
PROJECT NO(S): 16526.05.006
METHOD: TC 99
TAP: 01.0411.049 REV. #4
MATRIX: Water ✓ Soil ✓ Biota ___ Solid ___ Liquid ___ TCLP Ext ___ OTHER "KD EXTRACT"
INSTRUMENT: Gamma ___ Alpha ___ LSC ✓ GPC ___ ICP/MS ___ OTHER ___
ACID INORG #: HNO_3# ✓9313 HCl# ___ ✓ H_2SO_4# ___ $HClO_4$# ___ HF# ___ H_2O_2# ✓9093
Tracer(s): NA * 0.5mL SPIKED Tc 99 038 RAD SOL 3
Oven/[✓ Hotplate]/Block ID: #6 Temperature (°C): 150°C

	SAMPLE ID	ALIQUOT	F.V. 1M HNO3		SAMPLE ID	ALIQUOT	F.V. 1M HNO3
1	PBWK03JV1	100mL	50mL	㉗	473845 (DAY #10)	100mL	50mL
2	LCSWK03JV1*	↓	↓	㉘	↓ 045DUP	↓	↓
3	LCSWK03JV2*			㉙	PBWK03JV2		
4	BLANK DAY 10			㉚	LCSWK03JV3*		
5	473754 (DAY #10)			㉛	LCSWK03JV4*	↓	↓
6	54 DUP						
7	55						
8	55 DUP						
9	56						
10	56 DUP						
11	57						
12	57 DUP						
13	58						
14	58 DUP						
15	68						
16	68 DUP						
17	69						
18	69 DUP						
19	70						
20	70 DUP						
21	71						
22	71 DUP						
23	72						
24	72 DUP						
25	78						
26	78 DUP	↓	↓				

PIPETTES: 5000 - A
1000 - 2
200 - 2

N/A 10/3/11
10/04/11

PREPARED BY: DATE: 10/03/11
REVIEWED BY: DATE: 10.4.11
LOCATION: DISPOSAL:

010145

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D._11-0406-033_________ BOOK / PAGE:__12 00193__

CLIENT(S): FLUOR B&W PORTSMOUTH (DAY # 14 TC, KI)
TASK ORDER(S): 110825.10, 110915.9 SDG(S): 473754, 473045
PROJECT NO(S): 16526.05.006
METHOD: TC 99
TAP: 01-0411-049 REV. # 4
MATRIX: Water ✓ Soil ✓ Biota___ Solid___ Liquid___ TCLP Ext___ OTHER (KI EXTRACT)
INSTRUMENT: Gamma___ Alpha___ LSC ✓ GPC___ ICP/MS________ OTHER________
ACID INORG #: HNO$_3$# 9313 HCl#______ H$_2$SO$_4$#______ HClO$_4$#______ HF#______ H$_2$O$_2$# 9093
Tracer(s): N/A * SPIKED W/ 0.5 mL TC 99 038 RAD SOL 3
Oven/[✓ Hotplate]/Block ID: #6 Temperature (°C): 150° C

	SAMPLE ID	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	PBWK04 JV1	100mL	50mL	(27)	473045 DUP	100mL	50mL
2	LCSWK04 JV1 *			(28)	045D	(KI)	
3	LCSWK04 JV2 *			(29)	~~PBWK05 JV1~~	(04)	
4	BLANK DAY 14			LCSWK04 JV3 (30)	~~LCSWK04 JV3~~ *	JW	
5	473754 (DAY #14)			(31)	LCSWK04 JV4 *	10/04/11	
6	473754 Dup.			JW 10/04/11			JW 10/04/11
7	55				PIPETTES:	5000- M	
8	55 Dup.					1000- L	
9	56					200- K	
10	56 Dup.						
11	57						
12	57 Dup.						
13	58						
14	58 Dup.						
15	68						
16	68 Dup.						
17	69						
18	69 Dup.						
19	70						
20	70 Dup.						
21	71						
22	71 Dup.						
23	72						
24	72 Dup.						
25	78						
26	78 Dup						

JW 09/30/11
10/04/11 JW

PREPARED BY: JW DATE: 10/04/11
REVIEWED BY: [illegible] DATE: 10.4.11
LOCATION: ______ DISPOSAL: ______

010146

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D._11-0406-033_________ BOOK / PAGE:__12 00217___

CLIENT(S): FLUOR B&W PORTSMOUTH (DAY #21)
TASK ORDER(S): 110825-10, 110915-9 SDG(S): 473754, 473045
PROJECT NO(S): 16526.05.006
METHOD: Tc99
TAP: 01-0411-049 REV. #4
MATRIX: Water___Soil___Biota___Solid___Liquid___TCLP Ext___OTHER ✓ (KD EXTRACT)
INSTRUMENT: Gamma___Alpha___LSC ✓ GPC___ICP/MS_________OTHER
ACID INORG #: HNO_3# ✓9313 HCl#_______ H_2SO_4#_______ $HClO_4$#_______ HF#_______ H_2O_2# ✓909
Tracer(s): N/A * SPIKED W/ 0.5mL Tc 99 238 RAD SOL 3
Oven/Hotplate/ Block ID: #6 Temperature (°C): 150°C

	SAMPLE ID	ALIQUOT	[illegible]	[illegible]	SAMPLE ID	ALIQUOT	[illegible]
1	PBWK11JV1	100mL	50mL	(DAY21) ㉗	473045	100mL	50mL
2	LCSWK11JV1*			㉘	473045Dup.		
3	LCSWK11JV2 *			㉙	PBWK11JV2		
4	BLANK DAY #21			㉚	LCSWK11JV3*		
5	473754 (DAY#21)			㉛	LCSWK11JV4*		
6	54 Dup.						
7	55						
8	55 Dup.			PIPETTES: 5000-2, 1000-1, 200-2			
9	56						
10	56 Dup.						
11	57						
12	57 Dup.						
13	58						
14	58 Dup.						
15	68						
16	68 Dup.						
17	69						
18	69 Dup.						
19	70						
20	70 Dup.						
21	71						
22	71 Dup.						
23	72						
24	72 Dup.						
25	78						
26	78 Dup.						

JJW 10/11/11

PREPARED BY: JJW DATE: 10/11/11
REVIEWED BY:_____________ DATE: 10.12.11
LOCATION:_____________ DISPOSAL:_____________

010147

ICPMS Total U Data for Distribution Coefficient

10-13-11

10/13/11

473754 d7
For tot U

23416 ng/L × dF4 = 93664 ng/L

= 93700 ng/L

Fluor
to#110825-10, 110915-9
16526.05.006
pg 15 00132 - 15 00140

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	% Recovery	TV	[illegible]	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
icv	U-tot	7760			ng/L	40		101.2%	7670		40	7759.39784	7760	1	40	7759.39784	09/29/11	10:14 AM
icv	U233 IS	96.7			%R	0.5					0.5	96.67437	96.7	1	0.5	96.67437	09/29/11	10:14 AM
icb	U-tot	40.0	U		ng/L	40					40	3.69925	3.7	1	40	3.69925	09/29/11	10:16 AM
icb	U233 IS	97.8			%R	0.5					0.5	97.81156	97.8	1	0.5	97.81156	09/29/11	10:16 AM
critotU	U-tot	42.9			ng/L	40		107.3%	40.0		40	42.86335	42.9	1	40	42.86335	09/29/11	10:18 AM
critotU	U233 IS	96.2			%R	0.5					0.5	96.21157	96.2	1	0.5	96.21157	09/29/11	10:18 AM
icsa	U-tot	40.0	U	#DIV/0!	ng/L	40		#DIV/0!	0		40	36.63485	36.6	1	40	36.63485	09/29/11	10:21 AM
icsa	U233 IS	70.0			%R	0.5					0.5	69.97697	70	1	0.5	69.97897	09/29/11	10:21 AM
icsab	U-tot	21200			ng/L	40		103.9%	20400		40	21240.39408	21200	1	40	21240.39408	09/29/11	10:23 AM
icsab	U233 IS	72.1			%R	0.5					0.5	72.09436	72.1	1	0.5	72.09436	09/29/11	10:23 AM
zzz	U-tot	40.0	U		ng/L	40					40	13.09903	13.1	1	40	13.09903	09/29/11	10:25 AM
zzz	U233 IS	101			%R	0.5					0.5	101.20332	101	1	0.5	101.20332	09/29/11	10:25 AM
ccv	U-tot	7890			ng/L	40		102.9%	7670		40	7886.37483	7890	1	40	7886.37483	09/29/11	10:28 AM
ccv	U233 IS	98.4			%R	0.5					0.5	98.44627	98.4	1	0.5	98.44627	09/29/11	10:28 AM
ccb	U-tot	40.0	U		ng/L	40					40	3.62652	3.63	1	40	3.62652	09/29/11	10:30 AM
ccb	U233 IS	103			%R	0.5					0.5	103.29924	103	1	0.5	103.29924	09/29/11	10:30 AM
Blankd0	U-tot	103000			ng/L	160				6936	40	102745.529	103000	4	160	25686.38225	09/29/11	10:35 AM
Blankd0	U233 IS	96.0			%R	0.5					0.5	95.99999	96	4	0.5	95.99999	09/29/11	10:35 AM
Blankd7	U-tot	98900			ng/L	160				6675	40	98882.14972	98900	4	160	24720.53743	09/29/11	10:37 AM
Blankd7	U233 IS	94.5			%R	0.5					0.5	94.52564	94.5	4	0.5	94.52564	09/29/11	10:37 AM
473754d7	U-tot	93700 ✓			ng/L	160				6323	40	93664.38048	93700	4	160	23416.09512	09/29/11	10:40 AM
473754d7	U233 IS	90.0			%R	0.5					0.5	89.96379	90	4	0.5	89.96379	09/29/11	10:40 AM
473754d7L	U-tot	94100			ng/L	800	-0.4%			6366	40	94130.267	94100	20	800	4706.51335	09/29/11	10:42 AM
473754d7L	U233 IS	95.0			%R	0.5					0.5	94.97521	95	20	0.5	94.97521	09/29/11	10:42 AM
473754d7D	U-tot	79600			ng/L	160	16.3%			5373	40	79593.31436	79600	4	160	19898.32859	09/29/11	10:44 AM
473754d7D	U233 IS	91.5			%R	0.5					0.5	91.52406	91.5	4	0.5	91.52406	09/29/11	10:44 AM
473754d7AS	U-tot	177000			ng/L	160		101.8%	81800	11937	40	176846.0235	177000	4	160	44211.50588	09/29/11	10:47 AM
473754d7AS	U233 IS	87.9			%R	0.5					0.5	87.87463	87.9	4	0.5	87.87463	09/29/11	10:47 AM
zzz	U-tot	40.0	U		ng/L	40					40	13.05783	13.1	1	40	13.05783	09/29/11	10:49 AM
zzz	U233 IS	93.7			%R	0.5					0.5	93.68599	93.7	1	0.5	93.68599	09/29/11	10:49 AM
473755d7	U-tot	71300			ng/L	160				4811	40	71270.66208	71300	4	160	17817.66552	09/29/11	10:51 AM
473755d7	U233 IS	93.2			%R	0.5					0.5	93.24301	93.2	2	0.5	93.24301	09/29/11	10:51 AM
zzz	U-tot	40.0	U		ng/L	40					40	11.53663	11.5	1	40	11.53663	09/29/11	10:54 AM
zzz	U233 IS	95.3			%R	0.5					0.5	95.30579	95.3	1	0.5	95.30579	09/29/11	10:54 AM
critotU	U-tot	44.6			ng/L	40		111.5%	40.0		40	44.6322	44.6	1	40	44.6322	09/29/11	10:56 AM
critotU	U233 IS	94.1			%R	0.5					0.5	94.05622	94.1	1	0.5	94.05622	09/29/11	10:56 AM
ccv	U-tot	7760			ng/L	40		101.2%	7670		40	7757.38607	7760	1	40	7757.38607	09/29/11	10:58 AM
ccv	U233 IS	93.7			%R	0.5					0.5	93.72565	93.7	1	0.5	93.72565	09/29/11	10:58 AM
ccb	U-tot	40.0	U		ng/L	40					40	5.19614	5.2	1	40	5.19614	09/29/11	11:00 AM
ccb	U233 IS	97.4			%R	0.5					0.5	97.36196	97.4	1	0.5	97.36196	09/29/11	11:00 AM
473755d7D	U-tot	71500			ng/L	160	0.3%			4826	40	71483.48728	71500	4	160	17870.87182	09/29/11	11:07 AM
473755d7D	U233 IS	91.2			%R	0.5					0.5	91.15382	91.2	2	0.5	91.15382	09/29/11	11:07 AM
473756d7	U-tot	45600			ng/L	80				3081	40	45638.2625	45600	2	80	22819.13125	09/29/11	11:10 AM
473756d7	U233 IS	88.3			%R	0.5					0.5	88.25148	88.3	2	0.5	88.25148	09/29/11	11:10 AM
473756d7D	U-tot	42900			ng/L	80	6.1%			2896	40	42905.50492	42900	2	80	21452.75246	09/29/11	11:12 AM

Note: Day 10 is actually Day 9 – See prepbg 15 00032 for details.

Y:\METALS\JACKIE\Final Spreadsheets\fluor110825(10)_110915(9)

Fluor
to#110825-10, 110915-9
16526.05.006
pg 15 00132 - 15 00140

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	% Recovery	TV	uncorr	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
473756d7D	U233 IS	87.7			%R	0.5					0.5	87.67629	87.7	2	0.5	87.67629	09/29/11	11:12 AM
473757d7	U-tot	69100			ng/L	160				4666	40	69109.23004	69100	4	160	17277.30751	09/29/11	11:14 AM
473757d7	U233 IS	88.9			%R	0.5					0.5	88.93243	88.9	4	0.5	88.93243	09/29/11	11:14 AM
473757d7D	U-tot	96200		*	ng/L	160	32.8%			6495	40	96210.03888	96200	4	160	24052.50972	09/29/11	11:17 AM
473757d7D	U233 IS	90.9			%R	0.5					0.5	90.88937	90.9	4	0.5	90.88937	09/29/11	11:17 AM
473758d7	U-tot	24600			ng/L	40				1659	40	24575.38182	24600	1	40	24575.38182	09/29/11	11:19 AM
473758d7	U233 IS	83.3			%R	0.5					0.5	83.25345	83.3	1	0.5	83.25345	09/29/11	11:19 AM
473758d7D	U-tot	24100			ng/L	40	2.1%			1624	40	24064.22462	24100	1	40	24064.22462	09/29/11	11:21 AM
473758d7D	U233 IS	81.6			%R	0.5					0.5	81.57426	81.6	1	0.5	81.57426	09/29/11	11:21 AM
473768d7	U-tot	82100			ng/L	160				5544	40	82129.67248	82100	4	160	20532.41812	09/29/11	11:24 AM
473768d7	U233 IS	88.6			%R	0.5					0.5	86.64153	88.6	4	0.5	88.64153	09/29/11	11:24 AM
zzz	U-tot										40	595.85286	596	1	40	595.85286	09/29/11	11:26 AM
zzz	U233 IS										0.5	1.40751	1.41	1	0.5	1.40751	09/29/11	11:26 AM
critotU	U-tot	48.4			ng/L	40		121.0%	40.0		40	48.42569	48.4	1	40	48.42569	09/29/11	11:29 AM
critotU	U233 IS	90.7			%R	0.5					0.5	90.70425	90.7	1	0.5	90.70425	09/29/11	11:29 AM
ccv	U-tot	7720			ng/L	40		100.7%	7670		40	7720.34805	7720	1	40	7720.34805	09/29/11	11:31 AM
ccv	U233 IS	91.9			%R	0.5					0.5	91.89429	91.9	1	0.5	91.89429	09/29/11	11:31 AM
ccb	U-tot	40.0	U		ng/L	40					40	7.86153	7.86	1	40	7.86153	09/29/11	11:33 AM
ccb	U233 IS	93.1			%R	0.5					0.5	93.07773	93.1	1	0.5	93.07773	09/29/11	11:33 AM
473768d7D	U-tot	85600			ng/L	160	4.2%			5779	40	85607.03204	85600	4	160	21401.75801	09/29/11	11:36 AM
473768d7D	U233 IS	88.5			%R	0.5					0.5	88.52914	88.5	4	0.5	88.52914	09/29/11	11:36 AM
473769d7	U-tot	68900			ng/L	160				4653	40	68924.55828	68900	4	160	17231.13957	09/29/11	11:38 AM
473769d7	U233 IS	88.1			%R	0.5					0.5	88.05313	88.1	4	0.5	88.05313	09/29/11	11:38 AM
473769d7D	U-tot	74500			ng/L	160	7.8%			5027	40	74465.16352	74500	4	160	18618.29088	09/29/11	11:40 AM
473769d7D	U233 IS	88.6			%R	0.5					0.5	88.59525	88.6	4	0.5	88.59525	09/29/11	11:40 AM
473770d7	U-tot	80500			ng/L	160				5438	40	80548.21548	80500	4	160	20137.05387	09/29/11	11:42 AM
473770d7	U233 IS	89.4			%R	0.5					0.5	89.35555	89.4	4	0.5	89.35555	09/29/11	11:42 AM
473770d7D	U-tot	81800			ng/L	160	1.6%			5520	40	81768.37464	81800	4	160	20442.09366	09/29/11	11:45 AM
473770d7D	U233 IS	88.2			%R	0.5					0.5	88.22502	88.2	4	0.5	88.22502	09/29/11	11:45 AM
473771d7	U-tot	88500			ng/L	160				5973	40	88479.78748	88500	4	160	22119.94687	09/29/11	11:47 AM
473771d7	U233 IS	88.4			%R	0.5					0.5	88.35725	88.4	4	0.5	88.35725	09/29/11	11:47 AM
473771d7D	U-tot	89300			ng/L	160	0.9%			6028	40	89298.34776	89300	4	160	22324.58694	09/29/11	11:49 AM
473771d7D	U233 IS	89.7			%R	0.5					0.5	89.68611	89.7	4	0.5	89.68611	09/29/11	11:49 AM
473772d7	U-tot	81400			ng/L	160				5492	40	81351.28492	81400	4	160	20337.82123	09/29/11	11:52 AM
473772d7	U233 IS	88.6			%R	0.5					0.5	88.57542	88.6	4	0.5	88.57542	09/29/11	11:52 AM
zzz	U-tot	40.0	U		ng/L	40					40	-0.74243	-0.742	1	40	-0.74243	09/29/11	11:54 AM
zzz	U233 IS	87.3			%R	0.5					0.5	87.25979	87.3	1	0.5	87.25979	09/29/11	11:54 AM
critotU	U-tot	45.9			ng/L	40		114.8%	40.0		40	45.89886	45.9	1	40	45.89886	09/29/11	11:56 AM
critotU	U233 IS	92.0			%R	0.5					0.5	91.98685	92	1	0.5	91.98685	09/29/11	11:56 AM
ccv	U-tot	7720			ng/L	40		100.7%	7670		40	7720.69748	7720	1	40	7720.69748	09/29/11	11:59 AM
ccv	U233 IS	91.0			%R	0.5					0.5	90.99515	91	1	0.5	90.99515	09/29/11	11:59 AM
ccb	U-tot	40.0	U		ng/L	40					40	1.7975	1.8	1	40	1.7975	09/29/11	12:01 PM
ccb	U233 IS	87.7			%R	0.5					0.5	87.70936	87.7	1	0.5	87.70936	09/29/11	12:01 PM
473772d7D	U-tot	83300			ng/L	160	2.3%			5625	40	83326.59444	83300	4	160	20831.64861	09/29/11	12:12 PM
473772d7D	U233 IS	86.4			%R	0.5					0.5	86.40033	86.4	4	0.5	86.40033	09/29/11	12:12 PM

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Fluor
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Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	% Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
473778d7	U-tot	72200			ng/L	160				4873	40	72185.99928	72200	4	160	18046.49982	09/29/11	12:15 PM
473778d7	U233 IS	87.6			%R	0.5					0.5	87.58373	87.6	4	0.5	87.58373	09/29/11	12:15 PM
473778d7D	U-tot	78300			ng/L	160	8.1%			5283	40	78263.71004	78300	4	160	19565.92751	09/29/11	12:17 PM
473778d7D	U233 IS	87.3			%R	0.5					0.5	87.30607	87.3	4	0.5	87.30607	09/29/11	12:17 PM
473045d7	U-tot	94300			ng/L	160				6363	40	94263.95852	94300	4	160	23565.98963	09/29/11	12:19 PM
473045d7	U233 IS	87.0			%R	0.5					0.5	86.95567	87	4	0.5	86.95567	09/29/11	12:19 PM
473045d7D	U-tot	93000			ng/L	160	1.4%			6281	40	93040.70848	93000	4	160	23260.17712	09/29/11	12:22 PM
473045d7D	U233 IS	85.8			%R	0.5					0.5	85.83178	85.8	4	0.5	85.83178	09/29/11	12:22 PM
Blankd10	U-tot	104000			ng/L	160				7034	40	104193.6076	104000	4	160	26048.4019	09/29/11	12:24 PM
Blankd10	U233 IS	86.8			%R	0.5					0.5	86.81684	86.8	4	0.5	86.81684	09/29/11	12:24 PM
473754d10	U-tot	92300			ng/L	160				6229	40	92269.8866	92300	4	160	23067.47165	09/29/11	12:26 PM
473754d10	U233 IS	80.8			%R	0.5					0.5	80.76772	80.8	4	0.5	80.76772	09/29/11	12:26 PM
473754d10L	U-tot	93100			ng/L	800	-0.9%			6294	40	93051.0944	93100	20	800	4652.55472	09/29/11	12:29 PM
473754d10L	U233 IS	84.7			%R	0.5					0.5	84.655	84.7	20	0.5	84.655	09/29/11	12:29 PM
zzz	U-tot	40.0	U		ng/L	40					40	-0.49033	-0.49	1	40	-0.49033	09/29/11	12:31 PM
zzz	U233 IS	86.1			%R	0.5					0.5	86.07639	86.1	1	0.5	86.07639	09/29/11	12:31 PM
critotU	U-tot	46.3			ng/L	40		115.8%	40.0		40	46.34068	46.3	1	40	46.34068	09/29/11	12:33 PM
critotU	U233 IS	88.6			%R	0.5					0.5	88.59525	88.6	1	0.5	88.59525	09/29/11	12:33 PM
ccv	U-tot	7830			ng/L	40		102.1%	7670		40	7828.34021	7830	1	40	7828.34021	09/29/11	12:36 PM
ccv	U233 IS	86.8			%R	0.5					0.5	86.76395	86.8	1	0.5	86.76395	09/29/11	12:36 PM
ccb	U-tot	40.0	U		ng/L	40					40	-2.4769	-2.48	1	40	-2.4769	09/29/11	12:38 PM
ccb	U233 IS	85.6			%R	0.5					0.5	85.61362	85.6	1	0.5	85.61362	09/29/11	12:38 PM
473754d10D	U-tot	86900			ng/L	160	6.0%			5868	40	86921.43496	86900	4	160	21730.35874	09/29/11	12:40 PM
473754d10D	U233 IS	76.4			%R	0.5					0.5	76.4376	76.4	4	0.5	76.4376	09/29/11	12:40 PM
473754d10AS	U-tot	177000			ng/L	160		103.5%	81800	11952	40	177066.5446	177000	4	160	44266.63614	09/29/11	12:43 PM
473754d10AS	U233 IS	76.9			%R	0.5					0.5	76.90697	76.9	4	0.5	76.90697	09/29/11	12:43 PM
zzz	U-tot	40.0	U		ng/L	40					40	1.44955	1.45	1	40	1.44955	09/29/11	12:45 PM
zzz	U233 IS	84.2			%R	0.5					0.5	84.179	84.2	1	0.5	84.179	09/29/11	12:45 PM
473755d10	U-tot	78300			ng/L	160				5286	40	78304.95856	78300	4	160	19576.23964	09/29/11	12:47 PM
473755d10	U233 IS	83.3			%R	0.5					0.5	83.30634	83.3	4	0.5	83.30634	09/29/11	12:47 PM
473755d10D	U-tot	74600			ng/L	160	4.8%			5037	40	74606.41064	74600	4	160	18651.60266	09/29/11	12:50 PM
473755d10D	U233 IS	86.2			%R	0.5					0.5	86.19541	86.2	4	0.5	86.19541	09/29/11	12:50 PM
473756d10	U-tot	40100			ng/L	80				2704	40	40057.8875	40100	2	80	20028.94375	09/29/11	12:52 PM
473756d10	U233 IS	83.4			%R	0.5					0.5	83.41874	83.4	2	0.5	83.41874	09/29/11	12:52 PM
473756d10D	U-tot	44900			ng/L	80	11.3%			3028	40	44855.51428	44900	2	80	22427.75714	09/29/11	12:54 PM
473756d10D	U233 IS	83.1			%R	0.5					0.5	83.08817	83.1	2	0.5	83.08817	09/29/11	12:54 PM
473757d10	U-tot	69400			ng/L	160				4687	40	69423.37652	69400	4	160	17355.84413	09/29/11	12:56 PM
473757d10	U233 IS	82.9			%R	0.5					0.5	82.87663	82.9	4	0.5	82.87663	09/29/11	12:56 PM
zzz	U-tot	40.0	U		ng/L	40					40	2.17368	2.17	1	40	2.17368	09/29/11	12:59 PM
zzz	U233 IS	84.8			%R	0.5					0.5	84.84672	84.8	1	0.5	84.84672	09/29/11	12:59 PM
critotU	U-tot	43.6			ng/L	40		109.0%	40.0		40	43.6226	43.6	1	40	43.6226	09/29/11	1:01 PM
critotU	U233 IS	90.0			%R	0.5					0.5	89.99023	90	1	0.5	89.99023	09/29/11	1:01 PM
ccv	U-tot	7980			ng/L	40		104.0%	7670		40	7975.90452	7980	1	40	7975.90452	09/29/11	1:03 PM
ccv	U233 IS	86.5			%R	0.5					0.5	86.47306	86.5	1	0.5	86.47306	09/29/11	1:03 PM
ccb	U-tot	40.0	U		ng/L	40					40	-0.65229	-0.652	1	40	-0.65229	09/29/11	1:06 PM

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Fluor
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Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
ccb	U233 IS	84.4			%R	0.5					0.5	84.44344	84.4	1	0.5	84.44344	09/29/11	1:06 PM
473757d10D	U-tot	61100			ng/L	160	12.7%			4126	40	61108.03476	61100	4	160	15277.00869	09/29/11	1:08 PM
473757d10D	U233 IS	84.7			%R	0.5					0.5	84.68144	84.7	4	0.5	84.68144	09/29/11	1:08 PM
473758d10	U-tot	23300			ng/L	40				1572	40	23288.13346	23300	1	40	23288.13346	09/29/11	1:10 PM
473758d10	U233 IS	77.4			%R	0.5					0.5	77.3565	77.4	1	0.5	77.3565	09/29/11	1:10 PM
473758d10D	U-tot	20400			ng/L	40	13.3%			1379	40	20432.27826	20400	1	40	20432.27826	09/29/11	1:13 PM
473758d10D	U233 IS	75.5			%R	0.5					0.5	75.49226	75.5	1	0.5	75.49226	09/29/11	1:13 PM
473768d10	U-tot	85100			ng/L	160				5746	40	85114.42876	85100	4	160	21278.60719	09/29/11	1:15 PM
473768d10	U233 IS	83.9			%R	0.5					0.5	83.92117	83.9	4	0.5	83.92117	09/29/11	1:15 PM
473768d10D	U-tot	78700			ng/L	160	7.8%			5310	40	78652.61756	78700	4	160	19663.15439	09/29/11	1:17 PM
473768d10D	U233 IS	85.2			%R	0.5					0.5	85.17728	85.2	4	0.5	85.17728	09/29/11	1:17 PM
473769d10	U-tot	74000			ng/L	160				4997	40	74017.78296	74000	4	160	18504.44574	09/29/11	1:20 PM
473769d10	U233 IS	83.8			%R	0.5					0.5	83.81539	83.8	4	0.5	83.81539	09/29/11	1:20 PM
473769d10D	U-tot	73700			ng/L	160	0.4%			4976	40	73712.89968	73700	4	160	18428.22492	09/29/11	1:22 PM
473769d10D	U233 IS	83.9			%R	0.5					0.5	83.8815	83.9	4	0.5	83.8815	09/29/11	1:22 PM
473770d10	U-tot	82200			ng/L	160				5550	40	82215.3572	82200	4	160	20553.8393	09/29/11	1:25 PM
473770d10	U233 IS	85.4			%R	0.5					0.5	85.38883	85.4	4	0.5	85.38883	09/29/11	1:25 PM
zzz	U-tot	40.0	U		ng/L	40					40	-1.72093	-1.72	1	40	-1.72093	09/29/11	1:27 PM
zzz	U233 IS	84.9			%R	0.5					0.5	84.93267	84.9	1	0.5	84.93267	09/29/11	1:27 PM
critotU	U-tot	48.0			ng/L	40		120.0%	40.0		40	48.04778	48	1	40	48.04778	09/29/11	1:29 PM
critotU	U233 IS	88.2			%R	0.5					0.5	88.22502	88.2	1	0.5	88.22502	09/29/11	1:29 PM
ccv	U-tot	7790			ng/L	40		101.6%	7670		40	7794.35924	7790	1	40	7794.35924	09/29/11	1:32 PM
ccv	U233 IS	87.4			%R	0.5					0.5	87.37218	87.4	1	0.5	87.37218	09/29/11	1:32 PM
ccb	U-tot	40.0	U		ng/L	40					40	-3.99169	-3.99	1	40	-3.99169	09/29/11	1:34 PM
ccb	U233 IS	84.0			%R	0.5					0.5	83.96744	84	1	0.5	83.96744	09/29/11	1:34 PM
473770d10D	U-tot	83100			ng/L	160	1.1%			5613	40	83149.27556	83100	4	160	20787.31889	09/29/11	1:36 PM
473770d10D	U233 IS	85.6			%R	0.5					0.5	85.64005	85.6	4	0.5	85.64005	09/29/11	1:36 PM
473771d10	U-tot	87500			ng/L	160				5909	40	87535.34668	87500	4	160	21883.83667	09/29/11	1:39 PM
473771d10	U233 IS	84.8			%R	0.5					0.5	84.80044	84.8	4	0.5	84.80044	09/29/11	1:39 PM
473771d10D	U-tot	86200			ng/L	160	1.5%			5816	40	86155.46616	86200	4	160	21538.86654	09/29/11	1:41 PM
473771d10D	U233 IS	86.2			%R	0.5					0.5	86.16234	86.2	4	0.5	86.16234	09/29/11	1:41 PM
473772d10	U-tot	81400			ng/L	160				5496	40	81415.73092	81400	4	160	20353.93273	09/29/11	1:43 PM
473772d10	U233 IS	84.1			%R	0.5					0.5	84.06	84.1	4	0.5	84.06	09/29/11	1:43 PM
473772d10D	U-tot	83000			ng/L	160	1.9%			5603	40	82997.20296	83000	4	160	20749.30074	09/29/11	1:46 PM
473772d10D	U233 IS	83.9			%R	0.5					0.5	83.90794	83.9	4	0.5	83.90794	09/29/11	1:46 PM
473778d10	U-tot	69700			ng/L	160				4704	40	69677.28636	69700	4	160	17419.32159	09/29/11	1:48 PM
473778d10	U233 IS	84.4			%R	0.5					0.5	84.37734	84.4	4	0.5	84.37734	09/29/11	1:48 PM
473778d10D	U-tot	71500			ng/L	160	2.5%			4828	40	71509.86	71500	4	160	17877.465	09/29/11	1:50 PM
473778d10D	U233 IS	86.8			%R	0.5					0.5	86.76395	86.8	4	0.5	86.76395	09/29/11	1:50 PM
473045d10	U-tot	91300			ng/L	160				6164	40	91306.87252	91300	4	160	22826.71813	09/29/11	1:53 PM
473045d10	U233 IS	85.5			%R	0.5					0.5	85.50784	85.5	4	0.5	85.50784	09/29/11	1:53 PM
zzz	U-tot	40.0	U		ng/L	40					40	1.46174	1.46	1	40	1.46174	09/29/11	1:55 PM
zzz	U233 IS	84.2			%R	0.5					0.5	84.22528	84.2	1	0.5	84.22528	09/29/11	1:55 PM
critotU	U-tot	45.1			ng/L	40		112.8%	40.0		40	45.13738	45.1	1	40	45.13738	09/29/11	1:57 PM
critotU	U233 IS	87.5			%R	0.5					0.5	87.48457	87.5	1	0.5	87.48457	09/29/11	1:57 PM

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Sample ID	Element	Result	Qual (C)	Qual (O)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
ccv	U-tot	7870			ng/L	40		102.6%	7670		40	7869.18965	7870	1	40	7869.18965	09/29/11	2:00 PM
ccv	U233 IS	86.2			%R	0.5					0.5	86.16235	86.2	1	0.5	86.16235	09/29/11	2:00 PM
ccb	U-tot	40.0	U		ng/L	40					40	0.88349	0.883	1	40	0.88349	09/29/11	2:02 PM
ccb	U233 IS	85.3			%R	0.5					0.5	85.28966	85.3	1	0.5	85.28966	09/29/11	2:02 PM
473045d10D	U-tot	95800			ng/L	160	4.8%			6464	40	95753.57372	95800	4	160	23938.39343	09/29/11	2:04 PM
473045d10D	U233 IS	84.8			%R	0.5					0.5	84.84672	84.8	4	0.5	84.84672	09/29/11	2:04 PM
zzz	U-tot	40.0	U		ng/L	40					40	3.02443	3.02	1	40	3.02443	09/29/11	2:07 PM
zzz	U233 IS	88.1			%R	0.5					0.5	88.06635	88.1	1	0.5	88.06635	09/29/11	2:07 PM
critotU	U-tot	43.6			ng/L	40		109.0%	40.0		40	43.56895	43.6	1	40	43.56895	09/29/11	2:09 PM
critotU	U233 IS	90.2			%R	0.5					0.5	90.18196	90.2	1	0.5	90.18196	09/29/11	2:09 PM
ccv	U-tot	7830			ng/L	40		102.1%	7670		40	7830.777	7830	1	40	7830.777	09/29/11	2:11 PM
ccv	U233 IS	89.3			%R	0.5					0.5	89.32911	89.3	1	0.5	89.32911	09/29/11	2:11 PM
ccb	U-tot	40.0	U		ng/L	40					40	7.19884	7.2	1	40	7.19884	09/29/11	2:14 PM
ccb	U233 IS	90.3			%R	0.5					0.5	90.34063	90.3	1	0.5	90.34063	09/29/11	2:14 PM
icv	U-tot	8180			ng/L	40		106.6%	7670		40	8176.59727	8180	1	40	8176.59727	10/10/11	12:33 PM
icv	U233 IS	101			%R	0.5					0.5	101.10931	101	1	0.5	101.10931	10/10/11	12:33 PM
icb	U-tot	40.0	U		ng/L	40					40	1.21754	1.22	1	40	1.21754	10/10/11	12:35 PM
icb	U233 IS	97.6			%R	0.5					0.5	97.57971	97.6	1	0.5	97.57971	10/10/11	12:35 PM
critotU	U-tot	42.5			ng/L	40		106.3%	40.0		40	42.45106	42.5	1	40	42.45106	10/10/11	12:37 PM
critotU	U233 IS	101			%R	0.5					0.5	101.16361	101	1	0.5	101.16361	10/10/11	12:37 PM
icsa	U-tot	40.0	U	#DIV/0!	ng/L	40		#DIV/0!	0		40	28.22551	28.2	1	40	28.22551	10/10/11	12:40 PM
icsa	U233 IS	73.2			%R	0.5					0.5	73.21546	73.2	1	0.5	73.21546	10/10/11	12:40 PM
icsab	U-tot	20900			ng/L	40		102.5%	20400		40	20949.50055	20900	1	40	20949.50055	10/10/11	12:42 PM
icsab	U233 IS	72.9			%R	0.5					0.5	72.88194	72.9	1	0.5	72.88194	10/10/11	12:42 PM
zzz	U-tot	40.0	U		ng/L	40					40	0.22254	0.223	1	40	0.22254	10/10/11	12:44 PM
zzz	U233 IS	100			%R	0.5					0.5	99.95346	100	1	0.5	99.95346	10/10/11	12:44 PM
ccv	U-tot	8140			ng/L	40		106.1%	7670		40	8142.27868	8140	1	40	8142.27868	10/10/11	12:47 PM
ccv	U233 IS	100			%R	0.5					0.5	100.12412	100	1	0.5	100.12412	10/10/11	12:47 PM
ccb	U-tot	40.0	U		ng/L	40					40	0.33773	0.338	1	40	0.33773	10/10/11	12:49 PM
ccb	U233 IS	101			%R	0.5					0.5	100.9464	101	1	0.5	100.9464	10/10/11	12:49 PM
Blankd14	U-tot	102000			ng/L	160				6871	40	101788.7274	102000	4	160	25447.18184	10/10/11	12:51 PM
Blankd14	U233 IS	99.1			%R	0.5					0.5	99.09238	99.1	4	0.5	99.09238	10/10/11	12:51 PM
473754d14	U-tot	92000			ng/L	160				6213	40	92031.95048	92000	4	160	23007.98762	10/10/11	12:53 PM
473754d14	U233 IS	89.8			%R	0.5					0.5	89.82256	89.8	4	0.5	89.82256	10/10/11	12:53 PM
473754d14L	U-tot	89000			ng/L	800	3.3%			6021	40	89006.5414	89000	20	800	4450.32707	10/10/11	12:56 PM
473754d14L	U233 IS	97.1			%R	0.5					0.5	97.12978	97.1	20	0.5	97.12978	10/10/11	12:56 PM
473754d14D	U-tot	84700			ng/L	160	8.3%			5717	40	84694.56976	84700	4	160	21173.64244	10/10/11	12:58 PM
473754d14D	U233 IS	92.8			%R	0.5					0.5	92.8323	92.8	4	0.5	92.8323	10/10/11	12:58 PM
473754d14AS	U-tot	171000			ng/L	160		96.6%	81800	11512	40	170543.8178	171000	4	160	42635.95445	10/10/11	1:00 PM
473754d14AS	U233 IS	92.7			%R	0.5					0.5	92.74697	92.7	4	0.5	92.74697	10/10/11	1:00 PM
zzz	U-tot	40.0	U		ng/L	40					40	4.32817	4.33	1	40	4.32817	10/10/11	1:03 PM
zzz	U233 IS	99.0			%R	0.5					0.5	98.96051	99	1	0.5	98.96051	10/10/11	1:03 PM
473755d14	U-tot	72800			ng/L	80				4913	40	72783.69176	72800	2	80	36391.84588	10/10/11	1:05 PM
473755d14	U233 IS	91.3			%R	0.5					0.5	91.32742	91.3	2	0.5	91.32742	10/10/11	1:05 PM
473755d14D	U-tot	76200			ng/L	80	4.6%			5141	40	76166.74838	76200	2	80	38083.37419	10/10/11	1:07 PM

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Fluor
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Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	% Recovery	True	Unused	rf	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
473755d14D	U233 IS	91.4			%R	0.5					0.5	91.37397	91.4	2	0.5	91.37397	10/10/11	1:07 PM
zzz	U-tot	40.0	U		ng/L	40					40	4.85902	4.86	1	40	4.85902	10/10/11	1:10 PM
zzz	U233 IS	94.0			%R	0.5					0.5	93.95709	94	1	0.5	93.95709	10/10/11	1:10 PM
critotU	U-tot	43.4			ng/L	40		108.5%	40.0		40	43.41591	43.4	1	40	43.41591	10/10/11	1:12 PM
critotU	U233 IS	96.4			%R	0.5					0.5	96.4006	96.4	1	0.5	96.4006	10/10/11	1:12 PM
ccv	U-tot	8220			ng/L	40		107.2%	7670		40	8223.29223	8220	1	40	8223.29223	10/10/11	1:14 PM
ccv	U233 IS	93.9			%R	0.5					0.5	93.88727	93.9	1	0.5	93.88727	10/10/11	1:14 PM
ccb	U-tot	40.0	U		ng/L	40					40	1.1173	1.12	1	40	1.1173	10/10/11	1:16 PM
ccb	U233 IS	95.2			%R	0.5					0.5	95.21375	95.2	1	0.5	95.21375	10/10/11	1:16 PM
473756d14	U-tot	42600			ng/L	80				2876	40	42607.43552	42600	2	80	21303.71776	10/10/11	1:19 PM
473756d14	U233 IS	88.9			%R	0.5					0.5	88.94602	88.9	2	0.5	88.94602	10/10/11	1:19 PM
473756d14D	U-tot	43100			ng/L	80	1.2%			2913	40	43144.63094	43100	2	80	21572.31547	10/10/11	1:21 PM
473756d14D	U233 IS	88.9			%R	0.5					0.5	88.915	88.9	2	0.5	88.915	10/10/11	1:21 PM
473757d14	U-tot	41800			ng/L	160				2825	40	41831.952	41800	4	160	10457.988	10/10/11	1:23 PM
473757d14	U233 IS	90.7			%R	0.5					0.5	90.73791	90.7	4	0.5	90.73791	10/10/11	1:23 PM
473757d14D	U-tot	72600		*	ng/L	160	53.8%			4904	40	72638.46348	72600	4	160	18159.81587	10/10/11	1:26 PM
473757d14D	U233 IS	91.5			%R	0.5					0.5	91.53687	91.5	4	0.5	91.53687	10/10/11	1:26 PM
473758d14	U-tot	19800			ng/L	40				1338	40	19821.14016	19800	1	40	19821.14016	10/10/11	1:28 PM
473758d14	U233 IS	82.1			%R	0.5					0.5	82.05794	82.1	1	0.5	82.05794	10/10/11	1:28 PM
473758d14D	U-tot	20900			ng/L	40	5.4%			1410	40	20881.31564	20900	1	40	20881.31564	10/10/11	1:30 PM
473758d14D	U233 IS	82.5			%R	0.5					0.5	82.53886	82.5	1	0.5	82.53886	10/10/11	1:30 PM
473768d14	U-tot	85300			ng/L	160				5756	40	85270.29416	85300	4	160	21317.57354	10/10/11	1:33 PM
473768d14	U233 IS	89.5			%R	0.5					0.5	89.52781	89.5	4	0.5	89.52781	10/10/11	1:33 PM
473768d14D	U-tot	83100			ng/L	160	2.6%			5613	40	83145.15628	83100	4	160	20786.28907	10/10/11	1:35 PM
473768d14D	U233 IS	90.2			%R	0.5					0.5	90.21041	90.2	4	0.5	90.21041	10/10/11	1:35 PM
zzz	U-tot	40.0	U		ng/L	40					40	4.36274	4.36	1	40	4.36274	10/10/11	1:37 PM
zzz	U233 IS	88.9			%R	0.5					0.5	88.93826	88.9	1	0.5	88.93826	10/10/11	1:37 PM
critotU	U-tot	44.3			ng/L	40		110.8%	40.0		40	44.29347	44.3	1	40	44.29347	10/10/11	1:40 PM
critotU	U233 IS	90.0			%R	0.5					0.5	90.00873	90	1	0.5	90.00873	10/10/11	1:40 PM
ccv	U-tot	8100			ng/L	40		105.6%	7670		40	8098.54557	8100	1	40	8098.54557	10/10/11	1:42 PM
ccv	U233 IS	91.1			%R	0.5					0.5	91.06368	91.1	1	0.5	91.06368	10/10/11	1:42 PM
ccb	U-tot	40.0	U		ng/L	40					40	1.41302	1.41	1	40	1.41302	10/10/11	1:44 PM
ccb	U233 IS	89.4			%R	0.5					0.5	89.37266	89.4	1	0.5	89.37266	10/10/11	1:44 PM
473769d14	U-tot	74300			ng/L	160				5014	40	74274.31512	74300	4	160	18568.57878	10/10/11	1:47 PM
473769d14	U233 IS	86.9			%R	0.5					0.5	86.90594	86.9	4	0.5	86.90594	10/10/11	1:47 PM
473769d14D	U-tot	71300			ng/L	160	4.1%			4815	40	71320.99476	71300	4	160	17830.24869	10/10/11	1:49 PM
473769d14D	U233 IS	88.7			%R	0.5					0.5	88.6978	88.7	4	0.5	88.6978	10/10/11	1:49 PM
473770d14	U-tot	83100			ng/L	160				5611	40	83118.81564	83100	4	160	20779.70396	10/10/11	1:51 PM
473770d14	U233 IS	88.3			%R	0.5					0.5	88.30219	88.3	4	0.5	88.30219	10/10/11	1:51 PM
473770d14D	U-tot	82900			ng/L	160	0.2%			5595	40	82886.63924	82900	4	160	20721.65981	10/10/11	1:53 PM
473770d14D	U233 IS	87.2			%R	0.5					0.5	87.19295	87.2	4	0.5	87.19295	10/10/11	1:53 PM
473771d14	U-tot	89700			ng/L	160				6053	40	89670.54808	89700	4	160	22417.63702	10/10/11	1:56 PM
473771d14	U233 IS	86.3			%R	0.5					0.5	86.25437	86.3	4	0.5	86.25437	10/10/11	1:56 PM
473771d14D	U-tot	90700			ng/L	160	1.1%			6126	40	90744.21572	90700	4	160	22686.05393	10/10/11	1:58 PM
473771d14D	U233 IS	86.0			%R	0.5					0.5	86.03718	86	4	0.5	88.03718	10/10/11	1:58 PM

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Sample ID	Element	Result	Qual (C)	Qual (O)	Units	RL	%RPD	%Recovery	TV	uncorr	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
473772d14	U-tot	79900			ng/L	160				5393	40	79892.66892	79900	4	160	19973.16723	10/10/11	2:00 PM
473772d14	U233 IS	86.6			%R	0.5					0.5	86.6267	86.6	4	0.5	86.6267	10/10/11	2:00 PM
473772d14D	U-tot	79600			ng/L	160	0.4%			5375	40	79619.94104	79600	4	160	19904.98526	10/10/11	2:03 PM
473772d14D	U233 IS	85.5			%R	0.5					0.5	85.46317	85.5	4	0.5	85.46317	10/10/11	2:03 PM
zzz	U-tot	40.0	U		ng/L	40					40	4.33788	4.34	1	40	4.33788	10/10/11	2:05 PM
zzz	U233 IS	86.3			%R	0.5					0.5	86.26214	86.3	1	0.5	86.26214	10/10/11	2:05 PM
critotU	U-tot	43.4			ng/L	40		108.5%	40.0		40	43.37483	43.4	1	40	43.37483	10/10/11	2:07 PM
critotU	U233 IS	87.5			%R	0.5					0.5	87.49547	87.5	1	0.5	87.49547	10/10/11	2:07 PM
ccv	U-tot	8050			ng/L	40		105.0%	7670		40	8051.5856	8050	1	40	8051.5856	10/10/11	2:10 PM
ccv	U233 IS	86.6			%R	0.5					0.5	86.5724	86.6	1	0.5	86.5724	10/10/11	2:10 PM
ccb	U-tot	40.0	U		ng/L	40					40	1.77497	1.77	1	40	1.77497	10/10/11	2:12 PM
ccb	U233 IS	85.0			%R	0.5					0.5	85.02103	85	1	0.5	85.02103	10/10/11	2:12 PM
473778d14	U-tot	75400			ng/L	160				5088	40	75369.0248	75400	4	160	18842.2562	10/10/11	2:14 PM
473778d14	U233 IS	83.4			%R	0.5					0.5	83.41537	83.4	4	0.5	83.41537	10/10/11	2:14 PM
473778d14D	U-tot	75800			ng/L	160	0.5%			5118	40	75816.4212	75800	4	160	18954.1053	10/10/11	2:16 PM
473778d14D	U233 IS	85.6			%R	0.5					0.5	85.57176	85.6	4	0.5	85.57176	10/10/11	2:16 PM
473045d14	U-tot	91300			ng/L	160				6162	40	91278.87392	91300	4	160	22819.71848	10/10/11	2:19 PM
473045d14	U233 IS	84.6			%R	0.5					0.5	84.55562	84.6	4	0.5	84.55562	10/10/11	2:19 PM
473045d14D	U-tot	93300			ng/L	160	2.2%			6300	40	93332.49264	93300	4	160	23333.12316	10/10/11	2:21 PM
473045d14D	U233 IS	82.4			%R	0.5					0.5	82.44578	82.4	4	0.5	82.44578	10/10/11	2:21 PM
zzz	U-tot	40.0	U		ng/L	40					40	4.19157	4.19	1	40	4.19157	10/10/11	2:23 PM
zzz	U233 IS	86.0			%R	0.5					0.5	86.03719	86	1	0.5	86.03719	10/10/11	2:23 PM
critotU	U-tot	40.3			ng/L	40		100.8%	40.0		40	40.26258	40.3	1	40	40.26258	10/10/11	2:26 PM
critotU	U233 IS	87.5			%R	0.5					0.5	87.54201	87.5	1	0.5	87.54201	10/10/11	2:26 PM
ccv	U-tot	8240			ng/L	40		107.4%	7670		40	8240.88864	8240	1	40	8240.88864	10/10/11	2:28 PM
ccv	U233 IS	84.2			%R	0.5					0.5	84.21432	84.2	1	0.5	84.21432	10/10/11	2:28 PM
ccb	U-tot	40.0	U		ng/L	40					40	1.56916	1.57	1	40	1.56916	10/10/11	2:30 PM
ccb	U233 IS	84.7			%R	0.5					0.5	84.73402	84.7	1	0.5	84.73402	10/10/11	2:30 PM
icv	U-tot	8260			ng/L	40		107.7%	7670		40	8259.18565	8260	1	40	8259.18565	10/10/11	6:00 PM
icv	U233 IS	105			%R	0.5					0.5	104.76913	105	1	0.5	104.76913	10/10/11	6:00 PM
icb	U-tot	40.0	U		ng/L	40					40	-2.20271	-2.2	1	40	-2.20271	10/10/11	6:02 PM
icb	U233 IS	103			%R	0.5					0.5	103.23399	103	1	0.5	103.23399	10/10/11	6:02 PM
critotU	U-tot	40.8			ng/L	40		102.0%	40.0		40	40.82792	40.8	1	40	40.82792	10/10/11	6:05 PM
critotU	U233 IS	104			%R	0.5					0.5	103.69454	104	1	0.5	103.69454	10/10/11	6:05 PM
icsa	U-tot	40.0	U	#DIV/0!	ng/L	40		#DIV/0!	0		40	24.8757	24.9	1	40	24.8757	10/10/11	6:07 PM
icsa	U233 IS	82.8			%R	0.5					0.5	82.83793	82.8	1	0.5	82.83793	10/10/11	6:07 PM
icsab	U-tot	20900			ng/L	40		102.5%	20400		40	20947.29902	20900	1	40	20947.29902	10/10/11	6:09 PM
icsab	U233 IS	83.9			%R	0.5					0.5	83.94314	83.9	1	0.5	83.94314	10/10/11	6:09 PM
zzz	U-tot	40.0	U		ng/L	40					40	-4.02521	-4.03	1	40	-4.02521	10/10/11	6:12 PM
zzz	U233 IS	116			%R	0.5					0.5	116.38528	116	1	0.5	116.38528	10/10/11	6:12 PM
ccv	U-tot	8310			ng/L	40		108.3%	7670		40	8312.23935	8310	1	40	8312.23935	10/10/11	6:14 PM
ccv	U233 IS	113			%R	0.5					0.5	113.37629	113	1	0.5	113.37629	10/10/11	6:14 PM
ccb	U-tot	40.0	U		ng/L	40					40	4.47172	4.47	1	40	4.47172	10/10/11	6:16 PM
ccb	U233 IS	115			%R	0.5					0.5	114.66585	115	1	0.5	114.66585	10/10/11	6:16 PM
Blankd21	U-tot	93000			ng/L	160				6279	40	93011.85836	93000	4	160	23252.96459	10/10/11	6:19 PM

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Sample ID	Element	Result	Qual (C)	Qual (A)	Units	RL	%RPD	% Recovery	TV	[illegible]	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
Blankd21	U233 IS	118			%R	0.5					0.5	118.07401	118	4	0.5	118.07401	10/10/11	6:19 PM
473754d21	U-tot	79500			ng/L	160				5366	40	79490.46604	79500	4	160	19872.61651	10/10/11	6:21 PM
473754d21	U233 IS	104			%R	0.5					0.5	103.80711	104	4	0.5	103.80711	10/10/11	6:21 PM
473754d21L	U-tot	78700			ng/L	800	1.0%			5325	40	78664.8798	78700	20	800	3933.24399	10/10/11	6:23 PM
473754d21L	U233 IS	110			%R	0.5					0.5	109.59975	110	20	0.5	109.59975	10/10/11	6:23 PM
473754d21D	U-tot	81500			ng/L	160	2.5%			5499	40	81454.04176	81500	4	160	20363.51044	10/10/11	6:26 PM
473754d21D	U233 IS	102			%R	0.5					0.5	102.05706	102	4	0.5	102.05706	10/10/11	6:26 PM
473754d21AS	U-tot	161000			ng/L	160		99.6%	81800	10890	40	161326.5182	161000	4	160	40331.62955	10/10/11	6:28 PM
473754d21AS	U233 IS	103			%R	0.5					0.5	102.66088	103	4	0.5	102.66088	10/10/11	6:28 PM
zzz	U-tot	40.0	U		ng/L	40					40	0.86025	0.86	1	40	0.86025	10/10/11	6:30 PM
zzz	U233 IS	105			%R	0.5					0.5	105.09662	105	1	0.5	105.09662	10/10/11	6:30 PM
473755d21	U-tot	70700			ng/L	80				4772	40	70691.5741	70700	2	80	35345.78705	10/10/11	6:33 PM
473755d21	U233 IS	100			%R	0.5					0.5	100.0921	100	2	0.5	100.0921	10/10/11	6:33 PM
473755d21D	U-tot	78800			ng/L	80	10.8%			5317	40	78761.93262	78800	2	80	39380.96631	10/10/11	6:35 PM
473755d21D	U233 IS	97.0			%R	0.5					0.5	96.96048	97	2	0.5	96.96048	10/10/11	6:35 PM
zzz	U-tot	40.0	U		ng/L	40					40	8.00987	8.01	1	40	8.00987	10/10/11	6:37 PM
zzz	U233 IS	101			%R	0.5					0.5	100.66521	101	1	0.5	100.66521	10/10/11	6:37 PM
critotU	U-tot	42.4			ng/L	40		106.0%	40.0		40	42.36556	42.4	1	40	42.36556	10/10/11	6:39 PM
critotU	U233 IS	103			%R	0.5					0.5	103.10095	103	1	0.5	103.10095	10/10/11	6:39 PM
ccv	U-tot	8240			ng/L	40		107.4%	7670		40	8238.70787	8240	1	40	8238.70787	10/10/11	6:42 PM
ccv	U233 IS	102			%R	0.5					0.5	101.62722	102	1	0.5	101.62722	10/10/11	6:42 PM
ccb	U-tot	40.0	U		ng/L	40					40	5.41546	5.42	1	40	5.41546	10/10/11	6:44 PM
ccb	U233 IS	98.8			%R	0.5					0.5	98.76167	98.8	1	0.5	98.76167	10/10/11	6:44 PM
473756d21	U-tot	42300			ng/L	80				2857	40	42328.21608	42300	2	80	21164.10804	10/10/11	6:46 PM
473756d21	U233 IS	96.4			%R	0.5					0.5	96.36691	96.4	2	0.5	96.36691	10/10/11	6:46 PM
473756d21D	U-tot	40000			ng/L	80	5.6%			2700	40	40002.60564	40000	2	80	20001.30282	10/10/11	6:49 PM
473756d21D	U233 IS	97.9			%R	0.5					0.5	97.89178	97.9	2	0.5	97.89178	10/10/11	6:49 PM
473757d21	U-tot	59800			ng/L	160				4040	40	59837.504	59800	4	160	14959.376	10/10/11	6:51 PM
473757d21	U233 IS	101			%R	0.5					0.5	100.67545	101	4	0.5	100.67545	10/10/11	6:51 PM
473757d21D	U-tot	72000			ng/L	160	18.5%			4858	40	71964.2908	72000	4	160	17991.0727	10/10/11	6:53 PM
473757d21D	U233 IS	98.3			%R	0.5					0.5	98.2909	98.3	4	0.5	98.2909	10/10/11	6:53 PM
473758d21	U-tot	20100			ng/L	40				1354	40	20052.47382	20100	1	40	20052.47382	10/10/11	6:56 PM
473758d21	U233 IS	92.1			%R	0.5					0.5	92.08914	92.1	1	0.5	92.08914	10/10/11	6:56 PM
473758d21D	U-tot	21700			ng/L	40	7.7%			1467	40	21730.50348	21700	1	40	21730.50348	10/10/11	6:58 PM
473758d21D	U233 IS	89.6			%R	0.5					0.5	89.64327	89.6	1	0.5	89.64327	10/10/11	6:58 PM
473768d21	U-tot	82300			ng/L	160				5555	40	82291.14764	82300	4	160	20572.78691	10/10/11	7:00 PM
473768d21	U233 IS	97.8			%R	0.5					0.5	97.83037	97.8	4	0.5	97.83037	10/10/11	7:00 PM
473768d21D	U-tot	85700			ng/L	160	4.0%			5783	40	85662.9336	85700	4	160	21415.7334	10/10/11	7:03 PM
473768d21D	U233 IS	95.4			%R	0.5					0.5	95.36398	95.4	4	0.5	95.36398	10/10/11	7:03 PM
zzz	U-tot	40.0	U		ng/L	40					40	8.77045	8.77	1	40	8.77045	10/10/11	7:05 PM
zzz	U233 IS	95.8			%R	0.5					0.5	95.82451	95.8	1	0.5	95.82451	10/10/11	7:05 PM
critotU	U-tot	46.1			ng/L	40		115.3%	40.0		40	46.06531	46.1	1	40	46.06531	10/10/11	7:07 PM
critotU	U233 IS	98.9			%R	0.5					0.5	98.86401	98.9	1	0.5	98.86401	10/10/11	7:07 PM
ccv	U-tot	8140			ng/L	40		106.1%	7670		40	8142.63454	8140	1	40	8142.63454	10/10/11	7:10 PM
ccv	U233 IS	96.7			%R	0.5					0.5	96.68417	96.7	1	0.5	96.68417	10/10/11	7:10 PM

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Fluor
to#110825-10, 110915-9
16526.05.006
pg 15 00132 - 15 00140

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	Uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
ccb	U-tot	40.0	U		ng/L	40					40	4.15132	4.15	1	40	4.15132	10/10/11	7:12 PM
ccb	U233 IS	95.5			%R	0.5					0.5	95.51749	95.5	1	0.5	95.51749	10/10/11	7:12 PM
473769d21	U-tot	72200			ng/L	160				4876	40	72231.67732	72200	4	160	18057.91933	10/10/11	7:14 PM
473769d21	U233 IS	93.6			%R	0.5					0.5	93.61399	93.6	4	0.5	93.61399	10/10/11	7:14 PM
473769d21D	U-tot	71300			ng/L	160	1.3%			4813	40	71287.0814	71300	4	160	17821.77035	10/10/11	7:16 PM
473769d21D	U233 IS	95.2			%R	0.5					0.5	95.20024	95.2	4	0.5	95.20024	10/10/11	7:16 PM
473770d21	U-tot	81800			ng/L	160				5525	40	81840.30792	81800	4	160	20460.07698	10/10/11	7:19 PM
473770d21	U233 IS	93.7			%R	0.5					0.5	93.67539	93.7	4	0.5	93.67539	10/10/11	7:19 PM
473770d21D	U-tot	87900			ng/L	160	7.2%			5936	40	87934.94672	87900	4	160	21983.73668	10/10/11	7:21 PM
473770d21D	U233 IS	92.5			%R	0.5					0.5	92.51896	92.5	4	0.5	92.51896	10/10/11	7:21 PM
473771d21	U-tot	89600			ng/L	160				6047	40	69577.33188	89600	4	160	22394.33297	10/10/11	7:23 PM
473771d21	U233 IS	94.2			%R	0.5					0.5	94.24849	94.2	4	0.5	94.24849	10/10/11	7:23 PM
473771d21D	U-tot	91100			ng/L	160	1.7%			6148	40	91071.4646	91100	4	160	22767.86615	10/10/11	7:26 PM
473771d21D	U233 IS	96.3			%R	0.5					0.5	96.29528	96.3	4	0.5	96.29528	10/10/11	7:26 PM
473772d21	U-tot	85900			ng/L	160				5802	40	85943.28056	85900	4	160	21485.82014	10/10/11	7:28 PM
473772d21	U233 IS	95.6			%R	0.5					0.5	95.6403	95.6	4	0.5	95.6403	10/10/11	7:28 PM
473772d21D	U-tot	84100			ng/L	160	2.1%			5675	40	84065.973	84100	4	160	21016.49325	10/10/11	7:30 PM
473772d21D	U233 IS	97.1			%R	0.5					0.5	97.12423	97.1	4	0.5	97.12423	10/10/11	7:30 PM
zzz	U-tot	40.0	U		ng/L	40					40	1.078	1.08	1	40	1.078	10/10/11	7:32 PM
zzz	U233 IS	95.9			%R	0.5					0.5	95.88591	95.9	1	0.5	95.88591	10/10/11	7:32 PM
critotU	U-tot	43.9			ng/L	40		109.8%	40.0		40	43.85249	43.9	1	40	43.85249	10/10/11	7:35 PM
critotU	U233 IS	94.0			%R	0.5					0.5	94.01312	94	1	0.5	94.01312	10/10/11	7:35 PM
ccv	U-tot	8290			ng/L	40		108.1%	7670		40	8289.64718	8290	1	40	8289.64718	10/10/11	7:37 PM
ccv	U233 IS	96.7			%R	0.5					0.5	96.67393	96.7	1	0.5	96.67393	10/10/11	7:37 PM
ccb	U-tot	40.0	U		ng/L	40					40	-0.44859	-0.449	1	40	-0.44859	10/10/11	7:39 PM
ccb	U233 IS	95.8			%R	0.5					0.5	95.83476	95.6	1	0.5	95.83476	10/10/11	7:39 PM
icv	U-tot	8330			ng/L	40		108.6%	7670		40	8332.87552	8330	1	40	8332.87552	10/11/11	7:24 PM
icv	U233 IS	101			%R	0.5					0.5	100.51874	101	1	0.5	100.51874	10/11/11	7:24 PM
icb	U-tot	40.0	U		ng/L	40					40	5.16813	5.17	1	40	5.16813	10/11/11	7:26 PM
icb	U233 IS	99.6			%R	0.5					0.5	99.60281	99.6	1	0.5	99.60281	10/11/11	7:26 PM
critotU	U-tot	51.1			ng/L	40		127.8%	40.0		40	51.06753	51.1	1	40	51.06753	10/11/11	7:29 PM
critotU	U233 IS	97.9			%R	0.5					0.5	97.90876	97.9	1	0.5	97.90876	10/11/11	7:29 PM
icsa	U-tot	40.0	U	#DIV/0!	ng/L	40		#DIV/0!	0		40	30.04866	30	1	40	30.04866	10/11/11	7:31 PM
icsa	U233 IS	91.9			%R	0.5					0.5	91.87026	91.9	1	0.5	91.87026	10/11/11	7:31 PM
icsab	U-tot	21300			ng/L	40		104.4%	20400		40	21316.23121	21300	1	40	21316.23121	10/11/11	7:33 PM
icsab	U233 IS	95.3			%R	0.5					0.5	95.29881	95.3	1	0.5	95.29881	10/11/11	7:33 PM
zzz	U-tot	40.0	U		ng/L	40					40	1.18359	1.16	1	40	1.18359	10/11/11	7:35 PM
zzz	U233 IS	104			%R	0.5					0.5	104.00417	104	1	0.5	104.00417	10/11/11	7:35 PM
ccv	U-tot	8330			ng/L	40		108.6%	7670		40	8327.70477	8330	1	40	8327.70477	10/11/11	7:38 PM
ccv	U233 IS	102			%R	0.5					0.5	102.37492	102	1	0.5	102.37492	10/11/11	7:38 PM
ccb	U-tot	40.0	U		ng/L	40					40	6.13556	6.14	1	40	6.13556	10/11/11	7:40 PM
ccb	U233 IS	102			%R	0.5					0.5	102.0588	102	1	0.5	102.0588	10/11/11	7:40 PM
473778d21	U-tot	76000			ng/L	160				5129	40	75971.804	76000	4	160	18992.951	10/11/11	7:42 PM
473778d21	U233 IS	102			%R	0.5					0.5	101.98585	102	4	0.5	101.98585	10/11/11	7:42 PM
473778d21D	U-tot	65300			ng/L	160	15.1%			4406	40	65259.27644	65300	4	160	16314.81911	10/11/11	7:45 PM

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Fluor
to#110825-10, 110915-9
16526.05.006
pg 15 00132 - 15 00140

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	% Recovery	RV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
473778d21D	U233 IS	99.1			%R	0.5					0.5	99.07595	99.1	4	0.5	99.07595	10/11/11	7:45 PM
473045d21	U-tot	94700			ng/L	160				6395	40	94736.93892	94700	4	160	23684.23473	10/11/11	7:47 PM
473045d21	U233 IS	97.9			%R	0.5					0.5	97.89255	97.9	4	0.5	97.89255	10/11/11	7:47 PM
473045d21D	U-tot	94400			ng/L	160	0.3%			6373	40	94414.65836	94400	4	160	23603.66459	10/11/11	7:49 PM
473045d21D	U233 IS	97.3			%R	0.5					0.5	97.27654	97.3	4	0.5	97.27654	10/11/11	7:49 PM
zzz	U-tot	40.0	U		ng/L	40					40	7.48083	7.48	1	40	7.48083	10/11/11	7:52 PM
zzz	U233 IS	99.2			%R	0.5					0.5	99.20564	99.2	1	0.5	99.20564	10/11/11	7:52 PM
critotU	U-tot	43.8			ng/L	40		109.5%	40.0		40	43.82602	43.8	1	40	43.82602	10/11/11	7:54 PM
critotU	U233 IS	99.3			%R	0.5					0.5	99.2867	99.3	1	0.5	99.2867	10/11/11	7:54 PM
ccv	U-tot	8280			ng/L	40		108.0%	7670		40	8276.09652	8280	1	40	8276.09652	10/11/11	7:56 PM
ccv	U233 IS	100			%R	0.5					0.5	100.29178	100	1	0.5	100.29178	10/11/11	7:56 PM
ccb	U-tot	40.0	U		ng/L	40					40	9.60991	9.61	1	40	9.60991	10/11/11	7:59 PM
ccb	U233 IS	99.6			%R	0.5					0.5	99.62713	99.6	1	0.5	99.62713	10/11/11	7:59 PM

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SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 6/Jan 11

☒ 6020 TAP No. 01-0406-046 Rev15/Sep 11

☐ 6020a TAP No. 01-0406-046 Rev15/Sep 11

☐ TAP No. 01-0406-148 Rev 2/Dec 10

☐ Other

ICP-MS CALIB. STD. ID's

		TVs
S0	11-096-14	
STD. 1	11-091-04	44933 ng
I. STD	02-415-08	0.2 ppb
I. STD		

QC STD. ID's

ICV/CCV	11-096-13	7666 ng/l
UCL		
CRI	11-096-12	40 ng/L
ICSA	11-096-10	–
ICSAB	11-096-11	20,444 ng/L

ANALYSIS

Total Uranium

IDL Date: 08/10/2011
STD's IV, CCS 1-6 expire 10/1/11
STD's Spex, ME 1-4 expire 9/15/12

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526.05.006	Fluor	110825-10 110915-9	9/29/11	So	15 00132 – 15 00140

INSTRUMENT: DRCII

FILENAME: 110929.mp

Analyst: M. Seelen

Date: 9 / 29 / 11

☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Thursday, September 29, 2011 09:11:15
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\Daily Performance Check.008
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

9-29-11
9/29/11

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	7898.9	7898.897	87.784	1.1
	In	114.9	26559.1	26559.074	188.800	0.7
	U	238.1	26931.8	26931.835	178.179	0.7
[>	Ce	139.9	30443.0	30443.022	136.312	0.4
[	CeO	155.9	1408.8	0.046	0.000	0.7
[>	Ba	137.9	252105.3	252105.258	917.596	0.4
[	Ba++	69.0	5540.4	0.022	0.000	0.9
	Bkgd	220.0	1.3	1.300	0.321	24.7
	Bkgd	8.5	55.8	55.767	2.775	5.0

Current Optimization File Data

Current Value	Description
1.00	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
7.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

10/13/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	6.0	445.0
Co	59	45	6.8	13830.5
In	115	45	7.3	24900.1

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Thursday, September 29, 2011 09:11:15
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\Daily Performance Check.008
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

9-29-11
NSeiler 9/29/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2774	2031	0.698	
Mg	23.985	23.925	5671	2039	0.704	
Ar2	75.930	75.925	18313	2071	0.688	
In	114.904	114.975	27817	2097	0.691	
Ce	139.905	139.925	33899	2108	0.694	
Pb	207.977	208.025	50485	2150	0.715	
Th	232.038	232.075	56335	2167	0.702	
U	238.050	238.025	57800	2173	0.701	

Quantitative Analysis - Summary Report

Sample ID: S-0
Sample Date/Time: Thursday, September 29, 2011 10:09:32
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\S-0.009
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	16	13.287	0.000	
U	235	9	6.662	0.000	
U	238	167	7.853	0.000	
U 232	232	22	16.389	0.000	
U 236	236	5	32.733	0.000	
┌ U-tot	238	191	7.115	0.000	
└> U233	233	5044	1.652	0.000	
U233 IS	233	5044	1.652	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	15.667				ng/L
U	235	8.667				ng/L
U	238	167.002				ng/L
U 232	232	22.000				ng/L
U 236	236	4.667				ng/L
┌ U-tot	238	0.038				ng/L
└> U233	233	5044.399				ng/L
U233 IS	233	5044.399	**100.000**	1.65	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: S-1

Sample Date/Time: Thursday, September 29, 2011 10:11:52
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\S-1.010
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	77	25.877	0.000	
U	235	7950	1.639	0.000	
U	238	1103160	0.336	0.000	
U 232	232	32	48.814	0.000	
U 236	236	232	11.102	0.000	
┌ U-tot	238	1111187	0.338	0.000	
└> U233	233	4945	0.952	0.000	
U233 IS	233	4945	0.952	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	77.000				ng/L
U	235	7949.808				ng/L
U	238	1103159.883				ng/L
U 232	232	32.000				ng/L
U 236	236	232.336				ng/L
┌ U-tot	238	224.733	**44933.000**	277.88	0.6	ng/L
└> U233	233	4944.678				ng/L
U233 IS	233	4944.678	**98.023**	0.93	1.0	%R

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Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Thursday, September 29, 2011 10:14:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\icv.011
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	36	64.096	0.000	
	U	235	1389	0.300	0.000	
	U	238	187917	0.321	0.000	
	U 232	232	38	75.906	0.000	
	U 236	236	141	17.984	0.000	
┌	U-tot	238	189342	0.324	0.000	
└>	U233	233	4877	2.222	0.000	
	U233 IS	233	4877	2.222	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	36.333				ng/L
	U	235	1388.773				ng/L
	U	238	187916.675				ng/L
	U 232	232	38.000				ng/L
	U 236	236	141.001				ng/L
┌	U-tot	238	38.840	**7759.398**	186.89	2.4	ng/L
└>	U233	233	4876.641				ng/L
	U233 IS	233	4876.641	**96.674**	2.15	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: Icb

Sample Date/Time: Thursday, September 29, 2011 10:16:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\icb.012
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	31	45.506	0.000	
U	235	29	83.745	0.000	
U	238	219	9.392	0.000	
U 232	232	37	30.462	0.000	
U 236	236	21	86.982	0.000	
U-tot	238	279	19.158	0.000	
U233	233	4934	2.277	0.000	
U233 IS	233	4934	2.277	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	31.000				ng/L
U	235	28.667				ng/L
U	238	219.336				ng/L
U 232	232	37.333				ng/L
U 236	236	21.333				ng/L
U-tot	238	0.056	**3.699**	1.93	52.3	ng/L
U233	233	4934.006				ng/L
U233 IS	233	4934.006	**97.812**	2.23	2.3	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Thursday, September 29, 2011 10:18:50
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\critotU.013
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	23	61.262	0.000	
	U	235	24	90.811	0.000	
	U	238	1177	2.578	0.000	
	U 232	232	24	72.289	0.000	
	U 236	236	19	84.254	0.000	
┌	U-tot	238	1225	5.293	0.000	
└>	U233	233	4853	2.867	0.000	
	U233 IS	233	4853	2.867	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	23.333				ng/L
	U	235	24.000				ng/L
	U	238	1177.410				ng/L
	U 232	232	24.000				ng/L
	U 236	236	19.333				ng/L
┌	U-tot	238	0.252	**42.863**	1.38	3.2	ng/L
└>	U233	233	4853.296				ng/L
	U233 IS	233	4853.296	**96.212**	2.76	2.9	%R

Quantitative Analysis - Summary Report

Sample ID: icsa

Sample Date/Time: Thursday, September 29, 2011 10:21:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\icsa.014
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	48.949	0.000	
	U	235	45	12.925	0.000	
	U	238	720	1.198	0.000	
	U 232	232	284	8.865	0.000	
	U 236	236	5	80.000	0.000	
[	U-tot	238	780	2.750	0.000	
L>	U233	233	3530	0.794	0.000	
	U233 IS	233	3530	0.794	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	15.333				ng/L
	U	235	45.333				ng/L
	U	238	719.695				ng/L
	U 232	232	283.671				ng/L
	U 236	236	5.000				ng/L
[	U-tot	238	0.221	**36.635**	1.57	4.3	ng/L
L>	U233	233	3530.019				ng/L
	U233 IS	233	3530.019	**69.979**	0.56	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: icsab
Sample Date/Time: Thursday, September 29, 2011 10:23:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\icsab.015
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	32	4.824	0.000	
	U	235	2759	2.417	0.000	
	U	238	383553	0.355	0.000	
	U 232	232	270	4.783	0.000	
	U 236	236	5	10.825	0.000	
[	U-tot	238	386344	0.347	0.000	
L>	U233	233	3637	1.623	0.000	
	U233 IS	233	3637	1.623	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	31.667				ng/L
	U	235	2759.419				ng/L
	U	238	383553.117				ng/L
	U 232	232	269.671				ng/L
	U 236	236	5.333				ng/L
[	U-tot	238	106.254	**21240.394**	373.37	1.8	ng/L
L>	U233	233	3636.727				ng/L
	U233 IS	233	3636.727	**72.094**	1.17	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Thursday, September 29, 2011 10:25:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.016
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	8.921	0.000	
	U	235	37	9.745	0.000	
	U	238	444	7.154	0.000	
	U 232	232	49	20.582	0.000	
	U 236	236	36	5.556	0.000	
┌	U-tot	238	528	5.779	0.000	
└>	U233	233	5105	0.844	0.000	
	U233 IS	233	5105	0.844	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	46.667				ng/L
	U	235	37.000				ng/L
	U	238	444.344				ng/L
	U 232	232	48.667				ng/L
	U 236	236	36.000				ng/L
┌	U-tot	238	0.103	**13.099**	1.09	8.3	ng/L
└>	U233	233	5105.100				ng/L
	U233 IS	233	5105.100	**101.203**	0.85	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Thursday, September 29, 2011 10:28:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccv.017
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Celibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	22	35.850	0.000	
	U	235	1450	3.997	0.000	
	U	238	194527	0.898	0.000	
	U 232	232	17	35.781	0.000	
	U 236	236	139	2.307	0.000	
⌈	U-tot	238	195998	0.891	0.000	
⌊>	U233	233	4966	1.631	0.000	
	U233 IS	233	4966	1.631	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	21.667				ng/L
	U	235	1449.782				ng/L
	U	238	194526.985				ng/L
	U 232	232	17.000				ng/L
	U 236	236	139.334				ng/L
⌈	U-tot	238	39.475	**7886.375**	148.93	1.9	ng/L
⌊>	U233	233	4966.023				ng/L
	U233 IS	233	4966.023	**98.446**	1.61	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Thursday, September 29, 2011 10:30:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccb.018
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	38	37.950	0.000	
	U	235	39	53.356	0.000	
	U	238	216	10.976	0.000	
	U 232	232	31	35.919	0.000	
	U 236	236	28	65.465	0.000	
⌈	U-tot	238	292	17.805	0.000	
└>	U233	233	5211	1.267	0.000	
	U233 IS	233	5211	1.267	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	37.667				ng/L
	U	235	39.000				ng/L
	U	238	215.669				ng/L
	U 232	232	30.667				ng/L
	U 236	236	28.000				ng/L
⌈	U-tot	238	0.056	**3.627**	1.90	52.4	ng/L
└>	U233	233	5210.826				ng/L
	U233 IS	233	5210.826	**103.299**	1.31	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd0 df4

Sample Date/Time: Thursday, September 29, 2011 10:35:30
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\Blankd0 df4.019
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	43	38.425	0.000	
	U	235	2135	2.210	0.000	
	U	238	619994	0.581	0.000	
	U 232	232	21	87.944	0.000	
	U 236	236	139	4.614	0.000	
┌	U-tot	238	622172	0.587	0.000	
└>	U233	233	4843	0.837	0.000	
	U233 IS	233	4843	0.837	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	43.000				ng/L
	U	235	2134.584				ng/L
	U	238	619994.220				ng/L
	U 232	232	20.667				ng/L
	U 236	236	139.334				ng/L
┌	U-tot	238	128.487	**25686.382**	328.03	1.3	ng/L
└>	U233	233	4842.623				ng/L
	U233 IS	233	4842.623	**96.000**	0.80	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd7 df4
Sample Date/Time: Thursday, September 29, 2011 10:37:47
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\Blankd7 df4.020
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	36	32.750	0.000	
U	235	1956	0.563	0.000	
U	238	587391	0.624	0.000	
U 232	232	18	65.075	0.000	
U 236	236	127	7.991	0.000	
┌ U-tot	238	589383	0.623	0.000	
└> U233	233	4768	2.804	0.000	
U233 IS	233	4768	2.804	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	36.000				ng/L
U	235	1955.877				ng/L
U	238	587391.125				ng/L
U 232	232	18.333				ng/L
U 236	236	127.001				ng/L
┌ U-tot	238	123.657	**24720.537**	548.30	2.2	ng/L
└> U233	233	4768.251				ng/L
U233 IS	233	4768.251	**94.526**	2.65	2.8	%R

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Quantitative Analysis - Summary Report

Sample ID: 473754d7 df4

Sample Date/Time: Thursday, September 29, 2011 10:40:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473754d7 df4.021
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	34	58.603	0.000	
U	235	1870	2.600	0.000	
U	238	529516	0.386	0.000	
U 232	232	170	13.964	0.000	
U 236	236	120	27.626	0.000	
┌ U-tot	238	531419	0.397	0.000	
└> U233	233	4538	2.275	0.000	
U233 IS	233	4538	2.275	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	34.000				ng/L
U	235	1869.526				ng/L
U	238	529515.674				ng/L
U 232	232	169.668				ng/L
U 236	236	120.001				ng/L
┌ U-tot	238	117.134	**23416.095**	435.22	1.9	ng/L
└> U233	233	4538.133				ng/L
U233 IS	233	4538.133	**89.964**	2.05	2.3	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d7L df20

Sample Date/Time: Thursday, September 29, 2011 10:42:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473754d7L df20.022
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	18	19.156	0.000	
	U	235	396	4.438	0.000	
	U	238	112521	1.101	0.000	
	U 232	232	47	12.372	0.000	
	U 236	236	22	26.647	0.000	
⌈	U-tot	238	112935	1.113	0.000	
L>	U233	233	4791	1.345	0.000	
	U233 IS	233	4791	1.345	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	18.333				ng/L
	U	235	395.675				ng/L
	U	238	112521.465				ng/L
	U 232	232	46.667				ng/L
	U 236	236	21.667				ng/L
⌈	U-tot	238	23.574	**4706.513**	32.53	0.7	ng/L
L>	U233	233	4790.929				ng/L
	U233 IS	233	4790.929	**94.975**	1.28	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d7D df4

Sample Date/Time: Thursday, September 29, 2011 10:44:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473754d7D df4.023
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	59	44.068	0.000	
	U	235	1614	2.506	0.000	
	U	238	457830	0.634	0.000	
	U 232	232	189	1.704	0.000	
	U 236	236	128	21.707	0.000	
┌	U-tot	238	459503	0.644	0.000	
└>	U233	233	4617	1.815	0.000	
	U233 IS	233	4617	1.815	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	59.000				ng/L
	U	235	1614.143				ng/L
	U	238	457830.259				ng/L
	U 232	232	188.669				ng/L
	U 236	236	128.001				ng/L
┌	U-tot	238	99.543	**19898.329**	255.82	1.3	ng/L
└>	U233	233	4616.839				ng/L
	U233 IS	233	4616.839	**91.524**	1.66	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d7AS df4

Sample Date/Time: Thursday, September 29, 2011 10:47:00
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473754d7AS df4.024
Tuning File: C:\Elandata\Tuning\Default.tun
Optimizetion File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20 uL of 1° natural uranium @ df
(11-064-06, 075-Rad-S012)
in 10 mL

TU = 20462 ng/L x df4 = 81848 ng/L
9/30/11 NS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	45	10.184	0.000	
	U	235	5134	0.626	0.000	
	U	238	974722	0.497	0.000	
	U 232	232	189	5.889	0.000	
	U 236	236	103	11.027	0.000	
[	U-tot	238	979901	0.496	0.000	
L>	U233	233	4433	2.372	0.000	
	U233 IS	233	4433	2.372	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	45.000				ng/L
	U	235	5133.783				ng/L
	U	238	974722.170				ng/L
	U 232	232	189.335				ng/L
	U 236	236	103.001				ng/L
[	U-tot	238	221.125	**44211.506**	824.88	1.9	ng/L
L>	U233	233	4432.748				ng/L
	U233 IS	233	4432.748	**87.875**	2.08	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Thursday, September 29, 2011 10:49:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.025
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	35	56.698	0.000	
U	235	31	67.125	0.000	
U	238	423	6.888	0.000	
U 232	232	29	68.295	0.000	
U 236	236	24	76.376	0.000	
U-tot	238	489	14.063	0.000	
U233	233	4726	2.614	0.000	
U233 IS	233	4726	2.614	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	34.667				ng/L
U	235	31.000				ng/L
U	238	423.010				ng/L
U 232	232	29.333				ng/L
U 236	236	24.000				ng/L
U-tot	238	0.103	**13.058**	2.43	18.6	ng/L
U233	233	4725.895				ng/L
U233 IS	233	4725.895	**93.686**	2.45	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: 473755d7 df~~2~~4 TE 10/13/11
Sample Date/Time: Thursday, September 29, 2011 10:51:40
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473755d7 df2.026
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	55	49.339	0.000	
U	235	1562	2.498	0.000	
U	238	417526	0.508	0.000	
U 232	232	1258	3.198	0.000	
U 236	236	118	27.107	0.000	
┌ U-tot	238	419143	0.512	0.000	
└> U233	233	4704	1.838	0.000	
U233 IS	233	4704	1.838	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	55.334				ng/L
U	235	1561.801				ng/L
U	238	417526.302				ng/L
U 232	232	1257.754				ng/L
U 236	236	117.667				ng/L
┌ U-tot	238	89.138	**17817.666**	422.22	2.4	ng/L
└> U233	233	4703.550				ng/L
U233 IS	233	4703.550	**93.243**	1.71	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Thursday, September 29, 2011 10:54:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.027
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	38	68.243	0.000	
	U	235	40	73.816	0.000	
	U	238	383	9.553	0.000	
	U 232	232	81	29.189	0.000	
	U 236	236	34	81.688	0.000	
┌	U-tot	238	461	19.754	0.000	
└>	U233	233	4808	2.600	0.000	
	U233 IS	233	4808	2.600	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	38.333				ng/L
	U	235	39.667				ng/L
	U	238	382.675				ng/L
	U 232	232	81.000				ng/L
	U 236	236	33.667				ng/L
┌	U-tot	238	0.096	**11.537**	3.42	29.7	ng/L
└>	U233	233	4807.605				ng/L
	U233 IS	233	4807.605	**95.306**	2.48	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Thursday, September 29, 2011 10:56:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\critotU.028
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	43	45.359	0.000	
U	235	42	45.886	0.000	
U	238	1154	6.078	0.000	
U 232	232	41	44.625	0.000	
U 236	236	40	59.108	0.000	
U-tot	238	1239	8.799	0.000	
U233	233	4745	1.121	0.000	
U233 IS	233	4745	1.121	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	43.333				ng/L
U	235	42.333				ng/L
U	238	1153.740				ng/L
U 232	232	40.667				ng/L
U 236	236	40.000				ng/L
U-tot	238	0.261	**44.632**	4.12	9.2	ng/L
U233	233	4744.571				ng/L
U233 IS	233	4744.571	**94.056**	1.05	1.1	%R

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Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Thursday, September 29, 2011 10:58:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccv.029
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	40	51.501	0.000	
	U	235	1352	6.616	0.000	
	U	238	182210	2.384	0.000	
	U 232	232	29	56.715	0.000	
	U 236	236	140	23.049	0.000	
[	U-tot	238	183601	2.413	0.000	
L>	U233	233	4728	1.415	0.000	
	U233 IS	233	4728	1.415	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	39.667				ng/L
	U	235	1352.101				ng/L
	U	238	182209.572				ng/L
	U 232	232	28.667				ng/L
	U 236	236	139.668				ng/L
[	U-tot	238	38.830	**7757.386**	78.79	1.0	ng/L
L>	U233	233	4727.896				ng/L
	U233 IS	233	4727.896	**93.726**	1.33	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Thursday, September 29, 2011 11:00:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccb.030
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	45	63.518	0.000	
	U	235	41	65.722	0.000	
	U	238	228	19.860	0.000	
	U 232	232	39	79.487	0.000	
	U 236	236	39	81.931	0.000	
┌	U-tot	238	314	31.283	0.000	
└>	U233	233	4911	0.454	0.000	
	U233 IS	233	4911	0.454	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	45.000				ng/L
	U	235	40.667				ng/L
	U	238	228.336				ng/L
	U 232	232	39.000				ng/L
	U 236	236	39.000				ng/L
┌	U-tot	238	0.064	**5.196**	3.97	76.4	ng/L
└>	U233	233	4911.326				ng/L
	U233 IS	233	4911.326	**97.362**	0.44	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: 473755d7D df~~2~~4 (TE) 10/13/11

Sample Date/Time: Thursday, September 29, 2011 11:07:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandate\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473755d7D df2.031
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	57	55.331	0.000	
	U	235	1506	5.611	0.000	
	U	238	409475	0.413	0.000	
	U 232	232	1390	1.191	0.000	
	U 236	236	123	33.576	0.000	
┌	U-tot	238	411039	0.426	0.000	
└>	U233	233	4598	1.368	0.000	
	U233 IS	233	4598	1.368	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	57.334				ng/L
	U	235	1506.458				ng/L
	U	238	409474.816				ng/L
	U 232	232	1390.440				ng/L
	U 236	236	122.668				ng/L
┌	U-tot	238	89.404	**17870.872**	276.78	1.5	ng/L
└>	U233	233	4598.163				ng/L
	U233 IS	233	4598.163	**91.154**	1.25	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: 473756d7 df2

Sample Date/Time: Thursday, September 29, 2011 11:10:10
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473756d7 df2.032
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	69	53.157	0.000	
	U	235	1908	2.061	0.000	
	U	238	505977	0.847	0.000	
	U 232	232	252	11.550	0.000	
	U 236	236	140	33.156	0.000	
⌈	U-tot	238	507954	0.858	0.000	
⌊>	U233	233	4452	2.699	0.000	
	U233 IS	233	4452	2.699	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	68.667				ng/L
	U	235	1907.867				ng/L
	U	238	505977.086				ng/L
	U 232	232	252.337				ng/L
	U 236	236	139.668				ng/L
⌈	U-tot	238	114.149	**22819.131**	546.21	2.4	ng/L
⌊>	U233	233	4451.757				ng/L
	U233 IS	233	4451.757	**88.251**	2.38	2.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473756d7D df2

Sample Date/Time: Thursday, September 29, 2011 11:12:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473756d7D df2.033
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	76	26.986	0.000	
U	235	1817	1.709	0.000	
U	238	472675	0.042	0.000	
U 232	232	339	9.492	0.000	
U 236	236	137	14.201	0.000	
┌ U-tot	238	474568	0.046	0.000	
└> U233	233	4423	1.396	0.000	
U233 IS	233	4423	1.396	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	76.334				ng/L
U	235	1817.182				ng/L
U	238	472674.820				ng/L
U 232	232	338.673				ng/L
U 236	236	137.334				ng/L
┌ U-tot	238	107.316	**21452.752**	301.29	1.4	ng/L
└> U233	233	4422.742				ng/L
U233 IS	233	4422.742	**87.676**	1.22	1.4	%R

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Quantitative Analysis - Summary Report

Sample ID: 473757d7 df4

Sample Date/Time: Thursday, September 29, 2011 11:14:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473757d7 df4.034
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	65	52.948	0.000	
	U	235	1673	1.443	0.000	
	U	238	385965	0.217	0.000	
	U 232	232	231	24.804	0.000	
	U 236	236	106	32.853	0.000	
⌈	U-tot	238	387703	0.227	0.000	
⌊>	U233	233	4486	1.395	0.000	
	U233 IS	233	4486	1.395	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	64.667				ng/L
	U	235	1672.821				ng/L
	U	238	385965.354				ng/L
	U 232	232	231.003				ng/L
	U 236	236	106.334				ng/L
⌈	U-tot	238	86.436	**17277.308**	277.22	1.6	ng/L
⌊>	U233	233	4486.107				ng/L
	U233 IS	233	4486.107	**88.932**	1.24	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: 473757d7D df4
Sample Date/Time: Thursday, September 29, 2011 11:17:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473757d7D df4.035
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	77	39.626	0.000	
U	235	2751	1.753	0.000	
U	238	548727	0.590	0.000	
U 232	232	199	19.778	0.000	
U 236	236	120	20.733	0.000	
┌ U-tot	238	551556	0.597	0.000	
└> U233	233	4585	1.738	0.000	
U233 IS	233	4585	1.738	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	77.000				ng/L
U	235	2751.083				ng/L
U	238	548727.462				ng/L
U 232	232	199.002				ng/L
U 236	236	120.001				ng/L
┌ U-tot	238	120.316	**24052.510**	279.11	1.2	ng/L
└> U233	233	4584.823				ng/L
U233 IS	233	4584.823	**90.889**	1.58	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473758d7

Sample Date/Time: Thursday, September 29, 2011 11:19:36
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473758d7.036
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	86	13.173	0.000	
U	235	1978	3.760	0.000	
U	238	514093	0.971	0.000	
U 232	232	308	10.415	0.000	
U 236	236	155	12.444	0.000	
U-tot	238	516157	0.965	0.000	
U233	233	4200	1.769	0.000	
U233 IS	233	4200	1.769	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	86.334				ng/L
U	235	1978.215				ng/L
U	238	514092.831				ng/L
U 232	232	308.005				ng/L
U 236	236	155.001				ng/L
U-tot	238	122.931	**24575.382**	496.19	2.0	ng/L
U233	233	4199.637				ng/L
U233 IS	233	4199.637	**83.253**	1.47	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473758d7D

Sample Date/Time: Thursday, September 29, 2011 11:21:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473758d7D.037
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	63	54.085	0.000	
	U	235	1883	2.214	0.000	
	U	238	493085	0.490	0.000	
	U 232	232	266	14.251	0.000	
	U 236	236	133	28.567	0.000	
┌	U-tot	238	495031	0.497	0.000	
└>	U233	233	4115	2.906	0.000	
	U233 IS	233	4115	2.906	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	63.000				ng/L
	U	235	1882.862				ng/L
	U	238	493085.097				ng/L
	U 232	232	265.671				ng/L
	U 236	236	132.668				ng/L
┌	U-tot	238	120.375	**24064.225**	766.85	3.2	ng/L
└>	U233	233	4114.932				ng/L
	U233 IS	233	4114.932	**81.574**	2.37	2.9	%R

Quantitative Analysis - Summary Report

Sample ID: 473768d7 df4

Sample Date/Time: Thursday, September 29, 2011 11:24:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473768d7 df4.038
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	99	42.652	0.000	
	U	235	1702	2.599	0.000	
	U	238	457370	0.417	0.000	
	U 232	232	205	20.904	0.000	
	U 236	236	155	36.927	0.000	
┌	U-tot	238	459172	0.420	0.000	
└>	U233	233	4471	1.855	0.000	
	U233 IS	233	4471	1.855	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	99.001				ng/L
	U	235	1702.159				ng/L
	U	238	457370.464				ng/L
	U 232	232	205.336				ng/L
	U 236	236	155.001				ng/L
┌	U-tot	238	102.714	**20532.418**	390.27	1.9	ng/L
└>	U233	233	4471.433				ng/L
	U233 IS	233	4471.433	**88.642**	1.64	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Thursday, September 29, 2011 11:26:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.039
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

ran out of solution
9/29/11/NS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	58	23.093	0.000	
	U	235	73	30.684	0.000	
	U	238	82	25.775	0.000	
	U 232	232	62	25.604	0.000	
	U 236	236	70	36.976	0.000	
┌	U-tot	238	213	26.667	0.000	
└>	U233	233	71	28.275	0.000	
	U233 IS	233	71	28.275	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	57.667				ng/L
	U	235	73.334				ng/L
	U	238	82.334				ng/L
	U 232	232	62.000				ng/L
	U 236	236	70.334				ng/L
┌	U-tot	238	3.018	**595.853**	17.94	3.0	ng/L
└>	U233	233	71.000				ng/L
	U233 IS	233	71.000	**1.408**	0.40	28.3	%R

Page 1
Sample ID: zzz
Report Date/Time: Thursday, September 29, 2011 11:27:15

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Thursday, September 29, 2011 11:29:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\critotU.040
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	44	73.311	0.000	
	U	235	50	57.627	0.000	
	U	238	1187	2.929	0.000	
	U 232	232	43	89.376	0.000	
	U 236	236	34	91.084	0.000	
⌈	U-tot	238	1282	6.783	0.000	
⌊>	U233	233	4575	0.746	0.000	
	U233 IS	233	4575	0.746	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	44.333				ng/L
	U	235	50.334				ng/L
	U	238	1187.078				ng/L
	U 232	232	43.000				ng/L
	U 236	236	33.667				ng/L
⌈	U-tot	238	0.280	**48.426**	3.46	7.1	ng/L
⌊>	U233	233	4575.485				ng/L
	U233 IS	233	4575.485	**90.704**	0.68	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Thursday, September 29, 2011 11:31:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccv.041
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	76	33.613	0.000	
	U	235	1340	0.621	0.000	
	U	238	177703	0.551	0.000	
	U 232	232	75	42.143	0.000	
	U 236	236	186	13.431	0.000	
┌	U-tot	238	179119	0.528	0.000	
└>	U233	233	4636	1.037	0.000	
	U233 IS	233	4636	1.037	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	76.334				ng/L
	U	235	1340.432				ng/L
	U	238	177702.694				ng/L
	U 232	232	75.000				ng/L
	U 236	236	186.335				ng/L
┌	U-tot	238	38.645	**7720.348**	118.76	1.5	ng/L
└>	U233	233	4635.515				ng/L
	U233 IS	233	4635.515	**91.894**	0.95	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Thursday, September 29, 2011 11:33:43
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccb.042
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	55	54.106	0.000	
	U	235	62	71.482	0.000	
	U	238	246	20.868	0.000	
	U 232	232	47	76.448	0.000	
	U 236	236	56	81.968	0.000	
┌	U-tot	238	364	34.541	0.000	
└>	U233	233	4695	1.809	0.000	
	U233 IS	233	4695	1.809	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	55.334				ng/L
	U	235	62.334				ng/L
	U	238	246.337				ng/L
	U 232	232	47.000				ng/L
	U 236	236	56.000				ng/L
┌	U-tot	238	0.077	**7.862**	5.13	65.3	ng/L
└>	U233	233	4695.212				ng/L
	U233 IS	233	4695.212	**93.078**	1.68	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473768d7D df4

Sample Date/Time: Thursday, September 29, 2011 11:36:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473768d7D df4.043
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	87	29.734	0.000	
	U	235	1783	2.449	0.000	
	U	238	476227	0.174	0.000	
	U 232	232	113	9.817	0.000	
	U 236	236	162	6.292	0.000	
┌	U-tot	238	478097	0.167	0.000	
└>	U233	233	4466	0.661	0.000	
	U233 IS	233	4466	0.661	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	87.334				ng/L
	U	235	1782.842				ng/L
	U	238	476226.526				ng/L
	U 232	232	112.667				ng/L
	U 236	236	162.335				ng/L
┌	U-tot	238	107.061	**21401.758**	121.55	0.6	ng/L
└>	U233	233	4465.763				ng/L
	U233 IS	233	4465.763	**88.529**	0.59	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473769d7 df4

Sample Date/Time: Thursday, September 29, 2011 11:38:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473769d7 df4.044
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	62	64.092	0.000	
	U	235	1394	5.499	0.000	
	U	238	381412	1.247	0.000	
	U 232	232	80	44.599	0.000	
	U 236	236	104	37.476	0.000	
[	U-tot	238	382868	1.262	0.000	
L>	U233	233	4442	0.843	0.000	
	U233 IS	233	4442	0.843	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	62.000				ng/L
	U	235	1393.774				ng/L
	U	238	381411.841				ng/L
	U 232	232	80.000				ng/L
	U 236	236	104.001				ng/L
[	U-tot	238	86.205	**17231.140**	323.78	1.9	ng/L
L>	U233	233	4441.752				ng/L
	U233 IS	233	4441.752	**88.053**	0.74	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473769d7D df4

Sample Date/Time: Thursday, September 29, 2011 11:40:42
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473769d7D df4.045
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	103	31.777	0.000	
	U	235	1567	4.628	0.000	
	U	238	414538	0.708	0.000	
	U 232	232	236	10.178	0.000	
	U 236	236	148	13.217	0.000	
┌	U-tot	238	416208	0.729	0.000	
└>	U233	233	4469	0.966	0.000	
	U233 IS	233	4469	0.966	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	102.667				ng/L
	U	235	1567.469				ng/L
	U	238	414537.556				ng/L
	U 232	232	236.003				ng/L
	U 236	236	148.335				ng/L
┌	U-tot	238	93.132	**18616.291**	56.98	0.3	ng/L
└>	U233	233	4469.098				ng/L
	U233 IS	233	4469.098	**88.595**	0.86	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 473770d7 df4

Sample Date/Time: Thursday, September 29, 2011 11:42:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473770d7 df4.046
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	74	16.713	0.000	
	U	235	1732	3.932	0.000	
	U	238	452172	0.728	0.000	
	U 232	232	245	5.534	0.000	
	U 236	236	144	10.261	0.000	
┌	U-tot	238	453979	0.739	0.000	
└>	U233	233	4507	2.060	0.000	
	U233 IS	233	4507	2.060	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	74.334				ng/L
	U	235	1732.165				ng/L
	U	238	452172.103				ng/L
	U 232	232	245.337				ng/L
	U 236	236	143.668				ng/L
┌	U-tot	238	100.736	**20137.054**	282.73	1.4	ng/L
└>	U233	233	4507.451				ng/L
	U233 IS	233	4507.451	**89.356**	1.84	2.1	%R

010199

Quantitative Analysis - Summary Report

Sample ID: 473770d7D df4

Sample Date/Time: Thursday, September 29, 2011 11:45:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473770d7D df4.047
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	41	40.951	0.000	
	U	235	1690	1.850	0.000	
	U	238	453368	0.151	0.000	
	U 232	232	158	8.180	0.000	
	U 236	236	100	19.670	0.000	
┌	U-tot	238	455099	0.146	0.000	
└>	U233	233	4450	0.606	0.000	
	U233 IS	233	4450	0.606	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	40.667				ng/L
	U	235	1689.824				ng/L
	U	238	453368.166				ng/L
	U 232	232	157.668				ng/L
	U 236	236	99.667				ng/L
┌	U-tot	238	102.262	**20442.094**	113.55	0.6	ng/L
└>	U233	233	4450.422				ng/L
	U233 IS	233	4450.422	**88.225**	0.53	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: 473771d7 df4

Sample Date/Time: Thursday, September 29, 2011 11:47:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473771d7 df4.048
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	61	19.105	0.000	
	U	235	1865	3.679	0.000	
	U	238	491247	0.148	0.000	
	U 232	232	100	25.300	0.000	
	U 236	236	142	13.194	0.000	
┌	U-tot	238	493172	0.156	0.000	
└>	U233	233	4457	0.758	0.000	
	U233 IS	233	4457	0.758	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	60.667				ng/L
	U	235	1864.858				ng/L
	U	238	491246.619				ng/L
	U 232	232	100.334				ng/L
	U 236	236	142.001				ng/L
┌	U-tot	238	110.652	**22119.947**	135.30	0.6	ng/L
└>	U233	233	4457.092				ng/L
	U233 IS	233	4457.092	**88.357**	0.67	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473771d7D df4

Sample Date/Time: Thursday, September 29, 2011 11:49:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473771d7D df4.049
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	92	2.876	0.000	
	U	235	1874	4.754	0.000	
	U	238	503190	0.536	0.000	
	U 232	232	102	21.936	0.000	
	U 236	236	151	6.350	0.000	
┌	U-tot	238	505155	0.529	0.000	
└>	U233	233	4524	1.308	0.000	
	U233 IS	233	4524	1.308	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	92.000				ng/L
	U	235	1873.527				ng/L
	U	238	503189.535				ng/L
	U 232	232	101.667				ng/L
	U 236	236	151.335				ng/L
┌	U-tot	238	111.676	**22324.587**	403.99	1.8	ng/L
└>	U233	233	4524.126				ng/L
	U233 IS	233	4524.126	**89.686**	1.17	1.3	%R

010202

Quantitative Analysis - Summary Report

Sample ID: 473772d7 df4

Sample Date/Time: Thursday, September 29, 2011 11:52:13
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473772d7 df4.050
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	70	33.917	0.000	
	U	235	1675	3.870	0.000	
	U	238	452836	0.445	0.000	
	U 232	232	219	18.946	0.000	
	U 236	236	142	22.359	0.000	
[	U-tot	238	454582	0.430	0.000	
L>	U233	233	4468	0.355	0.000	
	U233 IS	233	4468	0.355	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	69.667				ng/L
	U	235	1675.488				ng/L
	U	238	452836.411				ng/L
	U 232	232	218.669				ng/L
	U 236	236	142.001				ng/L
[	U-tot	238	101.740	**20337.821**	123.70	0.6	ng/L
L>	U233	233	4468.098				ng/L
	U233 IS	233	4468.098	**88.575**	0.31	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Thursday, September 29, 2011 11:54:33
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.051
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	32	77.888	0.000	
U	235	19	86.911	0.000	
U	238	100	15.094	0.000	
U 232	232	33	63.636	0.000	
U 236	236	24	106.393	0.000	
U-tot	238	151	33.735	0.000	
U233	233	4402	2.609	0.000	
U233 IS	233	4402	2.609	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	31.667				ng/L
U	235	19.333				ng/L
U	238	100.334				ng/L
U 232	232	33.000				ng/L
U 236	236	24.000				ng/L
U-tot	238	0.034	**-0.742**	2.15	289.7	ng/L
U233	233	4401.733				ng/L
U233 IS	233	4401.733	**87.260**	2.28	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Thursday, September 29, 2011 11:56:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\critotU.052
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	97.329	0.000	
	U	235	51	84.899	0.000	
	U	238	1144	5.564	0.000	
	U 232	232	52	93.344	0.000	
	U 236	236	44	113.841	0.000	
┌	U-tot	238	1242	12.239	0.000	
└>	U233	233	4640	1.531	0.000	
	U233 IS	233	4640	1.531	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	47.334				ng/L
	U	235	50.667				ng/L
	U	238	1144.072				ng/L
	U 232	232	52.000				ng/L
	U 236	236	44.000				ng/L
┌	U-tot	238	0.267	**45.899**	5.84	12.7	ng/L
└>	U233	233	4640.184				ng/L
	U233 IS	233	4640.184	**91.987**	1.41	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Thursday, September 29, 2011 11:59:13
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccv.053
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	78	55.505	0.000	
	U	235	1322	3.349	0.000	
	U	238	175994	0.791	0.000	
	U 232	232	54	81.334	0.000	
	U 236	236	173	33.364	0.000	
┌	U-tot	238	177394	0.762	0.000	
└>	U233	233	4590	0.681	0.000	
	U233 IS	233	4590	0.681	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	77.667				ng/L
	U	235	1322.430				ng/L
	U	238	175993.967				ng/L
	U 232	232	54.000				ng/L
	U 236	236	173.335				ng/L
┌	U-tot	238	38.646	**7720.697**	13.59	0.2	ng/L
└>	U233	233	4590.159				ng/L
	U233 IS	233	4590.159	**90.995**	0.62	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Thursday, September 29, 2011 12:01:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccb.054
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	55	76.125	0.000	
	U	235	51	76.345	0.000	
	U	238	103	33.646	0.000	
	U 232	232	55	89.147	0.000	
	U 236	236	54	74.814	0.000	
┌	U-tot	238	209	55.105	0.000	
└>	U233	233	4424	2.790	0.000	
	U233 IS	233	4424	2.790	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	55.000				ng/L
	U	235	51.000				ng/L
	U	238	103.001				ng/L
	U 232	232	55.000				ng/L
	U 236	236	54.334				ng/L
┌	U-tot	238	0.047	**1.797**	5.09	283.2	ng/L
└>	U233	233	4424.410				ng/L
	U233 IS	233	4424.410	**87.709**	2.45	2.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473772d7D df4

Sample Date/Time: Thursday, September 29, 2011 12:12:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473772d7D df4.055
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	55	64.993	0.000	
	U	235	1670	2.567	0.000	
	U	238	452460	0.142	0.000	
	U 232	232	162	12.392	0.000	
	U 236	236	122	37.906	0.000	
┌	U-tot	238	454184	0.158	0.000	
└>	U233	233	4358	0.345	0.000	
	U233 IS	233	4358	0.345	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	54.667				ng/L
	U	235	1669.820				ng/L
	U	238	452459.533				ng/L
	U 232	232	162.001				ng/L
	U 236	236	122.334				ng/L
┌	U-tot	238	104.210	**20831.649**	45.87	0.2	ng/L
└>	U233	233	4358.378				ng/L
	U233 IS	233	4358.378	**86.400**	0.30	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: 473778d7 df4

Sample Date/Time: Thursday, September 29, 2011 12:15:06
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473778d7 df4.056
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	53	54.183	0.000	
U	235	1442	2.778	0.000	
U	238	397380	0.814	0.000	
U 232	232	585	9.980	0.000	
U 236	236	101	31.121	0.000	
U-tot	238	398875	0.826	0.000	
U233	233	4418	0.603	0.000	
U233 IS	233	4418	0.603	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	52.667				ng/L
U	235	1442.448				ng/L
U	238	397380.031				ng/L
U 232	232	584.686				ng/L
U 236	236	101.001				ng/L
U-tot	238	90.282	**18046.500**	87.07	0.5	ng/L
U233	233	4418.073				ng/L
U233 IS	233	4418.073	**87.584**	0.53	0.6	%R

010209

Quantitative Analysis - Summary Report

Sample ID: 473778d7D df4

Sample Date/Time: Thursday, September 29, 2011 12:17:26
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473778d7D df4.057
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	50	39.752	0.000	
	U	235	1577	3.091	0.000	
	U	238	429332	0.696	0.000	
	U 232	232	127	3.541	0.000	
	U 236	236	99	21.268	0.000	
┌	U-tot	238	430960	0.703	0.000	
└>	U233	233	4404	1.673	0.000	
	U233 IS	233	4404	1.673	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	50.333				ng/L
	U	235	1577.470				ng/L
	U	238	429332.034				ng/L
	U 232	232	127.334				ng/L
	U 236	236	99.334				ng/L
┌	U-tot	238	97.880	**19565.928**	460.70	2.4	ng/L
└>	U233	233	4404.067				ng/L
	U233 IS	233	4404.067	**87.306**	1.46	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473045d7 df4

Sample Date/Time: Thursday, September 29, 2011 12:19:47
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473045d7 df4.058
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	49	41.164	0.000	
	U	235	1937	1.175	0.000	
	U	238	515050	0.378	0.000	
	U 232	232	183	13.651	0.000	
	U 236	236	117	28.690	0.000	
┌	U-tot	238	517035	0.382	0.000	
└>	U233	233	4386	1.086	0.000	
	U233 IS	233	4386	1.086	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	48.667				ng/L
	U	235	1936.540				ng/L
	U	238	515050.084				ng/L
	U 232	232	183.335				ng/L
	U 236	236	116.667				ng/L
┌	U-tot	238	117.883	**23565.990**	309.32	1.3	ng/L
└>	U233	233	4386.391				ng/L
	U233 IS	233	4386.391	**86.956**	0.94	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 473045d7D df4

Sample Date/Time: Thursday, September 29, 2011 12:22:09
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473045d7D df4.059
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	48	50.364	0.000	
	U	235	1961	2.719	0.000	
	U	238	501525	0.240	0.000	
	U 232	232	99	19.030	0.000	
	U 236	236	110	23.052	0.000	
┌	U-tot	238	503534	0.247	0.000	
└>	U233	233	4330	2.612	0.000	
	U233 IS	233	4330	2.612	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	47.667				ng/L
	U	235	1960.878				ng/L
	U	238	501525.387				ng/L
	U 232	232	99.334				ng/L
	U 236	236	110.001				ng/L
┌	U-tot	238	116.354	**23260.177**	649.73	2.8	ng/L
└>	U233	233	4329.698				ng/L
	U233 IS	233	4329.698	**85.832**	2.24	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd10 df4

Sample Date/Time: Thursday, September 29, 2011 12:24:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\Blankd10 df4.060
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	59	56.008	0.000	
U	235	1921	1.745	0.000	
U	238	568624	0.606	0.000	
U 232	232	51	58.562	0.000	
U 236	236	136	23.430	0.000	
┌ U-tot	238	570604	0.615	0.000	
└> U233	233	4379	0.951	0.000	
U233 IS	233	4379	0.951	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	59.334				ng/L
U	235	1920.536				ng/L
U	238	568624.458				ng/L
U 232	232	51.000				ng/L
U 236	236	136.334				ng/L
┌ U-tot	238	130.297	**26048.402**	162.56	0.6	ng/L
└> U233	233	4379.388				ng/L
U233 IS	233	4379.388	**86.817**	0.83	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d10 df4

Sample Date/Time: Thursday, September 29, 2011 12:26:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473754d10 df4.061
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	44	13.804	0.000	
U	235	1640	1.743	0.000	
U	238	468378	0.619	0.000	
U 232	232	380	9.701	0.000	
U 236	236	103	9.853	0.000	
U-tot	238	470062	0.618	0.000	
U233	233	4074	1.332	0.000	
U233 IS	233	4074	1.332	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	43.667				ng/L
U	235	1640.148				ng/L
U	238	468378.057				ng/L
U 232	232	380.341				ng/L
U 236	236	103.001				ng/L
U-tot	238	115.391	**23067.472**	393.29	1.7	ng/L
U233	233	4074.246				ng/L
U233 IS	233	4074.246	**80.768**	1.08	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d10L df20

Sample Date/Time: Thursday, September 29, 2011 12:29:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473754d10L df20.062
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	35	46.705	0.000	
	U	235	361	6.415	0.000	
	U	238	99111	0.492	0.000	
	U 232	232	101	24.013	0.000	
	U 236	236	38	33.721	0.000	
┌	U-tot	238	99507	0.457	0.000	
└>	U233	233	4270	1.230	0.000	
	U233 IS	233	4270	1.230	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	35.333				ng/L
	U	235	361.341				ng/L
	U	238	99110.674				ng/L
	U 232	232	100.667				ng/L
	U 236	236	37.667				ng/L
┌	U-tot	238	23.304	**4652.555**	45.74	1.0	ng/L
└>	U233	233	4270.336				ng/L
	U233 IS	233	4270.336	**84.655**	1.04	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Thursday, September 29, 2011 12:31:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.063
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	40	44.411	0.000	
	U	235	34	54.471	0.000	
	U	238	81	18.936	0.000	
	U 232	232	29	59.862	0.000	
	U 236	236	29	59.825	0.000	
[	U-tot	238	154	32.276	0.000	
L>	U233	233	4342	1.237	0.000	
	U233 IS	233	4342	1.237	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	39.667				ng/L
	U	235	34.000				ng/L
	U	238	80.667				ng/L
	U 232	232	29.333				ng/L
	U 236	236	29.000				ng/L
[	U-tot	238	0.035	**-0.490**	2.23	453.9	ng/L
L>	U233	233	4342.037				ng/L
	U233 IS	233	4342.037	**86.076**	1.06	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Thursday, September 29, 2011 12:33:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\critotU.064
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	41	67.756	0.000	
U	235	52	67.891	0.000	
U	238	1111	5.795	0.000	
U 232	232	33	89.057	0.000	
U 236	236	42	74.345	0.000	
┌ U-tot	238	1205	8.732	0.000	
└> U233	233	4469	1.777	0.000	
U233 IS	233	4469	1.777	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	41.333				ng/L
U	235	52.334				ng/L
U	238	1111.068				ng/L
U 232	232	32.667				ng/L
U 236	236	42.000				ng/L
┌ U-tot	238	0.270	**46.341**	4.89	10.6	ng/L
└> U233	233	4469.098				ng/L
U233 IS	233	4469.098	**88.595**	1.57	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Thursday, September 29, 2011 12:36:18
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccv.065
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	54	37.913	0.000	
	U	235	1299	2.002	0.000	
	U	238	170105	0.131	0.000	
	U 232	232	46	51.765	0.000	
	U 236	236	144	13.752	0.000	
┌	U-tot	238	171458	0.134	0.000	
└>	U233	233	4377	1.869	0.000	
	U233 IS	233	4377	1.869	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	54.334				ng/L
	U	235	1299.093				ng/L
	U	238	170105.049				ng/L
	U 232	232	46.000				ng/L
	U 236	236	143.668				ng/L
┌	U-tot	238	39.185	**7828.340**	155.27	2.0	ng/L
└>	U233	233	4376.720				ng/L
	U233 IS	233	4376.720	**86.764**	1.62	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Thursday, September 29, 2011 12:38:37
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccb.066
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	24	43.557	0.000	
	U	235	27	61.885	0.000	
	U	238	60	37.676	0.000	
	U 232	232	22	88.350	0.000	
	U 236	236	19	79.010	0.000	
┌	U-tot	238	111	40.700	0.000	
└>	U233	233	4319	2.929	0.000	
	U233 IS	233	4319	2.929	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	24.333				ng/L
	U	235	26.667				ng/L
	U	238	60.000				ng/L
	U 232	232	22.333				ng/L
	U 236	236	19.333				ng/L
┌	U-tot	238	0.026	**-2.477**	1.98	80.1	ng/L
└>	U233	233	4318.693				ng/L
	U233 IS	233	4318.693	**85.614**	2.51	2.9	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d10D df4

Sample Date/Time: Thursday, September 29, 2011 12:40:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473754d10D df4.067
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	38	81.627	0.000	
U	235	1461	0.247	0.000	
U	238	417524	0.740	0.000	
U 232	232	480	32.935	0.000	
U 236	236	103	29.464	0.000	
┌ U-tot	238	419022	0.739	0.000	
└> U233	233	3856	2.232	0.000	
U233 IS	233	3856	2.232	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	37.667				ng/L
U	235	1461.117				ng/L
U	238	417523.693				ng/L
U 232	232	480.014				ng/L
U 236	236	103.001				ng/L
┌ U-tot	238	108.704	**21730.359**	447.09	2.1	ng/L
└> U233	233	3855.818				ng/L
U233 IS	233	3855.818	**76.438**	1.71	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d10AS df4

Sample Date/Time: Thursday, September 29, 2011 12:43:10
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473754d10AS df4.068
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20 ul of 1° natural uranium
@ df100 (11-064-06, 075-Rad-5012)
in 10mL

TV = 20462 ng/L x df 4 = 81848 ng/L

9/30/11 NS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	73	26.457	0.000	
	U	235	4537	4.091	0.000	
	U	238	854075	0.870	0.000	
	U 232	232	459	8.935	0.000	
	U 236	236	123	30.279	0.000	
┌	U-tot	238	858685	0.888	0.000	
└>	U233	233	3879	2.407	0.000	
	U233 IS	233	3879	2.407	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	73.000				ng/L
	U	235	4536.800				ng/L
	U	238	854075.185				ng/L
	U 232	232	459.345				ng/L
	U 236	236	123.001				ng/L
┌	U-tot	238	221.400	**44266.636**	793.86	1.8	ng/L
└>	U233	233	3879.495				ng/L
	U233 IS	233	3879.495	**76.907**	1.85	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Thursday, September 29, 2011 12:45:28
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.069
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	45	78.912	0.000	
	U	235	43	97.508	0.000	
	U	238	105	36.310	0.000	
	U 232	232	47	103.075	0.000	
	U 236	236	43	101.226	0.000	
┌	U-tot	238	193	59.233	0.000	
└>	U233	233	4246	1.737	0.000	
	U233 IS	233	4246	1.737	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	45.000				ng/L
	U	235	43.334				ng/L
	U	238	104.667				ng/L
	U 232	232	47.334				ng/L
	U 236	236	42.667				ng/L
┌	U-tot	238	0.045	**1.450**	5.20	358.7	ng/L
└>	U233	233	4246.325				ng/L
	U233 IS	233	4246.325	**84.179**	1.46	1.7	%R

010222

Quantitative Analysis - Summary Report

Sample ID: 473755d10 df4

Sample Date/Time: Thursday, September 29, 2011 12:47:47
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473755d10 df4.070
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	62	23.044	0.000	
	U	235	1544	1.231	0.000	
	U	238	409875	0.231	0.000	
	U 232	232	606	8.862	0.000	
	U 236	236	127	16.795	0.000	
⌈	U-tot	238	411482	0.232	0.000	
⌊>	U233	233	4202	1.369	0.000	
	U233 IS	233	4202	1.369	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	62.334				ng/L
	U	235	1544.465				ng/L
	U	238	409874.851				ng/L
	U 232	232	606.020				ng/L
	U 236	236	127.334				ng/L
⌈	U-tot	238	97.932	**19576.240**	306.48	1.6	ng/L
⌊>	U233	233	4202.304				ng/L
	U233 IS	233	4202.304	**83.306**	1.14	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: 473755d10D df4

Sample Date/Time: Thursday, September 29, 2011 12:50:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473755d10D df4.071
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	83	34.983	0.000	
	U	235	1554	2.092	0.000	
	U	238	403658	0.730	0.000	
	U 232	232	651	4.408	0.000	
	U 236	236	142	24.669	0.000	
┌	U-tot	238	405295	0.739	0.000	
└>	U233	233	4348	4.210	0.000	
	U233 IS	233	4348	4.210	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	82.667				ng/L
	U	235	1554.133				ng/L
	U	238	403658.015				ng/L
	U 232	232	651.357				ng/L
	U 236	236	141.668				ng/L
┌	U-tot	238	93.308	**18651.603**	679.70	3.6	ng/L
└>	U233	233	4348.041				ng/L
	U233 IS	233	4348.041	**86.195**	3.63	4.2	%R

Quantitative Analysis - Summary Report

Sample ID: 473756d10 df2
Sample Date/Time: Thursday, September 29, 2011 12:52:22
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473756d10 df2.072
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	66	46.429	0.000	
	U	235	1648	3.552	0.000	
	U	238	419635	0.355	0.000	
	U 232	232	281	2.313	0.000	
	U 236	236	120	44.266	0.000	
[	U-tot	238	421349	0.347	0.000	
L>	U233	233	4208	3.254	0.000	
	U233 IS	233	4208	3.254	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	66.000				ng/L
	U	235	1647.816				ng/L
	U	238	419635.416				ng/L
	U 232	232	281.338				ng/L
	U 236	236	120.334				ng/L
[	U-tot	238	100.196	**20028.944**	597.19	3.0	ng/L
L>	U233	233	4207.974				ng/L
	U233 IS	233	4207.974	**83.419**	2.71	3.3	%R

Quantitative Analysis - Summary Report

Sample ID: 473756d10D df2

Sample Date/Time: Thursday, September 29, 2011 12:54:40
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473756d10D df2.073
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	44	47.619	0.000	
	U	235	1764	2.584	0.000	
	U	238	468393	0.225	0.000	
	U 232	232	264	3.613	0.000	
	U 236	236	104	30.888	0.000	
[	U-tot	238	470201	0.232	0.000	
L>	U233	233	4191	1.040	0.000	
	U233 IS	233	4191	1.040	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	44.000				ng/L
	U	235	1764.171				ng/L
	U	238	468393.229				ng/L
	U 232	232	264.004				ng/L
	U 236	236	103.667				ng/L
[	U-tot	238	112.192	**22427.757**	185.75	0.8	ng/L
L>	U233	233	4191.299				ng/L
	U233 IS	233	4191.299	**83.088**	0.86	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 473757d10 df4

Sample Date/Time: Thursday, September 29, 2011 12:56:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473757d10 df4.074
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	43	74.146	0.000	
U	235	1472	1.502	0.000	
U	238	361252	0.140	0.000	
U 232	232	179	29.020	0.000	
U 236	236	88	32.401	0.000	
┌ U-tot	238	362767	0.141	0.000	
└> U233	233	4181	3.182	0.000	
U233 IS	233	4181	3.182	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	43.333				ng/L
U	235	1472.119				ng/L
U	238	361251.834				ng/L
U 232	232	179.335				ng/L
U 236	236	88.000				ng/L
┌ U-tot	238	86.829	**17355.844**	520.45	3.0	ng/L
└> U233	233	4180.628				ng/L
U233 IS	233	4180.628	**82.877**	2.64	3.2	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Thursday, September 29, 2011 12:59:18
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.075
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	54	44.096	0.000	
	U	235	47	72.235	0.000	
	U	238	108	26.759	0.000	
	U 232	232	53	68.574	0.000	
	U 236	236	39	75.861	0.000	
⌈	U-tot	238	209	41.373	0.000	
↳	U233	233	4280	1.318	0.000	
	U233 IS	233	4280	1.318	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	54.000				ng/L
	U	235	46.667				ng/L
	U	238	108.334				ng/L
	U 232	232	52.667				ng/L
	U 236	236	39.333				ng/L
⌈	U-tot	238	0.049	**2.174**	4.03	185.2	ng/L
↳	U233	233	4280.007				ng/L
	U233 IS	233	4280.007	**84.847**	1.12	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Thursday, September 29, 2011 13:01:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\critotU.076
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	41	60.091	0.000	
	U	235	46	64.760	0.000	
	U	238	1075	5.421	0.000	
	U 232	232	35	84.921	0.000	
	U 236	236	41	76.596	0.000	
⌈	U-tot	238	1163	9.582	0.000	
└>	U233	233	4539	0.680	0.000	
	U233 IS	233	4539	0.680	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	41.000				ng/L
	U	235	46.333				ng/L
	U	238	1075.397				ng/L
	U 232	232	35.333				ng/L
	U 236	236	41.333				ng/L
⌈	U-tot	238	0.256	**43.623**	4.62	10.6	ng/L
└>	U233	233	4539.466				ng/L
	U233 IS	233	4539.466	**89.990**	0.61	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Thursday, September 29, 2011 13:03:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccv.077
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	45.474	0.000	
	U	235	1266	3.527	0.000	
	U	238	172813	0.559	0.000	
	U 232	232	41	79.969	0.000	
	U 236	236	132	17.850	0.000	
┌	U-tot	238	174126	0.584	0.000	
└>	U233	233	4362	1.531	0.000	
	U233 IS	233	4362	1.531	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	46.667				ng/L
	U	235	1266.422				ng/L
	U	238	172813.109				ng/L
	U 232	232	41.000				ng/L
	U 236	236	131.668				ng/L
┌	U-tot	238	39.923	**7975.905**	86.35	1.1	ng/L
└>	U233	233	4362.046				ng/L
	U233 IS	233	4362.046	**86.473**	1.32	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Thursday, September 29, 2011 13:06:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccb.078
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	40	48.984	0.000	
	U	235	36	55.486	0.000	
	U	238	71	27.195	0.000	
	U 232	232	28	61.587	0.000	
	U 236	236	37	63.326	0.000	
[	U-tot	238	148	38.513	0.000	
L>	U233	233	4260	0.342	0.000	
	U233 IS	233	4260	0.342	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	40.333				ng/L
	U	235	36.000				ng/L
	U	238	71.334				ng/L
	U 232	232	27.667				ng/L
	U 236	236	37.000				ng/L
[	U-tot	238	0.035	**-0.652**	2.66	407.4	ng/L
L>	U233	233	4259.664				ng/L
	U233 IS	233	4259.664	**84.443**	0.29	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: 473757d10D df4
Sample Date/Time: Thursday, September 29, 2011 13:08:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473757d10D df4.079
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	23	25.471	0.000	
	U	235	1319	0.263	0.000	
	U	238	325098	0.526	0.000	
	U 232	232	120	0.833	0.000	
	U 236	236	64	10.098	0.000	
⌈	U-tot	238	326440	0.523	0.000	
⌊>	U233	233	4272	1.523	0.000	
	U233 IS	233	4272	1.523	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	22.667				ng/L
	U	235	1319.096				ng/L
	U	238	325098.210				ng/L
	U 232	232	120.001				ng/L
	U 236	236	63.667				ng/L
⌈	U-tot	238	76.433	**15277.009**	271.64	1.8	ng/L
⌊>	U233	233	4271.670				ng/L
	U233 IS	233	4271.670	**84.681**	1.29	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: 473758d10
Sample Date/Time: Thursday, September 29, 2011 13:10:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473758d10 .080
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	45	51.256	0.000	
	U	235	1705	5.884	0.000	
	U	238	452805	2.038	0.000	
	U 232	232	192	19.792	0.000	
	U 236	236	98	23.470	0.000	
┌	U-tot	238	454554	2.057	0.000	
└>	U233	233	3902	1.435	0.000	
	U233 IS	233	3902	1.435	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	45.000				ng/L
	U	235	1704.827				ng/L
	U	238	452804.647				ng/L
	U 232	232	192.002				ng/L
	U 236	236	98.001				ng/L
┌	U-tot	238	116.494	**23288.133**	450.90	1.9	ng/L
└>	U233	233	3902.171				ng/L
	U233 IS	233	3902.171	**77.356**	1.11	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: 473758d10D

Sample Date/Time: Thursday, September 29, 2011 13:13:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473758d10D.081
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	45	36.261	0.000	
	U	235	1535	4.194	0.000	
	U	238	387610	1.499	0.000	
	U 232	232	210	28.528	0.000	
	U 236	236	97	36.329	0.000	
┌	U-tot	238	389190	1.513	0.000	
└>	U233	233	3808	2.184	0.000	
	U233 IS	233	3808	2.184	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	44.667				ng/L
	U	235	1535.130				ng/L
	U	238	387610.307				ng/L
	U 232	232	210.003				ng/L
	U 236	236	97.334				ng/L
┌	U-tot	238	102.213	**20432.278**	233.99	1.1	ng/L
└>	U233	233	3808.131				ng/L
	U233 IS	233	3808.131	**75.492**	1.65	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: 473768d10 df4

Sample Date/Time: Thursday, September 29, 2011 13:15:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473768d10 df4.082
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	73	23.690	0.000	
	U	235	1608	2.116	0.000	
	U	238	448933	0.933	0.000	
	U 232	232	74	29.328	0.000	
	U 236	236	133	6.683	0.000	
[	U-tot	238	450613	0.927	0.000	
L>	U233	233	4233	0.253	0.000	
	U233 IS	233	4233	0.253	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	72.667				ng/L
	U	235	1607.809				ng/L
	U	238	448932.554				ng/L
	U 232	232	74.000				ng/L
	U 236	236	133.001				ng/L
[	U-tot	238	106.445	**21278.607**	209.80	1.0	ng/L
L>	U233	233	4233.319				ng/L
	U233 IS	233	4233.319	**83.921**	0.21	0.3	%R

010235

Quantitative Analysis - Summary Report

Sample ID: 473768d10D df4

Sample Date/Time: Thursday, September 29, 2011 13:17:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473768d10D df4.083
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	65	25.186	0.000	
	U	235	1521	4.597	0.000	
	U	238	420971	0.638	0.000	
	U 232	232	131	66.311	0.000	
	U 236	236	126	10.133	0.000	
[	U-tot	238	422557	0.648	0.000	
L>	U233	233	4297	2.136	0.000	
	U233 IS	233	4297	2.136	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	65.000				ng/L
	U	235	1521.127				ng/L
	U	238	420970.922				ng/L
	U 232	232	131.335				ng/L
	U 236	236	126.001				ng/L
[	U-tot	238	98.367	**19663.154**	310.31	1.6	ng/L
L>	U233	233	4296.682				ng/L
	U233 IS	233	4296.682	**85.177**	1.82	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: 473769d10 df4

Sample Date/Time: Thursday, September 29, 2011 13:20:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473769d10 df4.084
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	42	25.258	0.000	
	U	235	1442	3.255	0.000	
	U	238	389871	0.412	0.000	
	U 232	232	114	23.878	0.000	
	U 236	236	102	26.853	0.000	
[	U-tot	238	391355	0.419	0.000	
L>	U233	233	4228	1.034	0.000	
	U233 IS	233	4228	1.034	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	42.333				ng/L
	U	235	1441.781				ng/L
	U	238	389871.233				ng/L
	U 232	232	114.001				ng/L
	U 236	236	101.667				ng/L
[	U-tot	238	92.572	**18504.446**	267.77	1.4	ng/L
L>	U233	233	4227.983				ng/L
	U233 IS	233	4227.983	**83.815**	0.87	1.0	%R

010237

Quantitative Analysis - Summary Report

Sample ID: 473769d10D df4

Sample Date/Time: Thursday, September 29, 2011 13:22:39
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473769d10D df4.085
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	42	44.600	0.000	
	U	235	1448	1.800	0.000	
	U	238	388564	0.929	0.000	
	U 232	232	73	14.453	0.000	
	U 236	236	89	19.610	0.000	
┌	U-tot	238	390054	0.934	0.000	
└>	U233	233	4231	0.970	0.000	
	U233 IS	233	4231	0.970	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	41.667				ng/L
	U	235	1448.115				ng/L
	U	238	388564.388				ng/L
	U 232	232	73.334				ng/L
	U 236	236	88.667				ng/L
┌	U-tot	238	92.191	**18428.225**	302.60	1.6	ng/L
└>	U233	233	4231.318				ng/L
	U233 IS	233	4231.318	**83.882**	0.81	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 473770d10 df4

Sample Date/Time: Thursday, September 29, 2011 13:25:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473770d10 df4.086
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	36	56.495	0.000	
U	235	1692	2.085	0.000	
U	238	441139	0.751	0.000	
U 232	232	107	11.341	0.000	
U 236	236	102	17.075	0.000	
┌ U-tot	238	442867	0.760	0.000	
└> U233	233	4307	0.845	0.000	
U233 IS	233	4307	0.845	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	36.333				ng/L
U	235	1691.824				ng/L
U	238	441139.039				ng/L
U 232	232	106.667				ng/L
U 236	236	102.334				ng/L
┌ U-tot	238	102.821	**20553.839**	213.74	1.0	ng/L
└> U233	233	4307.354				ng/L
U233 IS	233	4307.354	**85.389**	0.72	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Thursday, September 29, 2011 13:27:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.087
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	29	73.532	0.000	
	U	235	19	124.604	0.000	
	U	238	79	52.109	0.000	
	U 232	232	26	94.582	0.000	
	U 236	236	15	106.233	0.000	
[	U-tot	238	127	67.933	0.000	
L>	U233	233	4284	2.582	0.000	
	U233 IS	233	4284	2.582	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	28.667				ng/L
	U	235	19.333				ng/L
	U	238	78.667				ng/L
	U 232	232	26.333				ng/L
	U 236	236	15.333				ng/L
[	U-tot	238	0.029	**-1.721**	3.85	223.8	ng/L
L>	U233	233	4284.343				ng/L
	U233 IS	233	4284.343	**84.933**	2.19	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Thursday, September 29, 2011 13:29:43
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\critotU.088
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	49	26.687	0.000	
	U	235	60	22.048	0.000	
	U	238	1129	2.737	0.000	
	U 232	232	49	12.245	0.000	
	U 236	236	45	24.762	0.000	
⌈	U-tot	238	1238	4.594	0.000	
└>	U233	233	4450	0.715	0.000	
	U233 IS	233	4450	0.715	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	49.000				ng/L
	U	235	60.000				ng/L
	U	238	1128.737				ng/L
	U 232	232	49.000				ng/L
	U 236	236	44.667				ng/L
⌈	U-tot	238	0.278	**48.048**	2.90	6.0	ng/L
└>	U233	233	4450.422				ng/L
	U233 IS	233	4450.422	**88.225**	0.63	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Thursday, September 29, 2011 13:32:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccv.089
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	49	13.798	0.000	
U	235	1255	1.641	0.000	
U	238	170586	0.676	0.000	
U 232	232	33	38.762	0.000	
U 236	236	134	9.935	0.000	
U-tot	238	171890	0.675	0.000	
U233	233	4407	2.284	0.000	
U233 IS	233	4407	2.284	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	49.333				ng/L
U	235	1255.420				ng/L
U	238	170585.641				ng/L
U 232	232	32.667				ng/L
U 236	236	133.668				ng/L
U-tot	238	39.015	**7794.359**	196.19	2.5	ng/L
U233	233	4407.402				ng/L
U233 IS	233	4407.402	**87.372**	2.00	2.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Thursday, September 29, 2011 13:34:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccb.090
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	24.691	0.000	
	U	235	7	79.540	0.000	
	U	238	54	6.544	0.000	
	U 232	232	9	34.442	0.000	
	U 236	236	6	119.556	0.000	
┌	U-tot	238	76	3.947	0.000	
└>	U233	233	4236	0.674	0.000	
	U233 IS	233	4236	0.674	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	15.333				ng/L
	U	235	7.000				ng/L
	U	238	53.667				ng/L
	U 232	232	9.333				ng/L
	U 236	236	6.333				ng/L
┌	U-tot	238	0.018	**-3.992**	0.16	4.1	ng/L
└>	U233	233	4235.653				ng/L
	U233 IS	233	4235.653	**83.967**	0.57	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473770d10D df4

Sample Date/Time: Thursday, September 29, 2011 13:36:42
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473770d10D df4.091
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	56	56.441	0.000	
	U	235	1673	4.306	0.000	
	U	238	447439	0.711	0.000	
	U 232	232	82	35.155	0.000	
	U 236	236	110	32.321	0.000	
⌈	U-tot	238	449167	0.723	0.000	
⌊>	U233	233	4320	1.391	0.000	
	U233 IS	233	4320	1.391	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	56.000				ng/L
	U	235	1672.821				ng/L
	U	238	447438.619				ng/L
	U 232	232	82.000				ng/L
	U 236	236	110.001				ng/L
⌈	U-tot	238	103.988	**20787.319**	353.11	1.7	ng/L
⌊>	U233	233	4320.026				ng/L
	U233 IS	233	4320.026	**85.640**	1.19	1.4	%R

010244

Quantitative Analysis - Summary Report

Sample ID: 473771d10 df4

Sample Date/Time: Thursday, September 29, 2011 13:39:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473771d10 df4.092
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	35	52.594	0.000	
	U	235	1725	0.659	0.000	
	U	238	466446	0.613	0.000	
	U 232	232	111	44.829	0.000	
	U 236	236	89	25.924	0.000	
⌈	U-tot	238	468207	0.613	0.000	
⌊>	U233	233	4278	1.806	0.000	
	U233 IS	233	4278	1.806	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	35.333				ng/L
	U	235	1725.497				ng/L
	U	238	466446.438				ng/L
	U 232	232	111.001				ng/L
	U 236	236	89.334				ng/L
⌈	U-tot	238	109.472	**21883.837**	310.84	1.4	ng/L
⌊>	U233	233	4277.673				ng/L
	U233 IS	233	4277.673	**84.800**	1.53	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473771d10D df4

Sample Date/Time: Thursday, September 29, 2011 13:41:22
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473771d10D df4.093
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	32	38.172	0.000	
	U	235	1770	1.474	0.000	
	U	238	466477	1.356	0.000	
	U 232	232	74	50.437	0.000	
	U 236	236	100	16.127	0.000	
[	U-tot	238	468280	1.358	0.000	
L>	U233	233	4346	1.814	0.000	
	U233 IS	233	4346	1.814	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	32.333				ng/L
	U	235	1769.839				ng/L
	U	238	466477.381				ng/L
	U 232	232	74.000				ng/L
	U 236	236	99.667				ng/L
[	U-tot	238	107.746	**21538.867**	108.42	0.5	ng/L
L>	U233	233	4346.372				ng/L
	U233 IS	233	4346.372	**86.162**	1.56	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473772d10 df4
Sample Date/Time: Thursday, September 29, 2011 13:43:42
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473772d10 df4.094
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	49	62.291	0.000	
	U	235	1555	2.037	0.000	
	U	238	430116	0.621	0.000	
	U 232	232	186	16.405	0.000	
	U 236	236	105	24.634	0.000	
[	U-tot	238	431720	0.632	0.000	
L>	U233	233	4240	1.420	0.000	
	U233 IS	233	4240	1.420	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	49.334				ng/L
	U	235	1554.800				ng/L
	U	238	430115.746				ng/L
	U 232	232	186.002				ng/L
	U 236	236	105.001				ng/L
[	U-tot	238	101.821	**20353.933**	175.28	0.9	ng/L
L>	U233	233	4240.322				ng/L
	U233 IS	233	4240.322	**84.060**	1.19	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: 473772d10D df4

Sample Date/Time: Thursday, September 29, 2011 13:46:02
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473772d10D df4.095
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	34.242	0.000	
	U	235	1605	3.420	0.000	
	U	238	437698	1.211	0.000	
	U 232	232	132	16.921	0.000	
	U 236	236	114	13.245	0.000	
[	U-tot	238	439351	1.222	0.000	
L>	U233	233	4233	0.580	0.000	
	U233 IS	233	4233	0.580	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	47.000				ng/L
	U	235	1605.475				ng/L
	U	238	437698.145				ng/L
	U 232	232	131.668				ng/L
	U 236	236	114.334				ng/L
[	U-tot	238	103.798	**20749.301**	150.33	0.7	ng/L
L>	U233	233	4232.652				ng/L
	U233 IS	233	4232.652	**83.908**	0.49	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: 473778d10 df4

Sample Date/Time: Thursday, September 29, 2011 13:48:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473778d10 df4.096
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	57	36.967	0.000	
	U	235	1357	1.438	0.000	
	U	238	369366	0.437	0.000	
	U 232	232	253	3.834	0.000	
	U 236	236	101	16.926	0.000	
┌	U-tot	238	370780	0.431	0.000	
└>	U233	233	4256	2.212	0.000	
	U233 IS	233	4256	2.212	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	57.000				ng/L
	U	235	1356.768				ng/L
	U	238	369366.421				ng/L
	U 232	232	253.337				ng/L
	U 236	236	100.667				ng/L
┌	U-tot	238	87.146	**17419.322**	454.50	2.6	ng/L
└>	U233	233	4256.330				ng/L
	U233 IS	233	4256.330	**84.377**	1.87	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: 473778d10D df4
Sample Date/Time: Thursday, September 29, 2011 13:50:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473778d10D df4.097
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	60	13.229	0.000	
	U	235	1401	1.426	0.000	
	U	238	389821	0.121	0.000	
	U 232	232	172	19.318	0.000	
	U 236	236	117	0.990	0.000	
┌	U-tot	238	391283	0.118	0.000	
└>	U233	233	4377	2.503	0.000	
	U233 IS	233	4377	2.503	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	60.000				ng/L
	U	235	1401.108				ng/L
	U	238	389821.416				ng/L
	U 232	232	172.335				ng/L
	U 236	236	116.667				ng/L
┌	U-tot	238	89.437	**17877.465**	433.82	2.4	ng/L
└>	U233	233	4376.720				ng/L
	U233 IS	233	4376.720	**86.764**	2.17	2.5	%R

010250

Quantitative Analysis - Summary Report

Sample ID: 473045d10 df4

Sample Date/Time: Thursday, September 29, 2011 13:53:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473045d10 df4.098
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	41	29.572	0.000	
	U	235	1946	2.642	0.000	
	U	238	490393	0.702	0.000	
	U 232	232	289	7.583	0.000	
	U 236	236	97	18.557	0.000	
┌	U-tot	238	492380	0.709	0.000	
└>	U233	233	4313	2.431	0.000	
	U233 IS	233	4313	2.431	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	41.000				ng/L
	U	235	1945.875				ng/L
	U	238	490392.701				ng/L
	U 232	232	289.338				ng/L
	U 236	236	97.001				ng/L
┌	U-tot	238	114.187	**22826.718**	434.89	1.9	ng/L
└>	U233	233	4313.357				ng/L
	U233 IS	233	4313.357	**85.508**	2.08	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Thursday, September 29, 2011 13:55:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.099
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	44	33.479	0.000	
U	235	45	44.005	0.000	
U	238	104	28.848	0.000	
U 232	232	43	41.560	0.000	
U 236	236	41	47.307	0.000	
┌ U-tot	238	192	32.162	0.000	
└> U233	233	4249	0.554	0.000	
U233 IS	233	4249	0.554	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	44.000				ng/L
U	235	44.667				ng/L
U	238	103.667				ng/L
U 232	232	43.333				ng/L
U 236	236	41.333				ng/L
┌ U-tot	238	0.045	**1.462**	2.86	195.9	ng/L
└> U233	233	4248.659				ng/L
U233 IS	233	4248.659	**84.225**	0.47	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Thursday, September 29, 2011 13:57:47
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\critotU.100
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	37	68.200	0.000	
	U	235	48	57.980	0.000	
	U	238	1079	4.959	0.000	
	U 232	232	39	61.979	0.000	
	U 236	236	40	83.217	0.000	
┌	U-tot	238	1164	8.998	0.000	
└>	U233	233	4413	1.089	0.000	
	U233 IS	233	4413	1.089	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	36.667				ng/L
	U	235	48.333				ng/L
	U	238	1079.064				ng/L
	U 232	232	38.667				ng/L
	U 236	236	40.000				ng/L
┌	U-tot	238	0.264	**45.137**	4.19	9.3	ng/L
└>	U233	233	4413.071				ng/L
	U233 IS	233	4413.071	**87.485**	0.95	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Thursday, September 29, 2011 14:00:06
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccv.101
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	52	53.583	0.000	
	U	235	1274	3.808	0.000	
	U	238	169733	0.729	0.000	
	U 232	232	32	52.608	0.000	
	U 236	236	144	17.503	0.000	
┌	U-tot	238	171060	0.755	0.000	
└>	U233	233	4346	3.487	0.000	
	U233 IS	233	4346	3.487	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	52.334				ng/L
	U	235	1274.423				ng/L
	U	238	169732.909				ng/L
	U 232	232	32.333				ng/L
	U 236	236	143.668				ng/L
┌	U-tot	238	39.389	**7869.190**	284.28	3.6	ng/L
└>	U233	233	4346.373				ng/L
	U233 IS	233	4346.373	**86.162**	3.00	3.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Thursday, September 29, 2011 14:02:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccb.102
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	45	26.593	0.000	
U	235	43	32.558	0.000	
U	238	94	18.911	0.000	
U 232	232	38	27.850	0.000	
U 236	236	43	20.812	0.000	
U-tot	238	182	21.974	0.000	
U233	233	4302	0.985	0.000	
U233 IS	233	4302	0.985	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	45.333				ng/L
U	235	43.000				ng/L
U	238	94.000				ng/L
U 232	232	38.000				ng/L
U 236	236	43.333				ng/L
U-tot	238	0.042	**0.883**	1.78	201.8	ng/L
U233	233	4302.351				ng/L
U233 IS	233	4302.351	**85.290**	0.84	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 473045d10D df4

Sample Date/Time: Thursday, September 29, 2011 14:04:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\473045d10D df4.103
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	57	72.992	0.000	
U	235	1975	1.772	0.000	
U	238	510357	0.190	0.000	
U 232	232	602	4.271	0.000	
U 236	236	128	40.237	0.000	
┌ U-tot	238	512389	0.197	0.000	
└> U233	233	4280	1.904	0.000	
U233 IS	233	4280	1.904	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	57.000				ng/L
U	235	1974.881				ng/L
U	238	510356.753				ng/L
U 232	232	601.687				ng/L
U 236	236	128.334				ng/L
┌ U-tot	238	119.746	**23938.393**	458.67	1.9	ng/L
└> U233	233	4280.008				ng/L
U233 IS	233	4280.008	**84.847**	1.62	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Thursday, September 29, 2011 14:07:07
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\zzz.104
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	58	8.628	0.000	
	U	235	58	21.682	0.000	
	U	238	120	7.765	0.000	
	U 232	232	47	21.141	0.000	
	U 236	236	45	27.756	0.000	
┌	U-tot	238	236	11.181	0.000	
└>	U233	233	4442	1.212	0.000	
	U233 IS	233	4442	1.212	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	58.334				ng/L
	U	235	57.667				ng/L
	U	238	119.667				ng/L
	U 232	232	46.667				ng/L
	U 236	236	45.000				ng/L
┌	U-tot	238	0.053	**3.024**	1.13	37.4	ng/L
└>	U233	233	4442.419				ng/L
	U233 IS	233	4442.419	**88.066**	1.07	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Thursday, September 29, 2011 14:09:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\critotU.105
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	38	43.973	0.000	
	U	235	40	36.802	0.000	
	U	238	1085	2.094	0.000	
	U 232	232	31	50.496	0.000	
	U 236	236	26	60.901	0.000	
┌	U-tot	238	1163	2.232	0.000	
└>	U233	233	4549	2.370	0.000	
	U233 IS	233	4549	2.370	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	37.667				ng/L
	U	235	40.333				ng/L
	U	238	1085.398				ng/L
	U 232	232	31.333				ng/L
	U 236	236	25.667				ng/L
┌	U-tot	238	0.256	**43.569**	1.05	2.4	ng/L
└>	U233	233	4549.138				ng/L
	U233 IS	233	4549.138	**90.182**	2.14	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Thursday, September 29, 2011 14:11:46
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccv.106
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	74	72.973	0.000	
	U	235	1359	1.987	0.000	
	U	238	175152	1.032	0.000	
	U 232	232	59	82.179	0.000	
	U 236	236	183	24.668	0.000	
⌈	U-tot	238	176586	1.045	0.000	
└>	U233	233	4506	2.343	0.000	
	U233 IS	233	4506	2.343	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	74.334				ng/L
	U	235	1359.435				ng/L
	U	238	175151.986				ng/L
	U 232	232	58.667				ng/L
	U 236	236	182.669				ng/L
⌈	U-tot	238	39.197	**7830.777**	121.75	1.6	ng/L
└>	U233	233	4506.117				ng/L
	U233 IS	233	4506.117	**89.329**	2.09	2.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Thursday, September 29, 2011 14:14:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 sep 3\ccb.107
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	100	27.645	0.000	
	U	235	86	17.957	0.000	
	U	238	150	15.591	0.000	
	U 232	232	86	34.014	0.000	
	U 236	236	101	15.174	0.000	
┌	U-tot	238	337	12.760	0.000	
└>	U233	233	4557	0.768	0.000	
	U233 IS	233	4557	0.768	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	100.334				ng/L
	U	235	86.334				ng/L
	U	238	150.335				ng/L
	U 232	232	86.334				ng/L
	U 236	236	100.667				ng/L
┌	U-tot	238	0.074	**7.199**	1.78	24.8	ng/L
└>	U233	233	4557.142				ng/L
	U233 IS	233	4557.142	**90.341**	0.69	0.8	%R

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SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 6/Jan 11

☒ 6020 TAP No. 01-0406-046 Rev15/Sep 11

☐ 6020a TAP No. 01-0406-046 Rev15/Sep 11

☐ TAP No. 01-0406-148 Rev 2/Dec 10

☐ Other

ICP-MS CALIB. STD. ID's — **TVs**

S0	11-095-07	
STD. 1	11-091-04	44933 ng/L
I. STD	02-415-08	0.2ppb
I. STD		

QC STD. ID's

ICV/CCV	11-097-05	7666 ng/L
UCL		
CRI	11-097-06	40 ng/L
ICSA	11-097-03	—
ICSAB	11-097-04	20444 ng/L

ANALYSIS

Utot

IDL Date: 08/10/2011
STD's IV, CCS 1-6 expire 10/1/12
STD's Spex, ME 1-4 expire 9/15/12

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526-05.006	Fluor	110825-10 110915-9	10/10/11	~~liquid~~ RE JR 10/13/11 SO	15 00132- 15 00140

INSTRUMENT: DRCII

FILENAME: 111010.rep

Analyst: M. Seeler

Date: 10/10/11

☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Monday, October 10, 2011 08:39:24
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Oct\Daily Performance Check.885
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

NSeiler
10/10/11

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24.0	6820.2	6820.158	68.693	1.0
In	114.9	26373.8	26373.803	198.238	0.8
U	238.1	26592.2	26592.238	188.632	0.7
> Ce	139.9	26000.8	26000.796	73.209	0.3
CeO	155.9	1274.1	0.049	0.001	2.4
> Ba	137.9	213310.2	213310.180	1776.561	0.8
Ba++	69.0	5247.9	0.025	0.000	0.9
Bkgd	220.0	3.0	3.000	1.034	34.5
Bkgd	8.5	44.9	44.867	2.523	5.6

Current Optimization File Data

Current Value	Description
1.00	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
7.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

10/13/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	4.5	533.0
Co	59	45	5.0	15970.0
In	115	45	5.8	26132.5

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Monday, October 10, 2011 08:39:24
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Oct\Daily Performance Check.885
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

NSeiler
10/10/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2760	2035	0.713	
Mg	23.985	23.925	5650	2046	0.687	
Ar2	75.930	75.925	18319	2079	0.694	
In	114.904	114.925	27802	2108	0.690	
Ce	139.905	139.875	33887	2117	0.697	
Pb	207.977	208.025	50482	2157	0.705	
Th	232.038	232.075	56335	2176	0.699	
U	238.050	238.025	57798	2184	0.696	

Report Date/Time: Monday, October 10, 2011 09:01:43
Page 1

Quantitative Analysis - Summary Report

Sample ID: S-0

Sample Date/Time: Monday, October 10, 2011 12:28:32
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\S-0.896
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	24.037	0.000	
	U	235	13	33.530	0.000	
	U	238	29	5.973	0.000	
	U 232	232	16	25.490	0.000	
	U 236	236	8	32.825	0.000	
⌈	U-tot	238	57	12.281	0.000	
└>	U233	233	4299	2.026	0.000	
	U233 IS	233	4299	2.026	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	15.000				ng/L
	U	235	13.000				ng/L
	U	238	29.000				ng/L
	U 232	232	16.333				ng/L
	U 236	236	7.667				ng/L
⌈	U-tot	238	0.013				ng/L
└>	U233	233	4299.017				ng/L
	U233 IS	233	4299.017	**100.000**	2.03	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: S-1
Sample Date/Time: Monday, October 10, 2011 12:30:50
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\S-1.897
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	63	8.838	0.000	
	U	235	7161	2.475	0.000	
	U	238	986798	0.846	0.000	
	U 232	232	10	15.802	0.000	
	U 236	236	219	8.134	0.000	
⌈	U-tot	238	994022	0.850	0.000	
L>	U233	233	4445	1.372	0.000	
	U233 IS	233	4445	1.372	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	63.000				ng/L
	U	235	7161.154				ng/L
	U	238	986798.097				ng/L
	U 232	232	9.667				ng/L
	U 236	236	218.669				ng/L
⌈	U-tot	238	223.654	**44933.000**	407.69	0.9	ng/L
L>	U233	233	4444.753				ng/L
	U233 IS	233	4444.753	**103.390**	1.42	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Monday, October 10, 2011 12:33:09
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\icv.898
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	29	24.662	0.000	
	U	235	1344	3.200	0.000	
	U	238	175547	0.486	0.000	
	U 232	232	16	24.166	0.000	
	U 236	236	133	12.393	0.000	
⌈	U-tot	238	176920	0.506	0.000	
L>	U233	233	4347	1.935	0.000	
	U233 IS	233	4347	1.935	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	29.333				ng/L
	U	235	1344.099				ng/L
	U	238	175546.734				ng/L
	U 232	232	15.667				ng/L
	U 236	236	132.668				ng/L
⌈	U-tot	238	40.710	**8176.597**	121.92	1.5	ng/L
L>	U233	233	4346.706				ng/L
	U233 IS	233	4346.706	**101.109**	1.96	1.9	%R

010266

Quantitative Analysis - Summary Report

Sample ID: icb

Sample Date/Time: Monday, October 10, 2011 12:35:28
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\icb.899
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	20	15.534	0.000	
	U	235	10	5.587	0.000	
	U	238	51	21.209	0.000	
	U 232	232	17	46.632	0.000	
	U 236	236	11	13.478	0.000	
⌈	U-tot	238	81	14.238	0.000	
└>	U233	233	4195	0.321	0.000	
	U233 IS	233	4195	0.321	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	19.667				ng/L
	U	235	10.333				ng/L
	U	238	51.000				ng/L
	U 232	232	17.333				ng/L
	U 236	236	11.333				ng/L
⌈	U-tot	238	0.019	**1.218**	0.55	45.1	ng/L
└>	U233	233	4194.968				ng/L
	U233 IS	233	4194.968	**97.580**	0.31	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, October 10, 2011 12:37:47
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\critotU.900
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	19	13.482	0.000	
	U	235	20	30.000	0.000	
	U	238	938	1.879	0.000	
	U 232	232	15	17.638	0.000	
	U 236	236	9	38.490	0.000	
┌	U-tot	238	976	1.301	0.000	
└>	U233	233	4349	2.212	0.000	
	U233 IS	233	4349	2.212	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	18.667				ng/L
	U	235	20.000				ng/L
	U	238	937.715				ng/L
	U 232	232	15.000				ng/L
	U 236	236	9.000				ng/L
┌	U-tot	238	0.225	**42.451**	0.41	1.0	ng/L
└>	U233	233	4349.040				ng/L
	U233 IS	233	4349.040	**101.164**	2.24	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: icsa
Sample Date/Time: Monday, October 10, 2011 12:40:07
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\icsa.901
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	15	20.000	0.000	
U	235	31	7.531	0.000	
U	238	438	8.208	0.000	
U 232	232	266	5.535	0.000	
U 236	236	7	31.225	0.000	
┌ U-tot	238	483	7.690	0.000	
└> U233	233	3148	1.796	0.000	
U233 IS	233	3148	1.796	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	15.000				ng/L
U	235	30.667				ng/L
U	238	437.677				ng/L
U 232	232	266.337				ng/L
U 236	236	6.667				ng/L
┌ U-tot	238	0.154	**28.226**	2.90	10.3	ng/L
└> U233	233	3147.545				ng/L
U233 IS	233	3147.545	**73.215**	1.31	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Monday, October 10, 2011 12:42:26
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\icsab.902
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	32	13.622	0.000	
	U	235	2372	1.193	0.000	
	U	238	324315	0.352	0.000	
	U 232	232	246	4.502	0.000	
	U 236	236	10	10.000	0.000	
⌈	U-tot	238	326718	0.357	0.000	
└>	U233	233	3133	1.171	0.000	
	U233 IS	233	3133	1.171	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	32.000				ng/L
	U	235	2371.643				ng/L
	U	238	324314.563				ng/L
	U 232	232	245.670				ng/L
	U 236	236	10.000				ng/L
⌈	U-tot	238	104.283	**20949.501**	194.47	0.9	ng/L
└>	U233	233	3133.207				ng/L
	U233 IS	233	3133.207	**72.882**	0.85	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, October 10, 2011 12:44:46
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\zzz.903
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	17	8.813	0.000	
	U	235	13	22.790	0.000	
	U	238	32	3.646	0.000	
	U 232	232	18	3.149	0.000	
	U 236	236	8	54.486	0.000	
┌	U-tot	238	62	3.376	0.000	
└>	U233	233	4297	2.270	0.000	
	U233 IS	233	4297	2.270	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	17.333				ng/L
	U	235	12.667				ng/L
	U	238	31.667				ng/L
	U 232	232	18.333				ng/L
	U 236	236	8.000				ng/L
┌	U-tot	238	0.014	**0.223**	0.11	47.7	ng/L
└>	U233	233	4297.016				ng/L
	U233 IS	233	4297.016	**99.953**	2.27	2.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, October 10, 2011 12:47:07
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccv.904
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	34	3.363	0.000	
	U	235	1264	3.332	0.000	
	U	238	173116	0.502	0.000	
	U 232	232	15	10.415	0.000	
	U 236	236	118	5.557	0.000	
┌	U-tot	238	174415	0.522	0.000	
└>	U233	233	4304	2.559	0.000	
	U233 IS	233	4304	2.559	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	34.333				ng/L
	U	235	1264.421				ng/L
	U	238	173116.120				ng/L
	U 232	232	14.667				ng/L
	U 236	236	118.001				ng/L
┌	U-tot	238	40.539	**8142.279**	221.09	2.7	ng/L
└>	U233	233	4304.353				ng/L
	U233 IS	233	4304.353	**100.124**	2.56	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Monday, October 10, 2011 12:49:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccb.905
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	50.258	0.000	
	U	235	13	27.735	0.000	
	U	238	37	23.406	0.000	
	U 232	232	11	5.413	0.000	
	U 236	236	10	22.349	0.000	
⌈	U-tot	238	65	26.304	0.000	
└>	U233	233	4340	1.042	0.000	
	U233 IS	233	4340	1.042	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	14.667				ng/L
	U	235	13.000				ng/L
	U	238	37.000				ng/L
	U 232	232	10.667				ng/L
	U 236	236	10.333				ng/L
⌈	U-tot	238	0.015	**0.338**	0.82	242.6	ng/L
└>	U233	233	4339.702				ng/L
	U233 IS	233	4339.702	**100.946**	1.05	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd14 df4
Sample Date/Time: Monday, October 10, 2011 12:51:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\Blankd14 df4.906
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	33	10.497	0.000	
U	235	1781	0.816	0.000	
U	238	537782	0.964	0.000	
U 232	232	20	52.915	0.000	
U 236	236	114	10.435	0.000	
┌ U-tot	238	539597	0.963	0.000	
└> U233	233	4260	0.729	0.000	
U233 IS	233	4260	0.729	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	33.000				ng/L
U	235	1781.174				ng/L
U	238	537782.485				ng/L
U 232	232	20.000				ng/L
U 236	236	114.334				ng/L
┌ U-tot	238	126.669	**25447.182**	274.67	1.1	ng/L
└> U233	233	4259.998				ng/L
U233 IS	233	4259.998	**99.092**	0.72	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d14 df4
Sample Date/Time: Monday, October 10, 2011 12:53:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473754d14 df4.907
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	33	8.017	0.000	
	U	235	1541	1.007	0.000	
	U	238	440669	0.631	0.000	
	U 232	232	681	5.822	0.000	
	U 236	236	97	10.964	0.000	
[	U-tot	238	442243	0.628	0.000	
L>	U233	233	3861	0.807	0.000	
	U233 IS	233	3861	0.807	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	33.000				ng/L
	U	235	1541.131				ng/L
	U	238	440668.582				ng/L
	U 232	232	680.692				ng/L
	U 236	236	96.667				ng/L
[	U-tot	238	114.529	**23007.988**	133.56	0.6	ng/L
L>	U233	233	3861.487				ng/L
	U233 IS	233	3861.487	**89.823**	0.72	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d14L df20
Sample Date/Time: Monday, October 10, 2011 12:56:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473754d14L df20.908
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	18	31.492	0.000	
U	235	342	2.489	0.000	
U	238	92178	0.343	0.000	
U 232	232	161	10.642	0.000	
U 236	236	33	24.804	0.000	
┌ U-tot	238	92538	0.346	0.000	
└> U233	233	4176	0.984	0.000	
U233 IS	233	4176	0.984	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	18.333				ng/L
U	235	341.673				ng/L
U	238	92178.306				ng/L
U 232	232	160.668				ng/L
U 236	236	33.000				ng/L
┌ U-tot	238	22.163	**4450.327**	58.70	1.3	ng/L
└> U233	233	4175.625				ng/L
U233 IS	233	4175.625	**97.130**	0.96	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d14D df4

Sample Date/Time: Monday, October 10, 2011 12:58:28
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473754d14D df4.909
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	22	25.420	0.000	
	U	235	1502	4.449	0.000	
	U	238	419096	0.474	0.000	
	U 232	232	392	5.159	0.000	
	U 236	236	86	6.429	0.000	
⌈	U-tot	238	420620	0.458	0.000	
L>	U233	233	3991	0.982	0.000	
	U233 IS	233	3991	0.982	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	21.667				ng/L
	U	235	1502.124				ng/L
	U	238	419095.749				ng/L
	U 232	232	392.008				ng/L
	U 236	236	85.667				ng/L
⌈	U-tot	238	105.399	**21173.642**	110.40	0.5	ng/L
L>	U233	233	3990.876				ng/L
	U233 IS	233	3990.876	**92.832**	0.91	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d14AS df4

Sample Date/Time: Monday, October 10, 2011 13:00:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473754d14AS df4.910
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20 ul of 1° natural uranium
@ df100 (11-064-06) (075-Rad-S012)
in 10mL

TU = 20462 ng/L x df 4 = 81,848 ng/L

10/13/11 NS

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	43	8.737	0.000	
U	235	4554	0.768	0.000	
U	238	841545	0.308	0.000	
U 232	232	713	1.853	0.000	
U 236	236	91	17.165	0.000	
U-tot	238	846142	0.302	0.000	
U233	233	3987	0.861	0.000	
U233 IS	233	3987	0.861	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	43.333				ng/L
U	235	4553.807				ng/L
U	238	841545.018				ng/L
U 232	232	712.695				ng/L
U 236	236	91.000				ng/L
U-tot	238	212.221	**42635.954**	252.07	0.6	ng/L
U233	233	3987.208				ng/L
U233 IS	233	3987.208	**92.747**	0.80	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Monday, October 10, 2011 13:03:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DetaSet\11 Oct\zzz.911
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Celibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	25	2.279	0.000	
	U	235	12	50.000	0.000	
	U	238	111	10.931	0.000	
	U 232	232	54	7.055	0.000	
	U 236	236	15	22.904	0.000	
⌈	U-tot	238	148	11.723	0.000	
L>	U233	233	4254	1.737	0.000	
	U233 IS	233	4254	1.737	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	25.333				ng/L
	U	235	12.000				ng/L
	U	238	110.667				ng/L
	U 232	232	53.667				ng/L
	U 236	236	15.333				ng/L
⌈	U-tot	238	0.035	**4.328**	0.82	18.9	ng/L
L>	U233	233	4254.329				ng/L
	U233 IS	233	4254.329	**98.961**	1.72	1.7	%R

010279

Quantitative Analysis - Summary Report

Sample ID: 473755d14 df2

Sample Date/Time: Monday, October 10, 2011 13:05:22
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473755d14 df2.912
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	40	18.028	0.000	
U	235	2674	0.804	0.000	
U	238	708489	0.743	0.000	
U 232	232	1545	7.437	0.000	
U 236	236	121	7.106	0.000	
U-tot	238	711202	0.743	0.000	
U233	233	3926	0.166	0.000	
U233 IS	233	3926	0.166	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	40.000				ng/L
U	235	2673.726				ng/L
U	238	708488.734				ng/L
U 232	232	1545.132				ng/L
U 236	236	121.334				ng/L
U-tot	238	181.143	**36391.846**	241.61	0.7	ng/L
U233	233	3926.181				ng/L
U233 IS	233	3926.181	**91.327**	0.15	0.2	%R

Quantitative Analysis - Summary Report

Sample ID: 473755d14D df2
Sample Date/Time: Monday, October 10, 2011 13:07:40
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473755d14D df2.913
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	39	8.882	0.000	
U	235	2817	2.058	0.000	
U	238	741679	0.206	0.000	
U 232	232	3751	2.145	0.000	
U 236	236	131	3.775	0.000	
[U-tot	238	744535	0.213	0.000	
└> U233	233	3928	1.429	0.000	
U233 IS	233	3928	1.429	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	39.000				ng/L
U	235	2817.437				ng/L
U	238	741678.756				ng/L
U 232	232	3750.774				ng/L
U 236	236	130.668				ng/L
[U-tot	238	189.562	**38083.374**	539.14	1.4	ng/L
└> U233	233	3928.182				ng/L
U233 IS	233	3928.182	**91.374**	1.31	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, October 10, 2011 13:10:00
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\zzz.914
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	11	54.933	0.000	
U	235	12	20.405	0.000	
U	238	128	8.119	0.000	
U 232	232	398	2.765	0.000	
U 236	236	4	25.000	0.000	
U-tot	238	151	4.776	0.000	
U233	233	4039	2.698	0.000	
U233 IS	233	4039	2.698	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	10.667				ng/L
U	235	12.333				ng/L
U	238	128.001				ng/L
U 232	232	398.342				ng/L
U 236	236	4.000				ng/L
U-tot	238	0.037	**4.859**	0.55	11.3	ng/L
U233	233	4039.231				ng/L
U233 IS	233	4039.231	**93.957**	2.53	2.7	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Monday, October 10, 2011 13:12:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\critotU.915
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	12	53.986	0.000	
	U	235	16	6.250	0.000	
	U	238	922	2.694	0.000	
	U 232	232	112	7.616	0.000	
	U 236	236	3	91.652	0.000	
┌	U-tot	238	950	2.842	0.000	
└>	U233	233	4144	1.438	0.000	
	U233 IS	233	4144	1.438	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	12.333				ng/L
	U	235	16.000				ng/L
	U	238	921.713				ng/L
	U 232	232	111.667				ng/L
	U 236	236	3.333				ng/L
┌	U-tot	238	0.229	**43.416**	1.97	4.5	ng/L
└>	U233	233	4144.278				ng/L
	U233 IS	233	4144.278	**96.401**	1.39	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, October 10, 2011 13:14:39
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccv.916
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	22	12.026	0.000	
U	235	1229	2.054	0.000	
U	238	163994	0.412	0.000	
U 232	232	96	2.612	0.000	
U 236	236	115	12.634	0.000	
┌ U-tot	238	165245	0.405	0.000	
└> U233	233	4036	0.919	0.000	
U233 IS	233	4036	0.919	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	22.000				ng/L
U	235	1229.083				ng/L
U	238	163993.965				ng/L
U 232	232	96.334				ng/L
U 236	236	115.334				ng/L
┌ U-tot	238	40.942	**8223.292**	67.24	0.8	ng/L
└> U233	233	4036.229				ng/L
U233 IS	233	4036.229	**93.887**	0.86	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, October 10, 2011 13:16:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccb.917
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	20.830	0.000	
	U	235	12	43.142	0.000	
	U	238	51	11.565	0.000	
	U 232	232	50	25.060	0.000	
	U 236	236	12	25.000	0.000	
┌	U-tot	238	77	12.791	0.000	
└>	U233	233	4093	1.124	0.000	
	U233 IS	233	4093	1.124	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	14.667				ng/L
	U	235	11.667				ng/L
	U	238	50.667				ng/L
	U 232	232	50.000				ng/L
	U 236	236	12.000				ng/L
┌	U-tot	238	0.019	**1.117**	0.47	42.5	ng/L
└>	U233	233	4093.255				ng/L
	U233 IS	233	4093.255	**95.214**	1.07	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 473756d14 df2

Sample Date/Time: Monday, October 10, 2011 13:19:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473756d14 df2.918
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	27	16.144	0.000	
	U	235	1562	3.206	0.000	
	U	238	403863	0.845	0.000	
	U 232	232	232	2.827	0.000	
	U 236	236	81	2.138	0.000	
┌	U-tot	238	405452	0.854	0.000	
└>	U233	233	3824	1.345	0.000	
	U233 IS	233	3824	1.345	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	27.000				ng/L
	U	235	1562.468				ng/L
	U	238	403862.574				ng/L
	U 232	232	232.003				ng/L
	U 236	236	81.000				ng/L
┌	U-tot	238	106.046	**21303.718**	336.80	1.6	ng/L
└>	U233	233	3823.804				ng/L
	U233 IS	233	3823.804	**88.946**	1.20	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 473756d14D df2
Sample Date/Time: Monday, October 10, 2011 13:21:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473756d14D df2.919
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	25	6.928	0.000	
	U	235	1567	1.013	0.000	
	U	238	408781	0.566	0.000	
	U 232	232	221	2.135	0.000	
	U 236	236	85	8.296	0.000	
┌	U-tot	238	410374	0.560	0.000	
└>	U233	233	3822	2.135	0.000	
	U233 IS	233	3822	2.135	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	25.000				ng/L
	U	235	1567.135				ng/L
	U	238	408781.383				ng/L
	U 232	232	221.336				ng/L
	U 236	236	84.667				ng/L
┌	U-tot	238	107.383	**21572.315**	355.29	1.6	ng/L
└>	U233	233	3822.470				ng/L
	U233 IS	233	3822.470	**88.915**	1.90	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: 473757d14 df4

Sample Date/Time: Monday, October 10, 2011 13:23:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473757d14 df4.920
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	15	24.037	0.000	
U	235	916	2.527	0.000	
U	238	201929	0.145	0.000	
U 232	232	157	14.363	0.000	
U 236	236	35	38.633	0.000	
⌈ U-tot	238	202860	0.155	0.000	
↳ U233	233	3901	4.263	0.000	
U233 IS	233	3901	4.263	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	15.000				ng/L
U	235	916.380				ng/L
U	238	201928.672				ng/L
U 232	232	156.668				ng/L
U 236	236	35.333				ng/L
⌈ U-tot	238	52.065	**10457.988**	428.65	4.1	ng/L
↳ U233	233	3900.838				ng/L
U233 IS	233	3900.838	**90.738**	3.87	4.3	%R

Quantitative Analysis - Summary Report

Sample ID: 473757d14D df4

Sample Date/Time: Monday, October 10, 2011 13:26:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473757d14D df4.921
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	31	20.964	0.000	
U	235	1574	1.498	0.000	
U	238	354092	0.499	0.000	
U 232	232	385	2.565	0.000	
U 236	236	64	5.459	0.000	
┌ U-tot	238	355696	0.498	0.000	
└> U233	233	3935	1.479	0.000	
U233 IS	233	3935	1.479	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	30.667				ng/L
U	235	1574.136				ng/L
U	238	354091.658				ng/L
U 232	232	384.675				ng/L
U 236	236	64.334				ng/L
┌ U-tot	238	90.397	**18159.616**	177.28	1.0	ng/L
└> U233	233	3935.185				ng/L
U233 IS	233	3935.185	**91.537**	1.35	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: 473758d14

Sample Date/Time: Monday, October 10, 2011 13:28:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473758d14.922
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	25	26.993	0.000	
U	235	1375	2.333	0.000	
U	238	346524	0.771	0.000	
U 232	232	234	4.287	0.000	
U 236	236	69	5.797	0.000	
U-tot	238	347923	0.774	0.000	
U233	233	3528	2.409	0.000	
U233 IS	233	3528	2.409	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	24.667				ng/L
U	235	1375.104				ng/L
U	238	346523.726				ng/L
U 232	232	233.670				ng/L
U 236	236	69.000				ng/L
U-tot	238	98.667	**19821.140**	529.26	2.7	ng/L
U233	233	3527.685				ng/L
U233 IS	233	3527.685	**82.058**	1.98	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: 473758d14D
Sample Date/Time: Monday, October 10, 2011 13:30:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473758d14D.923
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	27	21.323	0.000	
U	235	1418	2.205	0.000	
U	238	367315	0.359	0.000	
U 232	232	358	7.007	0.000	
U 236	236	76	5.263	0.000	
┌ U-tot	238	368760	0.367	0.000	
└> U233	233	3548	1.741	0.000	
U233 IS	233	3548	1.741	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	26.667				ng/L
U	235	1417.777				ng/L
U	238	367315.068				ng/L
U 232	232	358.340				ng/L
U 236	236	76.000				ng/L
┌ U-tot	238	103.944	**20881.316**	354.17	1.7	ng/L
└> U233	233	3548.359				ng/L
U233 IS	233	3548.359	**82.539**	1.44	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473768d14 df4

Sample Date/Time: Monday, October 10, 2011 13:33:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473768d14 df4.924
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	27	13.354	0.000	
	U	235	1471	3.426	0.000	
	U	238	406591	1.002	0.000	
	U 232	232	263	2.806	0.000	
	U 236	236	88	15.033	0.000	
⌈	U-tot	238	408089	0.993	0.000	
⌊>	U233	233	3849	3.468	0.000	
	U233 IS	233	3849	3.468	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	27.000				ng/L
	U	235	1471.119				ng/L
	U	238	406591.085				ng/L
	U 232	232	262.670				ng/L
	U 236	236	88.000				ng/L
⌈	U-tot	238	106.115	**21317.574**	770.43	3.6	ng/L
⌊>	U233	233	3848.815				ng/L
	U233 IS	233	3848.815	**89.528**	3.11	3.5	%R

Quantitative Analysis - Summary Report

Sample ID: 473768d14D df4

Sample Date/Time: Monday, October 10, 2011 13:35:33
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473768d14D df4.925
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	23	15.494	0.000	
	U	235	1450	3.416	0.000	
	U	238	399725	0.586	0.000	
	U 232	232	128	6.984	0.000	
	U 236	236	85	12.027	0.000	
┌	U-tot	238	401197	0.584	0.000	
└>	U233	233	3878	1.996	0.000	
	U233 IS	233	3878	1.996	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	22.667				ng/L
	U	235	1449.782				ng/L
	U	238	399724.702				ng/L
	U 232	232	128.334				ng/L
	U 236	236	85.334				ng/L
┌	U-tot	238	103.471	**20786.289**	315.43	1.5	ng/L
└>	U233	233	3878.161				ng/L
	U233 IS	233	3878.161	**90.210**	1.80	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Monday, October 10, 2011 13:37:55
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\zzz.926
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	21.917	0.000	
	U	235	11	10.189	0.000	
	U	238	108	13.179	0.000	
	U 232	232	30	5.149	0.000	
	U 236	236	7	39.365	0.000	
⌐	U-tot	238	134	11.598	0.000	
L>	U233	233	3823	0.247	0.000	
	U233 IS	233	3823	0.247	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	14.667				ng/L
	U	235	11.333				ng/L
	U	238	107.667				ng/L
	U 232	232	29.667				ng/L
	U 236	236	7.333				ng/L
⌐	U-tot	238	0.035	**4.363**	0.82	18.7	ng/L
L>	U233	233	3823.471				ng/L
	U233 IS	233	3823.471	**88.938**	0.22	0.2	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, October 10, 2011 13:40:15
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\critotU.927
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	13	38.944	0.000	
	U	235	15	40.000	0.000	
	U	238	877	5.079	0.000	
	U 232	232	21	45.426	0.000	
	U 236	236	12	30.697	0.000	
⌈	U-tot	238	904	5.413	0.000	
└>	U233	233	3869	0.336	0.000	
	U233 IS	233	3869	0.336	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	12.667				ng/L
	U	235	15.000				ng/L
	U	238	876.709				ng/L
	U 232	232	21.000				ng/L
	U 236	236	12.333				ng/L
⌈	U-tot	238	0.234	**44.293**	2.46	5.6	ng/L
└>	U233	233	3869.490				ng/L
	U233 IS	233	3869.490	**90.009**	0.30	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Monday, October 10, 2011 13:42:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccv.928
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	26	19.114	0.000	
	U	235	1168	2.411	0.000	
	U	238	156654	0.585	0.000	
	U 232	232	19	5.263	0.000	
	U 236	236	103	7.517	0.000	
┌	U-tot	238	157848	0.572	0.000	
└>	U233	233	3915	0.402	0.000	
	U233 IS	233	3915	0.402	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	26.333				ng/L
	U	235	1167.742				ng/L
	U	238	156653.891				ng/L
	U 232	232	19.000				ng/L
	U 236	236	103.334				ng/L
┌	U-tot	238	40.321	**8098.546**	77.65	1.0	ng/L
└>	U233	233	3914.843				ng/L
	U233 IS	233	3914.843	**91.064**	0.37	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, October 10, 2011 13:44:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccb.929
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	14	29.572	0.000	
	U	235	15	17.638	0.000	
	U	238	49	14.237	0.000	
	U 232	232	21	0.000	0.000	
	U 236	236	13	15.385	0.000	
⌈	U-tot	238	78	11.395	0.000	
└>	U233	233	3842	2.659	0.000	
	U233 IS	233	3842	2.659	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	13.667				ng/L
	U	235	15.000				ng/L
	U	238	49.333				ng/L
	U 232	232	21.000				ng/L
	U 236	236	13.000				ng/L
⌈	U-tot	238	0.020	**1.413**	0.38	27.1	ng/L
└>	U233	233	3842.145				ng/L
	U233 IS	233	3842.145	**89.373**	2.38	2.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473769d14 df4

Sample Date/Time: Monday, October 10, 2011 13:47:09
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473769d14 df4.930
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	24	25.345	0.000	
	U	235	1266	2.362	0.000	
	U	238	344033	0.886	0.000	
	U 232	232	150	9.598	0.000	
	U 236	236	74	8.108	0.000	
┌	U-tot	238	345323	0.877	0.000	
└>	U233	233	3736	0.821	0.000	
	U233 IS	233	3736	0.821	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	24.000				ng/L
	U	235	1266.422				ng/L
	U	238	344032.823				ng/L
	U 232	232	149.668				ng/L
	U 236	236	74.000				ng/L
┌	U-tot	238	92.433	**18568.579**	222.63	1.2	ng/L
└>	U233	233	3736.101				ng/L
	U233 IS	233	3736.101	**86.906**	0.71	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473769d14D df4

Sample Date/Time: Monday, October 10, 2011 13:49:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473769d14D df4.931
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	26	2.192	0.000	
	U	235	1248	1.564	0.000	
	U	238	337131	0.704	0.000	
	U 232	232	97	3.303	0.000	
	U 236	236	63	16.798	0.000	
┌	U-tot	238	338405	0.706	0.000	
└>	U233	233	3813	1.681	0.000	
	U233 IS	233	3813	1.681	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	26.333				ng/L
	U	235	1248.086				ng/L
	U	238	337130.531				ng/L
	U 232	232	97.334				ng/L
	U 236	236	63.000				ng/L
┌	U-tot	238	88.758	**17830.249**	208.60	1.2	ng/L
└>	U233	233	3813.133				ng/L
	U233 IS	233	3813.133	**88.698**	1.49	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473770d14 df4
Sample Date/Time: Monday, October 10, 2011 13:51:39
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473770d14 df4.932
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	29	37.706	0.000	
	U	235	1468	2.657	0.000	
	U	238	391149	1.125	0.000	
	U 232	232	153	4.627	0.000	
	U 236	236	69	16.753	0.000	
┌	U-tot	238	392646	1.125	0.000	
└>	U233	233	3796	1.569	0.000	
	U233 IS	233	3796	1.569	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	29.333				ng/L
	U	235	1467.785				ng/L
	U	238	391148.631				ng/L
	U 232	232	153.335				ng/L
	U 236	236	68.667				ng/L
┌	U-tot	238	103.438	**20779.704**	100.17	0.5	ng/L
└>	U233	233	3796.126				ng/L
	U233 IS	233	3796.126	**88.302**	1.39	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 473770d14D df4
Sample Date/Time: Monday, October 10, 2011 13:53:55
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473770d14D df4.933
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	25	19.868	0.000	
U	235	1428	1.095	0.000	
U	238	385164	1.345	0.000	
U 232	232	106	8.159	0.000	
U 236	236	73	7.510	0.000	
⌈ U-tot	238	386617	1.334	0.000	
└> U233	233	3748	1.106	0.000	
U233 IS	233	3748	1.106	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	25.333				ng/L
U	235	1427.779				ng/L
U	238	385163.983				ng/L
U 232	232	105.667				ng/L
U 236	236	73.334				ng/L
⌈ U-tot	238	103.149	**20721.660**	358.46	1.7	ng/L
└> U233	233	3748.439				ng/L
U233 IS	233	3748.439	**87.193**	0.96	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 473771d14 df4

Sample Date/Time: Monday, October 10, 2011 13:56:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473771d14 df4.934
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	26	19.487	0.000	
	U	235	1588	4.370	0.000	
	U	238	412162	0.518	0.000	
	U 232	232	76	5.295	0.000	
	U 236	236	76	10.589	0.000	
┌	U-tot	238	413776	0.500	0.000	
└>	U233	233	3708	0.661	0.000	
	U233 IS	233	3708	0.661	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	26.333				ng/L
	U	235	1588.139				ng/L
	U	238	412161.979				ng/L
	U 232	232	76.334				ng/L
	U 236	236	76.334				ng/L
┌	U-tot	238	111.591	**22417.637**	176.44	0.8	ng/L
└>	U233	233	3708.089				ng/L
	U233 IS	233	3708.089	**86.254**	0.57	0.7	%R

010302

Quantitative Analysis - Summary Report

Sample ID: 473771d14D df4

Sample Date/Time: Monday, October 10, 2011 13:58:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473771d14D df4.935
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	18	22.876	0.000	
	U	235	1580	3.185	0.000	
	U	238	415882	0.669	0.000	
	U 232	232	173	3.856	0.000	
	U 236	236	77	13.195	0.000	
⌈	U-tot	238	417480	0.655	0.000	
⌊>	U233	233	3699	2.507	0.000	
	U233 IS	233	3699	2.507	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	17.667				ng/L
	U	235	1580.471				ng/L
	U	238	415882.234				ng/L
	U 232	232	172.668				ng/L
	U 236	236	76.667				ng/L
⌈	U-tot	238	112.926	**22686.054**	681.56	3.0	ng/L
⌊>	U233	233	3698.753				ng/L
	U233 IS	233	3698.753	**86.037**	2.16	2.5	%R

Quantitative Analysis - Summary Report

Sample ID: 473772d14 df4

Sample Date/Time: Monday, October 10, 2011 14:00:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473772d14 df4.936
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	22	7.873	0.000	
	U	235	1386	2.434	0.000	
	U	238	368675	0.857	0.000	
	U 232	232	414	4.903	0.000	
	U 236	236	68	8.139	0.000	
┌	U-tot	238	370083	0.861	0.000	
└>	U233	233	3724	2.770	0.000	
	U233 IS	233	3724	2.770	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	22.000				ng/L
	U	235	1385.772				ng/L
	U	238	368674.766				ng/L
	U 232	232	414.009				ng/L
	U 236	236	67.667				ng/L
┌	U-tot	238	99.424	**19973.167**	556.25	2.8	ng/L
└>	U233	233	3724.096				ng/L
	U233 IS	233	3724.096	**86.627**	2.40	2.8	%R

Quantitative Analysis - Summary Report

Sample ID: 473772d14D df4

Sample Date/Time: Monday, October 10, 2011 14:03:02
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473772d14D df4.937
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	27	3.704	0.000	
	U	235	1340	3.454	0.000	
	U	238	362670	0.984	0.000	
	U 232	232	277	2.922	0.000	
	U 236	236	62	5.815	0.000	
┌	U-tot	238	364037	0.992	0.000	
└>	U233	233	3674	0.316	0.000	
	U233 IS	233	3674	0.316	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	27.000				ng/L
	U	235	1339.765				ng/L
	U	238	362669.745				ng/L
	U 232	232	276.671				ng/L
	U 236	236	62.000				ng/L
┌	U-tot	238	99.085	**19904.985**	244.21	1.2	ng/L
└>	U233	233	3674.076				ng/L
	U233 IS	233	3674.076	**85.463**	0.27	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Monday, October 10, 2011 14:05:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\zzz.938
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	15	13.576	0.000	
U	235	13	45.826	0.000	
U	238	100	5.489	0.000	
U 232	232	34	11.771	0.000	
U 236	236	12	30.102	0.000	
U-tot	238	129	3.552	0.000	
U233	233	3708	4.145	0.000	
U233 IS	233	3708	4.145	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	15.333				ng/L
U	235	13.333				ng/L
U	238	100.334				ng/L
U 232	232	34.333				ng/L
U 236	236	11.667				ng/L
U-tot	238	0.035	**4.338**	0.44	10.1	ng/L
U233	233	3708.424				ng/L
U233 IS	233	3708.424	**86.262**	3.58	4.1	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Monday, October 10, 2011 14:07:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\critotU.939
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	17	5.882	0.000	
	U	235	18	31.175	0.000	
	U	238	827	2.869	0.000	
	U 232	232	20	10.000	0.000	
	U 236	236	10	31.109	0.000	
⌈	U-tot	238	861	2.523	0.000	
↳	U233	233	3761	1.972	0.000	
	U233 IS	233	3761	1.972	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	17.000				ng/L
	U	235	17.667				ng/L
	U	238	826.704				ng/L
	U 232	232	20.000				ng/L
	U 236	236	10.333				ng/L
⌈	U-tot	238	0.229	**43.375**	2.06	4.8	ng/L
↳	U233	233	3761.445				ng/L
	U233 IS	233	3761.445	**87.495**	1.73	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, October 10, 2011 14:10:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccv.940
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	20	46.483	0.000	
	U	235	1095	3.247	0.000	
	U	238	148071	0.555	0.000	
	U 232	232	22	27.273	0.000	
	U 236	236	97	12.918	0.000	
⌈	U-tot	238	149186	0.538	0.000	
L>	U233	233	3722	0.885	0.000	
	U233 IS	233	3722	0.885	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	20.333				ng/L
	U	235	1095.066				ng/L
	U	238	148070.823				ng/L
	U 232	232	22.000				ng/L
	U 236	236	97.001				ng/L
⌈	U-tot	238	40.088	**8051.586**	102.79	1.3	ng/L
L>	U233	233	3721.762				ng/L
	U233 IS	233	3721.762	**86.572**	0.77	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, October 10, 2011 14:12:19
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccb.941
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	14	14.286	0.000	
U	235	12	24.771	0.000	
U	238	54	15.325	0.000	
U 232	232	14	8.056	0.000	
U 236	236	10	31.109	0.000	
┌ U-tot	238	81	7.970	0.000	
└> U233	233	3655	1.633	0.000	
U233 IS	233	3655	1.633	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	14.000				ng/L
U	235	12.333				ng/L
U	238	54.333				ng/L
U 232	232	14.333				ng/L
U 236	236	10.333				ng/L
┌ U-tot	238	0.022	**1.775**	0.39	21.8	ng/L
└> U233	233	3655.068				ng/L
U233 IS	233	3655.068	**85.021**	1.39	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 473778d14 df4

Sample Date/Time: Monday, October 10, 2011 14:14:37
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473778d14 df4.942
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	24	8.796	0.000	
	U	235	1236	2.058	0.000	
	U	238	335088	0.480	0.000	
	U 232	232	334	0.299	0.000	
	U 236	236	66	12.309	0.000	
┌	U-tot	238	336347	0.477	0.000	
└>	U233	233	3586	0.698	0.000	
	U233 IS	233	3586	0.698	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	23.667				ng/L
	U	235	1235.751				ng/L
	U	238	335087.950				ng/L
	U 232	232	334.006				ng/L
	U 236	236	65.667				ng/L
┌	U-tot	238	93.795	**18842.256**	92.99	0.5	ng/L
└>	U233	233	3586.040				ng/L
	U233 IS	233	3586.040	**83.415**	0.58	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473778d14D df4
Sample Date/Time: Monday, October 10, 2011 14:16:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473778d14D df4.943
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	23	35.589	0.000	
	U	235	1246	2.805	0.000	
	U	238	345820	0.855	0.000	
	U 232	232	153	2.300	0.000	
	U 236	236	70	10.671	0.000	
[	U-tot	238	347089	0.848	0.000	
L>	U233	233	3679	0.590	0.000	
	U233 IS	233	3679	0.590	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	23.000				ng/L
	U	235	1246.419				ng/L
	U	238	345819.720				ng/L
	U 232	232	152.668				ng/L
	U 236	236	70.334				ng/L
[	U-tot	238	94.352	**18954.105**	186.49	1.0	ng/L
L>	U233	233	3678.744				ng/L
	U233 IS	233	3678.744	**85.572**	0.51	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: 473045d14 df4

Sample Date/Time: Monday, October 10, 2011 14:19:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473045d14 df4.944
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	29	32.413	0.000	
U	235	1622	2.728	0.000	
U	238	411260	0.814	0.000	
U 232	232	189	2.496	0.000	
U 236	236	82	16.490	0.000	
┌ U-tot	238	412911	0.813	0.000	
└> U233	233	3635	0.900	0.000	
U233 IS	233	3635	0.900	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	28.667				ng/L
U	235	1621.811				ng/L
U	238	411260.039				ng/L
U 232	232	189.335				ng/L
U 236	236	82.334				ng/L
┌ U-tot	238	113.592	**22819.718**	30.88	0.1	ng/L
└> U233	233	3635.060				ng/L
U233 IS	233	3635.060	**84.556**	0.76	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: 473045d14D df4
Sample Date/Time: Monday, October 10, 2011 14:21:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473045d14D df4.945
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	26	19.985	0.000	
	U	235	1584	1.786	0.000	
	U	238	409971	0.436	0.000	
	U 232	232	131	5.375	0.000	
	U 236	236	70	13.438	0.000	
[	U-tot	238	411582	0.428	0.000	
L>	U233	233	3544	1.607	0.000	
	U233 IS	233	3544	1.607	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	26.000				ng/L
	U	235	1584.471				ng/L
	U	238	409971.477				ng/L
	U 232	232	130.668				ng/L
	U 236	236	70.334				ng/L
[	U-tot	238	116.147	**23333.123**	454.36	1.9	ng/L
L>	U233	233	3544.358				ng/L
	U233 IS	233	3544.358	**82.446**	1.32	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Monday, October 10, 2011 14:23:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\zzz.946
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	13	8.660	0.000	
U	235	11	39.031	0.000	
U	238	102	0.980	0.000	
U 232	232	31	4.875	0.000	
U 236	236	9	29.397	0.000	
U-tot	238	126	4.124	0.000	
U233	233	3699	3.787	0.000	
U233 IS	233	3699	3.787	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	13.333				ng/L
U	235	10.667				ng/L
U	238	102.001				ng/L
U 232	232	31.333				ng/L
U 236	236	9.000				ng/L
U-tot	238	0.034	**4.192**	0.44	10.5	ng/L
U233	233	3698.753				ng/L
U233 IS	233	3698.753	**86.037**	3.26	3.8	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Monday, October 10, 2011 14:26:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\critotU.947
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	13.576	0.000	
	U	235	13	51.051	0.000	
	U	238	775	2.489	0.000	
	U 232	232	22	44.851	0.000	
	U 236	236	6	48.238	0.000	
┌	U-tot	238	804	2.154	0.000	
└>	U233	233	3763	0.189	0.000	
	U233 IS	233	3763	0.189	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	15.333				ng/L
	U	235	13.333				ng/L
	U	238	775.366				ng/L
	U 232	232	22.333				ng/L
	U 236	236	6.333				ng/L
┌	U-tot	238	0.214	**40.263**	0.91	2.3	ng/L
└>	U233	233	3763.446				ng/L
	U233 IS	233	3763.446	**87.542**	0.17	0.2	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, October 10, 2011 14:28:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccv.948
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	23	35.660	0.000	
	U	235	1070	2.618	0.000	
	U	238	147433	0.673	0.000	
	U 232	232	25	4.681	0.000	
	U 236	236	99	13.594	0.000	
⌈	U-tot	238	148526	0.673	0.000	
↳	U233	233	3620	1.711	0.000	
	U233 IS	233	3620	1.711	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	22.667				ng/L
	U	235	1070.396				ng/L
	U	238	147433.264				ng/L
	U 232	232	24.667				ng/L
	U 236	236	99.334				ng/L
⌈	U-tot	238	41.030	**8240.889**	86.35	1.0	ng/L
↳	U233	233	3620.388				ng/L
	U233 IS	233	3620.388	**84.214**	1.44	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, October 10, 2011 14:30:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccb.949
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	11.547	0.000	
	U	235	9	50.634	0.000	
	U	238	52	7.723	0.000	
	U 232	232	19	57.282	0.000	
	U 236	236	7	31.225	0.000	
┌	U-tot	238	77	11.093	0.000	
└>	U233	233	3643	0.831	0.000	
	U233 IS	233	3643	0.831	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	15.000				ng/L
	U	235	9.333				ng/L
	U	238	52.333				ng/L
	U 232	232	18.667				ng/L
	U 236	236	6.667				ng/L
┌	U-tot	238	0.021	**1.569**	0.49	31.5	ng/L
└>	U233	233	3642.730				ng/L
	U233 IS	233	3642.730	**84.734**	0.70	0.8	%R

010317

SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 6/Jan 11

☒ 6020 TAP No. 01-0406-046 Rev15/Sep 11

☐ 6020a TAP No. 01-0406-046 Rev15/Sep 11

☐ TAP No. 01-0406-148 Rev 2/Dec 10

☐ Other

ICP-MS CALIB. STD. ID's — **TVs**

S0	11-097-07	
STD. 1	11-091-04	44933 ng/L
I. STD	02-415-08	0.2ppb
I. STD		

QC STD. ID's

ICV/CCV	11-097-05	7666 ng/L
UCL		
CRI	11-097-06	40 ng/L
ICSA	11-097-03	–
ICSAB	11-097-04	20,444 ng/L

ANALYSIS

Utot

IDL Date: 08/10/2011
STD's IV, CCS 1-6 expire 10/1/12
STD's Spex, ME 1-4 expire 9/15/12

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16524.05.006	Fluor	10/10/11	110915-9 110825-10	~~liquid~~ SO	15 00132 – 15 00140

switched 10/10/11 NS

R2 10/13/11

INSTRUMENT: DRCII

FILENAME: 111010a.rep

Analyst: N. Seiler Date: 10 / 11 / 11

☐ CONVERTED (.DAT)

010318

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Monday, October 10, 2011 08:39:24
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Oct\Daily Performance Check.885
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

NSeiler
10/10/11

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	6820.2	6820.158	68.693	1.0
	In	114.9	26373.8	26373.803	198.238	0.8
	U	238.1	26592.2	26592.238	188.632	0.7
[>	Ce	139.9	26000.8	26000.796	73.209	0.3
[	CeO	155.9	1274.1	0.049	0.001	2.4
[>	Ba	137.9	213310.2	213310.180	1776.561	0.8
[	Ba++	69.0	5247.9	0.025	0.000	0.9
	Bkgd	220.0	3.0	3.000	1.034	34.5
	Bkgd	8.5	44.9	44.867	2.523	5.6

Current Optimization File Data

Current Value	Description
1.00	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
7.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

10/13/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	4.5	533.0
Co	59	45	5.0	15970.0
In	115	45	5.8	26132.5

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Monday, October 10, 2011 08:39:24
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Oct\Daily Performance Check.885
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

NSeiler
10/10/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2760	2035	0.713	
Mg	23.985	23.925	5650	2046	0.687	
Ar2	75.930	75.925	18319	2079	0.694	
In	114.904	114.925	27802	2108	0.690	
Ce	139.905	139.875	33887	2117	0.697	
Pb	207.977	208.025	50482	2157	0.705	
Th	232.038	232.075	56335	2176	0.699	
U	238.050	238.025	57798	2184	0.696	

Report Date/Time: Monday, October 10, 2011 09:01:43
Page 1

Quantitative Analysis - Summary Report

Sample ID: S-0

Sample Date/Time: Monday, October 10, 2011 17:56:01
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\S-0.994
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	34	12.004	0.000	
	U	235	30	23.333	0.000	
	U	238	45	13.333	0.000	
	U 232	232	24	15.023	0.000	
	U 236	236	28	26.490	0.000	
⌈	U-tot	238	109	9.753	0.000	
L>	U233	233	3258	2.478	0.000	
	U233 IS	233	3258	2.478	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	33.667				ng/L
	U	235	30.000				ng/L
	U	238	45.000				ng/L
	U 232	232	24.000				ng/L
	U 236	236	28.333				ng/L
⌈	U-tot	238	0.033				ng/L
L>	U233	233	3258.251				ng/L
	U233 IS	233	3258.251	**100.000**	2.48	2.5	%R

Quantitative Analysis - Summary Report

Sample ID: S-1
Sample Date/Time: Monday, October 10, 2011 17:58:19
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\S-1.995
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	63	16.109	0.000	
U	235	5511	1.076	0.000	
U	238	754323	0.619	0.000	
U 232	232	16	59.465	0.000	
U 236	236	158	7.514	0.000	
┌ U-tot	238	759898	0.608	0.000	
└> U233	233	3456	0.845	0.000	
U233 IS	233	3456	0.845	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	63.000				ng/L
U	235	5511.337				ng/L
U	238	754323.256				ng/L
U 232	232	16.333				ng/L
U 236	236	157.668				ng/L
┌ U-tot	238	219.867	**44933.000**	441.90	1.0	ng/L
└> U233	233	3456.324				ng/L
U233 IS	233	3456.324	**106.079**	0.90	0.8	%R

010322

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Monday, October 10, 2011 18:00:37
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\icv.996
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	16	45.952	0.000	
	U	235	1000	3.110	0.000	
	U	238	137017	1.005	0.000	
	U 232	232	11	9.091	0.000	
	U 236	236	78	5.588	0.000	
┌	U-tot	238	138034	1.013	0.000	
└>	U233	233	3414	1.022	0.000	
	U233 IS	233	3414	1.022	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	16.333				ng/L
	U	235	1000.055				ng/L
	U	238	137017.233				ng/L
	U 232	232	11.000				ng/L
	U 236	236	78.000				ng/L
┌	U-tot	238	40.441	**8259.186**	163.98	2.0	ng/L
└>	U233	233	3413.641				ng/L
	U233 IS	233	3413.641	**104.769**	1.07	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: Icb

Sample Date/Time: Monday, October 10, 2011 18:02:55
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandate\DataSet\11 Oct\Icb.997
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	10	56.705	0.000	
	U	235	8	7.531	0.000	
	U	238	58	20.975	0.000	
	U 232	232	5	87.178	0.000	
	U 236	236	4	87.670	0.000	
⌈	U-tot	238	76	11.242	0.000	
⌊>	U233	233	3364	1.083	0.000	
	U233 IS	233	3364	1.083	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	10.333				ng/L
	U	235	7.667				ng/L
	U	238	58.000				ng/L
	U 232	232	5.000				ng/L
	U 236	236	3.667				ng/L
⌈	U-tot	238	0.023	-2.203	0.47	21.4	ng/L
⌊>	U233	233	3363.622				ng/L
	U233 IS	233	3363.622	103.234	1.12	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Monday, October 10, 2011 18:05:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\critotU.998
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	16	52.071	0.000	
	U	235	22	27.649	0.000	
	U	238	749	2.804	0.000	
	U 232	232	16	59.621	0.000	
	U 236	236	11	80.802	0.000	
┌	U-tot	238	787	3.249	0.000	
└>	U233	233	3379	2.235	0.000	
	U233 IS	233	3379	2.235	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	16.333				ng/L
	U	235	22.000				ng/L
	U	238	749.031				ng/L
	U 232	232	16.000				ng/L
	U 236	236	11.000				ng/L
┌	U-tot	238	0.233	**40.828**	1.75	4.3	ng/L
└>	U233	233	3378.628				ng/L
	U233 IS	233	3378.628	**103.695**	2.32	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: icsa

Sample Date/Time: Monday, October 10, 2011 18:07:33
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\icsa.999
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	20	7.512	0.000	
	U	235	29	29.047	0.000	
	U	238	370	5.419	0.000	
	U 232	232	252	7.502	0.000	
	U 236	236	13	15.613	0.000	
⌈	U-tot	238	419	6.375	0.000	
⌊>	U233	233	2699	2.084	0.000	
	U233 IS	233	2699	2.084	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	20.333				ng/L
	U	235	28.667				ng/L
	U	238	369.674				ng/L
	U 232	232	252.337				ng/L
	U 236	236	13.333				ng/L
⌈	U-tot	238	0.155	**24.876**	1.59	6.4	ng/L
⌊>	U233	233	2699.067				ng/L
	U233 IS	233	2699.067	**82.838**	1.73	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Monday, October 10, 2011 18:09:51
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\icsab.1000
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	41	10.631	0.000	
	U	235	2051	2.377	0.000	
	U	238	278305	1.387	0.000	
	U 232	232	235	4.908	0.000	
	U 236	236	32	32.924	0.000	
⌈	U-tot	238	280397	1.392	0.000	
└>	U233	233	2735	0.659	0.000	
	U233 IS	233	2735	0.659	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	41.000				ng/L
	U	235	2051.231				ng/L
	U	238	278304.572				ng/L
	U 232	232	235.003				ng/L
	U 236	236	32.000				ng/L
⌈	U-tot	238	102.517	**20947.299**	220.94	1.1	ng/L
└>	U233	233	2735.078				ng/L
	U233 IS	233	2735.078	**83.943**	0.55	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, October 10, 2011 18:12:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\zzz.1001
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	13	7.692	0.000	
	U	235	8	49.960	0.000	
	U	238	30	39.743	0.000	
	U 232	232	15	25.813	0.000	
	U 236	236	8	92.538	0.000	
⌈	U-tot	238	52	30.130	0.000	
L>	U233	233	3792	1.335	0.000	
	U233 IS	233	3792	1.335	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	13.000				ng/L
	U	235	8.333				ng/L
	U	238	30.333				ng/L
	U 232	232	14.667				ng/L
	U 236	236	7.667				ng/L
⌈	U-tot	238	0.014	**-4.025**	0.88	21.8	ng/L
L>	U233	233	3792.124				ng/L
	U233 IS	233	3792.124	**116.385**	1.55	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Monday, October 10, 2011 18:14:32
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccv.1002
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	63	44.530	0.000	
	U	235	1150	2.045	0.000	
	U	238	149114	1.466	0.000	
	U 232	232	57	48.848	0.000	
	U 236	236	148	15.507	0.000	
[	U-tot	238	150327	1.421	0.000	
L>	U233	233	3694	1.638	0.000	
	U233 IS	233	3694	1.638	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	63.000				ng/L
	U	235	1150.073				ng/L
	U	238	149114.150				ng/L
	U 232	232	57.334				ng/L
	U 236	236	147.668				ng/L
[	U-tot	238	40.701	**8312.239**	171.04	2.1	ng/L
L>	U233	233	3694.084				ng/L
	U233 IS	233	3694.084	**113.376**	1.86	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Monday, October 10, 2011 18:16:50
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccb.1003
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	62	54.883	0.000	
	U	235	58	52.607	0.000	
	U	238	86	46.931	0.000	
	U 232	232	52	49.206	0.000	
	U 236	236	57	27.850	0.000	
┌	U-tot	238	206	48.563	0.000	
└>	U233	233	3736	1.410	0.000	
	U233 IS	233	3736	1.410	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	62.334				ng/L
	U	235	58.000				ng/L
	U	238	86.000				ng/L
	U 232	232	51.667				ng/L
	U 236	236	57.000				ng/L
┌	U-tot	238	0.055	**4.472**	5.44	121.7	ng/L
└>	U233	233	3736.101				ng/L
	U233 IS	233	3736.101	**114.666**	1.62	1.4	%R

010330

Quantitative Analysis - Summary Report

Sample ID: Blankd21 df4

Sample Date/Time: Monday, October 10, 2011 18:19:09
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\Blankd21 df4.1004
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	64	58.983	0.000	
	U	235	1533	2.615	0.000	
	U	238	436184	1.108	0.000	
	U 232	232	62	70.784	0.000	
	U 236	236	126	28.317	0.000	
┌	U-tot	238	437781	1.094	0.000	
└>	U233	233	3847	0.572	0.000	
	U233 IS	233	3847	0.572	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	64.000				ng/L
	U	235	1532.796				ng/L
	U	238	436184.437				ng/L
	U 232	232	61.667				ng/L
	U 236	236	126.001				ng/L
┌	U-tot	238	113.798	**23252.965**	324.37	1.4	ng/L
└>	U233	233	3847.147				ng/L
	U233 IS	233	3847.147	**118.074**	0.68	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d21 df4

Sample Date/Time: Monday, October 10, 2011 18:21:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473754d21 df4.1005
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	39	59.642	0.000	
	U	235	1184	7.240	0.000	
	U	238	327664	1.140	0.000	
	U 232	232	651	23.539	0.000	
	U 236	236	97	21.006	0.000	
┌	U-tot	238	328888	1.139	0.000	
└>	U233	233	3382	2.040	0.000	
	U233 IS	233	3382	2.040	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	39.333				ng/L
	U	235	1184.411				ng/L
	U	238	327664.299				ng/L
	U 232	232	650.691				ng/L
	U 236	236	96.667				ng/L
┌	U-tot	238	97.260	**19872.617**	388.23	2.0	ng/L
└>	U233	233	3382.296				ng/L
	U233 IS	233	3382.296	**103.807**	2.12	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d21L df20
Sample Date/Time: Monday, October 10, 2011 18:23:51
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473754d21L df20.1006
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	28	26.724	0.000	
	U	235	265	3.301	0.000	
	U	238	68536	1.207	0.000	
	U 232	232	215	70.928	0.000	
	U 236	236	35	11.658	0.000	
┌	U-tot	238	68829	1.206	0.000	
└>	U233	233	3571	1.617	0.000	
	U233 IS	233	3571	1.617	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	28.333				ng/L
	U	235	264.671				ng/L
	U	238	68536.403				ng/L
	U 232	232	215.337				ng/L
	U 236	236	34.667				ng/L
┌	U-tot	238	19.277	**3933.244**	60.73	1.5	ng/L
└>	U233	233	3571.035				ng/L
	U233 IS	233	3571.035	**109.600**	1.77	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d21D df4

Sample Date/Time: Monday, October 10, 2011 18:26:09
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473754d21D df4.1007
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	78	24.959	0.000	
	U	235	1197	5.331	0.000	
	U	238	330123	0.197	0.000	
	U 232	232	152	23.453	0.000	
	U 236	236	119	12.193	0.000	
┌	U-tot	238	331398	0.221	0.000	
└>	U233	233	3325	0.331	0.000	
	U233 IS	233	3325	0.331	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	78.000				ng/L
	U	235	1196.746				ng/L
	U	238	330123.093				ng/L
	U 232	232	152.335				ng/L
	U 236	236	118.667				ng/L
┌	U-tot	238	99.661	**20363.510**	98.79	0.5	ng/L
└>	U233	233	3325.275				ng/L
	U233 IS	233	3325.275	**102.057**	0.34	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: 473754d21AS df4

Sample Date/Time: Monday, October 10, 2011 18:28:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473754d21AS df4.1008
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20uL of 1° natural uranium @ df100 (11-064-06, 075-Rad-Sol 2) in 10mL

TV= 20462 ng/L × df 4 = 81,848 ng/L

10/13/11 NS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	74	41.630	0.000	
	U	235	3688	3.149	0.000	
	U	238	656348	0.955	0.000	
	U 232	232	525	9.954	0.000	
	U 236	236	106	36.147	0.000	
[	U-tot	238	660110	0.963	0.000	
L>	U233	233	3345	1.425	0.000	
	U233 IS	233	3345	1.425	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	74.000				ng/L
	U	235	3688.415				ng/L
	U	238	656348.046				ng/L
	U 232	232	525.015				ng/L
	U 236	236	106.334				ng/L
[	U-tot	238	197.355	**40331.630**	224.73	0.6	ng/L
L>	U233	233	3344.949				ng/L
	U233 IS	233	3344.949	**102.661**	1.46	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Monday, October 10, 2011 18:30:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\zzz.1009
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	21	28.352	0.000	
	U	235	21	21.819	0.000	
	U	238	87	6.902	0.000	
	U 232	232	25	25.378	0.000	
	U 236	236	19	21.535	0.000	
⌈	U-tot	238	129	8.839	0.000	
⌊>	U233	233	3424	0.687	0.000	
	U233 IS	233	3424	0.687	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	20.667				ng/L
	U	235	20.667				ng/L
	U	238	87.334				ng/L
	U 232	232	25.333				ng/L
	U 236	236	19.333				ng/L
⌈	U-tot	238	0.038	**0.860**	0.64	75.0	ng/L
⌊>	U233	233	3424.311				ng/L
	U233 IS	233	3424.311	**105.097**	0.72	0.7	%R

010336

Quantitative Analysis - Summary Report

Sample ID: 473755d21 df2
Sample Date/Time: Monday, October 10, 2011 18:33:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473755d21 df2.1010
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	63	52.897	0.000	
	U	235	2141	0.774	0.000	
	U	238	561866	1.787	0.000	
	U 232	232	549	13.133	0.000	
	U 236	236	141	34.390	0.000	
⌈	U-tot	238	564070	1.772	0.000	
⌊>	U233	233	3261	1.520	0.000	
	U233 IS	233	3261	1.520	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	63.334				ng/L
	U	235	2140.919				ng/L
	U	238	561865.678				ng/L
	U 232	232	549.350				ng/L
	U 236	236	141.335				ng/L
⌈	U-tot	238	172.962	**35345.787**	342.92	1.0	ng/L
⌊>	U233	233	3261.252				ng/L
	U233 IS	233	3261.252	**100.092**	1.52	1.5	%R

010337

Quantitative Analysis - Summary Report

Sample ID: 473755d21D df2

Sample Date/Time: Monday, October 10, 2011 18:35:19
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473755d21D df2.1011
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	90	51.047	0.000	
	U	235	2329	0.996	0.000	
	U	238	606385	1.717	0.000	
	U 232	232	667	40.400	0.000	
	U 236	236	163	16.336	0.000	
⌈	U-tot	238	608804	1.699	0.000	
⌊>	U233	233	3159	0.708	0.000	
	U233 IS	233	3159	0.708	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	90.334				ng/L
	U	235	2328.965				ng/L
	U	238	606384.864				ng/L
	U 232	232	667.360				ng/L
	U 236	236	163.001				ng/L
⌈	U-tot	238	192.704	**39380.966**	528.31	1.3	ng/L
⌊>	U233	233	3159.216				ng/L
	U233 IS	233	3159.216	**96.960**	0.69	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Monday, October 10, 2011 18:37:37
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\zzz.1012
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	37	75.240	0.000	
	U	235	50	62.097	0.000	
	U	238	150	20.849	0.000	
	U 232	232	86	28.648	0.000	
	U 236	236	50	61.544	0.000	
┌	U-tot	238	237	37.978	0.000	
└>	U233	233	3280	1.206	0.000	
	U233 IS	233	3280	1.206	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	37.000				ng/L
	U	235	50.000				ng/L
	U	238	150.335				ng/L
	U 232	232	86.000				ng/L
	U 236	236	49.667				ng/L
┌	U-tot	238	0.073	**8.010**	5.75	71.8	ng/L
└>	U233	233	3279.925				ng/L
	U233 IS	233	3279.925	**100.665**	1.21	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, October 10, 2011 18:39:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\critotU.1013
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	27	32.919	0.000	
	U	235	35	30.526	0.000	
	U	238	746	1.954	0.000	
	U 232	232	36	13.007	0.000	
	U 236	236	22	39.253	0.000	
┌	U-tot	238	808	2.803	0.000	
└>	U233	233	3359	2.381	0.000	
	U233 IS	233	3359	2.381	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	27.000				ng/L
	U	235	35.333				ng/L
	U	238	745.697				ng/L
	U 232	232	36.333				ng/L
	U 236	236	21.667				ng/L
┌	U-tot	238	0.241	**42.366**	1.81	4.3	ng/L
└>	U233	233	3359.287				ng/L
	U233 IS	233	3359.287	**103.101**	2.45	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Monday, October 10, 2011 18:42:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccv.1014
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	38	56.696	0.000	
	U	235	1008	0.922	0.000	
	U	238	132520	1.551	0.000	
	U 232	232	41	39.252	0.000	
	U 236	236	106	16.564	0.000	
┌	U-tot	238	133566	1.530	0.000	
└>	U233	233	3311	1.284	0.000	
	U233 IS	233	3311	1.284	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	38.333				ng/L
	U	235	1008.389				ng/L
	U	238	132519.710				ng/L
	U 232	232	41.000				ng/L
	U 236	236	105.667				ng/L
┌	U-tot	238	40.341	**8238.708**	159.70	1.9	ng/L
└>	U233	233	3311.270				ng/L
	U233 IS	233	3311.270	**101.627**	1.30	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, October 10, 2011 18:44:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccb.1015
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	54	42.225	0.000	
U	235	53	49.057	0.000	
U	238	85	37.249	0.000	
U 232	232	50	51.934	0.000	
U 236	236	59	50.177	0.000	
┌ U-tot	238	193	41.860	0.000	
└> U233	233	3218	0.764	0.000	
U233 IS	233	3218	0.764	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	54.334				ng/L
U	235	53.000				ng/L
U	238	85.334				ng/L
U 232	232	49.667				ng/L
U 236	236	59.334				ng/L
┌ U-tot	238	0.060	**5.415**	5.12	94.5	ng/L
└> U233	233	3217.903				ng/L
U233 IS	233	3217.903	**98.762**	0.75	0.8	%R

010342

Quantitative Analysis - Summary Report

Sample ID: 473756d21 df2

Sample Date/Time: Monday, October 10, 2011 18:46:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473756d21 df2.1016
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	32	19.009	0.000	
	U	235	1260	2.670	0.000	
	U	238	323924	0.533	0.000	
	U 232	232	91	12.452	0.000	
	U 236	236	73	23.408	0.000	
┌	U-tot	238	325216	0.520	0.000	
└>	U233	233	3140	0.731	0.000	
	U233 IS	233	3140	0.731	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	32.000				ng/L
	U	235	1260.421				ng/L
	U	238	323923.717				ng/L
	U 232	232	91.334				ng/L
	U 236	236	72.667				ng/L
┌	U-tot	238	103.578	**21164.108**	121.05	0.6	ng/L
└>	U233	233	3139.875				ng/L
	U233 IS	233	3139.875	**96.367**	0.70	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473756d21D df2

Sample Date/Time: Monday, October 10, 2011 18:49:10
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473756d21D df2.1017
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	25	24.437	0.000	
	U	235	1191	3.240	0.000	
	U	238	310985	0.402	0.000	
	U 232	232	83	4.889	0.000	
	U 236	236	59	3.390	0.000	
┌	U-tot	238	312202	0.388	0.000	
└>	U233	233	3190	1.140	0.000	
	U233 IS	233	3190	1.140	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	24.667				ng/L
	U	235	1191.411				ng/L
	U	238	310985.428				ng/L
	U 232	232	82.667				ng/L
	U 236	236	59.000				ng/L
┌	U-tot	238	97.889	**20001.303**	195.21	1.0	ng/L
└>	U233	233	3189.559				ng/L
	U233 IS	233	3189.559	**97.892**	1.12	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 473757d21 df4

Sample Date/Time: Monday, October 10, 2011 18:51:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473757d21 df4.1018
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	55	57.187	0.000	
U	235	1055	1.576	0.000	
U	238	239029	1.021	0.000	
U 232	232	130	8.668	0.000	
U 236	236	75	54.455	0.000	
U-tot	238	240138	1.008	0.000	
U233	233	3280	1.402	0.000	
U233 IS	233	3280	1.402	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	54.667				ng/L
U	235	1054.728				ng/L
U	238	239028.505				ng/L
U 232	232	129.668				ng/L
U 236	236	75.000				ng/L
U-tot	238	73.222	**14959.376**	337.58	2.3	ng/L
U233	233	3280.258				ng/L
U233 IS	233	3280.258	**100.675**	1.41	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: 473757d21D df4

Sample Date/Time: Monday, October 10, 2011 18:53:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473757d21D df4.1019
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	32	13.147	0.000	
	U	235	1222	1.748	0.000	
	U	238	280730	0.788	0.000	
	U 232	232	78	12.627	0.000	
	U 236	236	61	14.754	0.000	
┌	U-tot	238	281984	0.776	0.000	
└>	U233	233	3203	0.720	0.000	
	U233 IS	233	3203	0.720	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	31.667				ng/L
	U	235	1222.416				ng/L
	U	238	280729.770				ng/L
	U 232	232	78.000				ng/L
	U 236	236	61.000				ng/L
┌	U-tot	238	88.054	**17991.073**	235.90	1.3	ng/L
└>	U233	233	3202.564				ng/L
	U233 IS	233	3202.564	**98.291**	0.71	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473758d21
Sample Date/Time: Monday, October 10, 2011 18:56:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473758d21.1020
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	51	45.031	0.000	
	U	235	1187	2.045	0.000	
	U	238	293226	0.231	0.000	
	U 232	232	128	11.142	0.000	
	U 236	236	91	16.410	0.000	
⌈	U-tot	238	294464	0.215	0.000	
⌊>	U233	233	3000	0.328	0.000	
	U233 IS	233	3000	0.328	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	51.333				ng/L
	U	235	1187.078				ng/L
	U	238	293225.596				ng/L
	U 232	232	127.668				ng/L
	U 236	236	91.000				ng/L
⌈	U-tot	238	98.140	**20052.474**	102.91	0.5	ng/L
⌊>	U233	233	3000.495				ng/L
	U233 IS	233	3000.495	**92.089**	0.30	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: 473758d21D

Sample Date/Time: Monday, October 10, 2011 18:58:22
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473758d21D.1021
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	66	21.374	0.000	
	U	235	1251	5.062	0.000	
	U	238	309262	0.674	0.000	
	U 232	232	117	29.834	0.000	
	U 236	236	97	15.928	0.000	
[	U-tot	238	310579	0.693	0.000	
L>	U233	233	2921	1.843	0.000	
	U233 IS	233	2921	1.843	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	66.000				ng/L
	U	235	1251.086				ng/L
	U	238	309261.521				ng/L
	U 232	232	117.334				ng/L
	U 236	236	97.334				ng/L
[	U-tot	238	106.349	**21730.503**	274.73	1.3	ng/L
L>	U233	233	2920.803				ng/L
	U233 IS	233	2920.803	**89.643**	1.65	1.8	%R

010348

Quantitative Analysis - Summary Report

Sample ID: 473768d21 df4

Sample Date/Time: Monday, October 10, 2011 19:00:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\totel u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473768d21 df4.1022
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibretion File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	38	74.919	0.000	
U	235	1194	1.984	0.000	
U	238	319705	0.838	0.000	
U 232	232	58	45.561	0.000	
U 236	236	79	30.406	0.000	
┌ U-tot	238	320937	0.822	0.000	
└> U233	233	3188	0.694	0.000	
U233 IS	233	3188	0.694	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	37.667				ng/L
U	235	1194.412				ng/L
U	238	319705.065				ng/L
U 232	232	58.334				ng/L
U 236	236	79.000				ng/L
┌ U-tot	238	100.685	**20572.787**	136.79	0.7	ng/L
└> U233	233	3187.559				ng/L
U233 IS	233	3187.559	**97.830**	0.68	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 473768d21D df4
Sample Date/Time: Monday, October 10, 2011 19:03:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473768d21D df4.1023
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	63	52.109	0.000	
	U	235	1206	2.086	0.000	
	U	238	324404	1.317	0.000	
	U 232	232	88	31.051	0.000	
	U 236	236	121	22.701	0.000	
┌	U-tot	238	325672	1.296	0.000	
└>	U233	233	3107	0.616	0.000	
	U233 IS	233	3107	0.616	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	62.667				ng/L
	U	235	1205.747				ng/L
	U	238	324403.579				ng/L
	U 232	232	88.334				ng/L
	U 236	236	120.667				ng/L
┌	U-tot	238	104.809	**21415.733**	147.03	0.7	ng/L
└>	U233	233	3107.198				ng/L
	U233 IS	233	3107.198	**95.364**	0.59	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Monday, October 10, 2011 19:05:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\zzz.1024
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	50	64.838	0.000	
	U	235	41	65.989	0.000	
	U	238	146	30.149	0.000	
	U 232	232	36	62.793	0.000	
	U 236	236	43	79.081	0.000	
┌	U-tot	238	237	41.327	0.000	
└>	U233	233	3122	1.760	0.000	
	U233 IS	233	3122	1.760	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	50.000				ng/L
	U	235	41.000				ng/L
	U	238	146.335				ng/L
	U 232	232	36.000				ng/L
	U 236	236	43.333				ng/L
┌	U-tot	238	0.076	**8.770**	6.54	74.6	ng/L
└>	U233	233	3122.203				ng/L
	U233 IS	233	3122.203	**95.825**	1.69	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Monday, October 10, 2011 19:07:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\critotU.1025
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	40	104.442	0.000	
	U	235	48	93.007	0.000	
	U	238	747	6.145	0.000	
	U 232	232	34	118.088	0.000	
	U 236	236	40	110.584	0.000	
⌈	U-tot	238	834	14.709	0.000	
⌊>	U233	233	3221	1.772	0.000	
	U233 IS	233	3221	1.772	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	39.667				ng/L
	U	235	48.000				ng/L
	U	238	746.697				ng/L
	U 232	232	34.000				ng/L
	U 236	236	40.333				ng/L
⌈	U-tot	238	0.259	**46.065**	7.12	15.5	ng/L
⌊>	U233	233	3221.237				ng/L
	U233 IS	233	3221.237	**98.864**	1.75	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, October 10, 2011 19:10:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccv.1026
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	45	70.358	0.000	
	U	235	933	3.075	0.000	
	U	238	124592	1.817	0.000	
	U 232	232	29	69.225	0.000	
	U 236	236	106	19.957	0.000	
⌈	U-tot	238	125571	1.785	0.000	
⌊>	U233	233	3150	2.077	0.000	
	U233 IS	233	3150	2.077	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	45.333				ng/L
	U	235	933.048				ng/L
	U	238	124592.487				ng/L
	U 232	232	29.333				ng/L
	U 236	236	106.334				ng/L
⌈	U-tot	238	39.871	**8142.635**	205.53	2.5	ng/L
⌊>	U233	233	3150.213				ng/L
	U233 IS	233	3150.213	**96.684**	2.01	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Monday, October 10, 2011 19:12:19
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccb.1027
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	40	67.003	0.000	
	U	235	41	55.332	0.000	
	U	238	86	36.745	0.000	
	U 232	232	36	42.920	0.000	
	U 236	236	45	67.535	0.000	
┌	U-tot	238	167	47.548	0.000	
└>	U233	233	3112	1.101	0.000	
	U233 IS	233	3112	1.101	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	40.333				ng/L
	U	235	40.667				ng/L
	U	238	86.334				ng/L
	U 232	232	35.667				ng/L
	U 236	236	45.333				ng/L
┌	U-tot	238	0.054	**4.151**	5.13	123.7	ng/L
└>	U233	233	3112.199				ng/L
	U233 IS	233	3112.199	**95.517**	1.05	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 473769d21 df4
Sample Date/Time: Monday, October 10, 2011 19:14:39
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473769d21 df4.1028
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	21	32.218	0.000	
	U	235	979	2.349	0.000	
	U	238	268479	0.814	0.000	
	U 232	232	43	5.413	0.000	
	U 236	236	52	25.374	0.000	
⌈	U-tot	238	269479	0.815	0.000	
⌊>	U233	233	3050	2.761	0.000	
	U233 IS	233	3050	2.761	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	20.667				ng/L
	U	235	979.053				ng/L
	U	238	268479.274				ng/L
	U 232	232	42.667				ng/L
	U 236	236	52.333				ng/L
⌈	U-tot	238	88.381	**18057.919**	366.21	2.0	ng/L
⌊>	U233	233	3050.179				ng/L
	U233 IS	233	3050.179	**93.614**	2.58	2.8	%R

010355

Quantitative Analysis - Summary Report

Sample ID: 473769d21D df4
Sample Date/Time: Monday, October 10, 2011 19:16:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473769d21D df4.1029
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	51	83.466	0.000	
	U	235	1022	3.071	0.000	
	U	238	269422	0.894	0.000	
	U 232	232	56	65.465	0.000	
	U 236	236	81	41.289	0.000	
[	U-tot	238	270496	0.885	0.000	
L>	U233	233	3102	1.559	0.000	
	U233 IS	233	3102	1.559	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	51.000				ng/L
	U	235	1022.391				ng/L
	U	238	269422.267				ng/L
	U 232	232	56.000				ng/L
	U 236	236	80.667				ng/L
[	U-tot	238	87.226	**17821.770**	427.42	2.4	ng/L
L>	U233	233	3101.863				ng/L
	U233 IS	233	3101.863	**95.200**	1.48	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 473770d21 df4

Sample Date/Time: Monday, October 10, 2011 19:19:13
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473770d21 df4.1030
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	24	37.062	0.000	
	U	235	1147	1.134	0.000	
	U	238	304345	0.477	0.000	
	U 232	232	49	29.228	0.000	
	U 236	236	63	17.464	0.000	
┌	U-tot	238	305517	0.481	0.000	
└>	U233	233	3052	2.123	0.000	
	U233 IS	233	3052	2.123	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	24.333				ng/L
	U	235	1147.406				ng/L
	U	238	304344.957				ng/L
	U 232	232	48.667				ng/L
	U 236	236	63.334				ng/L
┌	U-tot	238	100.134	**20460.077**	521.11	2.5	ng/L
└>	U233	233	3052.179				ng/L
	U233 IS	233	3052.179	**93.675**	1.99	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: 473770d21D df4

Sample Date/Time: Monday, October 10, 2011 19:21:30
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473770d21D df4.1031
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	26	46.791	0.000	
U	235	1187	5.882	0.000	
U	238	323086	1.642	0.000	
U 232	232	76	13.761	0.000	
U 236	236	59	6.811	0.000	
[U-tot	238	324300	1.655	0.000	
L> U233	233	3014	1.510	0.000	
U233 IS	233	3014	1.510	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	26.000				ng/L
U	235	1187.411				ng/L
U	238	323086.234				ng/L
U 232	232	76.334				ng/L
U 236	236	59.334				ng/L
[U-tot	238	107.588	**21983.737**	363.68	1.7	ng/L
L> U233	233	3014.500				ng/L
U233 IS	233	3014.500	**92.519**	1.40	1.5	%R

010358

Quantitative Analysis - Summary Report

Sample ID: 473771d21 df4
Sample Date/Time: Monday, October 10, 2011 19:23:46
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473771d21 df4.1032
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	38	36.559	0.000	
	U	235	1323	3.100	0.000	
	U	238	335080	0.502	0.000	
	U 232	232	61	37.492	0.000	
	U 236	236	67	21.160	0.000	
⌈	U-tot	238	336441	0.504	0.000	
⌊>	U233	233	3071	2.475	0.000	
	U233 IS	233	3071	2.475	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	38.000				ng/L
	U	235	1323.430				ng/L
	U	238	335079.661				ng/L
	U 232	232	60.667				ng/L
	U 236	236	67.000				ng/L
⌈	U-tot	238	109.597	**22394.333**	471.03	2.1	ng/L
⌊>	U233	233	3070.852				ng/L
	U233 IS	233	3070.852	**94.248**	2.33	2.5	%R

Quantitative Analysis - Summary Report

Sample ID: 473771d21D df4

Sample Date/Time: Monday, October 10, 2011 19:26:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473771d21D df4.1033
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	58	15.031	0.000	
	U	235	1360	4.282	0.000	
	U	238	348072	0.328	0.000	
	U 232	232	66	43.704	0.000	
	U 236	236	108	15.826	0.000	
⌈	U-tot	238	349490	0.338	0.000	
⌊>	U233	233	3138	2.172	0.000	
	U233 IS	233	3138	2.172	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	58.000				ng/L
	U	235	1360.102				ng/L
	U	238	348072.366				ng/L
	U 232	232	66.000				ng/L
	U 236	236	107.667				ng/L
⌈	U-tot	238	111.425	**22767.866**	493.74	2.2	ng/L
⌊>	U233	233	3137.542				ng/L
	U233 IS	233	3137.542	**96.295**	2.09	2.2	%R

010360

Quantitative Analysis - Summary Report

Sample ID: 473772d21 df4

Sample Date/Time: Monday, October 10, 2011 19:28:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473772d21 df4.1034
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	30	62.406	0.000	
	U	235	1223	2.646	0.000	
	U	238	326328	1.350	0.000	
	U 232	232	212	35.449	0.000	
	U 236	236	75	15.377	0.000	
┌	U-tot	238	327581	1.344	0.000	
└>	U233	233	3116	1.960	0.000	
	U233 IS	233	3116	1.960	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	30.333				ng/L
	U	235	1222.749				ng/L
	U	238	326328.023				ng/L
	U 232	232	212.336				ng/L
	U 236	236	75.000				ng/L
┌	U-tot	238	105.152	**21485.820**	554.50	2.6	ng/L
└>	U233	233	3116.201				ng/L
	U233 IS	233	3116.201	**95.640**	1.87	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: 473772d21D df4

Sample Date/Time: Monday, October 10, 2011 19:30:39
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandate\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\473772d21D df4.1035
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	40	25.252	0.000	
U	235	1190	1.244	0.000	
U	238	324220	0.363	0.000	
U 232	232	56	33.238	0.000	
U 236	236	77	21.207	0.000	
U-tot	238	325450	0.359	0.000	
U233	233	3165	1.470	0.000	
U233 IS	233	3165	1.470	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	39.667				ng/L
U	235	1190.078				ng/L
U	238	324220.291				ng/L
U 232	232	55.667				ng/L
U 236	236	76.667				ng/L
U-tot	238	102.856	**21016.493**	292.04	1.4	ng/L
U233	233	3164.551				ng/L
U233 IS	233	3164.551	**97.124**	1.43	1.5	%R

010362

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Monday, October 10, 2011 19:32:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\zzz.1036
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	10.415	0.000	
	U	235	7	8.660	0.000	
	U	238	99	5.545	0.000	
	U 232	232	12	26.186	0.000	
	U 236	236	9	29.038	0.000	
┌	U-tot	238	121	2.910	0.000	
└>	U233	233	3124	0.737	0.000	
	U233 IS	233	3124	0.737	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	14.667				ng/L
	U	235	6.667				ng/L
	U	238	99.334				ng/L
	U 232	232	11.667				ng/L
	U 236	236	8.667				ng/L
┌	U-tot	238	0.039	**1.078**	0.29	26.7	ng/L
└>	U233	233	3124.203				ng/L
	U233 IS	233	3124.203	**95.886**	0.71	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Monday, October 10, 2011 19:35:19
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\critotU.1037
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	30	76.376	0.000	
	U	235	26	34.036	0.000	
	U	238	702	2.002	0.000	
	U 232	232	22	73.152	0.000	
	U 236	236	29	88.548	0.000	
┌	U-tot	238	758	3.319	0.000	
└>	U233	233	3063	4.188	0.000	
	U233 IS	233	3063	4.188	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	30.000				ng/L
	U	235	26.333				ng/L
	U	238	701.694				ng/L
	U 232	232	22.000				ng/L
	U 236	236	28.667				ng/L
┌	U-tot	238	0.248	**43.852**	3.46	7.9	ng/L
└>	U233	233	3063.183				ng/L
	U233 IS	233	3063.183	**94.013**	3.94	4.2	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Monday, October 10, 2011 19:37:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccv.1038
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	20	15.534	0.000	
	U	235	944	4.799	0.000	
	U	238	126881	0.359	0.000	
	U 232	232	9	17.625	0.000	
	U 236	236	81	2.138	0.000	
[	U-tot	238	127844	0.324	0.000	
L>	U233	233	3150	1.255	0.000	
	U233 IS	233	3150	1.255	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	19.667				ng/L
	U	235	944.049				ng/L
	U	238	126880.633				ng/L
	U 232	232	8.667				ng/L
	U 236	236	81.000				ng/L
[	U-tot	238	40.590	**8289.647**	77.32	0.9	ng/L
L>	U233	233	3149.879				ng/L
	U233 IS	233	3149.879	**96.674**	1.21	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Monday, October 10, 2011 19:39:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct\ccb.1039
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	18	47.656	0.000	
	U	235	19	15.802	0.000	
	U	238	60	21.550	0.000	
	U 232	232	18	32.680	0.000	
	U 236	236	16	31.250	0.000	
[	U-tot	238	97	21.608	0.000	
L>	U233	233	3123	4.372	0.000	
	U233 IS	233	3123	4.372	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	18.333				ng/L
	U	235	19.333				ng/L
	U	238	59.667				ng/L
	U 232	232	17.667				ng/L
	U 236	236	16.000				ng/L
[	U-tot	238	0.031	**-0.449**	1.30	290.2	ng/L
L>	U233	233	3122.537				ng/L
	U233 IS	233	3122.537	**95.835**	4.19	4.4	%R

SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 6/Jan 11

☒ 6020 TAP No. 01-0406-046 Rev15/Sep 11

☐ 6020a TAP No. 01-0406-046 Rev15/Sep 11

☐ TAP No. 01-0406-148 Rev 2/Dec 10

☐ Other

ICP-MS CALIB. STD. ID's

		TVs
S0	11-097-07	
STD. 1	11-091-04	44933 ng/
I. STD	02-415-08	0.2ppb
I. STD		

QC STD. ID's

ICV/CCV	11-097-05	7666 ng/
UCL		
CRI	11-097-06	40 ng/L
ICSA	11-097-03	–
ICSAB	11-097-04	20444 ng/L

ANALYSIS

Total Uranium

IDL Date: 08/10/2011
STD's IV, CCS 1-6 expire 10/1/12
STD's Spex, ME 1-4 expire 9/15/12

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526.05.006	Fluor	110825-10	10/11/11	SO	15 00132 –
		110915-9			15 00140

INSTRUMENT: DRCII

FILENAME: 111011~~b~~d.rep
(EE) NS 10/12/11

Analyst: M. Seiler

Date: 10/12/11

☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Tuesday, October 11, 2011 10:03:47
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\Daily Performance Check.008
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

10/11/11

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	6972.8	6972.807	57.604	0.8
	In	114.9	22587.2	22587.159	93.891	0.4
	U	238.1	23356.8	23356.834	130.209	0.6
[>	Ce	139.9	23560.2	23560.157	110.693	0.5
[	CeO	155.9	1315.3	0.056	0.001	2.2
[>	Ba	137.9	194987.9	194987.893	1195.255	0.6
[	Ba++	69.0	4292.6	0.022	0.000	0.8
	Bkgd	220.0	0.7	0.667	0.264	39.5
	Bkgd	8.5	8.0	8.000	0.913	11.4

Current Optimization File Data

Current Value	Description
1.02	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
7.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

10/13/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	4.5	437.0
Co	59	45	5.5	13226.6
In	115	45	6.3	21520.4

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Tuesday, October 11, 2011 10:03:47
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\Daily Performance Check.008
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

NSeiler
10/11/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2758	2023	0.696	
Mg	23.985	24.025	5697	2031	0.690	
Ar2	75.930	75.875	18311	2066	0.689	
In	114.904	114.975	27808	2091	0.692	
Ce	139.905	139.875	33903	2103	0.705	
Pb	207.977	207.925	50466	2143	0.714	
Th	232.038	232.075	56344	2159	0.699	
U	238.050	238.025	57796	2172	0.693	

Report Date/Time: Tuesday, October 11, 2011 10:10:22
Page 1

Quantitative Analysis - Summary Report

Sample ID: S-0
Sample Date/Time: Tuesday, October 11, 2011 19:19:51
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\S-0.123
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	17	5.882	0.000	
	U	235	9	30.929	0.000	
	U	238	21	12.599	0.000	
	U 232	232	6	73.471	0.000	
	U 236	236	7	41.660	0.000	
⌈	U-tot	238	47	13.417	0.000	
⌊>	U233	233	4114	3.655	0.000	
	U233 IS	233	4114	3.655	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	17.000				ng/L
	U	235	9.333				ng/L
	U	238	21.000				ng/L
	U 232	232	5.667				ng/L
	U 236	236	7.333				ng/L
⌈	U-tot	238	0.012				ng/L
⌊>	U233	233	4114.265				ng/L
	U233 IS	233	4114.265	**100.000**	3.66	3.7	%R

Quantitative Analysis - Summary Report

Sample ID: S-1

Sample Date/Time: Tuesday, October 11, 2011 19:22:09
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\S-1.124
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	77	9.355	0.000	
U	235	6597	0.673	0.000	
U	238	851418	1.284	0.000	
U 232	232	12	12.385	0.000	
U 236	236	178	7.368	0.000	
┌ U-tot	238	858092	1.279	0.000	
└> U233	233	4235	1.487	0.000	
U233 IS	233	4235	1.487	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	77.334				ng/L
U	235	6596.726				ng/L
U	238	851417.809				ng/L
U 232	232	12.333				ng/L
U 236	236	178.002				ng/L
┌ U-tot	238	202.627	**44933.000**	334.24	0.7	ng/L
└> U233	233	4234.986				ng/L
U233 IS	233	4234.986	**102.934**	1.53	1.5	%R

010371

Quantitative Analysis - Summary Report

Sample ID: icv
Sample Date/Time: Tuesday, October 11, 2011 19:24:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\icv.125
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	26	10.176	0.000	
	U	235	1215	2.678	0.000	
	U	238	154181	1.958	0.000	
	U 232	232	10	30.000	0.000	
	U 236	236	123	8.327	0.000	
[	U-tot	238	155422	1.921	0.000	
L>	U233	233	4136	0.937	0.000	
	U233 IS	233	4136	0.937	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	26.000				ng/L
	U	235	1214.748				ng/L
	U	238	154181.115				ng/L
	U 232	232	10.000				ng/L
	U 236	236	122.667				ng/L
[	U-tot	238	37.587	**8332.876**	223.81	2.7	ng/L
L>	U233	233	4135.607				ng/L
	U233 IS	233	4135.607	**100.519**	0.94	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: icb

Sample Date/Time: Tuesday, October 11, 2011 19:26:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\icb.126
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	17	41.177	0.000	
	U	235	13	19.868	0.000	
	U	238	113	10.206	0.000	
	U 232	232	13	33.530	0.000	
	U 236	236	18	13.072	0.000	
⌈	U-tot	238	143	9.413	0.000	
↳	U233	233	4098	0.456	0.000	
	U233 IS	233	4098	0.456	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	17.000				ng/L
	U	235	12.667				ng/L
	U	238	113.001				ng/L
	U 232	232	13.000				ng/L
	U 236	236	17.667				ng/L
⌈	U-tot	238	0.035	**5.168**	0.74	14.3	ng/L
↳	U233	233	4097.923				ng/L
	U233 IS	233	4097.923	**99.603**	0.45	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Tuesday, October 11, 2011 19:29:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\critotU.127
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	53	49.938	0.000	
	U	235	46	41.196	0.000	
	U	238	873	3.498	0.000	
	U 232	232	39	48.126	0.000	
	U 236	236	48	54.645	0.000	
┌	U-tot	238	973	7.504	0.000	
└>	U233	233	4028	1.999	0.000	
	U233 IS	233	4028	1.999	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	53.334				ng/L
	U	235	46.333				ng/L
	U	238	873.375				ng/L
	U 232	232	39.333				ng/L
	U 236	236	48.000				ng/L
┌	U-tot	238	0.242	**51.068**	4.82	9.4	ng/L
└>	U233	233	4028.226				ng/L
	U233 IS	233	4028.226	**97.909**	1.96	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: icsa
Sample Date/Time: Tuesday, October 11, 2011 19:31:19
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\icsa.128
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	21	28.641	0.000	
U	235	40	38.115	0.000	
U	238	493	6.298	0.000	
U 232	232	295	5.261	0.000	
U 236	236	17	6.928	0.000	
⌈ U-tot	238	555	5.973	0.000	
⌊> U233	233	3780	2.626	0.000	
U233 IS	233	3780	2.626	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	21.333				ng/L
U	235	40.333				ng/L
U	238	493.347				ng/L
U 232	232	294.671				ng/L
U 236	236	16.667				ng/L
⌈ U-tot	238	0.147	**30.049**	2.59	8.6	ng/L
⌊> U233	233	3779.786				ng/L
U233 IS	233	3779.786	**91.870**	2.41	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: icsab
Sample Date/Time: Tuesday, October 11, 2011 19:33:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\icsab.129
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	36.977	0.000	
	U	235	2852	4.174	0.000	
	U	238	374021	0.432	0.000	
	U 232	232	275	12.719	0.000	
	U 236	236	28	106.020	0.000	
[	U-tot	238	376920	0.413	0.000	
L>	U233	233	3921	0.246	0.000	
	U233 IS	233	3921	0.246	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	47.333				ng/L
	U	235	2851.781				ng/L
	U	238	374020.704				ng/L
	U 232	232	274.671				ng/L
	U 236	236	28.333				ng/L
[	U-tot	238	96.133	**21316.231**	97.12	0.5	ng/L
L>	U233	233	3920.845				ng/L
	U233 IS	233	3920.845	**95.299**	0.23	0.2	%R

010376

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, October 11, 2011 19:35:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\zzz.130
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	16	18.750	0.000	
U	235	10	58.823	0.000	
U	238	46	7.580	0.000	
U 232	232	11	30.987	0.000	
U 236	236	5	20.000	0.000	
U-tot	238	72	8.674	0.000	
U233	233	4279	1.998	0.000	
U233 IS	233	4279	1.998	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	16.000				ng/L
U	235	9.667				ng/L
U	238	46.333				ng/L
U 232	232	11.333				ng/L
U 236	236	5.000				ng/L
U-tot	238	0.017	**1.184**	0.40	33.9	ng/L
U233	233	4279.007				ng/L
U233 IS	233	4279.007	**104.004**	2.08	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Tuesday, October 11, 2011 19:38:15
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\ccv.131
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	21	14.321	0.000	
U	235	1195	2.014	0.000	
U	238	156995	0.950	0.000	
U 232	232	7	28.386	0.000	
U 236	236	121	11.481	0.000	
⌈ U-tot	238	158212	0.956	0.000	
└> U233	233	4212	0.373	0.000	
U233 IS	233	4212	0.373	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	21.333				ng/L
U	235	1195.079				ng/L
U	238	156995.424				ng/L
U 232	232	7.333				ng/L
U 236	236	121.001				ng/L
⌈ U-tot	238	37.564	**8327.705**	108.97	1.3	ng/L
└> U233	233	4211.976				ng/L
U233 IS	233	4211.976	**102.375**	0.38	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Tuesday, October 11, 2011 19:40:32
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\ccb.132
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	49	74.678	0.000	
	U	235	40	79.969	0.000	
	U	238	76	55.263	0.000	
	U 232	232	37	86.613	0.000	
	U 236	236	42	69.820	0.000	
⌈	U-tot	238	165	66.841	0.000	
⌊>	U233	233	4199	1.193	0.000	
	U233 IS	233	4199	1.193	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	49.000				ng/L
	U	235	40.333				ng/L
	U	238	76.000				ng/L
	U 232	232	37.000				ng/L
	U 236	236	41.667				ng/L
⌈	U-tot	238	0.039	**6.136**	5.75	93.8	ng/L
⌊>	U233	233	4198.970				ng/L
	U233 IS	233	4198.970	**102.059**	1.22	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: 473778d21 df4

Sample Date/Time: Tuesday, October 11, 2011 19:42:50
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\473778d21 df4.133
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	52	58.236	0.000	
	U	235	1373	3.284	0.000	
	U	238	357965	0.717	0.000	
	U 232	232	247	6.099	0.000	
	U 236	236	107	34.580	0.000	
┌	U-tot	238	359390	0.701	0.000	
└>	U233	233	4196	0.974	0.000	
	U233 IS	233	4196	0.974	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	51.667				ng/L
	U	235	1372.770				ng/L
	U	238	357965.479				ng/L
	U 232	232	246.670				ng/L
	U 236	236	107.001				ng/L
┌	U-tot	238	85.656	**18992.951**	216.50	1.1	ng/L
└>	U233	233	4195.968				ng/L
	U233 IS	233	4195.968	**101.986**	0.99	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 473778d21D df4

Sample Date/Time: Tuesday, October 11, 2011 19:45:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\473778d21D df4.134
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	39	77.837	0.000	
U	235	1157	1.811	0.000	
U	238	298704	0.527	0.000	
U 232	232	94	13.287	0.000	
U 236	236	91	33.252	0.000	
┌ U-tot	238	299900	0.516	0.000	
└> U233	233	4076	1.460	0.000	
U233 IS	233	4076	1.460	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
U	234	39.333				ng/L
U	235	1157.074				ng/L
U	238	298703.752				ng/L
U 232	232	94.000				ng/L
U 236	236	91.334				ng/L
┌ U-tot	238	73.580	**16314.819**	168.08	1.0	ng/L
└> U233	233	4076.247				ng/L
U233 IS	233	4076.247	**99.076**	1.45	1.5	%R

010381

Quantitative Analysis - Summary Report

Sample ID: 473045d21 df4

Sample Date/Time: Tuesday, October 11, 2011 19:47:29
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\473045d21 df4.135
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	64	50.640	0.000	
	U	235	1795	0.827	0.000	
	U	238	428324	1.261	0.000	
	U 232	232	90	50.565	0.000	
	U 236	236	130	28.216	0.000	
⌈	U-tot	238	430183	1.253	0.000	
└>	U233	233	4028	1.323	0.000	
	U233 IS	233	4028	1.323	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	64.334				ng/L
	U	235	1794.844				ng/L
	U	238	428324.148				ng/L
	U 232	232	90.001				ng/L
	U 236	236	130.334				ng/L
⌈	U-tot	238	106.811	**23684.235**	20.89	0.1	ng/L
└>	U233	233	4027.559				ng/L
	U233 IS	233	4027.559	**97.893**	1.30	1.3	%R

010382

Quantitative Analysis - Summary Report

Sample ID: 473045d21D df4

Sample Date/Time: Tuesday, October 11, 2011 19:49:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\473045d21D df4.136
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	23	25.086	0.000	
	U	235	1751	1.324	0.000	
	U	238	424113	1.396	0.000	
	U 232	232	68	11.945	0.000	
	U 236	236	75	4.092	0.000	
┌	U-tot	238	425886	1.386	0.000	
└>	U233	233	4002	2.631	0.000	
	U233 IS	233	4002	2.631	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	22.667				ng/L
	U	235	1750.502				ng/L
	U	238	424112.628				ng/L
	U 232	232	67.667				ng/L
	U 236	236	74.667				ng/L
┌	U-tot	238	106.447	**23603.665**	514.12	2.2	ng/L
└>	U233	233	4002.215				ng/L
	U233 IS	233	4002.215	**97.277**	2.56	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Tuesday, October 11, 2011 19:52:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\zzz.137
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	37	89.856	0.000	
	U	235	28	111.404	0.000	
	U	238	120	24.432	0.000	
	U 232	232	35	76.825	0.000	
	U 236	236	30	118.714	0.000	
[	U-tot	238	186	50.207	0.000	
L>	U233	233	4082	1.832	0.000	
	U233 IS	233	4082	1.832	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	37.333				ng/L
	U	235	28.000				ng/L
	U	238	120.334				ng/L
	U 232	232	35.000				ng/L
	U 236	236	29.667				ng/L
[	U-tot	238	0.045	**7.481**	4.85	64.8	ng/L
L>	U233	233	4081.583				ng/L
	U233 IS	233	4081.583	**99.206**	1.82	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Tuesday, October 11, 2011 19:54:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\critotU.138
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	17	12.010	0.000	
	U	235	15	35.277	0.000	
	U	238	822	5.953	0.000	
	U 232	232	11	35.493	0.000	
	U 236	236	13	33.819	0.000	
┌	U-tot	238	855	6.377	0.000	
└>	U233	233	4085	1.524	0.000	
	U233 IS	233	4085	1.524	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	17.333				ng/L
	U	235	15.000				ng/L
	U	238	822.371				ng/L
	U 232	232	10.667				ng/L
	U 236	236	13.333				ng/L
┌	U-tot	238	0.209	**43.826**	2.27	5.2	ng/L
└>	U233	233	4084.918				ng/L
	U233 IS	233	4084.918	**99.287**	1.51	1.5	%R

010385

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Tuesday, October 11, 2011 19:56:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\ccv.139
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	53	74.762	0.000	
	U	235	1205	5.645	0.000	
	U	238	152776	0.486	0.000	
	U 232	232	38	81.108	0.000	
	U 236	236	136	29.215	0.000	
[	U-tot	238	154033	0.514	0.000	
L>	U233	233	4126	0.583	0.000	
	U233 IS	233	4126	0.583	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	52.667				ng/L
	U	235	1205.080				ng/L
	U	238	152775.713				ng/L
	U 232	232	37.667				ng/L
	U 236	236	136.334				ng/L
[	U-tot	238	37.331	**8276.097**	65.89	0.8	ng/L
L>	U233	233	4126.270				ng/L
	U233 IS	233	4126.270	**100.292**	0.58	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Tuesday, October 11, 2011 19:59:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 1\ccb.140
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	52	6.797	0.000	
	U	235	57	25.416	0.000	
	U	238	115	13.828	0.000	
	U 232	232	51	2.976	0.000	
	U 236	236	57	14.990	0.000	
⌈	U-tot	238	224	14.113	0.000	
⌊>	U233	233	4099	2.028	0.000	
	U233 IS	233	4099	2.028	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	51.667				ng/L
	U	235	57.334				ng/L
	U	238	115.334				ng/L
	U 232	232	51.333				ng/L
	U 236	236	57.000				ng/L
⌈	U-tot	238	0.055	**9.610**	1.95	20.2	ng/L
⌊>	U233	233	4098.924				ng/L
	U233 IS	233	4098.924	**99.627**	2.02	2.0	%R

Standard Logs and Certificates of Analysis

ERA
A Waters Company

Certificate of Analysis

Lot No. S147-779

PotableWatR™ pH

Catalog No. 779
Issue Date: January 19, 2009
Revision Date: Original

Certification

Parameter	Certified Value[1] (s.u.)	Uncertainty[2]	QC PALs™[3] (s.u.)	PT PALs™[4] (s.u.)
pH	7.52	1.0%	7.43 - 7.61	7.32 - 7.72

Analytical Verification

	Round Robin Data[5]			NIST Traceability	
Parameter	Mean (s.u.)	Recovery (%)	n	SRM Number	Recovery (%)
pH	7.52	100%	118	SRM 187e	100%

Please see footnotes on back

INORGANIC LABS/RADCHEM LABS
DATE RECEIVED: 01/19/09
DATE EXPIRED: 02/01/2012
DATE OPENED: 07/01/10 JGM
INORG: 8325 PO: JE 07/01/10 JGM B PE

ERA
A Waters Company

1. The **Certified Value** is the actual "made-to" concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, times a coverage factor which is equal to the student t factor at a 95% confidence interval at n-1 degrees of freedom.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The **QC PALs™** reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the **QC PALs™** to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the **PT PALs™** when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearty) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **Analytical Verification** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. This standard **expires 2/2012.** The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com.

Certifying Officer: Tom Widera

010390

BOOK / PAGE__03 0038__________

Book I.D:_10-0406-017____

Southwest Research Institute®
6220 Culebra Rd.
San Antonio, Texas 78238

Radioactive Standards Log

Standard : 038RadSOL3

Vendor(s) : NIST

Radionuclide(s) : Tc99

Source I.D. : SRM4288a
034RadSOL1

Dilution : Secondary

Procedure :

20mL of 034RadSOL1 was diluted to a final volume of 200mL with 2.5% nitric acid (Inorg #9052 exp: 11/2013).

$\frac{20mL \times 9993.1\ pCi/mL}{200mL} = 999.31\ pCi/mL$

WAN 07/07/11

Final Activity :	999.31 pCi/mL	Reference Date :	08/27/2004
Date Prepared :	07/07/11	Certification Date :	07/08/11
Prepared By :	WAN	Re-Certification Date :	07/08/12
Reviewed By :		Date:	07/11/11

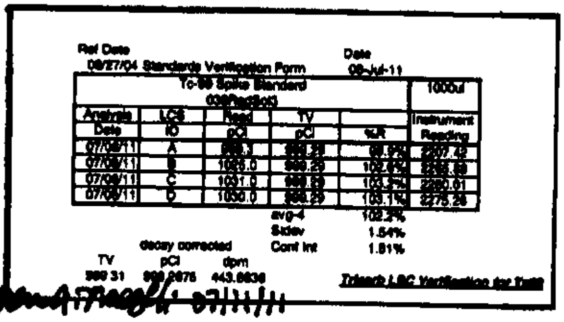
FRM-059 (Rev 1/Apr 10)

BOOK / PAGE__03 0039__________ **Book I.D:_10-0406-017____**

Southwest Research Institute®
6220 Culebra Rd.
San Antonio, Texas 78238

Radioactive Standards Log

Standard Verification(s) :



Ref Date
08/27/04 Standards Verification Form
Date
08-Jul-11

Tc-99 Spike Standard [illegible]					1000ul
Analysis Date	LCS ID	Read pCi	TV pCi	%R	Instrument Reading
07/08/11	A	[illegible]	[illegible]	[illegible]	2207.42
07/08/11	B	1025.0	999.29	102.6%	[illegible]
07/08/11	C	1031.0	999.29	103.2%	2280.01
07/08/11	D	1030.0	999.29	103.1%	2275.28
			avg-4	102.2%	
			Stdev	1.54%	
			Conf Int	1.51%	

decay corrected

TV	pCi	dpm
999.31	[illegible]	443.[illegible]

Tricarb LSC Verification for Tc99

07/11/11

WAN 07/11/11

FRM-059 (Rev 1/Apr 10)

010392

for 034-Rad-Sol1

01 035

Calculations: 32.61 KBq/g —09/01/1996

3.261x10' KBq/g = 3.261x10⁴ Bq/g x27 =

(dilution) = 8.80470⁵ pCi/g x 1.135g / [illegible]

= 9993.3 pCi/g 9/1/1996

= 9993.1 pCi/g 8/27/2004

Final activity after dilution: 9993.1 pCi/g **Reference Date:** 8/27/04

- 9993 pCi/g SigFig2

Comments: Date Correction Decay

Tc-99 T½ = 2.111e⁵y

- 0.5^((8/27/04 − 9/1/1996)/(2.111e5 * 365.25))

= 0.999974 (Decay Correction Factor)

= 0.999974 x 9993.3 pCi/g

Date Prepared: 8/27/04 **Expires:** 9/01/2006

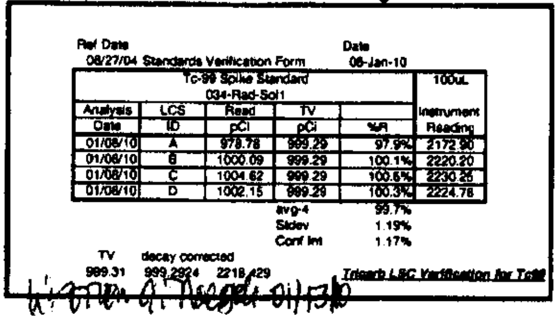
Prepared By: T. [illegible]

secondary recert 038RadSol3 07/06/11

Reviewed By: **Date:** 8-27-2004

secondary recert 012RadSol3 05/20/10

06/07/11



Ref Date
08/27/04 Standards Verification Form
Date 08-Jan-10

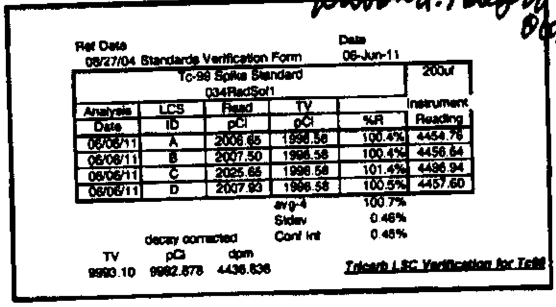
Tc-99 Spike Standard 034-Rad-Sol1					100uL
Analysis Date	LCS ID	Read pCi	TV pCi	%R	Instrument Reading
01/08/10	A	978.78	999.29	97.9%	2172.90
01/08/10	B	1000.09	999.29	100.1%	2220.20
01/08/10	C	1004.62	999.29	100.6%	2230.25
01/08/10	D	1002.15	999.29	100.3%	2224.78

avg-4 99.7%
Stdev 1.19%
Conf lmt 1.17%

TV 999.31
decay corrected 999.2924 2218.429

Tricarb LSC Verification for Tc99

01/13/10



Ref Date
08/27/04 Standards Verification Form
Date 06-Jun-11

Tc-99 Spike Standard 034RadSol1					200ul
Analysis Date	LCS ID	Read pCi	TV pCi	%R	Instrument Reading
06/06/11	A	2006.65	1996.58	100.4%	4454.76
06/06/11	B	2007.50	1996.58	100.4%	4456.64
06/06/11	C	2025.65	1996.58	101.4%	4496.94
06/06/11	D	2007.93	1996.58	100.5%	4457.60

avg-4 100.7%
Stdev 0.46%
Conf lmt 0.45%

decay corrected
TV 9993.10
pCi 9982.878
dpm 4436.636

Tricarb LSC Verification for Tc99

01 034

Southwest Research Institute
San Antonio, TX 78288-0510

Radioactive Standards Logbook

Solution# 034-Rad-Sol1

Radionuclide: Tc-99

Vendor name: Nist
SRM# 4288A
Primary Solution# Inorg # 3082

Dilution#

~~**Porcedure:**~~
Procedure:

1) Weighed 1.135g of Tc-99 Inorg #3082 into 125ml Nalgene
2) Added ~50 ml DiH_2O followed by 10mls Conc HNO_3 (±)
3) Diluted to ~~F.V~~ TOB 8/27/04, Final weigh 105.1g w/ DiH_2O.

Note: 10% HNO_3 in DiH_2O = 105g

TOB 8/27/04

010394

National Institute of Standards & Technology

Certificate

Standard Reference Material 4288A
Technetium-99 Radioactivity Standard

This Standard Reference Material (SRM) consists of radioactive technetium-99, as potassium pertechnetate, and potassium hydroxide dissolved in 5 mL of distilled water. The solution is contained in a flame-sealed NIST borosilicate-glass ampoule. The SRM is intended for the calibration of beta-particle counting instruments and for the monitoring of radiochemical procedures.

Radiological Hazard

The SRM ampoule contains technetium-99 with a total activity of approximately 160 kBq. Technetium-99 decays by beta-particle emission. None of the beta particles escape from the SRM ampoule. During the decay process no photons are emitted. Approximate unshielded dose rates at several distances (as of the reference time) are given in note [a]*. There is no detectable external radiation. The SRM should be used only by persons qualified to handle radioactive material.

Chemical Hazard

The SRM ampoule contains potassium hydroxide (KOH) with a concentration of 0.001 moles per liter of water. The solution is mildly corrosive and could represent a health hazard if it comes in contact with eyes or skin. If the ampoule is to be opened to transfer the solution, the recommended procedure is given on page 2.

Storage and Handling

The SRM should be stored and used at a temperature between 5 and 65 °C. The solution is an unopened ampoule should remain stable and homogeneous until at least September 2006.

The ampoule (or any subsequent container) should always be clearly marked as containing radioactive material. If the ampoule is transported it should be packed, marked, labeled, and shipped in accordance with the applicable national, international, and carrier regulations. The solution in the ampoule is a dangerous good (hazardous material) because of the radioactivity.

Preparation

This Standard Reference Material was prepared in the Physics Laboratory, Ionizing Radiation Division, Radioactivity Group, J.M.R. Hutchinson, Group Leader. The overall technical direction and physical measurements leading to certification were provided by L.L. Lucas of the Radioactivity Group.

The support aspects involved in the preparation, certification, and issuance of this SRM were coordinated through the Standard Reference Materials Program by N.M. Trahey.

Gaithersburg, Maryland 20899
October 1996 (Text only revised November 1997)

Thomas E. Gills, Chief
Standard Reference Materials Program

DATE RECEIVED: 9/25/01
DATE EXPIRED: Sept. 2006 DK
DATE OPENED: 10/11/01
INDEX#: 3082 PO: Client Supplied

*Notes and references are on pages 5 and 6.

Recommended Procedure for Opening the SRM Ampoule

1) If the SRM solution is to be diluted, it is recommended that the diluting solution have a composition comparable to that of the SRM solution.

2) Wear eye protection, gloves, and protective clothing and work over a tray with absorbent paper in it.

3) Shake the ampoule to wet all of the inside surface of the ampoule. Return the ampoule to the upright position.

4) Check that all of the liquid has drained out of the neck of the ampoule. If necessary, gently tap the neck to speed the process.

5) Holding the ampoule upright, score the narrowest part of the neck with a scribe or diamond pencil.

6) Lightly wet the scored line. This reduces the crack propagation velocity and makes for a cleaner break.

7) Hold the ampoule upright with a paper towel, a wiper, or a support jig. Position the scored line away from you. Using a paper towel or wiper to avoid contamination, snap off the top of the ampoule by pressing the narrowest part of the neck away from you while pulling the tip of the ampoule towards you.

8) Transfer the solution from the ampoule using a pycnometer or a pipet with dispenser handle. NEVER PIPETTE BY MOUTH.

9) Seal any unused SRM solution in a flame-sealed glass ampoule, if possible, to minimize the evaporation loss. See also reference [4]*.

*Notes and references are on pages 5 and 6.

010396

PROPERTIES OF SRM 4288A
(Certified values are shown in bold type)

Source identification number	NIST SRM 4288A		
Physical Properties:			
Source description	Liquid in flame-sealed NIST borosilicate-glass ampoule		
Ampoule specifications	Body outside diameter Wall Thickness Barium content Lead-oxide content Other heavy elements	(16.5 ± 0.5) mm (0.60 ± 0.04) mm Less than 2.5% Less than 0.02% Trace quantities	
Solution density	(0.998 ± 0.002) g·mL^{-1} at 21 °C [b]*		
Solution mass	(4.998 ± 0.002) g [b]		
Chemical Properties:			
Solution composition	Chemical Formula	Concentration (mol·L^{-1})	Mass Fraction (g·g^{-1})
	H_2O KOH $K^{99}TcO_4$	55 0.001 0.0005	1.00 0.00006 0.0001
Radiological Properties:			
Radionuclide	Technetium-99		
Reference time	1200 EST, 1 September 1996		
Massic activity of the solution [c]	32.61 kBq·g^{-1}		
Relative expanded uncertainty (k=2)	1.14% [d] [e]		
Photon-emitting impurities	None detected [f]		
Half lives used in the decay corrections	Cobalt-60: (5.2714 ± 0.0005) a [g] Technetium-99: (2.111 ± 0.012) × 10^5 a [g]		
Measuring instrument	NIST 4πβ(LS)-γ-anticoincidence counting system using cobalt-60 as the efficiency-tracing radionuclide. The efficiency was varied electronically from 50 to 93 percent.		

*Notes and references are on pages 5 and 6.

EVALUATION OF THE UNCERTAINTY OF THE MASSIC ACTIVITY [d]*

Input Quantity x_i, the source of uncertainty (and individual uncertainty components where appropriate)	Method Used To Evaluate $u(x_i)$, the standard uncertainty of x_i (A) denotes evaluation by statistical methods (B) denotes evaluation by other methods	Relative Uncertainty Of Input Quantity, $u(x_i)/x_i$, (%) [b]	Relative Sensitivity Factor, $\lvert \partial y/\partial x_i \rvert \cdot (x_i/y)$ [l]	Relative Uncertainty Of Output Quantity, $u_i(y)/y$, (%) [l]
Extrapolated massic liquid-scintillation count rate of the Tc-99 solution, corrected for background, Co-60 tracer count rate, and decay.	Standard deviation of the mean for 4 sets of repeated measurements on each of 3 samples (A)	0.10	1.0	0.10
Half life of Co-60 Half life of Tc-99	Standard uncertainty of the half life (A)	0.01 [k] 0.6 [k]	0.01 [m] 0.000005	0.0001 0.000003
Decay scheme data	Standard uncertainty of the probability of decay by beta-particle emission (A)	0.01	1.0	0.01
Extrapolation of the beta-particle-count-rate versus anticoincidence-gamma-ray-count-rate to zero anticoincidence-gamma-ray-count-rate	Estimated (B)	0.40	1.0	0.40
Calibration of the Co-60 tracer solution using the $4\pi\beta$(LS)-γ-anticoincidence counting system	Standard uncertainty of the extrapolated massic count rate (B)	0.25	1.0	0.25
Gravimetric measurements	Estimated (B)	0.20	1.0	0.20
Live time [n]	Estimated (B)	0.10	1.0	0.10
Variability between ampoules	Estimated (B)	0.20	1.0	0.20
Photon-emitting impurities	Limit of detection (B) [p]	100.	0.00004	0.004

Relative Combined Standard Uncertainty of the Output Quantity, $u_c(y)/y$, (%)	0.57
Coverage Factor, k	x 2
Relative Expanded Uncertainty of the Output Quantity, U/y, (%)	1.14

SRM 4288A, page 4 of 6

*Notes and references are on pages 5 and 6.

NOTES

[a] The Sievert is the SI unit for dose equivalent. See reference [1]. One μSv is equal to 0.1 mrem.

Distance from Ampoule (cm):	1	30	100
Approximate Dose Rate (μSv/h):	<0.1		(Not detectable)

[b] The stated uncertainty is two times the standard uncertainty.

[c] Massic activity is the preferred name for the quantity activity divided by the total mass of the sample. See reference [1].

[d] The reported value, y, of massic activity (activity per unit mass) at the reference time was not measured directly but was derived from measurements and calculations of other quantities. This can be expressed as $y = f(x_1, x_2, x_3, \ldots x_n)$, where f is a mathematical function derived from the assumed model of the measurement process.

The value, x_i, used for each input quantity i has a standard uncertainty, $u(x_i)$, that generates a corresponding uncertainty in y, $u_i(y) = |\partial y/\partial x_i| \cdot u(x_i)$, called a component of combined standard uncertainty of y.

The combined standard uncertainty of y, $u_c(y)$, is the positive square root of the sum of the squares of the components of combined standard uncertainty.

The combined standard uncertainty is multiplied by a coverage factor of $k = 2$ to obtain U, the expanded uncertainty of y.

Since it can be assumed that the possible estimated values of the massic activity are approximately normally distributed with approximate standard deviation $u_c(y)$, the unknown value of the massic activity is believed to lie in the interval $y \pm U$ with a level of confidence of approximately 95 percent.

For further information on the expression of uncertainties, see references [2] and [3].

[e] The value of each standard uncertainty component, and hence the value of the expanded uncertainty itself, is a best estimate based upon all available information, but is only approximately known. That is to say, the "uncertainty of the uncertainty" is large and not well known. This is true for uncertainties evaluated by statistical methods (e.g., the relative standard deviation of the standard deviation of the mean for the liquid-scintillation counting is approximately 50%) and for uncertainties evaluated by other methods (which could easily be over estimated or under estimated by substantial amounts). The unknown value of the expanded uncertainty is believed to lie in the interval $U/2$ to $2U$ (i.e., within a factor of 2 of the estimated value).

[f] Estimated limits of detection for photon-emitting impurities are:
$2 \times 10^{-4}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 20 and 85 keV,
$2 \times 10^{-5}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 93 and 503 keV,
$1 \times 10^{-5}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 519 and 1457 keV, and
$5 \times 10^{-6}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 1465 and 3250 keV.

[g] The stated uncertainty is the standard uncertainty. See reference [5].

[h] Relative standard uncertainty of the input quantity x_i.

[i] The relative change in the output quantity y divided by the relative change in the input quantity x_i. If $|\partial y/\partial x_i| \cdot (x_i/y) = 1.0$, then a 1% change in x_i results in a 1% change in y. If $|\partial y/\partial x_i| \cdot (x_i/y) = 0.05$, then a 1% change in x_i results in a 0.05% change in y.

[j] Relative component of combined standard uncertainty of output quantity y, rounded to two significant figures or less. The relative component of combined standard uncertainty of y is given by $u_i(y)/y = |\partial y/\partial x_i| \cdot u(x_i)/y = |\partial y/\partial x_i| \cdot (x_i/y) \cdot u(x_i)/x_i$. The numerical values of $u(x_i)/x_i$, $|\partial y/\partial x_i| \cdot (x_i/y)$, and $u_i(y)/y$, all dimensionless quantities, are listed in columns 3, 4, and 5, respectively. Thus, the value in column 5 is equal to the value in column 4 multiplied by the value in column 3. The input quantities are independent, or very nearly so. Hence the covariances are zero or negligible.

[k] The relative standard uncertainty of $\lambda \cdot t$ is determined by the relative standard uncertainty of λ (i.e., of the half life). The relative standard uncertainty of t is negligible.

[m] $|\partial y/\partial x_i| \cdot (x_i/y) = |\lambda \cdot t|$, multiplied by other sensitivity factors where appropriate.

[n] The live time is determined by counting the pulses from a gated crystal-controlled oscillator.

[p] The standard uncertainty for each undetected impurity that might reasonably be expected to be present is estimated to be equal to the estimated limit of detection for that impurity, i.e. $u(x_i)/x_i = 100\%$. $|\partial y/\partial x_i| \cdot (x_i/y) = \{$(response per Bq of impurity)/(response per Bq of Tc-99)$\} \cdot \{$(Bq of impurity)/(Bq of Tc-99)$\}$. Thus $u_i(y)/y$ is the relative change in y if the impurity were present with a massic activity equal to the estimated limit of detection.

REFERENCES

[1] International Organization for Standardization (ISO), *ISO Standards Handbook - Quantities and Units*, 1993. Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036, U.S.A. 1-212-642-4900.

[2] International Organization for Standardization (ISO), *Guide to the Expression of Uncertainty in Measurement*, 1993. Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036, U.S.A. 1-212-642-4900. (Listed under ISO miscellaneous publications as "ISO Guide to the Expression 1993".)

[3] B. N. Taylor and C. E. Kuyatt, *Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results*, NIST Technical Note 1297, 1994. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, U.S.A.

[4] National Council on Radiation Protection and Measurements Report No. 58, *A Handbook of Radioactivity Measurements Procedures*, Second Edition, 1985. Available from the National Council on Radiation Protection and Measurements, 7910 Woodmont Avenue, Bethesda, MD 20814 U.S.A.

[5] Evaluated Nuclear Structure Data File (ENSDF), September 1996.

SOUTHWEST RESEARCH INSTITUTE®

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Chemistry and Chemical Engineering Division
Department of Analytical and Environmental Chemistry

November 23, 2011

Fluor-B&W Portsmouth LLC
3930 U.S. Route 23 South
Bldg. X-1000
Piketon, OH 45661

Attn: Gerald Fulkerson

Subject:	Client ID:	FXP02234L04
	SwRI Project Number:	16526.05.00X
	SDG:	474212
	SwRI Task Order Number:	110830-12, 110831-5, 110901-7, 110902-3, 111122-15
	SwRI Sample Receipt Number:	45547, 45562, 45570, 45578, 45654
	Samples Received:	08.30.11, 08.31.11, 09.01.11, 09.02.11, 9.15.11, 10.06.11
	Fraction:	Various Analyses

Dear Mr. Fulkerson:

Please find the enclosed results for the sixteen (16) samples received on the above referenced date. Should you have any questions, please feel free to contact me at 210-522-3242.

Sincerely,

Radonna Spies
Group Leader

APPROVED:

Michael J. Dammann
Director

RS: aa
Encl

DETROIT, MICHIGAN (248) 353-2550 • HOUSTON, TEXAS (713) 977-1377 • WASHINGTON, DC (301) 881-0226

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110830-12, 110831-5,
110901-7, 110902-3, 111122-15
SRR: 45547, 45562, 45570, 45578, 45654
CASE: FXP02234L04
VTSR: 08.30.11, 08.31.11, 09.01.11,
09.02.11, 09.15.11, 10.06.11
PROJECT#: 16526.05.00X

NARRATIVE

Client: Fluor-B&W Portsmouth LLC
SDG: 474212
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110830-12, 110831-5, 110901-7, 110902-3

INORGANICS ANALYSIS

The Distribution Coefficients (K_d) for Tc-99 and Total Uranium (U) were determined using the following modification to ASTM C1733.

The contact solution was be prepared by spiking the client provided Tc-99 contaminated groundwater, which had been filtered through a Whatman #1810-125 acid treated TCLP filter, at 100 ppb Uranium. (Tc-99 groundwaters 749-WPW-06, 749-WPW-07, 749-WPW-08 were used). Only the minimum volume needed for the sample batch was prepared. Samples were weighted in duplicate for 5 time points (Day 7, Day 10, Day 14, Day 21 and Day X). The method specifies a 1:25 soil to contact solution test ratio; therefore, 200 mL of contact solution was added to 8 g of soil in a 250-mL Nalgene bottle. Samples were tumbled using the TCLP tumbler for 12-hours a day. For each time point, a 200 mL of the contact solution was added to an empty Nalgene and processed alongside the sample as a time point "Blank" for each Day n.

At each time point, the sample duplicates and time point "Blank" were filtered using a Whatman #1810-125 acid treated TCLP filter. The filtrate was preserved with nitric acid and stored for analysis. After the 4th time point (Day 21), all samples and "Blanks" were submitted for Tc-99 and total uranium analysis.

To calculate Kd in C1733, the following equation is used:

$$K_d = \frac{\frac{(C_s\, x\, V) - (C_f x\, V)}{m}}{C_f}$$

Where:
Cs = Starting Concentration of analyte of interest in contact solution
Cf = Final Concentration of analyte of interest in contact solution
V = Total Volume of contact liquid (mL)
m = Dry Mass of Solid (g)

For the purposes of this modified analysis at multiple time points, the concentrations of all "Blanks" analyzed were averaged and used as the starting concentration of the contact solution. The samples were not dried prior to the sample analysis; therefore, a percent solids was performed, and the results are reported on a dry weight basis. Therefore, following equation was used:

$$K_d = \frac{\frac{\left(C_{avg\ blk} x\, V\right) - (C_{day\,x}\, x\, V)}{m\, x\, \%\, soilds}}{C_{day\,x}}$$

Where:

Client: Fluor-B&W Portsmouth LLC
SDG: 474212
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110830-12, 110831-5, 110901-7, 110902-3

$C_{avg\ blk}$ = average "Blank" concentration which represents the starting concentration of analyte of interest in contact solution
$C_{day\ x}$ = concentration of analyte of interest in contact solution at time point x
V = total volume of contact liquid (mL)
m = weight of Solid (g)

In addition to the K_d values, the propagated uncertainties were also calculated. The K_d values and the uncertainties for the sample duplicates were averaged for each time point. By evaluating these values, it was established when the Tc-99 and U sorption equilibrium had been reached. It was determined that all of the Tc-99 had reached equilibrium by Day 21. For the U, five samples were questionable whether or not equilibrium was reached by Day 21; therefore, Day X was analyzed for samples: SwRI ID# 474213, 474214, 474221, 474222 and 474340 on Day 32.

The final K_d value reported is an average of all K_d time points values once equilibrium was achieved. With the exception of the five samples with questionable U equilibrium, it appeared that equilibrium was reached by the first time point (Day 7) for all samples. Therefore, the final K_d and uncertainties values are the averages of Days 7-21. After evaluating the Kd values of Day X, it was determined that they did not statistically differ enough or did not trend in the correct direction compared to Day 7-21; therefore, the final K_d and uncertainties values are the averages of Days 7-X.

Per the method, "Often solid phase samples contain grains greater than 2mm in diameter. Since it is often assumed that these gravelsized grains have little or no sorption capacity, the Kd can be corrected to account for the presence of gravel. Kd values are determined as above on samples that have been sieved to remove gravel. The average gravel (greater than 2 mm) mass percentage of the material to be analyzed for Kd must be known or determined on a large mass (1 kg or more) to get representative percentage. The Kd that was determined on the <2 mm fraction is reduced by the mass fraction of gravel according to:"

$$K_{d\ corrected} = K_{<2,mm}(1 - f)$$

Where:
f = decimal mass fraction of gravel in the total sample.

SwRI #474213 contained 2.78%, 474214 contained 9.20% and 474401 contained 22.5% of large rocks that were removed from the sample prior to testing. The K_d value determined was then corrected for the mass fraction of gravelsized grains.

Client: Fluor-B&W Portsmouth LLC
SDG: 474212
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110830-12, 110831-5, 110901-7, 110902-3

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."

Group Leader

11/22/11
Date

Client: Fluor B&W Portsmouth
SDG: 474212
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110830-12, 110831-5, 110901-7, 110902-3

RADIOLOGICAL ANALYSIS

The sample SDG 474212 consisted of thirteen soil samples received for radiological analysis. The soil samples for radiological analysis were reported on an "as received" basis. The recommended sample holding time of six months was met.

The samples were analyzed for the following:

Matrix	Analysis	Method
Soil	^{99}Technetium	Liquid Scintillation Spectroscopy

^{99}Technetium

A 100ml aliquot of each sample fraction was analyzed for ^{99}Technetium. The sample aliquots were digested at 80°C for 4 hours with nitric acid and then one additional hour with hydrogen peroxide. The aliquots were then brought to a final volume of 50ml and then chemically separated using resins. A preparation blank and two laboratory control samples were analyzed with each sample batch. Each sample fraction was analyzed in duplicate.

For all liquid scintillation analysis, the daily instrument performance checks were within the running statistical control limits.

For ^{99}Tc analysis, the ^{99}Tc was separated from the digestion using chemical separation resins. After chemical separation, the resin containing the ^{99}Tc was placed into a liquid scintillation vial and 15 ml of scintillation cocktail was added. The samples were counted on a liquid scintillation counter programmed to count only the ^{99}Tc region of interest. The liquid scintillation counter ^{99}Tc program was standardized using ^{99}Tc as the radioisotope to establish a specific efficiency quench curve. A total of four preparation blanks and eight laboratory control samples were analyzed with the sample batches. All of the results for the preparation blanks were less than 1.65 times the TPU, the MDA, and the RL. The results for all of the laboratory control samples were within the recovery control limits of 75-125%. Each sample fraction was analyzed in duplicate and the sample duplicate evaluation ratio was less than three for all duplicates. A matrix spike and matrix spike duplicate were not performed with any of the analyses.

Client: Fluor B&W Portsmouth
SDG: 474212
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110830-12, 110831-5, 110901-7, 110902-3

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."

Warren A. Naegeli

Research Scientist

11/21/11

Date

Client: Fluor – B&W Portsmouth LLC
SDG: 474212
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 110830-12, 110831-5, 110901-7, 110902-3

TOTAL URANIUM ANALYSIS

The acidified leachates were analyzed directly (no digestion was required) for total uranium by ICP-MS. All instrument QC criteria were met. The percent recoveries for the initial and continuing calibration verifications were within 90-110%. Total uranium was not detected above SwRI's reporting limit in the initial and continuing calibration blanks. The low level, CRI standard recoveries were within 50-150%. The percent recoveries for the interference check sample ICSABs were within 80-120%. The internal standard recoveries were within 80-120% for the ICV/CCV/ICB/CCBs and within 30-120% for all samples.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."

11/21/11

Group Leader **Date**

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110830-12, 110831-5, 110901-7, 110902-3, 111122-15
SRR: 45547, 45562, 45570, 45578, 45654
CASE: FXP02234L04
VTSR: 08.30.11, 08.31.11, 09.01.11, 09.02.11, 09.15.11, 10.06.11
PROJECT#: 16526.05.00X

SAMPLE RECEIPT, TASK ORDER & CHAIN OF CUSTODY

Sample Receipt

Sample Receipt Number: 45547

Southwest Research Institute

VTSR: 08/30/11 Time: 09:30:00

Project: 16526.05.00X
Case #: FXP02234L04
Client: Fluor-B&W Portsmouth LLC

Manager: DAMMANN, MIKE
Logged in by: DRoman
Creation Date: 08/30/11

Notes

Samples were received intact 3.0 °C (blue & wet ice)
Fed Ex Tracking #s:
875591109682
874541430814
874541430755
874541430803
875591109454

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:
001 - admin
006 - metals
007 - drg
*** DRoman Aug 30 2011 3:15PM ***

Background CPM: <100 cpm
Container Wipe CPM: <100 cpm
Total CPM: <100

System ID	Customer ID	CED	Matrix	Containers	Special Reqs.
474203	231A-01G-04	08/19/11	WG	1	
474204	749-WPW-04	08/19/11	WG	1	
474205	WDSB01-04-12.0	08/27/11	SO	1	
474206	WDSB01-04-19.5	08/27/11	SO	1	
474207	WDSB01-04-2.0	08/26/11	SO	1	
474208	WDSB01-04-24.5	08/27/11	SO	1	
474209	WDSB01-04-4.5	08/26/11	SO	1	
474210	WDSB07-04-12.0	08/25/11	SO	1	
474211	WDSB07-04-4.5	08/25/11	SO	1	
474212	WDSB07-07-12.0	08/25/11	SO	1	
474213	WDSB07-07-2.0	08/25/11	SO	1	
474214	WDSB07-07-4.5	08/25/11	SO	1	
474215	WDSB07-09-12.0	08/25/11	SO	1	
474216	WDSB07-09-2.0	08/25/11	SO	1	
474217	WDSB07-09-4.5	08/25/11	SO	1	
474218	WDSB07-15-4.5	08/25/11	WQ	3	
474219	WDSB09-04-2.0	08/25/11	SO	1	
474220	WDSB09-04-4.5	08/25/11	SO	1	
474221	WDSB09-07-2.0	08/25/11	SO	1	
474222	WDSB09-07-4.5	08/25/11	SO	1	
474223	WDSB09-09-2.0	08/25/11	SO	1	
474224	WDSB09-09-4.5	08/25/11	SO	1	
474225	WDSB09-15-4.5	08/25/11	WQ	3	
474226	WDSB09-28-19.5	08/25/11	WQ	3	

Containers: 30 **Samples: 24**

Client: Fluor-B&W Ports
SR#: 4554
FRM-002

Page Printed: 23 Nov 2011 9:12:01

000010

Sample Receipt

Sample Receipt Number: 45547

Southwest Research Institute

VTSR: 08/30/11

Time: 09:30:00

Project: 16526.05.00X
Case #: FXP02234L04
Client: Fluor-B&W Portsmouth LLC

Manager: DAMMANN, MIKE
Logged in by: DRoman
Creation Date: 08/30/11

These documents are associated with this receipt: 108385[COC for SRR 45547], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Thermometer: 027
Temperature: 3.0

Client: Fluor-B&W Ports

SR#: 4554

FRM-002

Page Printed: 23 Nov 2011 9:12:01
ver (9/12/2011)

000011

Southwest Research Institute

Laboratory Task Order

TO #: 110830-12 Revision: 5

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 10/05/11
To QA: 10/05/11
To Client: 10/06/11

SDG: 474212
VTSR: 08/30/11
CASE: FXP02234L04

SRR #'s: 45547
Client(s): Fluor-B&W Portsmouth LLC

Instructions

FLUOR-B&W PORTSMOUTH LLC. SOW FXP02234L04. Project OSDC
SDG is 474212. SDG IS CLOSED.

28-day TAT HARDCOPY.
FINAL DATA/HARDCOPY IS DUE TO THE CLIENT ON 10/07/11.

24 overall SO/WQ samples (30 containers) received on 08/30/11 for SOW FXP02234L04. OUT of the 24 samples, only the 5 SOIL samples for DISTRIBUTION COEFFICIENT and the 2 WATER Tc99/U SPIKES are listed in this task order.

see SOW for full compound list, CRDLs and PLs:
ASTM C1733 Distribution Coefficients
Tc-99 LSC - Technetium-99 (to support ASTM C1733; see summary)
Total U by ICP-MS (to support ASTM C1733; see summary)

EDD REQUIRED. FORMS PLUS RAW DATA PACKAGE REQUIRED.

PROJECT DESCRIPTION _ Change Order #3 _ Characterization to Support Siting of On-Site Disposal Facility
ELECTRONIC DATA DELIVERABLE _ Electronic Deliverable (AMSED) uploaded into PEMS via the internet plus CD.
QC REQUIREMENTS _ Per ICPT BOA/QSAS and method requirements.
SMO representative is Jim Applegate James.Applegate@fbports.com; 740.897.4081
Additional contact is Gerald Fulkerson 740 897 2588, Gerald.Fulkerson@fbports.com.
****
Report ORIGINAL & CD Results to:
FLUOR-B&W PORTSMOUTH LLC.
Attn: Gerald Fulkerson 740-897-2588
3930 U.S. Route 23 South
Building X-1000
Piketon, Ohio 45661

REVISION 1, DRmz 08/31/11: Task Order revised to indicate additional samples received on 08/31/11, which have been grouped with SDG 474212, located in Task Order # 110831-5, SRR 45562.
REVISION 2, DRmz 09/1/11: Task Order revised to indicate additional samples received on 09/01/11, which have been grouped with SDG 474212, located in Task Order # 110901-7, SRR 45570. SDG is still OPEN.
REVISION 3, DRmz 09/2/11: Task Order revised to indicate additional samples received on 09/02/11, which have been grouped with SDG 474212, located in Task Order # 110902-3, SRR 45578. SDG is CLOSED.
REVISION 4, DRmz 09/9/11: Task Order revised to indicate additional samples received on 09/9/11, which are the U containing spikes needed for the SOIL samples in SDG 474212, located in Task Order # 110909-10, SRR 45608. Due dates updated. SDG is CLOSED.
REVISION 5, DRmz 11/22/11: Task Order revised to remove samples 474203 and 474204, which those ground water spiked samples do not pertain to this SDG.

Documents Related to this task order: 106365[COC for SRR 45547], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Deliverables --> Hard Copy: -YES- EDD: -YES- PDF: -YES-

Test: ASTM_C1733 Holding: 180 days from CED
Section: WETCHEM **ASTM C1733 - 10 Method for Distribution Coefficients of Inorganic Species by the Batch Method** Cnt: 5

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
474212		1	SO	WDSB07-07-12.0	25 Aug 11	21 Feb 12
474213		1	SO	WDSB07-07-2.0	25 Aug 11	21 Feb 12
474214		1	SO	WDSB07-07-4.5	25 Aug 11	21 Feb 12
474221		1	SO	WDSB09-07-2.0	25 Aug 11	21 Feb 12
474222		1	SO	WDSB09-07-4.5	25 Aug 11	21 Feb 12

Southwest Research Institute

Laboratory Task Order

TO #: 110830-12 Revision: 5

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 10/05/11
To QA: 10/05/11
To Client: 10/06/11

SDG: 474212
VTSR: 08/30/11
CASE: FXP02234L04

SRR #'s: 45547
Client(s): Fluor-B&W Portsmouth LLC

Test: ICPMS-SWRI-ISO_U
Section: METALS

Holding: 180 days from ASTM_C1733

ICPMS SwRI Method Isotopic Uranium

Cnt: 5

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
474212		1	SO	WDSB07-07-12.0	07 Nov 11	05 May 12
474213		1	SO	WDSB07-07-2.0	07 Nov 11	05 May 12
474214		1	SO	WDSB07-07-4.5	07 Nov 11	05 May 12
474221		1	SO	WDSB09-07-2.0	07 Nov 11	05 May 12
474222		1	SO	WDSB09-07-4.5	07 Nov 11	05 May 12

Test: LSC-TC99_SWRI
Section: RADCHEM

Holding: 180 days from ASTM_C1733

Technetium-99 by liquid scintillation counting

Cnt: 5

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
474212		1	SO	WDSB07-07-12.0	07 Nov 11	05 May 12
474213		1	SO	WDSB07-07-2.0	07 Nov 11	05 May 12
474214		1	SO	WDSB07-07-4.5	07 Nov 11	05 May 12
474221		1	SO	WDSB09-07-2.0	07 Nov 11	05 May 12
474222		1	SO	WDSB09-07-4.5	07 Nov 11	05 May 12

L06573

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC77LL**

Page: 1 for OSDC77LL
Date: 08/31/2011 01:51 PM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Unit	Type	Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
WDSB25-28-4.5	OSDC77	SS	WQ	RIN	1	L	HDPE	3	31-AUG-2011	745		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	HNO3	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	01-SEP-2011	OSDC	OSDC77LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 9-1-11	Time: 0830	Received by: AWS	Date(mm/dd/yyyy): 9-1-11	Time: 0830
Relinquished by: AWS	Date(mm/dd/yyyy): 9-1-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 9-1-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 9/2/11	Time: 0830	Received by:	Date(mm/dd/yyyy): 9/2/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

LOE

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/02/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45578
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 22.0 °C / #027

006573

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC97LL**

Page: 1 for OSDC97LL
Date: 09/01/2011 07:05 AM

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/02/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45578
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 22.0 °C / #027

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
WDMW03B-04-12.0	OSDC97	SS	SO	REG	8	OZ	AGLS	1	31-AUG-2011	1500		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDMW03B-04-2.0	OSDC97	SS	SO	REG	8	OZ	AGLS	1	31-AUG-2011	1410		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDMW03B-04-4.5	OSDC97	SS	SO	REG	8	OZ	AGLS	1	31-AUG-2011	1420		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	01-SEP-2011	OSDC	OSDC97LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 9-1-11	Time: 0830	Received by: AWS	Date(mm/dd/yyyy): 9-1-11	Time: 0830
Relinquished by: AWS	Date(mm/dd/yyyy): 9-1-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 9-1-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 9/2/11	Time: 0930	Received by:	Date(mm/dd/yyyy): 9/2/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

UN 000014

106573

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**

Lab Chain of Custody (LCOC) Number: **OSDC76LL**

Page: 1 for OSDC76LL
Date: 08/31/2011 01:01 PM

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/02/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45578
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 22.0 °C / #027

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
WDSB25-04-2.0	OSDC76	SS	SO	REG	8	OZ	AGLS	1	31-AUG-2011	725		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB25-04-4.5	OSDC76	SS	SO	REG	8	OZ	AGLS	1	31-AUG-2011	735		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB25-07-2.0	OSDC76	SS	SO	REG	8	OZ	AGLS	1	31-AUG-2011	725		Distribution Coefficient	DEG4C	
WDSB25-07-4.5	OSDC76	SS	SO	REG	8	OZ	AGLS	1	31-AUG-2011	735		Distribution Coefficient	DEG4C	
WDSB25-09-2.0	OSDC76	SS	SO	REG	4	OZ	AGLS	1	31-AUG-2011	725		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB25-09-4.5	OSDC76	SS	SO	REG	4	OZ	AGLS	1	31-AUG-2011	735		Cation-Exchange Capacity (SW846-9081)	DEG4C	

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX	01-SEP-2011	OSDC	OSDC76LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 9-1-11	Time: 0830	Received by: AWS	Date(mm/dd/yyyy): 9-1-11	Time: 0830
Relinquished by: AWS	Date(mm/dd/yyyy): 9-1-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 9-1-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 9/2/11	Time: 0830	Received by:	Date(mm/dd/yyyy): 9/2/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

000015

LOC

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC76LL**

Page: 2 for OSDC76LL
Date: 08/31/2011 01:01 PM

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/02/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45578
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 22.0 °C / #027

000017

Southwest Research Institute

Traffic Report

Sample Custodian Signature: ______________________

Project: 16526.05-00X
Case: FXP02234L04 / SDG: ____________
Sample Receipt: 45578
Airbill: 875591109616

1. Custody Seal Present
2. Chain of Custody Present
3. Sample Tags Not Present
   Sample Tag Numbers Not on COC
4. SMO Forms Not Present

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		Traffic Rpt, Tags, COC Agree	Sample Condition
				Sample Tag #	SwRI #		
09/02/11	08:30:00	OSDC97LL	WDMW03B-04-12.0	None	474396	YES	Intact
09/02/11	08:30:00	OSDC97LL	WDMW03B-04-2.0	None	474397	YES	Intact
09/02/11	08:30:00	OSDC97LL	WDMW03B-04-4.5	None	474398	YES	Intact
09/02/11	08:30:00	OSDC76LL	WDSB25-04-2.0	None	474399	YES	Intact
09/02/11	08:30:00	OSDC76LL	WDSB25-04-4.5	None	474400	YES	Intact
09/02/11	08:30:00	OSDC76LL	WDSB25-07-2.0	None	474401	YES	Intact
09/02/11	08:30:00	OSDC76LL	WDSB25-07-4.5	None	474402	YES	Intact
09/02/11	08:30:00	OSDC76LL	WDSB25-09-2.0	None	474403	YES	Intact
09/02/11	08:30:00	OSDC76LL	WDSB25-09-4.5	None	474404	YES	Intact
09/02/11	08:30:00	OSDC77LL	WDSB25-28-4.5	None	474405	YES	Intact

PortsmouthFluor-B&W

WO: 45578

FRM-217

SAMPLE LOG-IN SHEET

Lab Name Southwest Research Institute	Page 1 of 1
Received By (Print Name) DINO ROMAN	Log-in Date 09/02/2011
Received By (Signature)	

Case Number FXP02234L04	Sample Delivery Group No.	SAS Number

Remarks: 16526.05.00X

1. Custody Seal(s) [✓ Present]/Absent* [✓ Intact]/Broken
2. Custody Seal Nos. ______
3. Chain-of Custody Records [✓ Present]/Absent*
4. Traffic Reports or Packing Lists Present/[✓ Absent]
5. Airbill Airbill/Sticker [✓ Present]/Absent*
6. Airbill No. 875591109616
7. Sample Tags Present/[✓ Absent]
   Sample Tag Numbers Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition Intact/Broken*/ Leaking
9. Cooler Temperature 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree? [✓ Yes]/No*
11. Date Received at Lab 09/02/2011
12. Time Received 08:30:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
WDMW03B-04-12.0	None	474396	Intact
WDMW03B-04-2.0	None	474397	Intact
WDMW03B-04-4.5	None	474398	Intact
WDSB25-04-2.0	None	474399	Intact
WDSB25-04-4.5	None	474400	Intact
WDSB25-07-2.0	None	474401	Intact
WDSB25-07-4.5	None	474402	Intact
WDSB25-09-2.0	None	474403	Intact
WDSB25-09-4.5	None	474404	Intact
WDSB25-28-4.5	None	474405	Intact

Sample Transfer

Fraction	Fraction
Area #	Area #
By DINO ROMAN	By
On 09/02/2011	On

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. Sample Receipt (45578)
Date 9.7.11	Logbook Page No. √ 7739 SEC 2of3

Sample Receipt

Sample Receipt Number: 45562

Southwest Research Institute

VTSR: 08/31/11

Time: 08:30:00

Project: **16526.05.00X**
Case #: **FXP02234L04**
Client: **Fluor-B&W Portsmouth LLC**

Manager: DAMMANN, MIKE
Logged in by: SDouglas
Creation Date: 08/31/11

Notes

Samples were received intact 3.0 °C (blue & wet ice)
Fed Ex Tracking #:8775591109671

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:
001 - admin
006 - metals
007 - drg
*** SDouglas Aug 31 2011 8:25AM ***

Background CPM: <100 cpm
Container Wipe CPM: <100 cpm
Total CPM: <100

System ID	Customer ID	CED	Matrix	Containers	Special Reqs.
474300	WDSB29-07-12.0	08/29/11	SO	1	
474301	WDSB29-07-2.0	08/29/11	SO	1	
474302	WDSB29-07-4.5	08/29/11	SO	1	
474303	WDSB29-09-12.0	08/29/11	SO	1	
474304	WDSB29-09-2.0	08/29/11	SO	1	
474305	WDSB29-09-4.5	08/29/11	SO	1	
Containers: 6				**Samples: 6**	

These documents are associated with this receipt: 106466[COC for SRR 45562], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Thermometer: 026
Temperature: 3.0

Client: Fluor-B&W Ports
SR#: 45562
FRM-002

Page Printed: 23 Nov 2011 9:12:42

000020

Southwest Research Institute

Laboratory Task Order

TO #: 110831-5 Revision: 3

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 10/05/11
To QA: 10/05/11
To Client: 10/06/11

SDG: 474212
VTSR: 08/31/11
CASE: FXP02234L04

SRR #'s: 45562
Client(s): Fluor-B&W Portsmouth LLC

Instructions

FLUOR-B&W PORTSMOUTH LLC. SOW FXP02234L04. Project OSDC
SDG is 474212. SDG IS CLOSED.

GROUPED _ With samples in SDG 474212, located in Task Order # 110830-12, SRR 45547.

28-day TAT.
DATA/HARDCOPY IS DUE TO THE CLIENT ON 10/7/11.

6 overall SO samples (6 containers) received on 08/31/11 for SOW FXP02234L04.
OUT of the 6 samples, only the 3 SOIL samples for DISTRIBUTION COEFFICIENT are listed in this task order.

see SOW for full compound list, CRDLs and RLs:
ASTM C1733 Distribution Coefficients
Tc-99 LSC - Technetium-99 (to support ASTM C1733; see summary)
Total U by ICP-MS (to support ASTM C1733; see summary)

EDD REQUIRED. FORMS PLUS RAW DATA PACKAGE REQUIRED.

PROJECT DESCRIPTION _ Change Order #3 _ Characterization to Support Siting of On-Site Disposal Facility
ELECTRONIC DATA DELIVERABLE _ Electronic Deliverable (AMSED) uploaded into PEMS via the internet plus CD.
QC REQUIREMENTS _ Per ICPT BOA/QSAS and method requirements.
SMO representative is Jim Applegate James.Applegate@fbports.com; 740.897.4081
Additional contact is Gerald Fulkerson 740 897 2588, Gerald.Fulkerson@fbports.com.
****
Report ORIGINAL & CD Results to:
FLUOR-B&W PORTSMOUTH LLC.
Attn: Gerald Fulkerson 740-897-2588
3930 U.S. Route 23 South
Building X-1000
Piketon, Ohio 45661
REVISION 1, DRmz 09/1/11: Task Order revised to indicate additional samples received on 09/01/11, which have been grouped with SDG 474212, located in Task Order # 110901-7, SRR 45570. SDG is still OPEN.
REVISION 2, DRmz 09/2/11: Task Order revised to indicate additional samples received on 09/02/11, which have been grouped with SDG 474212, located in Task Order # 110902-3, SRR 45578. SDG is CLOSED.
REVISION 3, DRmz 09/9/11: Task Order revised to indicate additional samples received on 09/9/11, which are the U containing spikes needed for the SOIL samples in SDG 474212, located in Task Order # 110909-10, SRR 45608. Due dates updated. SDG is CLOSED.

Documents Related to this task order: 106466[COC for SRR 45562], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Deliverables --> Hard Copy: -YES- EDD: -YES- PDF: -YES-

Test: ASTM_C1733 Holding: 180 days from CED
Section: WETCHEM **ASTM C1733 - 10 Method for Distribution Coefficients of Inorganic Species by the Batch Method** Cnt: 3

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
474300		1	SO	WDSB29-07-12.0	29 Aug 11	25 Feb 12
474301		1	SO	WDSB29-07-2.0	29 Aug 11	25 Feb 12
474302		1	SO	WDSB29-07-4.5	29 Aug 11	25 Feb 12

Test: ICPMS-SWRI-ISO_U Holding: 180 days from ASTM_C1733
Section: METALS **ICPMS SwRI Method Isotopic Uranium** Cnt: 3

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
474300		1	SO	WDSB29-07-12.0	07 Nov 11	05 May 12

Southwest Research Institute

Laboratory Task Order

TO #: 110831-5 Revision: 3

SDG: 474212
VTSR: 08/31/11
CASE: FXP02234L04

SRR #'s: 45562
Client(s): Fluor-B&W Portsmouth LLC

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 10/05/11
To QA: 10/05/11
To Client: 10/06/11

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
474301		1	SO	WDSB29-07-2.0	07 Nov 11	05 May 12
474302		1	SO	WDSB29-07-4.5	07 Nov 11	05 May 12

Test: LSC-TC99_SWRI Holding: 180 days from ASTM_C1733
Section: RADCHEM **Technetium-99 by liquid scintillation counting** Cnt: 3

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
474300		1	SO	WDSB29-07-12.0	07 Nov 11	05 May 12
474301		1	SO	WDSB29-07-2.0	07 Nov 11	05 May 12
474302		1	SO	WDSB29-07-4.5	07 Nov 11	05 May 12

1060542

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)
Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC71LL**

Page: 1 for OSDC71LL
Date: 08/30/2011 03:18 PM

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/01/11 0845
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45570
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
WDSB22-04-12.0	OSDC71	SS	SO	REG	8	OZ	AGLS	1	30-AUG-2011	1005		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB22-04-19.5	OSDC71	SS	SO	REG	8	OZ	AGLS	1	30-AUG-2011	1045		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB22-04-2.0	OSDC71	SS	SO	REG	8	OZ	AGLS	1	30-AUG-2011	915		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB22-04-4.5	OSDC71	SS	SO	REG	8	OZ	AGLS	1	30-AUG-2011	920		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	31-AUG-2011	OSDC	OSDC71LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 8-31-11	Time: 0830	Received by: AWS	Date(mm/dd/yyyy): 83111	Time: 0830
Relinquished by: AWS	Date(mm/dd/yyyy): 83111	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 83111	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 9/1/11	Time: 0945	Received by:	Date(mm/dd/yyyy): 9/1/11	Time: 0945
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

1046542

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC71LL**

Page: 2 for OSDC71LL
Date: 08/30/2011 03:18 PM

Client: Fluor B&W Portsmouth SwRI SRR #45570
SwRI Project #16526.05.00X Case: FXP02234L04
VTSR: 09/01/11 0845 Sample(s) Received Intact
Battery Check: Y Background Check: <100 cpm
Cooler/Container Wipe: <100 cpm Temp.: 3.0 °C / #027
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC88LL**

Page: 1 for OSDC88LL
Date: 08/31/2011 07:16 AM

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/01/11 0845
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45570
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Unit	Type	Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preservative	Remarks
WDSB31-04-2.0	OSDC88	SS	SO	REG	8	OZ	AGLS	1	30-AUG-2011	730		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB31-04-4.5	OSDC88	SS	SO	REG	8	OZ	AGLS	1	30-AUG-2011	745		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB31-07-2.0	OSDC88	SS	SO	REG	8	OZ	AGLS	1	30-AUG-2011	730		Distribution Coefficient	DEG4C	
WDSB31-07-4.5	OSDC88	SS	SO	REG	8	OZ	AGLS	1	30-AUG-2011	745		Distribution Coefficient	DEG4C	
WDSB31-09-2.0	OSDC88	SS	SO	REG	4	OZ	AGLS	1	30-AUG-2011	730		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB31-09-4.5	OSDC88	SS	SO	REG	4	OZ	AGLS	1	30-AUG-2011	745		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB31-22-4.5	OSDC88	SS	SO	REG	8	OZ	AGLS	1	30-AUG-2011	745		Distribution Coefficient	DEG4C	
WDSB31-23-4.5	OSDC88	SS	SO	REG	4	OZ	AGLS	1	30-AUG-2011	745		Cation-Exchange Capacity (SW846-9081)	DEG4C	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	31-AUG-2011	OSDC	OSDC88LL	DEG C		FXP02234L04

Relinquished by:	Date(mm/dd/yyyy): 8-31-11	Time: 0830	Received by:	Date(mm/dd/yyyy): 83111	Time: 0830
Relinquished by:	Date(mm/dd/yyyy): 83111	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 83111	Time: 1200

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC88LL**

Page: 2 for OSDC88LL
Date: 08/31/2011 07:16 AM

Relinquished by: Fed Ex	Date(mm/dd/yyyy): 9/1/11	Time: 0845	Received by:	Date(mm/dd/yyyy): 9/1/11	Time: 0845
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

LOC

Client Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/01/11 0845
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45570
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Southwest Research Institute

Traffic Report

Sample Custodian Signature: ______________________

Project: 16526.05-00X
Case: FXP02234L04 / SDG: ____________
Sample Receipt: 45570
Airbill: 875591109638

1. Custody Seal	Present
2. Chain of Custody	Present
3. Sample Tags	Not Present
Sample Tag Numbers	Not on COC
4. SMO Forms	Not Present

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		Traffic Rpt, Tags, COC Agree	Sample Condition
				Sample Tag #	SwRI #		
09/01/11	08:45:00	OSDC71LL	WDSB22-04-12.0	None	474334	YES	Intact
09/01/11	08:45:00	OSDC71LL	WDSB22-04-19.5	None	474335	YES	Intact
09/01/11	08:45:00	OSDC71LL	WDSB22-04-2.0	None	474336	YES	Intact
09/01/11	08:45:00	OSDC71LL	WDSB22-04-4.5	None	474337	YES	Intact
09/01/11	08:45:00	OSDC88LL	WDSB31-04-2.0	None	474338	YES	Intact
09/01/11	08:45:00	OSDC88LL	WDSB31-04-4.5	None	474339	YES	Intact
09/01/11	08:45:00	OSDC88LL	WDSB31-07-2.0	None	474340	YES	Intact
09/01/11	08:45:00	OSDC88LL	WDSB31-07-4.5	None	474341	YES	Intact
09/01/11	08:45:00	OSDC88LL	WDSB31-09-2.0	None	474342	YES	Intact
09/01/11	08:45:00	OSDC88LL	WDSB31-09-4.5	None	474343	YES	Intact
09/01/11	08:45:00	OSDC88LL	WDSB31-22-4.5	None	474344	YES	Intact
09/01/11	08:45:00	OSDC88LL	WDSB31-23-4.5	None	474345	YES	Intact

Portsmouth Fluor-B&W
WO: 45570
FRM-217

SAMPLE LOG-IN SHEET

Lab Name Southwest Research Institute	Page 1 of 1
Received By (Print Name) DINO ROMAN	Log-in Date 09/01/2011
Received By (Signature)	

Case Number FXP02234L04	Sample Delivery Group No. N/A	SAS Number N/A

Remarks: 16526.05.00X

1. Custody Seal(s) — [✓ Present]/Absent*
[✓ Intact]/Broken

2. Custody Seal Nos. — N/A

3. Chain-of Custody Records — [✓ Present]/Absent*

4. Traffic Reports or Packing Lists — Present/[✓ Absent]

5. Airbill — Airbill/Sticker [✓ Present]/Absent*

6. Airbill No. — 875591109638

7. Sample Tags — Present/[✓ Absent]

Sample Tag Numbers — Listed/[✓ Not] listed on Chain of Custody

8. Sample Condition — [✓ Intact]/Broken*/Leaking

9. Cooler Temperature — 3.0C

10. Does Information on custody records, traffic reports, and sample tags agree? — [✓ Yes]/No*

11. Date Received at Lab — 09/01/2011

12. Time Received — 08:45:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
WDSB22-04-12.0	None	474334	Intact
WDSB22-04-19.5	None	474335	Intact
WDSB22-04-2.0	None	474336	Intact
WDSB22-04-4.5	None	474337	Intact
WDSB31-04-2.0	None	474338	Intact
WDSB31-04-4.5	None	474339	Intact
WDSB31-07-2.0	None	474340	Intact
WDSB31-07-4.5	None	474341	Intact
WDSB31-09-2.0	None	474342	Intact
WDSB31-09-4.5	None	474343	Intact
WDSB31-22-4.5	None	474344	Intact
WDSB31-23-4.5	None	474345	Intact

Sample Transfer

Fraction Inorg	Fraction
Area # R13	Area #
By DINO ROMAN	By
On 09/01/2011	On

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. Sample Receipt (45570)
Date 9.7.11	Logbook Page No. ✓7738 SGC 1 of 3

000028

Southwest Research Institute

Sample Receipt

Sample Receipt Number: 45570

VTSR: 09/01/11

Time: 08:45:00

Project: 16526.05.00X
Case #: FXP02234L04
Client: Fluor-B&W Portsmouth LLC

Manager: DAMMANN, MIKE
Logged In by: DRoman
Creation Date: 09/01/11

Notes

Samples were received intact 3.0 °C (blue & wet ice)
Fed Ex Tracking #875591109638

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:
001 - admin
006 - metals
007 - drg
*** DRoman Sep 1 2011 10:16AM ***

Background CPM: <100 cpm
Container Wipe CPM: <100 cpm
Total CPM: <100

System ID	Customer ID	CED	Matrix	Containers	Special Reqs.
474334	WDSB22-04-12.0	08/30/11	SO	1	
474335	WDSB22-04-19.5	08/30/11	SO	1	
474336	WDSB22-04-2.0	08/30/11	SO	1	
474337	WDSB22-04-4.5	08/30/11	SO	1	
474336	WDSB31-04-2.0	08/30/11	SO	1	
474339	WDSB31-04-4.5	08/30/11	SO	1	
474340	WDSB31-07-2.0	08/30/11	SO	1	
474341	WDSB31-07-4.5	08/30/11	SO	1	
474342	WDSB31-09-2.0	08/30/11	SO	1	
474343	WDSB31-09-4.5	08/30/11	SO	1	
474344	WDSB31-22-4.5	08/30/11	SO	1	
474345	WDSB31-23-4.5	08/30/11	SO	1	

Containers: 12 **Samples: 12**

These documents are associated with this receipt: 106542[COC for SRR 45570], 100762[FXP02234L04], 106706[TOR #TR004], 107762[TOR #TR004 revised]

Thermometer: 027
Temperature: 3.0

Client: Fluor-B&W Ports
SR#: 4557
FRM-002

Page Printed: 23 Nov 2011 9:13:44

Southwest Research Institute

Laboratory Task Order

TO #: 110901-7 Revision: 2

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 10/05/11
To QA: 10/05/11
To Client: 10/06/11

SDG: 474212
VTSR: 09/01/11
CASE: FXP02234L04

SRR #'s: 45570
Client(s): Fluor-B&W Portsmouth LLC

Instructions

FLUOR-B&W PORTSMOUTH LLC. SOW FXP02234L04. Project OSDC
SDG is 474212. SDG IS CLOSED.

GROUPED _ With samples in SDG 474212, located in Task Order # 110830-12, SRR 45547; Task Order # 110831-5, SRR 45562.

28-day TAT.
DATA/HARDCOPY IS DUE TO THE CLIENT ON 10/7/11.

12 overall SO samples (12 containers) received on 09/01/11 for SOW FXP02234L04.
OUT of the 12 samples, only the 3 SOIL samples for DISTRIBUTION COEFFICIENT are listed in this task order.

see SOW for full compound list, CRDLs and RLs:
ASTM C1733 Distribution Coefficients
Tc-99 LSC - Technetium-99 (to support ASTM C1733; see summary)
Total U by ICP-MS (to support ASTM C1733; see summary)

EDD REQUIRED. FORMS PLUS RAW DATA PACKAGE REQUIRED.

PROJECT DESCRIPTION _ Change Order #3 _ Characterization to Support Siting of On-Site Disposal Facility
ELECTRONIC DATA DELIVERABLE _ Electronic Deliverable (AMSED) uploaded into PEMS via the internet plus CD.
QC REQUIREMENTS _ Per ICPT BOA/QSAS and method requirements.
SMO representative is Jim Applegate James.Applegate@fbports.com; 740.897.4081
Additional contact is Gerald Fulkerson 740 897 2588, Gerald.Fulkerson@fbports.com.
****
Report ORIGINAL & CD Results to:
FLUOR-B&W PORTSMOUTH LLC.
Attn: Gerald Fulkerson 740-897-2588
3930 U.S. Route 23 South
Building X-1000
Piketon, Ohio 45661
REVISION 1, DRmz 09/2/11: Task Order revised to indicate additional samples received on 09/02/11, which have been grouped with SDG 474212, located in Task Order # 110902-3, SRR 45578. SDG is CLOSED.
REVISION 2, DRmz 09/9/11: Task Order revised to indicate additional samples received on 09/9/11, which are the U containing spikes needed for the SOIL samples in SDG 474212, located in Task Order # 110909-10, SRR 45608. Due dates updated. SDG is CLOSED.

Documents Related to this task order: 106542[COC for SRR 45570], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Deliverables --> Hard Copy: -YES- EDD: -YES- PDF: -YES-

Test: ASTM_C1733 Holding: 180 days from CED
Section: WETCHEM **ASTM C1733 - 10 Method for Distribution Coefficients of Inorganic Species by the Batch Method** Cnt: 3

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
474340		1	SO	WDSB31-07-2.0	30 Aug 11	26 Feb 12
474341		1	SO	WDSB31-07-4.5	30 Aug 11	26 Feb 12
474344		1	SO	WDSB31-22-4.5	30 Aug 11	26 Feb 12

Test: ICPMS-SWRI-ISO_U Holding: 180 days from ASTM_C1733
Section: METALS **ICPMS SwRI Method Isotopic Uranium** Cnt: 3

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
474340		1	SO	WDSB31-07-2.0	07 Nov 11	05 May 12

Southwest Research Institute

Laboratory Task Order

TO #: 110901-7 Revision: 2

SDG: 474212
VTSR: 09/01/11
CASE: FXP02234L04

SRR #'s: 45570
Client(s): Fluor-B&W Portsmouth LLC

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 10/05/11
To QA: 10/05/11
To Client: 10/06/11

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
474341		1	SO	WDSB31-07-4.5	07 Nov 11	05 May 12
474344		1	SO	WDSB31-22-4.5	07 Nov 11	05 May 12

Test: LSC-TC99_SWRI
Section: RADCHEM
Holding: 180 days from ASTM_C1733
Technetium-99 by liquid scintillation counting
Cnt: 3

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
474340		1	SO	WDSB31-07-2.0	07 Nov 11	05 May 12
474341		1	SO	WDSB31-07-4.5	07 Nov 11	05 May 12
474344		1	SO	WDSB31-22-4.5	07 Nov 11	05 May 12

006466

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC84LL**

Page: 1 for OSDC84LL
Date: 08/29/2011 05:01 PM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Unit	Type	Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
WDSB29-07-12.0 ✓	OSDC84	SS	SO	REG	8	OZ	AGLS	1	29-AUG-2011 ✓	910 ✓		Distribution Coefficient	DEG4C	
WDSB29-07-2.0 ✓	OSDC84	SS	SO	REG	8	OZ	AGLS	1	29-AUG-2011 ✓	805 ✓		Distribution Coefficient	DEG4C	
WDSB29-07-4.5 ✓	OSDC84	SS	SO	REG	8	OZ	AGLS	1	29-AUG-2011 ✓	810 ✓		Distribution Coefficient	DEG4C	
WDSB29-09-12.0 ✓	OSDC84	SS	SO	REG	4	OZ	AGLS	1	29-AUG-2011 ✓	910 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB29-09-2.0 ✓	OSDC84	SS	SO	REG	4	OZ	AGLS	1	29-AUG-2011 ✓	805 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB29-09-4.5	OSDC84	SS	SO	REG	4	OZ	AGLS	1	29-AUG-2011 ✓	810 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	30-AUG-2011	OSDC	OSDC84LL	DEG C		FXP02234L04

Relinquished by: Stacy Clough	Date(mm/dd/yyyy): 8-30-11	Time: 0830	Received by: AWS	Date(mm/dd/yyyy): 83011	Time: 0830
Relinquished by: AWS	Date(mm/dd/yyyy): 83011	Time: 1700	Received by: Fedex	Date(mm/dd/yyyy): 83011	Time: 1700
Relinquished by: FedEx	Date(mm/dd/yyyy): 8/31/11	Time: 0830	Received by:	Date(mm/dd/yyyy): 8/31/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/31/11 0830
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45562
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #026

000031

000032

Southwest Research Institute

Traffic Report

Sample Custodian Signature: ____________________

Project: 16526.05-00X
Case: FXP02234L04 / SDG: ____________
Sample Receipt: 45562
Airbill: 8775591109671

1. Custody Seal Present
2. Chain of Custody Present
3. Sample Tags Not Present
   Sample Tag Numbers Not on COC
4. SMO Forms Not Present

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		Traffic Rpt, Tags, COC Agree	Sample Condition
				Sample Tag #	SwRI #		
08/31/11	08:30:00	OSDC84LL	WDSB29-07-12.0	N/A	474300	YES	Intact
08/31/11	08:30:00	OSDC84LL	WDSB29-07-2.0	N/A	474301	YES	Intact
08/31/11	08:30:00	OSDC84LL	WDSB29-07-4.5	N/A	474302	YES	Intact
08/31/11	08:30:00	OSDC84LL	WDSB29-09-12.0	N/A	474303	YES	Intact
08/31/11	08:30:00	OSDC84LL	WDSB29-09-2.0	N/A	474304	YES	Intact
08/31/11	08:30:00	OSDC84LL	WDSB29-09-4.5	N/A	474305	YES	Intact

WO: 45562

FRM-217

SAMPLE LOG-IN SHEET

Lab Name Southwest Research Institute	Page 1 of 1
Received By (Print Name) STEVEN DOUGLAS	Log-in Date 08/31/2011
Received By (Signature)	
Case Number FXP02234L04	Sample Delivery Group No. N/A SAS Number N/A

Remarks: 16526.05.00X

1. Custody Seal(s) [✓ Present]/Absent* [✓ Intact]/Broken
2. Custody Seal Nos. N/A
3. Chain-of Custody Records [✓ Present]/Absent*
4. Traffic Reports or Packing Lists Present/[✓ Absent]
5. Airbill Airbill/Sticker [✓ Present]/Absent*
6. Airbill No. 8775591109671
7. Sample Tags Present/[✓ Absent]
   Sample Tag Numbers Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition [✓ Intact]/Broken*/~~Leaking~~
9. Cooler Temperature 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree? [✓ Yes]/No*
11. Date Received at Lab 08/31/2011
12. Time Received 08:30:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
WDSB29-07-12.0	N/A	474300	Intact
WDSB29-07-2.0	N/A	474301	Intact
WDSB29-07-4.5	N/A	474302	Intact
WDSB29-09-12.0	N/A	474303	Intact
WDSB29-09-2.0	N/A	474304	Intact
WDSB29-09-4.5	N/A	474305	Intact

Sample Transfer

Fraction INORG	Fraction
Area # R13	Area #
By STEVEN DOUGLAS	By
On 08/31/2011	On

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. Sample Receipt (45562)
Date 9.1.11	Logbook Page No. ✓ 7737 SEC 2 of 3

000034

Sample Receipt

Sample Receipt Number: 45578

Southwest Research Institute

VTSR: 09/02/11

Time: 08:30:00

Project: 16526.05.00X
Case #: FXP02234L04
Client: Fluor-B&W Portsmouth LLC

Manager: DAMMANN, MIKE
Logged in by: DRoman
Creation Date: 09/02/11

Notes

Samples were received intact 3.0 °C (blue & wet ice)
Fed Ex Tracking #875591109616

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:
001 - admin
006 - metals
007 - drg
*** DRoman Sep 2 2011 9:27AM ***

Background CPM: <100 cpm
Container Wipe CPM: <100 cpm
Total CPM: <100

System ID	Customer ID	CED	Matrix	Containers	Special Reqs.
474396	WDMW03B-04-12.0	08/31/11	SO	1	
474397	WDMW03B-04-2.0	08/31/11	SO	1	
474398	WDMW03B-04-4.5	08/31/11	SO	1	
474399	WDSB25-04-2.0	08/31/11	SO	1	
474400	WDSB25-04-4.5	08/31/11	SO	1	
474401	WDSB25-07-2.0	08/31/11	SO	1	
474402	WDSB25-07-4.5	08/31/11	SO	1	
474403	WDSB25-09-2.0	08/31/11	SO	1	
474404	WDSB25-09-4.5	08/31/11	SO	1	
474405	WDSB25-28-4.5	08/31/11	WQ	3	

Containers: 12 **Samples: 10**

These documents are associated with this receipt: 106573[COC for SRR 45578], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Thermometer: 027
Temperature: 3.0

Client: Fluor-B&W Ports
SR#: 45578
FRM-002

Page Printed: 23 Nov 2011 9:14:59

Southwest Research Institute

Laboratory Task Order

TO #: 110902-3 Revision: 2

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 10/05/11
To QA: 10/05/11
To Client: 10/06/11

SDG: 474212
VTSR: 09/02/11
CASE: FXP02234L04

SRR #'s: 45578
Client(s): Fluor-B&W Portsmouth LLC

Instructions

FLUOR-B&W PORTSMOUTH LLC. SOW FXP02234L04. Project OSDC
SDG is 474212. SDG IS CLOSED.

GROUPED _ With samples in SDG 474212, located in Task Order # 110830-12, SRR 45547; Task Order # 110831-5, SRR 45562; Task Order # 110901-7, SRR 45570.

28-day TAT.
DATA/HARDCOPY IS DUE TO THE CLIENT ON 10/7/11.

10 overall SO/WQ samples (12 containers) received on 09/02/11 for SOW FXP02234L04.
OUT of the 10 samples, only the 2 SOIL samples for DISTRIBUTION COEFFICIENT are listed in this task order.

see SOW for full compound list, CRDLs and RLs:
ASTM C1733 Distribution Coefficients
Tc-99 LSC - Technetium-99 (to support ASTM C1733; see summary)
Total U by ICP-MS (to support ASTM C1733; see summary)

EDD REQUIRED. FORMS PLUS RAW DATA PACKAGE REQUIRED.

PROJECT DESCRIPTION _ Change Order #3 _ Characterization to Support Siting of On-Site Disposal Facility
ELECTRONIC DATA DELIVERABLE _ Electronic Deliverable (AMSED) uploaded into PEMS via the internet plus CD.
QC REQUIREMENTS _ Per ICPT BOA/QSAS and method requirements.
SMO representative is Jim Applegate James.Applegate@fbports.com; 740.897.4081
Additional contact is Gerald Fulkerson 740 897 2588, Gerald.Fulkerson@fbports.com.
****
Report ORIGINAL & CD Results to:
FLUOR-B&W PORTSMOUTH LLC.
Attn: Gerald Fulkerson 740-897-2588
3930 U.S. Route 23 South
Building X-1000
Piketon, Ohio 45661
REVISION 1, DRmz 09/9/11: Task Order revised to indicate additional samples received on 09/9/11, which are the U containing spikes needed for the SOIL samples in SDG 474212, located in Task Order # 110909-10, SRR 45608. Due dates updated. SDG is CLOSED.
REVISION 2, DRmz 10/17/11: Task Order revised to remove Alpha-U and replaced with ICPMS U.

Documents Related to this task order: 106573[COC for SRR 45578], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Deliverables --> Hard Copy: -YES- EDD: -YES- PDF: -YES-

Test: ASTM_C1733 Holding: 180 days from CED
Section: WETCHEM **ASTM C1733 - 10 Method for Distribution Coefficients of Inorganic Species by the Batch Method** Cnt: 2

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
474401		1	SO	WDSB25-07-2.0	31 Aug 11	27 Feb 12
474402		1	SO	WDSB25-07-4.5	31 Aug 11	27 Feb 12

Test: ICPMS-SWRI-ISO_U Holding: 180 days from CED
Section: METALS **ICPMS SwRI Method Isotopic Uranium** Cnt: 2

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
474401		1	SO	WDSB25-07-2.0	31 Aug 11	27 Feb 12
474402		1	SO	WDSB25-07-4.5	31 Aug 11	27 Feb 12

Southwest Research Institute

Laboratory Task Order

TO #: 110902-3 Revision: 2

SDG: 474212
VTSR: 09/02/11
CASE: FXP02234L04

SRR #'s: 45578
Client(s): Fluor-B&W Portsmouth LLC

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 10/05/11
To QA: 10/05/11
To Client: 10/06/11

Test: LSC-TC99_SWRI Holding: 180 days from ASTM_C1733
Section: RADCHEM Technetium-99 by liquid scintillation counting **Cnt: 2**

System ID	Type	Cont	Matrix	Customer ID	N/A	Method Date
474401		1	SO	WDSB25-07-2.0	07 Nov 11	05 May 12
474402		1	SO	WDSB25-07-4.5	07 Nov 11	05 May 12

1060 3605

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)
Project: OSDC SOW: FXP02234L04
Lab Chain of Custody (LCOC) Number: OSDC41LL

Page: 1 for OSDC41LL
Date: 08/29/2011 07:31 AM

Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/30/11 0930
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45547
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
WDSB01-04-12.0	OSDC41	SS	SO	REG	8	OZ	AGLS	1	27-AUG-2011	810		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB01-04-19.5	OSDC41	SS	SO	REG	8	OZ	AGLS	1	27-AUG-2011	900		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB01-04-2.0	OSDC41	SS	SO	REG	8	OZ	AGLS	1	26-AUG-2011	1520		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB01-04-24.5	OSDC41	SS	SO	REG	8	OZ	AGLS	1	27-AUG-2011	916		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB01-04-4.5	OSDC41	SS	SO	REG	8	OZ	AGLS	1	26-AUG-2011	1530		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	29-AUG-2011	OSDC	OSDC41LL	DEG C		FXP02234L04

Relinquished by: Stacy Clagett	Date(mm/dd/yyyy): 8-29-11	Time: 0910	Received by:	Date(mm/dd/yyyy): 8-29-11	Time: 0910
Relinquished by:	Date(mm/dd/yyyy): 8-29-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 8-29-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/30/11	Time: 0930	Received by:	Date(mm/dd/yyyy): 8/30/11	Time: 0930

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LOC

126365

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC41LL**

Page: 2 for OSDC41LL
Date: 08/29/2011 07:31 AM

Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

LOC

Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/30/11 0930
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45547
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

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AUG 30 2011

1060365

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC116LL**

Page: 1 for OSDC116LL
Date: 08/25/2011 04:49 PM

Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/30/11 0930
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45547
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Unit	Type	Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preservative	Remarks
WDSB09-15-4.5 ✓	OSDC116	SS	WQ	FB	1	L	HDPE	3	25-AUG-2011 ✓	1130 ✓		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	HNO3 •	
WDSB09-28-19.5 ✓	OSDC116	SS	WQ	RIN	1	L	HDPE	3	25-AUG-2011 ✓	1330 ✓		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	HNO3 •	

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX	29-AUG-2011	OSDC	OSDC116LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 8-29-11	Time: 0910	Received by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 0910
Relinquished by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 8-29-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/30/11	Time: 0930	Received by:	Date(mm/dd/yyyy): 8/30/11	Time: 0930
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

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Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**

Lab Chain of Custody (LCOC) Number: **OSDC115LL**

Page: 1 for OSDC115LL
Date: 08/25/2011 04:49 PM

Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/30/11 0930
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45547
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
WDSB09-04-2.0 ✓	OSDC115	SS	SO	REG	8	OZ	AGLS	1	25-AUG-2011 ✓	1132 ✓		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB09-04-4.5 ✓	OSDC115	SS	SO	REG	8	OZ	AGLS	1	25-AUG-2011 ✓	1135 ✓		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
WDSB09-07-2.0 ✓	OSDC115	SS	SO	REG	8	OZ	AGLS	1	25-AUG-2011 ✓	1132 ✓		Distribution Coefficient	DEG4C	
WDSB09-07-4.5 ✓	OSDC115	SS	SO	REG	8	OZ	AGLS	1	25-AUG-2011 ✓	1135 ✓		Distribution Coefficient	DEG4C	
WDSB09-09-2.0 ✓	OSDC115	SS	SO	REG	4	OZ	AGLS	1	25-AUG-2011 ✓	1132 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	
WDSB09-09-4.5 ✓	OSDC115	SS	SO	REG	4	OZ	AGLS	1	25-AUG-2011 ✓	1135 ✓		Cation-Exchange Capacity (SW846-9081)	DEG4C	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	29-AUG-2011	OSDC	OSDC115LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 8-29-11	Time: 0910	Received by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 0910
Relinquished by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 8-29-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/30/11	Time: 0930	Received by:	Date(mm/dd/yyyy): 8/30/11	Time: 0930
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

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Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC115LL**

Page: 2 for OSDC115LL
Date: 08/25/2011 04:49 PM

Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/30/11 0930
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45547
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

1002365

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC112LL**

Page: 1 for OSDC112LL
Date: 08/29/2011 07:02 AM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Unit	Type	Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
WDSB07-15-4.5	OSDC112	SS	WQ	FB	1	L	HDPE	3	25-AUG-2011	1500		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	HNO3•	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	29-AUG-2011	OSDC	OSDC112LL	DEG C		FXP02234L04

Relinquished by: Stacy Cloggt	Date(mm/dd/yyyy): 8-29-11	Time: 0910	Received by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 0910
Relinquished by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 8-29-11	Time: 1200
Relinquished by: FedEx	Date(mm/dd/yyyy): 8/30/11	Time: 0930	Received by:	Date(mm/dd/yyyy): 8/30/11	Time: 0930
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

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Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/30/11 0930
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45547
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

106365

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)
Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC111LL**

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Page: 1 for OSDC111LL
Date: 08/29/2011 06:54 AM

Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/30/11 0930
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45547
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Unit	Type	Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
✓ WDSB07-04-12.0	OSDC111	SS	SO	REG	8	OZ	AGLS	1	25-AUG-2011	1550		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
✓ WDSB07-04-4.5	OSDC111	SS	SO	REG	8	OZ	AGLS	1	25-AUG-2011	1505		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	
✓ WDSB07-07-12.0	OSDC111	SS	SO	REG	8	OZ	AGLS	1	25-AUG-2011	1550		Distribution Coefficient	DEG4C	
✓ WDSB07-07-2.0	OSDC111	SS	SO	REG	8	OZ	AGLS	1	25-AUG-2011	1450		Distribution Coefficient	DEG4C	
✓ WDSB07-07-4.5	OSDC111	SS	SO	REG	8	OZ	AGLS	1	25-AUG-2011	1505		Distribution Coefficient	DEG4C	
✓ WDSB07-09-12.0	OSDC111	SS	SO	REG	4	OZ	AGLS	1	25-AUG-2011	1550		Cation-Exchange Capacity (SW846-9081)	DEG4C	
✓ WDSB07-09-2.0	OSDC111	SS	SO	REG	4	OZ	AGLS	1	25-AUG-2011	1450		Cation-Exchange Capacity (SW846-9081)	DEG4C	
✓ WDSB07-09-4.5	OSDC111	SS	SO	REG	4	OZ	AGLS	1	25-AUG-2011	1505		Cation-Exchange Capacity (SW846-9081)	DEG4C	

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	29-AUG-2011	OSDC	OSDC111LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 8-29-11	Time: 0910	Received by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 0910
Relinquished by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 8-29-11	Time: 1200

000043 LDE

1003605

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC111LL**

Page: 2 for OSDC111LL
Date: 08/29/2011 06:54 AM

Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/30/11	Time: 0930	Received by:	Date(mm/dd/yyyy): 8/30/11	Time: 0930
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

Loe

Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/30/11 0930
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45547
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

1068365

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)
Project: OSDC SOW: FXP02234L04
Lab Chain of Custody (LCOC) Number: OSDC128LL

Page: 1 for OSDC128LL
Date: 08/24/2011 07:02 AM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
231A-01G-04	OSDC128	5UA	WG	REG	2.5	GAL	CUBI	1	19-AUG-2011	822		Distribution Coefficient	None	WATER CONTAINING URANIUM TO RUN Kd Distribution Coefficient

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	29-AUG-2011	OSDC	OSDC128LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 8-29-11	Time: 0910	Received by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 0910
Relinquished by: Randy J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 8-29-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/30/11	Time: 0930	Received by:	Date(mm/dd/yyyy): 8/30/11	Time: 0930
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

ER

Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/30/11 0930
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45547
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)
Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC126LL**

Page: 1 for OSDC126LL
Date: 08/24/2011 07:01 AM

Sample ID	**Sample Log**	**Task**	**Matrix**	**Smpl Type**	**Sample Container**				**Sample Date**	**Smpl Time**	**Associate Sample ID**	**Param Anly Group**	**Preser-vative**	**Remarks**
					Vol	**Unit**	**Type**	**Qty**						
749-WPW-04	OSDC126	X-749	WG	REG	2.5	GAL	CUBI	1	19-AUG-2011	920		Distribution Coefficient	None	Water containing TC99 to run Kd Distribution Coefficient

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX	29-AUG-2011	OSDC	OSDC126LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 8-29-11	Time: 0910	Received by: Brady J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 0910
Relinquished by: Brady J. Kennedy	Date(mm/dd/yyyy): 8-29-11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 8-29-11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 8/30/11	Time: 0930	Received by:	Date(mm/dd/yyyy): 8/30/11	Time: 0930
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

UR

Client: Fuor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 08/30/11 0930
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45547
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

Southwest Research Institute

Traffic Report
Sample Custodian Signature: ______________________

Project: 16526.05-00X
Case: FXP02234L04 / SDG: ____________
Sample Receipt: 45547
Airbill: SEE SRR NOTES

1. Custody Seal		Present
2. Chain of Custody		Present
3. Sample Tags		Not Present
	Sample Tag Numbers	Not on COC
4. SMO Forms		Not Present

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		Traffic Rpt, Tags, COC Agree	Sample Condition
				Sample Tag #	SwRI #		
08/30/11	09:30:00	OSDC128LL	231A-01G-04	None	474203	YES	Intact
08/30/11	09:30:00	OSDC126LL	749-WPW-04	None	474204	YES	Intact
08/30/11	09:30:00	OSDC41LL	WDSB01-04-12.0	None	474205	YES	Intact
08/30/11	09:30:00	OSDC41LL	WDSB01-04-19.5	None	474206	YES	Intact
08/30/11	09:30:00	OSDC41LL	WDSB01-04-2.0	None	474207	YES	Intact
08/30/11	09:30:00	OSDC41LL	WDSB01-04-24.5	None	474208	YES	Intact
08/30/11	09:30:00	OSDC41LL	WDSB01-04-4.5	None	474209	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-04-12.0	None	474210	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-04-4.5	None	474211	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-07-12.0	None	474212	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-07-2.0	None	474213	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-07-4.5	None	474214	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-09-12.0	None	474215	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-09-2.0	None	474216	YES	Intact
08/30/11	09:30:00	OSDC111LL	WDSB07-09-4.5	None	474217	YES	Intact
08/30/11	09:30:00	OSDC112LL	WDSB07-15-4.5	None	474218	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-04-2.0	None	474219	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-04-4.5	None	474220	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-07-2.0	None	474221	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-07-4.5	None	474222	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-09-2.0	None	474223	YES	Intact
08/30/11	09:30:00	OSDC115LL	WDSB09-09-4.5	None	474224	YES	Intact
08/30/11	09:30:00	OSDC116LL	WDSB09-15-4.5	None	474225	YES	Intact
08/30/11	09:30:00	OSDC116LL	WDSB09-28-19.5	None	474226	YES	Intact

Portsmouth Ltr-B&W
WO: 45547
FRM-217

000048

SAMPLE LOG-IN SHEET

Lab Name Southwest Research Institute	Page 1 of 2
Received By (Print Name) DINO ROMAN	Log-in Date 08/30/2011
Received By (Signature)	

Case Number FXP02234L04	Sample Delivery Group No. NA	SAS Number NA

Remarks: 16526.05.00X

1. Custody Seal(s) [✓ Present]/Absent*
   [✓ Intact]/Broken
2. Custody Seal Nos. NA
3. Chain-of Custody Records [✓ Present]/Absent*
4. Traffic Reports or Packing Lists Present/[✓ Absent]
5. Airbill Airbill/Sticker [✓ Present]/Absent*
6. Airbill No. SEE SRR NOTES
7. Sample Tags Present/[✓ Absent]
   Sample Tag Numbers Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition [✓ Intact]/Broken*/ Leaking
9. Cooler Temperature 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree? [✓ Yes]/No*
11. Date Received at Lab 08/30/2011
12. Time Received 09:30:00

Sample Transfer

Fraction Thrs	~~Fraction~~
Area # R13	Area #
By DINO ROMAN	By
On 08/30/2011	On

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
231A-01G-04	None	474203	Intact
749-WPW-04	None	474204	Intact
WDSB01-04-12.0	None	474205	Intact
WDSB01-04-19.5	None	474206	Intact
WDSB01-04-2.0	None	474207	Intact
WDSB01-04-24.5	None	474208	Intact
WDSB01-04-4.5	None	474209	Intact
WDSB07-04-12.0	None	474210	Intact
WDSB07-04-4.5	None	474211	Intact
WDSB07-07-12.0	None	474212	Intact
WDSB07-07-2.0	None	474213	Intact
WDSB07-07-4.5	None	474214	Intact
WDSB07-09-12.0	None	474215	Intact
WDSB07-09-2.0	None	474216	Intact
WDSB07-09-4.5	None	474217	Intact
WDSB07-15-4.5	None	474218	Intact
WDSB09-04-2.0	None	474219	Intact
WDSB09-04-4.5	None	474220	Intact
WDSB09-07-2.0	None	474221	Intact
WDSB09-07-4.5	None	474222	Intact
WDSB09-09-2.0	None	474223	Intact
WDSB09-09-4.5	None	474224	Intact
WDSB09-15-4.5	None	474225	Intact

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. Sample Receipt (45547)
Date 8.31.11	Logbook Page No. ✓ 7736 SEC 2, 3 of 6

SAMPLE LOG-IN SHEET

Lab Name Southwest Research Institute	Page 2 of 2
Received By (Print Name) DINO ROMAN	Log-in Date 08/30/2011
Received By (Signature)	

Case Number FXP02234L04	Sample Delivery Group No. NA	SAS Number NA

Remarks: 16526.05.00X

1. Custody Seal(s) — [✓ Present]/Absent*; [✓ Intact]/Broken
2. Custody Seal Nos. — NA
3. Chain-of Custody Records — [✓ Present]/Absent*
4. Traffic Reports or Packing Lists — Present/[✓ Absent]
5. Airbill — Airbill/Sticker; [✓ Present]/Absent*
6. Airbill No. — SEE SRR NOTES
7. Sample Tags — Present/[✓ Absent]

   Sample Tag Numbers — Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition — [✓ Intact]/Broken*/Leaking
9. Cooler Temperature — 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree? — [✓ Yes]/No*
11. Date Received at Lab — 08/30/2011
12. Time Received — 09:30:00

	Corresponding		Remarks: Condition of Sample Shipment, etc
EPA Sample #	Sample Tag #	Assigned Lab #	
WDSB09-28-19.5	None	474226	Intact

Sample Transfer

Fraction Thers	Fraction
Area # RB	Area #
By DINO ROMAN	By
On 08/30/2011	On

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. Sample Receipt (45547)
Date 8.31.11	Logbook Page No. ✓7736 SEC 2, 3 of 6

Sample Receipt

Southwest Research Institute

Sample Receipt Number: 45654

VTSR: 09/15/11

Time: 08:45:00

Revision: 1

Project: 16526.05.00X
Case #: FXP02234L04
Client: Fluor-B&W Portsmouth LLC

This Receipt was Revised Sep 23 2011 8:42AM

Manager: DAMMANN, MIKE
Logged in by: DRoman
Creation Date: 09/14/11

Notes

Samples were received intact 3.0°C (blue & wet ice)
Fed Ex Tracking #s:
874541430218
874541430207
874541430229

Parameters: Analysis/located on Task Order.

See chain-of-custody as part of the SRR system for more information.

Phases:
001 - admin
006 - metals
007 - drg
*** DRoman Sep 15 2011 10:29AM ***
Rev. 1
Revised matrix from SO to BR
*** DRoman Sep 23 2011 8:42AM ***

Background CPM: <100 cpm
Container Wipe CPM: <100 cpm
Total CPM: <100

System ID	Customer ID	CED	Matrix	Containers	Special Reqs.
475063	749-WPW-05	09/13/11	WG	1	
475064	749-WPW-06	09/13/11	WG	1	
475065	749-WPW-07	09/13/11	WG	1	
475066	WDMW04B-33-BE01	09/13/11	BR	1	
475067	WDMW04B-33-BE10	09/13/11	BR	1	
475068	WDMW04B-33-CU01	09/13/11	BR	1	
475069	WDMW04B-33-CU10	09/13/11	BR	1	
475070	WDMW04B-33-SU01	09/13/11	BR	1	
475071	WDMW04B-33-SU10	09/13/11	BR	1	

Containers: 9 **Samples: 9**

These documents are associated with this receipt: 107011[COC for SRR 45654], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Thermometer: 027
Temperature: 3.0

Page Printed: 23 Nov 2011 9:15:25

ver (9/12/2011)

SR#: 45654 Client: Fluor-B&W Ports

FRM-002

Southwest Research Institute

Laboratory Task Order

TO #: 111122-15 Revision: 0

Project(s): 16526.05.00X
Manager(s): DAMMANN, MIKE
To PM: 11/23/11
To QA: 11/23/11
To Client: 11/28/11

SDG: 474212
VTSR: 09/15/11, 10/06/11
CASE: FXP02234L04

SRR #'s: 45654, 45808
Client(s): Fluor-B&W Portsmouth LLC

Instructions

FLUOR-B&W PORTSMOUTH LLC. SOW FXP02234L04. Project OSDC
SDG is 474212. SDG IS CLOSED.

GROUPED _ With SOIL samples in SDG 474212, located in Task Order # 110830-12, 110831-5, 110901-7, 110902-3.

FINAL DATA/HARDCOPY IS DUE TO THE CLIENT ON 11/29/11.

Groundwater Spiked sample 749-WPW-06 / 475064 was received on 09/15/11, located in SRR # 45654
Groundwater Spiked sample 749-WPW-07 / 475065 was received on 09/15/11, located in SRR # 45654
Groundwater Spiked sample 749-WPW-08 / 476734, Container No. 1 was received on 10/06/11, located in SRR # 45808

This task order was created with the sole purpose of listing/recording the actual ground water Tc99 spiked samples used with the Soil samples under SDG 474212 for DISTRIBUTION COEFFICIENT (Kd).

see SOW for full compound list, CRDLs and RLs:
ASTM C1733 Distribution Coefficients
Tc-99 LSC - Technetium-99 (to support ASTM C1733; see summary)
Total U by ICP-MS (to support ASTM C1733; see summary)

EDD REQUIRED. FORMS PLUS RAW DATA PACKAGE REQUIRED.

PROJECT DESCRIPTION _ Change Order #3 _ Characterization to Support Siting of On-Site Disposal Facility
ELECTRONIC DATA DELIVERABLE _ Electronic Deliverable (AMSED) uploaded into PEMS via the internet plus CD.
QC REQUIREMENTS _ Per ICPT BOA/QSAS and method requirements.
SMO representative is Jim Applegate James.Applegate@fbports.com; 740.897.4081
Additional contact is Gerald Fulkerson 740 897 2588, Gerald.Fulkerson@fbports.com.
****
Report ORIGINAL & CD Results to:
FLUOR-B&W PORTSMOUTH LLC.
Attn: Gerald Fulkerson 740-897-2588
3930 U.S. Route 23 South
Building X-1000
Piketon, Ohio 45661

Documents Related to this task order: 107011[COC for SRR 45654], 108229[COC for SRR 45808], 100762[FXP02234L04], 106706[TOR #TR004], 107782[TOR #TR004 revised]

Deliverables --> Hard Copy: -YES- EDD: -YES- PDF: -YES-

Test: ASTM_C1733 Holding: 180 days from CED
Section: WETCHEM **ASTM C1733 - 10 Method for Distribution Coefficients of Inorganic Species by the Batch Method** Cnt: 3

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
475064	Tc99spk	1	WG	749-WPW-06	13 Sep 11	11 Mar 12
475065	Tc99spk	1	WG	749-WPW-07	13 Sep 11	11 Mar 12
476734	Tc99spk	1	WG	749-WPW-08	04 Oct 11	01 Apr 12

107011

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)
Project: **OSDC** SOW: **FXP02234L04** ✓
Lab Chain of Custody (LCOC) Number: **OSDC135LL**

Page: 1 for OSDC135LL
Date: 09/13/2011 05:19 PM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Unit	Type	Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
749-WPW-05 ✓	OSDC135	X-749	WG	REG	2.5	GAL	CUBI	1	13-SEP-2011 ✓	1353 ✓		Distribution Coefficient	None	WATER CONTAINING TC-99 TO RUN Kd

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX ✓	14-SEP-2011 ✓	X749	OSDC135LL	DEG C		FXP02234L04

Relinquished by: Stacy Clogotts	Date(mm/dd/yyyy): 9-14-11	Time: 0830	Received by: AWS	Date(mm/dd/yyyy): 9/14/11	Time: 0830
Relinquished by: AWS	Date(mm/dd/yyyy): 9/14/11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 9/14/11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 9/15/11	Time: 0845	Received by:	Date(mm/dd/yyyy): 9/15/11	Time: 0845
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

RI

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/15/11 0845
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45654
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

157011

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC102LL**

RECEIVED
SEP 15 2011

Page: 1 for OSDC102LL
Date: 09/13/2011 05:16 PM

Client: Fluor B&W Portsmouth	SwRI SRR #45654
SwRI Project #16526.05.00X	Case: FXP02234L04
VTSR: 09/15/11 0845	Sample(s) Received Intact
Battery Check: Y	Background Check: <100 cpm
Cooler/Container Wipe: <100 cpm	Temp.: 3.0 °C / #027

Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container				Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
					Vol	Unit	Type	Qty						
WDMW04B-33-BE01	OSDC102	BEDRC	SO	REG	1	L	AGLS	1	13-SEP-2011	1425		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	BEREA
WDMW04B-33-BE10	OSDC102	BEDRC	SO	REG	1	L	AGLS	1	13-SEP-2011	1445		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	BEREA Cont rec'd broken; sample contained in original zip lock bag.
WDMW04B-33-CU01	OSDC102	BEDRC	SO	REG	1	L	AGLS	1	13-SEP-2011	930		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	CUYAHOGA Cont. rec'd broken; sample contained in original zip lock bag.
WDMW04B-33-CU10	OSDC102	BEDRC	SO	REG	1	L	AGLS	1	13-SEP-2011	1010		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	CUYAHOGA
WDMW04B-33-SU01	OSDC102	BEDRC	SO	REG	1	L	AGLS	1	13-SEP-2011	1205		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	SUNBURY
WDMW04B-33-SU10	OSDC102	BEDRC	SO	REG	1	L	AGLS	1	13-SEP-2011	1350		GAB/TC99;TU/IsoU(U233,34,35,36,38);Th-228,30,32;Am241;Np237;Pu-238,39/40;Cs-137	None	SUNBURY

Laboratory:	Date Submitted To Lab:	Ship Container No:	SSG ID:	Cooler Temperature:	Airbill No:	SOW
SWRI - Southwest Research Institute, San Antonio, TX	14-SEP-2011	OSDC	OSDC102LL	DEG C		FXP02234L04

LR

157011

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC102LL**

Page: 2 for OSDC102LL
Date: 09/13/2011 05:16 PM

Relinquished by: Stacy Claggett	**Date(mm/dd/yyyy):** 9-14-11	**Time:** 0830	**Received by:** AJWS	**Date(mm/dd/yyyy):** 9/14/11	**Time:** 0830
Relinquished by: AJWS	**Date(mm/dd/yyyy):** 9/14/11	**Time:** 1200	**Received by:** Fedex	**Date(mm/dd/yyyy):** 9/14/11	**Time:** 1200
Relinquished by: FedEx	**Date(mm/dd/yyyy):** 9/15/11	**Time:** 0845	**Received by:**	**Date(mm/dd/yyyy):** 9/15/11	**Time:** 0845
Relinquished by:	**Date(mm/dd/yyyy):**	**Time:**	**Received by:**	**Date(mm/dd/yyyy):**	**Time:**
Comments:					

UL

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/15/11 0845
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45654
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

107041

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)
Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC137LL** ✓

Page: 1 for OSDC137LL
Date: 09/13/2011 05:05 PM

Sample ID	Sample Log	Task	Matrix	Smpl Type	Sample Container Vol	Unit	Type	Qty	Sample Date	Smpl Time	Associate Sample ID	Param Anly Group	Preser-vative	Remarks
749-WPW-06 ✓	OSDC137	X-749	WG	REG	2.5	GAL	CUBI	1	13-SEP-2011 ✓	1411 ✓		Distribution Coefficient	None	WATER CONTAINING TC-99 TO RUN Kd

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX	14-SEP-2011 ✓	X749	OSDC137LL	DEG C		FXP02234L04

Relinquished by: Stacy Claggett	Date(mm/dd/yyyy): 9-14-11	Time: 0830	Received by: AWS	Date(mm/dd/yyyy): 9/14/11	Time: 0830
Relinquished by: AWS	Date(mm/dd/yyyy): 9/14/11	Time: 1200	Received by: FedEx	Date(mm/dd/yyyy): 9/14/11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 9/15/11	Time: 0845	Received by:	Date(mm/dd/yyyy): 9/15/11	Time: 0845
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:

Comments:

R2

Client: Fluor B&W Portsmouth
SwRI Project #16526.05.00X
VTSR: 09/15/11 0845
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45654
Case: FXP02234L04
Sample(s) Received Intact
Background Check: <100 cpm
Temp.: 3.0 °C / #027

107041

Project Environmental Measurements System (PEMS)

Laboratory Lab Chain Of Custody (LCOC)

Project: **OSDC** SOW: **FXP02234L04**
Lab Chain of Custody (LCOC) Number: **OSDC139LL** ✓

Page: 1 for OSDC139LL
Date: 09/13/2011 05:05 PM

Sample ID	**Sample Log**	**Task**	**Matrix**	**Smpl Type**	**Sample Container Vol**	**Unit**	**Type**	**Qty**	**Sample Date**	**Smpl Time**	**Associate Sample ID**	**Param Anly Group**	**Preservative**	**Remarks**
749-WPW-07 ✓	OSDC139	X-749	WG	REG	2.5	GAL	CUBI	1	13-SEP-2011 ✓	1427 ✓		Distribution Coefficient	None	WATER CONTAINING TC-99 TO RUN Kd

Laboratory:	**Date Submitted To Lab:**	**Ship Container No:**	**SSG ID:**	**Cooler Temperature:**	**Airbill No:**	**SOW**
SWRI - Southwest Research Institute, San Antonio, TX ✓	14-SEP-2011 ✓	X749	OSDC139LL	DEG C		FXP02234L04

Relinquished by:	Date(mm/dd/yyyy): 9-14-11	Time: 0830	Received by:	Date(mm/dd/yyyy): 9/14/11	Time: 0830
Relinquished by:	Date(mm/dd/yyyy): 9/14/11	Time: 1200	Received by: Fedex	Date(mm/dd/yyyy): 9/14/11	Time: 1200
Relinquished by: Fed Ex	Date(mm/dd/yyyy): 9/15/11	Time: 0845	Received by:	Date(mm/dd/yyyy): 9/15/11	Time: 0845
Relinquished by:	Date(mm/dd/yyyy):	Time:	Received by:	Date(mm/dd/yyyy):	Time:
Comments:					

RT

Client: Fluor B&W Portsmouth
SwRI Project #18526.05.00X
VTSR: 09/15/11 0845
Battery Check: Y
Cooler/Container Wipe: <100 cpm
Total cpm-mR/h (samples): <100 cpm / 0 mR/h
(see Radioactive Material Receiving Form for more information

SwRI SRR #45654
Case: FXP02234L04
Sample(s) Received Intact
Background Check <100 cpm
Temp.: 3.0 °C / #027

Southwest Research Institute

Traffic Report
Sample Custodian Signature: ______________________

Project: 16526.05-00X
Case: FXP02234L04 / SDG: ____________
Sample Receipt: 45654
Airbill: SEE SRR NOTES

1.	Custody Seal	Present
2.	Chain of Custody	Present
3.	Sample Tags	Not Present
	Sample Tag Numbers	Not on COC
4.	SMO Forms	Not Present

Date Received	Time Received	COC Record	SMO Sample #	Corresponding		Traffic Rpt, Tags, COC Agree	Sample Condition
				Sample Tag #	SwRI #		
09/15/11	08:45:00	OSDC135LL	749-WPW-05	None	475063	YES	Intact
09/15/11	08:45:00	OSDC137LL	749-WPW-06	None	475064	YES	Intact
09/15/11	08:45:00	OSDC139LL	749-WPW-07	None	475065	YES	Intact
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-BE01	None	475066	YES	Intact
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-BE10	None	475067	YES	Broken
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-CU01	None	475068	YES	Broken
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-CU10	None	475069	YES	Intact
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-SU01	None	475070	YES	Intact
09/15/11	08:45:00	OSDC102LL	WDMW04B-33-SU10	None	475071	YES	Intact

WO: 45654 Portsmouth Fluor-B&W

FRM-217

SAMPLE LOG-IN SHEET

Lab Name: Southwest Research Institute

Page 1 of 1

Received By (Print Name): DINO ROMAN

Log-in Date: 09/14/2011

Received By (Signature): DR

Case Number: FXP02234L04

Sample Delivery Group No.: NA

SAS Number: NA

Remarks: 16526.05.00X

1. Custody Seal(s) [✓ Present]/Absent* [✓ Intact]/Broken
2. Custody Seal Nos. NA
3. Chain-of Custody Records [✓ Present]/Absent*
4. Traffic Reports or Packing Lists Present/[✓ Absent]
5. Airbill Airbill/Sticker [✓ Present]/Absent*
6. Airbill No. SEE SRR NOTES
7. Sample Tags Present/[✓ Absent]

   Sample Tag Numbers Listed/[✓ Not] listed on Chain of Custody
8. Sample Condition [✓ Intact]/Broken*/ Leaking
9. Cooler Temperature 3.0C
10. Does Information on custody records, traffic reports, and sample tags agree? [✓ Yes]/No*
11. Date Received at Lab 09/15/2011
12. Time Received 08:45:00

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc
749-WPW-05	None	475063	Intact
749-WPW-06	None	475064	Intact
749-WPW-07	None	475065	Intact
WDMW04B-33-BE01	None	475066	Intact
WDMW04B-33-BE10	None	475067	Broken
WDMW04B-33-CU01	None	475068	Broken
WDMW04B-33-CU10	None	475069	Intact
WDMW04B-33-SU01	None	475070	Intact
WDMW04B-33-SU10	None	475071	Intact

Sample Transfer

Fraction Inorg	Fraction
Area # RIJ	Area #
By DINO ROMAN	By
On 09/15/2011	On

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	Sample Receipt (45654)
Date	09/16/11	Logbook Page No.	~~7752~~ 7751 SEC 7 of 7

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110830-12, 110831-5, 110901-7, 110902-3, 111122-15
SRR: 45547, 45562, 45570, 45578, 45654
CASE: FXP02234L04
VTSR: 08.30.11, 08.31.11, 09.01.11, 09.02.11, 09.15.11, 10.06.11
PROJECT#: 16526.05.00X

ITEM RECEIPT

Record of Sample Discrepancy

Discrepancy Entry	1802
Sample Receipt	45654
Sample(s)	various
Project	16526.05.00X
Client	Fluor B&W Portsmouth
Manager	DAMMANN, MIKE
Initiator	ROMAN, DINO

ROMAN, DINO Sep 15 2011 3:53:24:920PM	- The containers for following samples were received broken, sample was contained in original ziplock bag: WDMW04B-33-BE10 WDMW04B-33-CU01
RAMIREZ, DANNY Sep 19 2011 9:25:59:193PM	Item listed in Task Order 110915-7. Email also sent to client.
New Information	

Home

ver (03/04/2002)

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110830-12, 110831-5, 110901-7, 110902-3, 111122-15
SRR: 45547, 45562, 45570, 45578, 45654
CASE: FXP02234L04
VTSR: 08.30.11, 08.31.11, 09.01.11, 09.02.11, 09.15.11, 10.06.11
PROJECT#: 16526.05.00X

pH TABLE

1065 73

000062

SwRI

pH Preservation Report

Sample Receipt Report 45578

Project: 16526.05.00X
Case: FXP02234L04

Customer: Fluor-B&W Portsmouth LLC
Received: Sep 2 2011 8:30AM
pH Adjuster:
Adjusted:

SwRI #	Customer's ID	pH
474396 1/1	WDMW03B-04-12.0	Login
Container ID	Adjustment	Final
474397 1/1	WDMW03B-04-2.0	Login
Container ID	Adjustment	Final
474398 1/1	WDMW03B-04-4.5	Login
Container ID	Adjustment	Final
474399 1/1	WDSB25-04-2.0	Login
Container ID	Adjustment	Final
474400 1/1	WDSB25-04-4.5	Login
Container ID	Adjustment	Final
474401 1/1	WDSB25-07-2.0	Login
Container ID	Adjustment	Final
474402 1/1	WDSB25-07-4.5	Login
Container ID	Adjustment	Final
474403 1/1	WDSB25-09-2.0	Login
Container ID	Adjustment	Final
474404 1/1	WDSB25-09-4.5	Login
Container ID	Adjustment	Final
474405 1/3	WDSB25-28-4.5	Login <2
Container ID	Adjustment	Final
474405 2/3	WDSB25-28-4.5	Login <2
Container ID	Adjustment	Final
474405 3/3	WDSB25-28-4.5	Login <2
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
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Container ID	Adjustment	Final
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Container ID	Adjustment	Final

SwRI #	Customer's ID	pH
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
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Container ID	Adjustment	Final
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Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final

1063605

000063

SwRI

pH Preservation Report

Sample Receipt Report 45547

Project: 16526.05.00X
Case: FXP02234L04

Customer: Fluor-B&W Portsmouth LLC
Received: Aug 30 2011 9:30AM
pH Adjuster:
Adjusted:

SwRI #	Customer's ID	pH
474203 1/1	231A-01G-04	Login
Container ID	Adjustment	Final
474204 1/1	749-WPW-04	Login
Container ID	Adjustment	Final
474205 1/1	WDSB01-04-12.0	Login
Container ID	Adjustment	Final
474206 1/1	WDSB01-04-19.5	Login
Container ID	Adjustment	Final
474207 1/1	WDSB01-04-2.0	Login
Container ID	Adjustment	Final
474208 1/1	WDSB01-04-24.5	Login
Container ID	Adjustment	Final
474209 1/1	WDSB01-04-4.5	Login
Container ID	Adjustment	Final
474210 1/1	WDSB07-04-12.0	Login
Container ID	Adjustment	Final
474211 1/1	WDSB07-04-4.5	Login
Container ID	Adjustment	Final
474212 1/1	WDSB07-07-12.0	Login
Container ID	Adjustment	Final
474213 1/1	WDSB07-07-2.0	Login
Container ID	Adjustment	Final
474214 1/1	WDSB07-07-4.5	Login
Container ID	Adjustment	Final
474215 1/1	WDSB07-09-12.0	Login
Container ID	Adjustment	Final
474216 1/1	WDSB07-09-2.0	Login
Container ID	Adjustment	Final
474217 1/1	WDSB07-09-4.5	Login
Container ID	Adjustment	Final
474218 1/3	WDSB07-15-4.5	Login <2
Container ID	Adjustment	Final
474218 2/3	WDSB07-15-4.5	Login <2
Container ID	Adjustment	Final
474218 3/3	WDSB07-15-4.5	Login <2
Container ID	Adjustment	Final
474219 1/1	WDSB09-04-2.0	Login
Container ID	Adjustment	Final

SwRI #	Customer's ID	pH
474220 1/1	WDSB09-04-4.5	Login
Container ID	Adjustment	Final
474221 1/1	WDSB09-07-2.0	Login
Container ID	Adjustment	Final
474222 1/1	WDSB09-07-4.5	Login
Container ID	Adjustment	Final
474223 1/1	WDSB09-09-2.0	Login
Container ID	Adjustment	Final
474224 1/1	WDSB09-09-4.5	Login
Container ID	Adjustment	Final
474225 1/3	WDSB09-15-4.5	Login <2
Container ID	Adjustment	Final
474225 2/3	WDSB09-15-4.5	Login <2
Container ID	Adjustment	Final
474225 3/3	WDSB09-15-4.5	Login <2
Container ID	Adjustment	Final
474226 1/3	WDSB09-28-19.5	Login <2
Container ID	Adjustment	Final
474226 2/3	WDSB09-28-19.5	Login <2
Container ID	Adjustment	Final
474226 3/3	WDSB09-28-19.5	Login <2
Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
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Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final
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Container ID	Adjustment	Final
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Container ID	Adjustment	Final
		Login
Container ID	Adjustment	Final

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110830-12, 110831-5, 110901-7, 110902-3, 111122-15
SRR: 45547, 45562, 45570, 45578, 45654
CASE: FXP02234L04
VTSR: 08.30.11, 08.31.11, 09.01.11, 09.02.11, 09.15.11, 10.06.11
PROJECT#: 16526.05.00X

VARIOUS ANALYSIS

SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110830-12, 110831-5, 110901-7, 110902-3, 111122-15
SRR: 45547, 45562, 45570, 45578, 45654
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PROJECT#: 16526.05.00X

SAMPLE DATA

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Lab Name: Southwest Research Institute

Lab Code: SwRI

Matrix: SO

Date Received: 08/30/11, 08/31/11, 09/01/11, 09/02/11

Task Order #: 110830-12, 110831-5, 110901-7, 110902-3

Client: Fluor-B&W Portsmouth LLC

Project No.: 16526.05.00X

SOW: FXP02234L04

SRR #: 45547, 45562, 45570, 45578

Method: ASTM C1733

		Tc99		**Total Uranium**	
Sample ID	Lab System ID	**K_d Results (mL/g)**	Uncertainty	**K_d Results (mL/g)**	Uncertainty
Prep Blank	Blank	0.204	0.903	0.028	0.99
WDSB07-07-12.0	474212	3.88	0.713	2.34	0.758
WDSB07-07-2.0	474213	3.36	0.702	12.7	1.00
WDSB07-07-4.5	474214	4.01	0.722	61.5	2.33
WDSB09-07-2.0	474221	4.20	0.708	27.8	1.28
WDSB09-07-4.5	474222	4.31	0.713	44.5	1.69
WDSB29-07-12.0	474300	4.59	0.725	4.20	0.799
WDSB29-07-2.0	474301	4.25	0.715	7.77	0.878
WDSB29-07-4.5	474302	4.51	0.720	7.44	0.871
WDSB31-07-2.0	474340	5.93	0.754	687	17.5
WDSB31-07-4.5	474341	3.57	0.708	14.0	1.05
WDSB31-22-4.5	474344	3.64	0.706	27.2	1.36
WDSB25-07-2.0	474401	3.08	0.718	11.8	1.08
WDSB25-07-4.5	474402	4.62	0.723	58.5	2.07

Page 1 of 1

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SOUTHWEST RESEARCH INSTITUTE
CLIENT: Fluor-B&W Portsmouth LLC
TASK ORDER: 110830-12, 110831-5, 110901-7, 110902-3, 111122-15
SRR: 45547, 45562, 45570, 45578, 45654
CASE: FXP02234L04
VTSR: 08.30.11, 08.31.11, 09.01.11, 09.02.11, 09.15.11, 10.06.11
PROJECT#: 16526.05.00X

RAW DATA

Sample Note

GROUNDWATER SAMPLES USED

Sample ID	Lab System ID	Date Received	SRR #
749-WPW-06	475064	09/15/11	45654
749-WPW-07	475065	09/15/11	45654
749-WPW-08	476734	10/06/11	45808

010007

Distribution Coefficient Tabulation

Fluor 16526.05.006
110830-12,110831-5,110901-7,110902-3

TC-99 - Kd Values

Sample ID			Day 7		Day 10 (9)		Day 14		Day 21		Report Kd (pooled)		
			K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	
Blank			-0.20	1.78	0.54	1.83	-0.07	1.79	0.54	1.83	**0.204**	**0.903**	
474212			3.39	1.99	3.82	2.00	3.62	2.01	3.79	2.01	**3.88**	**0.713**	Day 7-21
474212D			3.39	1.99	3.94	2.02	4.63	2.07	4.44	2.04			
474212-AVG			3.39	1.41	3.88	1.42	4.13	1.44	4.12	1.43			
474213			2.98	1.96	2.61	1.93	3.09	1.95	3.47	1.98	3.46	**0.702**	Day 7-21
474213D			4.16	2.03	4.16	2.03	3.34	1.98	3.90	2.01	**3.36***		
474213-AVG			3.57	1.41	3.38	1.40	3.21	1.39	3.68	1.41			
474214			4.47	2.05	3.77	2.00	4.18	2.04	4.00	2.01	4.42	**0.722**	Day 7-21
474214D			4.28	2.03	4.45	2.05	5.29	2.09	4.89	2.07	**4.01***		
474214-AVG			4.37	1.44	4.11	1.43	4.74	1.46	4.44	1.44			
474221			4.46	2.01	4.61	2.02	3.90	1.99	4.64	2.03	**4.20**	**0.708**	Day 7-21
474221D			3.47	1.96	3.97	1.98	4.07	2.00	4.48	2.02			
474221-AVG			3.96	1.41	4.29	1.41	3.98	1.41	4.56	1.43			
474222			3.07	1.95	4.45	2.03	4.92	2.05	4.49	2.03	**4.31**	**0.713**	Day 7-21
474222D			2.78	1.93	4.66	2.04	5.43	2.08	4.69	2.03			
474222-AVG			2.92	1.37	4.55	1.44	5.17	1.46	4.59	1.43			
474300			4.03	2.02	4.40	2.04	4.52	2.05	5.30	2.08	**4.59**	**0.725**	Day 7-21
474300D			3.89	2.00	4.44	2.04	4.70	2.05	5.43	2.10			
474300-AVG			3.96	1.42	4.42	1.44	4.61	1.45	5.37	1.48			
474301			4.38	2.02	3.75	2.00	4.45	2.03	4.17	2.02	**4.25**	**0.715**	Day 7-21
474301D			3.95	2.00	4.16	2.02	4.24	2.02	4.85	2.05			
474301-AVG			4.17	1.42	3.96	1.42	4.35	1.43	4.51	1.44			
474302			4.49	2.04	4.85	2.06	4.70	2.06	4.77	2.05	**4.51**	**0.720**	Day 7-21
474302D			4.32	2.03	4.31	2.02	4.32	2.03	4.35	2.02			
474302-AVG			4.40	1.44	4.58	1.44	4.51	1.44	4.56	1.44			
474340			5.45	2.10	4.86	2.08	6.55	2.17	6.65	2.17	**5.93**	**0.754**	Day 7-21
474340D			5.10	2.08	5.34	2.11	5.70	2.11	7.79	2.25			
474340-AVG			5.27	1.48	5.10	1.48	6.13	1.51	7.22	1.56			
474341			3.53	2.00	2.56	1.94	3.18	1.98	4.48	2.05	**3.57**	**0.708**	Day 7-21
474341D			3.44	2.00	3.87	2.02	3.34	1.99	4.18	2.04			
474341-AVG			3.48	1.41	3.22	1.40	3.26	1.40	4.33	1.45			
474344			3.31	1.98	3.78	2.01	3.65	2.00	4.07	2.03	**3.64**	**0.706**	Day 7-21
474344D			3.49	1.99	3.45	1.99	3.76	2.00	3.58	1.99			
474344-AVG			3.40	1.40	3.62	1.41	3.70	1.42	3.83	1.42			
474401			4.35	2.05	3.95	2.03	3.54	2.01	3.85	2.02	3.97	**0.718**	Day 7-21
474401D			3.72	2.02	3.17	1.98	4.18	2.04	5.01	2.10	**3.08***		
474401-AVG			4.04	1.44	3.56	1.42	3.86	1.43	4.43	1.46			
474402			3.54	1.98	4.23	2.02	4.63	2.04	5.18	2.09	**4.62**	**0.723**	Day 7-21
474402D			3.71	2.00	5.04	2.07	4.97	2.07	5.67	2.10			
474402-AVG			3.63	1.41	4.64	1.45	4.80	1.45	5.42	1.48			

*** Report. Sample contained a rocks, which were removed for testing. Kd was corrected according to the method Kd x (*100-%gravel)/100**

$$Kd = \frac{\frac{200\,(C_{avg\ blank} - C_{day\ x})}{m \times \%\ solids}}{C_{day\ x}}$$

Sample calc
474212
Day 7

$= \frac{200\,(759-676)/(8.0167 \times 0.904)}{676} = 3.39$

11/22/11

Fluor 16526.05.006
110830-12,110831-5,110901-7,110902-3

Total U - Kd Values

Sample ID			Day 7		Day 10 (9)		Day 14		Day 21		Day X		Report Kd (pooled)		
			K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	K_d, mL/g	*Uncert*	
Blank			-0.29	1.97	-0.05	1.99	0.50	2.02	-0.05	1.98	-0.05	1.98	**0.028**	**0.99**	
474212			1.79	2.11	2.52	2.16	3.01	2.19	2.22	2.13			**2.34**	**0.758**	Day 7-21
474212D			1.95	2.12	1.85	2.11	3.11	2.19	2.27	2.14					
474212-AVG			1.87	1.49	2.19	1.51	3.06	1.55	2.25	1.51					
474213			9.54	2.61	12.1	2.78	12.6	2.82	19.4	3.27	14.4	2.94	13.0 **12.7***	**1.00**	Day 7-X
474213D			10.3	2.66	11.4	2.73	12.5	2.80	15.3	2.99	12.9	2.83			
474213-AVG			9.95	1.86	11.7	1.95	12.5	1.99	17.4	2.21	13.6	2.04			
474214			55.5	5.73	67.1	6.57	66.4	6.47	88.5	8.05	68.2	6.63	67.8 **61.5***	**2.33**	Day 7-X
474214D			61.2	6.17	62.4	6.22	68.1	6.63	71.9	6.88	68.3	6.63			
474214-AVG			58.4	4.21	64.8	4.52	67.3	4.63	80.2	5.29	68.2	4.69			
474221			25.5	3.51	29.5	3.76	27.0	3.59	31.2	3.85	24.3	3.43	**27.8**	**1.28**	Day 7-X
474221D			26.8	3.59	27.1	3.61	24.8	3.45	33.0	3.95	28.5	3.68			
474221-AVG			26.2	2.51	28.3	2.61	25.9	2.49	32.1	2.76	26.4	2.52			
474222			27.5	3.66	25.2	3.52	70.9	6.35	40.4	4.45	56.8	5.50	**44.5**	**1.69**	Day 7-X
474222D			30.3	3.83	51.5	5.14	37.1	4.25	61.2	5.75	43.9	4.68			
474222-AVG			28.9	2.65	38.4	3.11	54.0	3.82	50.8	3.64	50.4	3.61			
474300			4.24	2.26	3.54	2.22	4.31	2.27	4.54	2.28			**4.20**	**0.799**	Day 7-21
474300D			4.57	2.29	4.10	2.25	3.50	2.21	4.83	2.30					
474300-AVG			4.41	1.61	3.82	1.58	3.91	1.58	4.68	1.62					
474301			6.42	2.40	10.47	2.65	5.98	2.37	7.21	2.44			**7.77**	**0.878**	Day 7-21
474301D			7.86	2.49	10.40	2.65	7.30	2.45	6.51	2.40					
474301-AVG			7.14	1.73	10.43	1.87	6.64	1.70	6.86	1.71					
474302			8.25	2.51	7.34	2.46	7.31	2.45	8.53	2.53			**7.44**	**0.871**	Day 7-21
474302D			6.65	2.41	8.47	2.53	5.53	2.34	7.41	2.46					
474302-AVG			7.45	1.74	7.91	1.76	6.42	1.69	7.97	1.77					
474340			439	32.0	708	48	947	66.7	740	52.5	801	56.6	**687**	**17.5**	Day 7-X
474340D			459	33.2	565	40.3	678	48.4	750	53.1	788	55.7			
474340-AVG			449	23.0	636	31.4	812	41.2	745	37.3	794	39.7			
474341			13.8	2.95	13.6	2.94	13.7	2.94	17.0	3.19			**14.0**	**1.05**	Day 7-21
474341D			14.6	3.01	12.8	2.89	13.0	2.90	13.6	2.94					
474341-AVG			14.2	2.11	13.2	2.06	13.4	2.06	15.3	2.17					
474344			23.6	3.60	27.9	3.89	28.1	3.90	28.6	3.93			**27.2**	**1.36**	Day 7-21
474344D			27.2	3.85	30.3	4.06	27.9	3.90	23.6	3.60					
474344-AVG			25.4	2.63	29.1	2.81	28.0	2.76	26.1	2.66					
474401			11.5	2.79	15.4	3.06	15.5	3.07	17.9	3.24			15.3 **11.8***	**1.08**	Day 7-21
474401D			13.8	2.94	13.2	2.91	16.0	3.10	18.9	3.31					
474401-AVG			12.6	2.03	14.3	2.11	15.7	2.18	18.4	2.31					
474402			47.2	5.10	58.5	5.84	59.4	5.91	67.1	6.40			**58.5**	**2.07**	Day 7-21
474402D			57.7	5.76	57.6	5.79	60.7	5.96	59.6	5.93					
474402-AVG			52.4	3.85	58.0	4.11	60.0	4.20	63.3	4.36					

*** Report. Sample contained a rocks, which were removed for testing. Kd was corrected according to the method Kd x (*100-%gravel)/100**

$$Kd = \frac{\dfrac{200\,(C_{avg\ blank} - C_{day\ x})}{m \times \%\ solids}}{C_{day\ x}}$$

Sample calc 474212 Day 7 = $\frac{200(101800-95600)/(8.0167 \times 0.904)}{95600}$ = 1.79

✓ RSpns 11/22/11

Fluor 16526.05.006
110830-12,110831-5,110901-7,110902-3

TC-99 - Instrument Results

Sample ID	Day 0		Day 7		Day 10		Day 14		Day 21				
	pCi/mL	err	pCi/mL	err	pCi/L	err	pCi/L	err	pCi/L	err	$C_{avg\ blk}$	err	Rel Err
Blank	783	46.9	765	44.9	743	43.6	761	44.7	743	43.6	**759**	**20.02**	**2.64%**
474212			676	39.8	666	39.2	671	39.5	667	39.3			
474212D			676	39.8	664	39.1	650	38.3	653	38.5			
474213			687	40.4	695	40.8	684	40.2	676	39.8			
474213D			662	39.0	662	39.0	679	40.0	667	39.3			
474214			654	38.5	668	39.3	660	38.9	663	39.0			
474214D			657	38.7	654	38.5	637	37.5	645	38.0			
474221			664	39.1	661	38.9	675	39.7	661	38.9			
474221D			683	40.2	673	39.6	672	39.5	664	39.1			
474222			690	40.6	663	39.0	654	38.5	662	39.0			
474222D			696	40.9	659	38.8	645	38.0	658	38.7			
474300			665	39.1	657	38.7	655	38.6	639	37.6			
474300D			667	39.2	656	38.6	651	38.3	637	37.6			
474301			659	38.8	672	39.6	658	38.7	664	39.1			
474301D			668	39.3	664	39.1	662	39.0	650	38.3			
474302			657	38.7	650	38.3	653	38.4	651	38.3			
474302D			660	38.9	660	38.8	660	38.9	659	38.8			
474340			635	37.4	647	38.1	615	36.3	613	36.1			
474340D			642	37.8	638	37.6	630	37.1	594	35.0			
474341			670	39.4	692	40.7	678	39.9	649	38.2			
474341D			672	39.6	662	39.0	674	39.6	656	38.6			
474344			677	39.8	667	39.3	670	39.4	661	38.9			
474344D			673	39.6	674	39.6	667	39.2	671	39.5			
474401			652	38.4	661	38.9	670	39.4	663	39.0			
474401D			666	39.2	678	39.9	656	38.6	639	37.7			
474402			675	39.7	661	38.9	653	38.4	643	37.9			
474402D			672	39.6	645	38.0	647	38.1	633	37.3			

NRSpies
11/21/11

Fluor 16526.05.006
110830-12,110831-5,110901-7,110902-3

Total U - Instrument Results

Day X = Day 32

Sample ID	Day 0		Day 7		Day 10		Day 14		Day 21		Day X				
	ng/L	err	ng/L	err	ng/L	err	ng/L	err	ng/L	err	ng/L	err	$C_{avg\ blk}$	err	
Blank	102000	6903	103000	6973	102000	6902	99800	6740	102000	6853	102000	6862	**101800**	**2805.70**	**2.76%**
474212			95600	6456	93200	6291	91800	6200	94200	6357					
474212D			95100	6421	95400	6437	91500	6179	94000	6347					
474213			76200	5142	71400	4823	70300	4748	60300	4070	67300	4545			
474213D			74600	5033	72600	4902	70700	4771	66100	4463	69900	4719			
474214			34000	2292	29700	2008	30100	2029	24200	1636	29400	1987			
474214D			31600	2132	31300	2112	29400	1986	28300	1909	29400	1988			
474221			56000	3780	52200	3523	54700	3691	51000	3443	57300	3866			
474221D			54700	3695	54400	3672	56900	3838	49600	3349	53300	3597			
474222			53700	3623	55900	3771	30700	2072	43900	2961	35500	2399			
474222D			51200	3459	38000	2566	46100	3112	33900	2289	41800	2821			
474300			88600	5981	90500	6107	88400	5965	87700	5920					
474300D			87600	5916	88900	6002	90600	6117	87000	5876					
474301			83300	5623	74800	5048	84400	5701	81600	5510					
474301D			80100	5410	75000	5064	81300	5485	83100	5611					
474302			79200	5348	81200	5485	81300	5485	78500	5298					
474302D			82700	5586	78600	5306	85400	5768	80900	5463					
474340			6080	411	4040	274	2920	198	3700	250	3440	233			
474340D			5850	395	4830	327	4020	272	3670	249	3490	236			
474341			67000	4522	67200	4539	67200	4537	61900	4180					
474341D			65700	4436	68600	4633	68300	4610	67300	4546					
474344			54600	3686	50400	3406	50300	3394	49900	3370					
474344D			51000	3442	48300	3260	50300	3399	54600	3686					
474401			71100	4803	64500	4357	64400	4349	60800	4104					
474401D			67100	4527	68000	4588	63600	4296	59600	4025					
474402			38300	2584	33400	2254	33000	2227	30500	2062					
474402D			33800	2279	33700	2278	32700	2208	32900	2224					

NRSpies 11/21/11

010011

Distribution Coefficient pH Data

RSpies 11/21/11

Fluor 16526.05.006
110830-12,110831-5,110901-7,110902-3

pH Data

Day X = Day 32

Sample	Day 0	Day 7	Day 10	Day 14	Day 21	Day X
	pH	pH	pH	pH	pH	pH
Blank	7.75	7.77	7.88	7.83	7.92	8.21
474212		8.06	8.11	8.04	8.27	
474212D		8.13	8.02	8.11	8.20	
474213		7.98	8.08	7.86	8.02	8.01
474213D		7.89	8.00	7.91	8.04	8.15
474214		8.11	8.19	8.06	8.08	8.28
474214D		8.17	8.10	8.05	8.11	8.27
474221		8.12	8.19	8.04	8.16	8.40
474221D		8.21	8.23	8.03	8.20	8.30
474222		8.37	8.38	8.14	8.18	8.57
474222D		8.42	8.34	8.15	8.20	8.63
474300		8.10	7.98	8.08	8.13	
474300D		8.03	8.05	8.09	8.24	
474301		7.98	8.21	8.13	8.25	
474301D		7.97	8.24	7.94	8.18	
474302		8.05	8.00	7.98	8.20	
474302D		8.15	7.90	7.95	8.05	
474340		7.66	7.57	7.38	7.54	7.96
474340D		7.60	7.40	7.20	7.50	8.03
474341		8.40	8.37	8.00	8.18	
474341D		8.41	8.36	8.04	8.16	
474344		8.39	8.37	8.12	8.15	
474344D		8.38	8.45	8.19	8.14	
474401		8.14	8.11	8.02	8.11	
474401D		8.07	7.96	8.00	8.09	
474402		8.28	8.29	8.01	8.19	
474402D		8.29	8.35	8.05	8.15	

010014

Southwest Research Institute® Logbook: pH

Analysis/Method: pH DAYO **Project#:** 16526.05.006

Client: Fluor B&W Portsmouth **TO#:** 110830-12, 110831-5, 110901-7, 110902-3

QC Source: INORG # ~~8235~~ 8325 @ 10/14/11 mm **TV:** 7.52

Notes: QC Range 7.43-7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
NA				
4.0	4.00	8958	1/13	22.0
7.0	7.01	8960	2/13	22.1
10.0	10.04	8961	1/13	22.0
NA				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.50	N/A	N/A	N/A	21.7
DAYO Blank	7.75	↓	↓	↓	21.1
CCV	7.51	↓	↓	↓	22.0

JAM 10/7/11

Analyst Signature: James Moha **Date:** 10/7/11

Reviewed by: M. Mendoza **Date:** 10/14/11

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Southwest Research Institute® Logbook: pH

010015

Analysis/Method: pH DAY 7 Project#: 16526.05.006

Client: Fluor B&W Portsmouth TO#: 110830-12, 110901-7, 110831-5
110902-3

QC Source: INORG # 8325 TV: 7.52 s.u.

Notes: QC Range 7.43-7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
2.0	2.00	8904	6/12	23.6
4.0	4.00	8958	1/13	23.1
7.0	7.00	8960	2/13	22.9
10.0	10.00	8961	1/13	22.6
N/A	—	—	—	—

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.53				22.2
474212	8.06				22.2
474212D	8.13				22.2
474213	7.98				22.1
474213D	7.89				22.2
474214	8.11				22.2
474214D	8.17				22.1
474341	8.40				22.1
474341D	8.41		gee 10/14/11		22.1
474344	8.39				21.9
474344D	8.38				21.9
CCV	7.5~~2~~3 TE JAM 10/14/11				22.3
~~CCB~~ 474221 TE JAM 10/14/11		TE 10/14/11 gee			
474221	8.~~07~~ 12				21.7
474221D	8.21				21.7
	Judy Herrera /				

Analyst Signature: ~~Judy Herrera~~ * Date: 10/14/11

Reviewed by: M. Menl Date: 11/8/11

* incorrect analyst 10/14/11 gee

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FRM-241 (Rev 2/Feb 04)

Southwest Research Institute® Logbook: pH

Analysis/Method: pH DAY7 **Project#:** 16526.05.006

Client: Fluor B&W Portsmouth **TO#:** 110830-12, 110901-7, 110831-5, 110902-3

QC Source: INORG# 8325 **TV:** 7.52 s.u.

Notes: QC Range 7.43- 7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
2.0	2.00	8904	6/12	23.6
4.0	4.00	8958	1/13	23.1
7.0	7.00	8960	2/13	22.9
10.0	10.00	8961	1/13	22.6
N/A				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
474300	8.10				22.1
474300D	8.03				22.6
474401	8.14				22.3
474401D	8.07				22.2
474402	8.28				22.2
474402D	8.29				22.1
474301	7.98				22.2
474301D	7.97				22.0
CCV2	7.57				22.7
474302	8.025				22.1
474302D	8.15				22.3
474340	7.66				22.2
474340D	7.60				22.2
474222	8.37				22.2
474222D	8.42				22.2
CCV3	7.54				22.7
Blank Day7	7.77				22.4
CCV4	7.54				22.6

SAM 10/17/11

Analyst Signature: Date: 10/14/11

Reviewed by: Date: 11/8/11

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Southwest Research Institute® Logbook: pH

Analysis/Method: pH DAY 10 Project#: 16526.05.006

Client: Fluor B&W Portsmouth TO#: 110830-12, 110901-7, 110831-5 110902-3

QC Source: INORG # 8325 TV: 7.52 s.u.

Notes: QC Range 7.43-7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
NA				
4.0	4.00	8958	1/13	22.0
7.0	7.01	8960	2/13	22.1
10.0	10.03	8961	1/13	22.1
NA	—	—	—	—

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.51				22.4
474212	8.11				22.2
474212D	8.02				22.6
474213	8.08				22.4
474213D	8.00				22.4
474214	8.19				22.2
474214D	8.10				22.2
474341	8.37				22.0
474341D	8.36				22.2
474344	8.37				22.1
474344D	8.45				21.9
CCV	7.54				22.2
474221	8.19				22.2
474221D	8.23				22.2
474300	7.98				22.1
474300D	8.05				21.9
474401	8.11				22.1
474401D	7.96				22.2

JAM 10/17/11

Analyst Signature: James Maher Date: 10/17/11

Reviewed by: M. Mendeja Date: 11/8/11

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FRM-241 (Rev 2/Feb 04)

010018

Southwest Research Institute® Logbook: pH

Analysis/Method: pH DAY 10 Project#: 16526.05.006

Client: Fluor B&W Portsmouth TO#: 110830-12, 110901-7, 110831-5 110902-3

QC Source: INORG #~~833~~ 8325 TE SAM 10/17/11 TV: 7.52su

Notes: QC Range 7.43-7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
NA	—	—	—	—
4.0	4.00	8958	1/13	22.0
7.0	7.01	8960	2/13	22.1
10.0	10.03	8961	1/13	22.1
NA	—	—	—	—

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
474222	8.38				21.9
474222D	8.34				21.9
474402	8.29				21.9
474402D	8.35				22.0
CCV2	7.55				22.3
474301	8.21				21.8
474301D	8.24				21.6
474302	8.00				21.9
474302D	7.90				22.2
474340	7.57				22.1
474340D	7.40				22.0
Blank DAY10	7.88				22.2
CCV3	7.54				22.5

SAM 10/17/11

MM 11/8/11

Analyst Signature: Jurnee Maher Date: 10/17/11

Reviewed by: M. Meyer Date: 11/8/11

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FRM-241 (Rev 2/Feb 04)

Southwest Research Institute® Logbook: pH

Analysis/Method: pH DAY 14 **Project#:** 16526.05.006

Client: Fluor B&W Portsmouth **TO#:** 110830-12, 110901-7, 110831-5, 110902-3

QC Source: INORG # 8325 **TV:** 7.52 s.u.

Notes: QC Range 7.43 - 7.61 su

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
4.0	4.00	8958	1/13	20.9
7.0	7.01	8960	2/13	↓
10.0	10.04	8961	1/13	↓

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.45				21.9
474212	8.04				21.9
474212D	8.11				21.9
474213	7.86				22°
474213D	7.91				22°
474214	8.06				22.1°
474214D	8.05				22.2°
474341	8.0				22.2°
474341D	8.04				22.3
474344	8.12				22.1°
474344D	8.19				22.2°
CCV	7.47				21.9
474221	8.04				22.2
474221D	~~9~~ 8.03				22.4°
474222	8.14				22.2°
474222D	8.15				22.2
474300	8.08				22.2
474300D	8.09				22.2

JAM 10/21/11

Analyst Signature: **Date:** 10-21-11

Reviewed by: **Date:** 10/27/11

00 320

Book/Page C-1105

Southwest Research Institute® Logbook: pH 010020

Analysis/Method: pH Day 14 **Project#:** 16526.05.006

Client: Fluor B&W Portsmouth **TO#:** 110830-12, 110901-7, 110831-5 110902-3

QC Source: INORG# 8325 **TV:** 7.52su

Notes: QC Range 7.43-7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
4.0	4.00	8958	1/13	20.9
7.0	7.01	8960	2/13	20.9
10.0	10.04	8961	1/13	20.9

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
474401	8.02				22.2°
474401D	8.00				22.4°
474402	8.01				22.6°
474402D	8.05				22.5°
CCV2	7.45				21.9°
474301	8.13				22.2°
474301D	7.94				23.1
474302	7.98				22.3
474302D	7.95				22.2
474340	7.38				22.3
474340D	7.20				22.1
Blank D14	7.83				22.1
CCV3	7.47				22.1
Blank Day 0	7.75				20.9
CCV4	7.46				22.1

AM 10/21/11

Analyst Signature: **Date:** 10-21-11

Reviewed by: **Date:** 10/22/11

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FRM-241 (Rev 2/Feb 04)

010021

Southwest Research Institute® Logbook: pH

Analysis/Method: pH Day 2 ~~1~~ TE JAM 10/28/11 **Project#:** 16526.05.006

Client: Fluor B&W Portsmouth **TO#:** 110830-12, 110901-7, 110831-5
110902-3

QC Source: INORG # 8325 **TV:** 7.52 s.u.

Notes: QC Range 7.43 - 7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
NA	—	—	—	—
4.0	4.00	8958	1/13	22.4
7.0	7.01	8960	2/13	22.6
10.0	10.04	8961	1/13	21.9
NA		—	—	—

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.51				22.3
474212	8.27				22.6
474212D	8.20				22.3
213	8.02				22.4
213D	8.04				22.1
214	8.08				22.2
214D	8.11				22.0
341	8.18				22.2
341D	8.16				22.2
344	8.15				22.1
344D	8.14				22.2
CCV	7.52				22.4
474221	8.16				22.2
221D	8.20				22.1
222	8.18				22.2
222D	8.20				22.0
300	8.13				22.1
300D	8.24				22.2

JAM 10/28/11

Analyst Signature: James Maher **Date:** 10/28/11

Reviewed by: M. Merrill **Date:** 11/8/11

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FRM-241 (Rev 2/Feb 04)

Southwest Research Institute® Logbook: pH 010022

Analysis/Method: PH DAY 21 **Project#:** 16526.05.006

Client: Fluor B&W Portsmouth **TO#:** 110830-12, 110901-7, 110831-5, 110902-3

QC Source: INORG # 8325 **TV:** 7.52 su

Notes: QC Range 7.43-7.61 s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
NA				22.4
4.0	4.00	4.00	8958	22.6
7.0	7.01	7.01	8960	21.9
10.0	10.04	10.04	8961	
NA				

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
474401	8.11				22.0
401D	8.09				22.1
402	8.19				22.1
402D	8.15				22.0
CCV2	7.51				22.3
474301	8.25				21.9
301D	8.18				22.0
302	8.20				21.9
302D	8.05				22.4
340	7.54				21.9
340D	7.50				21.9
Blank D21	7.92				22.2
CCV3	7.52				22.6

JAM 10/28/11

JAM 10/28/11

Analyst Signature: James Maher Date: 10/28/11

Reviewed by: Date: 11/8/11

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FRM-241 (Rev 2/Feb 04)

010023

Southwest Research Institute® Logbook: pH

Analysis/Method: DAY X 32 pH **Project#:** 16526.05.006

Client: Fluor B&W Portsmouth **TO#:** 110830-12, 110901-7, 110831-5 110902-3

QC Source: 8294 **TV:** 7.97s.u.

Notes: QC Range 7.83-8.11s.u.

Standardization of pH Meter:

Buffer Solution	pH Reading	Inorg #	Expiration Date	Temp, °C
NA	—	—	—	—
4.0	4.00	8958	1/13	22.4
7.0	7.01	8960	2/13	22.6
10.0	10.03	8961	1/13	22.4
NA	NA	—	—	—

	Liquids	Soils/Solids			
Sample ID	pH	Sample Wt, g	Water Wt, g	pH	Temp, °C
ICV	7.99				22.2
474213	8.01				22.3
474213D	8.15				22.8
474214	8.28				24.1
474214D	8.27				23.8
474221	8.40				23.4
474221D	8.30				23.9
474222	8.57				21.2
474222D	8.63				21.0
474340	7.96				21.9
474340D	8.03				21.4
CCV	7.96				23.4
Blank DX	8.21				24.1
CCV	7.97				23.6

SAM 11/8/11

SAM 11/8/11

Analyst Signature: James Mohr **Date:** 11/8/11

Reviewed by: **Date:** 11/17/11

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Distribution Coefficient Prep

Fluor 16526.05.006
110830-12,110831-S,110901-7,110902-3

Prep Information

y X = Day 32

Sample ID			Day 7		Day 10 (9)		Day 14		Day 21		Day x	
	%gravel removed	% Solids	Wt g	Vol mL	Wt g	Vol mL	Wt g	Vol mL	Wt g	Vol mL	Wt g	Vol mL
Blank												
474212		90.40%	8.0167	200	8.0856	200	8.0109	200	8.0451	200		
474212D		90.40%	8.0121	200	8.0409	200	8.0077	200	8.0800	200		
474213	2.78%	87.86%	8.0137	200	8.0393	200	8.0742	200	8.0599	200	8.0852	200
474213D	2.78%	87.86%	8.0206	200	8.0148	200	8.0333	200	8.0543	200	8.0831	200
474214	9.20%	89.63%	8.0140	200	8.0720	200	8.0010	200	8.0837	200	8.0602	200
474214D	9.20%	89.63%	8.0952	200	8.0482	200	8.0721	200	8.0658	200	8.0451	200
474221		79.59%	8.0645	200	8.0882	200	8.0187	200	8.0294	200	8.0310	200
474221D		79.59%	8.0625	200	8.0877	200	8.0018	200	8.0214	200	8.0136	200
474222		81.18%	8.0372	200	8.0186	200	8.0420	200	8.0352	200	8.0959	200
474222D		81.18%	8.0254	200	8.0289	200	8.0244	200	8.0665	200	8.0576	200
474300		87.77%	8.0018	200	8.0408	200	8.0114	200	8.0704	200		
474300D		87.77%	8.0856	200	8.0573	200	8.0452	200	8.0321	200		
474301		85.62%	8.0840	200	8.0541	200	8.0587	200	8.0208	200		
474301D		85.62%	8.0558	200	8.0288	200	8.0682	200	8.0688	200		
474302		86.14%	8.0351	200	8.0272	200	8.0133	200	8.0745	200		
474302D		86.14%	8.0585	200	8.0885	200	8.0558	200	8.0988	200		
474340		88.86%	8.0703	200	8.0153	200	8.0472	200	8.0630	200	8.0376	200
474340D		88.86%	8.0406	200	8.0011	200	8.0795	200	8.0271	200	8.0478	200
474341		93.66%	8.0377	200	8.0707	200	8.0233	200	8.0797	200		
474341D		93.66%	8.0464	200	8.0812	200	8.0523	200	8.0300	200		
474344		90.77%	8.0630	200	8.0481	200	8.0288	200	8.0236	200		
474344D		90.77%	8.0744	200	8.0453	200	8.0811	200	8.0710	200		
474401	22.5%	93.52%	8.0618	200	8.0187	200	8.0163	200	8.0398	200		
474401D	22.5%	93.52%	8.0297	200	8.0570	200	8.0313	200	8.0090	200		
474402		86.90%	8.0883	200	8.0610	200	8.0759	200	8.0226	200		
474402D		86.90%	8.0288	200	8.0743	200	8.0188	200	8.0867	200		

RSpies
11/22/11

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 00146_

Book I.D. # _10-0406-057_

Analysis: ASTM- C 1733

Project #: 16526.05.006

Method (circle) Digestion / Distillation / Extraction / Bomb

Task Order#: 110830-12

Client: Fluor B&W Portsmouth

TAP#: N/A

Balance ID: 88

Pipette ID: 5000-— 1000-— 200-—

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: N/A

LCS TV = N/A

Notes / Prep: F.V. Prep used 476734, 475064, 475065 spiked with 2.8ml INORG# 9204 uranium/urany) 9/21/11 10/7/11

F.V.= 28L

	Sample ID	[✓ Sample Wt (g)] Sample Vol (ml)	Final Volume (ml)			
D7	474212	8.0167	200ml			
D7	474212D	8.0121				
D10	474212	8.0856				
D10	474212D	8.0409				
D14	474212	8.0109				
D14	474212D	8.0077				
D21	474212	8.0451				
D21	474212D	8.0800				
DX	474212	8.0016				
DX	474212D	8.0656				
D7	474213	8.0137				
D7	474213D	8.0206		large rocks removed		
D10	474213	8.0393				
D10	474213D	8.0148		total sample wt (g) =		
D14	474213	8.0742		108g		
D14	474213D	8.0333				
D21	474213	8.0599		rocks removed = 3.00g		
D21	474213D	8.0543				
DX	474213	8.0852		% rocks = $\frac{3.00}{108}$ = 2.78%		
DX	474213D	8.0831				
				Jau 09/21/11		

Analyst Signature: James Mxxxx

Date: 9/21/11

Reviewed by:

Date: 10/13/11

010027

Southwest Research Institute
WC Sample Prep Logbook

Book/Page: 15 00147

Book I.D. # 10-0406-057

Analysis: ASTM-C1733
Method (circle) Digestion / Distillation / Extraction / Bomb
Client: Fluor B&W Portsmouth

Project #: 16526.05.006
Task Order#: 110830-12; 110901-7
TAP#: N/A

Balance ID: 12 (474214) / 88 (474341)
Digestion Apparatus: N/A
LCS ID: N/A
Notes / Prep: *TE 09/21/11 gau

Pipette ID: 5000- — 1000- — 200- —
Temperature: N/A
LCS TV = N/A

		9/21/11	10/7/11			
	Sample ID	Sample Wt (g) Sample Vol (ml)	Final Volume (ml)			
D07	474214	8.0140	200ml	large rocks removed		
D7	474214D	8.0952				
D10	474214	8.0720		total sample wt (g) =		
D10	474214D	8.0482		163g		
D14	474214	8.0010				
D14	474214D	8.0721		rocks removed = 15g		
D21	474214	8.0837				
D21	474214D	8.0658		% rocks = 15/163 = 9.20%		
DX	474214	8.0602				
DX	474214D	8.0451				
D07	474341	8.0377				
D7	474341D	8.0464				
*D10	474341	8.0707		D10		
*D10	474341D	8.0812		D10	CI 09/21/11	
*D14	474341	8.0233		D14	gau	
D14	474341D	8.0523		D14		
D21	474341	8.0797				
D21	474341D	8.0300				
DX	474341	8.0874				
DX	474341D	8.0642				
			gau 09/21/11			

Analyst Signature: Gay Herrera / James [illegible] Date: 09/21/11
Reviewed by: [illegible] Date: 10/13/11

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 00148_

Book I.D. # _10-0406-057_

Analysis: ASTM_C1733

Project #: 16526.05.006

Method (circle) Digestion / Distillation / Extraction / Bomb

Task Order#: 110901-7; 110830-12

Client: Fluor B&W Portsmouth

TAP#: N/A

Balance ID: 12 (474344), 88 (474221)

Pipette ID: 5000-— 1000-— 200-—

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: N/A

LCS TV = N/A

Notes / Prep:

	Sample ID	9/21/11 Sample Wt [✓ (g)] Sample Vol (ml)	10/7/11 Final Volume (ml)			
D7	474344	8.0630	200 ml			
D7	474344D	8.0744	↓			
D10	474344	8.0481				
D10	474344D	8.0453				
D14	474344	8.0288				
D14	474344D	8.0811				
D21	474344	8.0236				
D21	474344D	8.0710				
DX	474344	8.0986				
DX	474344D	8.0134				
D7	474221	8.0645				
D7	474221D	8.0625				
D10	474221	8.0882				
D10	474221D	8.0877				
D14	474221	8.0187				
D14	474221D	8.0018				
D21	474221	8.0294				
D21	474221D	8.0214				
DX	474221	8.0310				
DX	474221D	8.0136	↓			
			gau	09/21/11		

Analyst Signature: Judy Herrera / James Mohan **Date:** 09/21/11

Reviewed by: **Date:** 10/13/11

FRM-277 (Rev 4/Dec 10)

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 00149_ Book I.D. # _10-0406-057_

Analysis: ASTM-C1733 Project #: 16526.05.006
Method (circle) Digestion / Distillation / Extraction / Bomb Task Order#: 110830-12, 110831-5
Client: Fluor B&W Portsmouth TAP#: N/A

Balance ID: 12 (474222) 188 (474300) Pipette ID: 5000-___ 1000-___ 200-___
Digestion Apparatus: N/A Temperature: N/A
LCS ID: N/A LCS TV = N/A
Notes / Prep:

	Sample ID	9/21/11 Sample Wt (g) Sample Vol (ml)	10/7/11 Final Volume (ml)			
D7	474222	8.0372	200ml			
D7	474222D	8.0254				
D10	474222	8.0186				
D10	474222D	8.0289				
D14	474222	8.0420				
D14	474222D	8.0244				
D21	474222	8.0352				
D21	474222D	8.01665				
DX	474222	8.0959				
DX	474222D	8.0576				
D7	474300	8.0018				
D7	474300D	8.0856				
D10	474300	8.0408				
D10	474300D	8.0573				
D14	474300	8.0114				
D14	474300D	8.0452				
D21	474300	8.0704				
D21	474300D	8.0321				
DX	474300	8.0636				
DX	474300D	8.0089				
			JAH 09/21/11			

Analyst Signature: Judy Herrera / James Moha Date: 09/21/11
Reviewed by: Date: 10/13/11

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 00150_

Book I.D. # _10-0406-057_

Analysis: ASTM_C1733

Project #: 16526.05.006

Method (circle) Digestion / Distillation / Extraction / Bomb

Task Order#: 110902-3

Client: Fluor B&W Portsmouth

TAP#: N/A

Balance ID: (474401) 88 / 12 (474402)

Pipette ID: 5000-___ 1000-___ 200-___

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: N/A

LCS TV = N/A

Notes / Prep: *TE 09/21/11 gcu

9/21/11 10/7/11

	Sample ID	Sample Wt (g) Sample Vol (ml)	Final Volume * (ml)			
D7	474401	8.0618 ~~8.0883~~	200 ml	large rocks removed		
D7	474401D	8.0297				
D10	474401	8.0187		total sample Wt (g) =		
D10	474401D	8.0570		129g		
D14	474401	8.0163				
D14	474401D	8.0313		rocks removed = 29g		
D21	474401	8.0398				
D21	474401D	8.0090		% rocks = $\frac{29}{129}$ = 22.5%		
DX	474401	8.0715				
DX	474401D	8.0135				
D7	474402	8.0883				
D7	474402D	8.0288				
D10	474402	8.0610				
D10	474402D	8.0743				
D14	474402	8.0759				
D14	474402D	8.0188				
D21	474402	8.0226				
D21	474402D	8.0867				
DX	474402	8.0784				
DX	474402D	8.0161				
			gcu 09/21/11			

Analyst Signature: / Judy Herrera Date: 09/21/11

Reviewed by: D Jones Date: 10/13/11

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 00151_

Book I.D. # _10-0406-057_

Analysis: ASTM_C1733

Project #: 110526.05.006

Method (circle) Digestion / Distillation / Extraction / Bomb

Task Order#: 110831-5

Client: Fluor B&W Portsmouth

TAP#: N/A

Balance ID: ~~(474301)~~ * 12 / ~~88 (474302)~~*

Pipette ID: 5000- 1000- 200-

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: N/A

LCS TV = N/A

Notes / Prep: * TE 09/22/11 gau

	Sample ID	9/21/11 Sample Wt [✓ (g)] Sample Vol (ml)	10/7/11 Final Volume (ml)			
D7	474301	8.0840	200ml			
D7	474301D	8.0558				
D10	474301	8.0541				
D10	474301D	8.0288				
D14	474301	8.0587				
D14	474301D	8.0682				
D21	474301	8.0208				
D21	474301D	8.01688				
DX	474301	8.0543				
DX	474301D	8.0851				
D7	474302	8.0351				
D7	474302D	8.0585				
D10	474302	8.0272				
D10	474302D	8.0885				
D14	474302	8.0133				
D14	474302D	8.0558				
D21	474302	8.0745				
D21	474302D	8.0988				
DX	474302	8.0634				
DX	474302D	8.0457				
			gau 09/21/11 gau			

Analyst Signature: Gay Herrera

Date: 09/21/11

Reviewed by:

Date: 10/13/11

Southwest Research Institute
WC Sample Prep Logbook

Book/Page:_15_ 00152_

Book I.D. # _10-0406-057_

Analysis: ASTM-C1733

Project #: 16526.05.006

Method (circle) Digestion / Distillation / Extraction / Bomb

Task Order#: 110901-7

Client: Fluor B&W Portsmouth

TAP#: N/A

Balance ID: 88

Pipette ID: 5000- — 1000- — 200- —

Digestion Apparatus: N/A

Temperature: N/A

LCS ID: N/A

LCS TV = N/A

Notes / Prep:

10/7/11

	Sample ID	Sample Wt (g) Sample Vol (ml)	Final Volume (ml)			
D7	474340	8.0703	200ml			
D7	474340D	8.0406				
D10	474340	8.0153				
D10	474340D	8.0011				
D14	474340	8.0472				
D14	474340D	8.0795				
D21	474340	8.0630				
D21	474340D	8.0271				
DX	474340	8.0376				
DX	474340D	8.0478				

JM 09/21/11

Analyst Signature: James Mohan

Date: 09/21/11

Reviewed by: R Jones

Date: 10/13/11

010033

Southwest Research Institute

Electronic Bench Sheet

% Solids

09/14/11

Project #: 16526.05.006
Client: Fluor - B&W Portsmouth LLC
Method: %solid
TO# 110825-10, 110830-12, 110831-5

Date: 09/01/11
Analyst: James Moken JAM

Seq #	Sample ID	A Tare Wt(g)	B Wet Sample + Tare Wt(g)	(B - A) Wet Sample Wt(g)	C Dried Sample + Tare Wt(g)	(C - A) Dried Sample Wt(g)	% Solids	RPD
1	PB	0.9611	0.9611	0.0000	0.9610	-0.0001	<0.05	
2	473754	0.9623	6.8311	5.8688	5.3388	4.3765	74.57	
3	473754D	0.9598	6.7724	5.8126	5.2845	4.3247	74.40	0.228%
4	473755	0.9601	6.8940	5.9339	5.1459	4.1858	70.54	
5	473756	0.9654	6.7588	5.7934	5.9091	4.9437	85.33	
6	473757	0.9629	6.8881	5.9252	5.7378	4.7749	80.59	
7	473758	0.9630	6.5646	5.6016	5.5092	4.5462	81.16	
8	473768	0.9612	6.9096	5.9484	5.8694	4.9082	82.51	
9	473769	0.9613	6.4828	5.5215	5.3054	4.3441	78.68	
10	473770	0.9589	6.3777	5.4188	5.6575	4.6986	86.71	
11	473771	0.9557	6.6900	5.7343	5.8116	4.8559	84.68	
12	PB2	0.9571	0.9571	0.0000	0.9571	0.0000	<0.05	
13	473772	0.9575	6.8693	5.9118	6.0142	5.0567	85.54	
14	473778	0.9633	6.6260	5.6627	5.6551	4.6918	82.85	
15	474212	0.9640	6.8165	5.8525	6.2547	5.2907	90.40	
16	474212D	0.9590	6.9142	5.9552	6.3621	5.4031	90.73	0.363%
17	474213	1.0153	6.7501	5.7348	6.0538	5.0385	87.86	
18	474214	1.0146	6.6879	5.6733	6.0996	5.0850	89.63	
19	474221	1.0068	6.5495	5.5427	5.4183	4.4115	79.59	
20	474222	1.0063	6.6579	5.6516	5.5944	4.5881	81.18	
21	474300	0.9971	6.3794	5.3823	5.7209	4.7238	87.77	
22	474301	0.9599	6.3362	5.3763	5.5632	4.6033	85.62	
23	PB3	1.0439	1.0439	0.0000	1.0437	-0.0002	<0.05	
24	474302	1.0182	6.7701	5.7519	5.9726	4.9544	86.14	

% Solids = Dried Sample Wt(g)*100 / Wet Sample Wt(g)

Sample Calculation : 473754

$$\frac{4.3765\,g}{5.8688\,g} \times 100 = 74.57\%$$

Southwest Research Institute®
Logbook: Physical Testing

Analysis / Method: % Solid
Project# 16526.05.006
Client: Fluor B&W Portsmouth
TO# 110825-10, 110830-12, 110831-5

LCS Info: N/A TV= N/A Balance#: 88

Notes: in oven #31 12:00 9/1/11
out oven #31 7:00 9/2/11

Sample ID	tare wt (g)	tare + samp (g)	dried + tare (g)		
PB	0.9611	0.9611	0.9610		
473754	0.9623	6.8311	5.3388		
473754D	0.9598	6.7724	5.2845		
473755	0.9601	6.8940	5.1459		
473756	0.9654	6.7588	5.9091		
473757	0.9629	6.8881	5.7378		
473758	0.9630	6.5646	5.5092		
473768	0.9612	6.9096	5.8694		
473769	0.96~~28~~13*	6.4828	5.3054		
473770	0.9589	6.3777	5.6575		
473771	0.9557	6.6900	5.8116		
PB2	0.9571	0.9571	0.9571		
473772	0.9575	6.8693	6.0142		
473778	0.9633	6.6260	5.6551		
474212	0.9640	6.8165	6.2547		
474212D	0.9590	6.9142	6.3621		
474213	1.0153	6.7501	6.0538		
474214	1.0146	6.6879	6.0996		
474221	1.0068	6.5495	5.4183		

JAM 9/1/11

Calculation: *TE JAM 9/1/11

Analyst Signature: James Mohen Date: 9/1/11

Reviewed by: Herrera Date: 09/14/11

Logbook #/Page # 10 153

Southwest Research Institute®
Logbook: Physical Testing

Analysis / Method: % Solid

Project# 16526.05.006

Client: Fluor B&W Portsmouth

TO# 11825-10, 110830-12
110831-5

LCS Info: N/A TV= N/A Balance#: 88

Notes: in oven #31 12:00 9/1/11
out oven #31 7:00 9/2/11

Sample ID	tare wt (g)	samp + tare (g)	dried + tare (g)		
474222	1.0063	6.6579	5.5944		
474300	0.9971	6.3794	5.7209		
474301	0.9599	6.3362	5.5632		
PB3	1.0439	1.0439	1.0437		
474302	1.0182	6.7701	5.9726		

JAM 9/2/11

Calculation:

Analyst Signature: James Mohen Date: 9/1/11

Reviewed by: Judy Alenora Date: 09/14/11

Logbook #/ Page # 10 154

FRM-294 (Rev 1/Apr 03)

010036

Judy Herrera 10/31/11

Southwest Research Institute

Electronic Bench Sheet

% Solids

Judy Herrera 09/14/11

Project #: 16526.05.006
Client: Fluor - B&W Portsmouth LLC
Method: %solid
TO# 110902-3, 110901-7, ~~110818-4~~ 110915-9
(C) 10/27/11 mn

Date: 09/12/11
Analyst: James Moken JM

Seq #	Sample ID	A Tare Wt(g)	B Wet Sample + Tare Wt(g)	(B - A) Wet Sample Wt(g)	C Dried Sample + Tare Wt(g)	(C - A) Dried Sample Wt(g)	% Solids	RPD
1	PB	0.9699	0.9699	0.0000	0.9698	-0.0001	<0.05	
2	473045	0.9804	4.8778	3.8974	4.3486	3.3682	86.42	
3	474401	0.9825	4.0451	3.0626	3.8466	2.8641	93.52	
4	474401D	0.9804	4.0037	3.0233	3.7929	2.8125	93.03	0.527%
5	474402	0.9559	3.7876	2.8317	3.4167	2.4608	86.90	
6	474341	1.0125	3.6139	2.6014	3.4489	2.4364	93.66	
7	474344	1.0169	3.6565	2.6396	3.4128	2.3959	90.77	
8	474340	0.9864	3.6943	2.7079	3.3926	2.4062	88.86	

% Solids = Dried Sample Wt(g)*100 / Wet Sample Wt(g)

Sample Calculation : 473045

$$\frac{3.3682g}{3.8974g} \times 100 = 86.42\ \%$$

Southwest Research Institute®
Logbook: Physical Testing

Analysis / Method: % Solid

Project# 16526.05.006

Client: Fluor B&W Portsmouth

TO# 110902-3 110901-7
11052-4 110915-9
@ 10/21/11 mm

LCS Info: N/A **TV=** N/A **Balance#:** 12

Notes: in oven #31 14:15 9/12/11
out oven #31 8:15 9/13/11

Sample ID	tare wt. (g)	samp + tare (g)	dried + tare (g)		
PB	0.9699	0.9699	0.9698		
473045	0.9804	4.8778	4.3486		
474401	0.9825	4.0451	3.8466		
474401D	0.9804	4.0037	3.7929		
474402	0.9559	3.7876	3.4167		
474341	1.0125	3.6139	3.4489		
474344	1.0169	3.6565	3.4128		
474340	0.9864	3.6943	3.3926		

JAH 09/13/11

Calculation:

Analyst Signature: James Maher **Date:** 9/12/11

Reviewed by: Jay Herrera **Date:** 09/13/11

Logbook #/ Page # 10 156

FRM-294 (Rev 1/Apr 03)

Tc99 Data for Distribution Coefficient

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet
Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-222
Prep Date: 17-Oct-11

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

WAN ✓

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer	
							%Rec	% error
PBWK17JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK17JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK17JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-0	0.10	50.0	0.00200	25.0	0.050	20.00		
Blank-7	0.10	50.0	0.00200	50.0	0.100	10.00		
474212	0.10	50.0	0.00200	50.0	0.100	10.00		
474212D	0.10	50.0	0.00200	50.0	0.100	10.00		
474213	0.10	50.0	0.00200	50.0	0.100	10.00		
474213D	0.10	50.0	0.00200	50.0	0.100	10.00		
474214	0.10	50.0	0.00200	50.0	0.100	10.00		
474214D	0.10	50.0	0.00200	50.0	0.100	10.00		
474221	0.10	50.0	0.00200	50.0	0.100	10.00		
474221D	0.10	50.0	0.00200	50.0	0.100	10.00		
474222	0.10	50.0	0.00200	50.0	0.100	10.00		
474222D	0.10	50.0	0.00200	50.0	0.100	10.00		
474300	0.10	50.0	0.00200	50.0	0.100	10.00		
474300D	0.10	50.0	0.00200	50.0	0.100	10.00		
474301	0.10	50.0	0.00200	50.0	0.100	10.00		
474301D	0.10	50.0	0.00200	50.0	0.100	10.00		
474302	0.10	50.0	0.00200	50.0	0.100	10.00		
474302D	0.10	50.0	0.00200	50.0	0.100	10.00		
474340	0.10	50.0	0.00200	50.0	0.100	10.00		
474340D	0.10	50.0	0.00200	50.0	0.100	10.00		
474341	0.10	50.0	0.00200	50.0	0.100	10.00		
474341D	0.10	50.0	0.00200	50.0	0.100	10.00		
474344	0.10	50.0	0.00200	50.0	0.100	10.00		
474344D	0.10	50.0	0.00200	50.0	0.100	10.00		
474401	0.10	50.0	0.00200	50.0	0.100	10.00		
474401D	0.10	50.0	0.00200	50.0	0.100	10.00		
474402	0.10	50.0	0.00200	50.0	0.100	10.00		
474402D	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-222
Prep Date: 17-Oct-11

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

Liquid Scintilliation Results

Lab Id	Analyte	Matrix	Time (m)	tSIE	Raw cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	338.67	15.41	8.32	15.66	98.40	
BKG-2	Tc-99	Water	60	317.87	15.30	8.27	15.69	97.52	
				AVG BKG	15.36	AVG BKG	15.67		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWK17JV1	Tc-99	Water	60	357.00	14.98	8.42	-0.38	98.79		-1.71E+00	3.24E+00	1.10E+01	3.24E+00		PB < 1.65*TPU	
LCSWK17JV1	Tc-99	Water	60	352.80	1108.33	0.78	1107.37	98.70		4.99E+03	2.88E+02	1.10E+01	1.98E+01	5000	99.8%	-0.002
LCSWK17JV2	Tc-99	Water	60	338.32	1104.22	0.78	1106.80	98.38		4.99E+03	2.88E+02	1.10E+01	1.98E+01	5000	99.7%	-0.003
Blank-0	Tc-99	Water	60	357.20	101.17	2.68	86.87	98.79		7.83E+02	4.69E+01	2.19E+01	1.27E+01			
Blank-7	Tc-99	Water	60	337.64	182.36	1.96	169.81	98.35		7.65E+02	4.49E+01	1.10E+01	8.31E+00			
474212	Tc-99	Water	60	338.81	163.11	2.07	150.16	98.40		6.76E+02	3.98E+01	1.10E+01	7.90E+00	RPD	Dup Evaluation	
474212D	Tc-99	Water	60	362.83	163.88	2.07	150.16	98.91		6.76E+02	3.98E+01	1.09E+01	7.87E+00	0.00	0.00	Pass
474213	Tc-99	Water	60	358.92	166.07	2.06	152.50	98.83		6.87E+02	4.04E+01	1.09E+01	7.93E+00	RPD	Dup Evaluation	
474213D	Tc-99	Water	60	347.45	160.35	2.09	147.07	98.59		6.62E+02	3.90E+01	1.10E+01	7.82E+00	3.63	0.44	Pass
474214	Tc-99	Water	60	365.65	158.99	2.10	145.13	98.97		6.54E+02	3.85E+01	1.09E+01	7.76E+00	RPD	Dup Evaluation	
474214D	Tc-99	Water	60	366.74	159.65	2.10	145.77	98.99		6.57E+02	3.87E+01	1.09E+01	7.77E+00	0.44	0.05	Pass
474221	Tc-99	Water	60	331.94	159.96	2.10	147.39	98.11		6.64E+02	3.91E+01	1.10E+01	7.85E+00	RPD	Dup Evaluation	
474221D	Tc-99	Water	60	343.14	164.78	2.06	151.69	98.51		6.83E+02	4.02E+01	1.10E+01	7.92E+00	2.87	0.35	Pass
474222	Tc-99	Water	60	323.31	165.19	2.06	153.28	97.75		6.90E+02	4.06E+01	1.11E+01	7.99E+00	RPD	Dup Evaluation	
474222D	Tc-99	Water	60	345.44	167.55	2.05	154.43	98.55		6.96E+02	4.09E+01	1.10E+01	7.98E+00	0.75	0.09	Pass
474300	Tc-99	Water	60	353.27	161.05	2.09	147.60	98.71		6.65E+02	3.91E+01	1.10E+01	7.82E+00	RPD	Dup Evaluation	
474300D	Tc-99	Water	60	314.53	159.48	2.10	148.00	97.38		6.67E+02	3.92E+01	1.11E+01	7.90E+00	0.27	0.03	Pass
474301	Tc-99	Water	60	349.56	159.76	2.10	146.40	98.64		6.59E+02	3.88E+01	1.10E+01	7.80E+00	RPD	Dup Evaluation	
474301D	Tc-99	Water	60	349.98	161.66	2.09	148.31	98.65		6.68E+02	3.93E+01	1.10E+01	7.84E+00	1.30	0.16	Pass
474302	Tc-99	Water	60	351.00	159.33	2.10	145.92	98.67		6.57E+02	3.87E+01	1.10E+01	7.79E+00	RPD	Dup Evaluation	
474302D	Tc-99	Water	60	357.61	160.17	2.10	146.57	98.80		6.60E+02	3.89E+01	1.10E+01	7.80E+00	0.45	0.05	Pass
474340	Tc-99	Water	60	333.51	153.85	2.14	141.06	98.18		6.35E+02	3.74E+01	1.10E+01	7.70E+00	RPD	Dup Evaluation	
474340D	Tc-99	Water	60	332.01	155.29	2.13	142.62	98.12		6.42E+02	3.78E+01	1.10E+01	7.74E+00	1.10	0.13	Pass
474341	Tc-99	Water	60	349.48	162.00	2.08	148.67	98.64		6.70E+02	3.94E+01	1.10E+01	7.85E+00	RPD	Dup Evaluation	
474341D	Tc-99	Water	60	365.41	163.08	2.08	149.28	98.96		6.72E+02	3.96E+01	1.09E+01	7.85E+00	0.41	0.05	Pass
474344	Tc-99	Water	60	358.76	163.84	2.07	150.24	98.83		6.77E+02	3.98E+01	1.09E+01	7.88E+00	RPD	Dup Evaluation	
474344D	Tc-99	Water	60	341.54	162.45	2.08	149.38	98.47		6.73E+02	3.96E+01	1.10E+01	7.87E+00	0.58	0.07	Pass
474401	Tc-99	Water	60	341.16	157.77	2.11	144.64	98.46		6.52E+02	3.84E+01	1.10E+01	7.77E+00	RPD	Dup Evaluation	
474401D	Tc-99	Water	60	347.82	161.10	2.09	147.81	98.60		6.66E+02	3.92E+01	1.10E+01	7.83E+00	2.17	0.26	Pass
474402	Tc-99	Water	60	370.26	163.73	2.07	149.89	98.99		6.75E+02	3.97E+01	1.09E+01	7.86E+00	RPD	Dup Evaluation	
474402D	Tc-99	Water	60	361.74	162.95	2.08	149.25	98.89		6.72E+02	3.96E+01	1.09E+01	7.85E+00	0.43	0.05	Pass

Notes: Day #7 results.

Southwest Research Institute, Division 1, Radiochemistry
LSC Bench Sheet
Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-222
Prep Date: 17-Oct-11

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

Sample Calculations
dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

TPU Factors	%
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	5.77%

Assay Definition

```
Assay Description:

Assay Type: DPM (Single)
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111021_1202\Replay_20111024_092933
Raw Results Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111021_1202\20111021_1202.results
Assay File Name: C:\Packard\TriCarb\Assays\99tc_dpm.lsa
```

Count Conditions

```
Nuclide: 99tc
   Quench Indicator: tSIE/AEC
   External Std Terminator (sec): 10 sec
   Pre-Count Delay (min): 0.00
Quench Set:
   Low Energy: 99Tc
Count Time (min): 60.00
Count Mode: Normal
Assay Count Cycles: 1         Repeat Sample Count: 1
#Vials/Sample: 1              Calculate % Reference: Off
```

Fluor B&W Portsmouth
16526.05.00X
TD# 110830-12, 110831-5, 110901-7, 110902-3
12-222, 12-223
WAN

Background Subtract

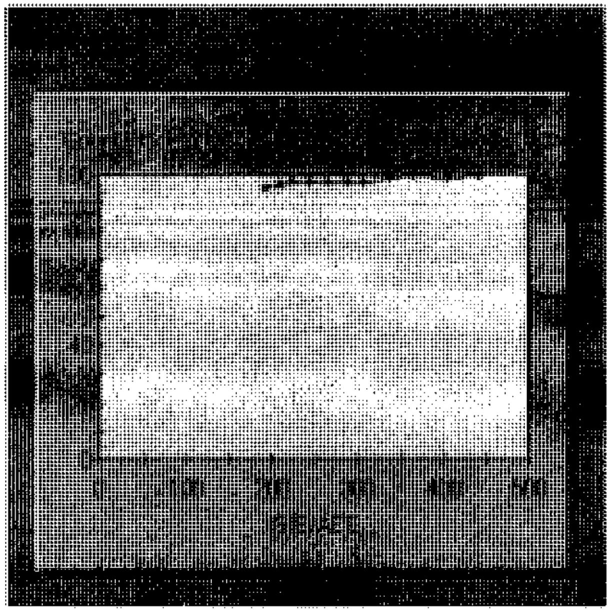
```
Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions          LL       UL
A               0.0    292.0
B               0.0    292.0
C               0.0   2000.0
```

Count Corrections

```
Static Controller: On          Luminescence Correction: On
Colored Samples: On            Heterogeneity Monitor: Off
Coincidence Time (nsec): 18    Delay Before Burst (nsec): 75
```

Instrument Block Data

```
MODEL=Tri-Carb 3180TR/SL
VERSION=2.12
SERIAL=084368


IPA Block Data

Software Version IC: 2.12
Software Version EC: 3.00
Instrument Model: Tri-Carb 3180TR/SL
Instrument Serial Number: 084368
3H Chi Square: 14.18    Date Processed: 10/21/2011 12:01:24 PM
14C Chi Square: 13.00   Date Processed: 10/21/2011 12:01:24 PM
3H E^2/B (1-18.6 keV): 1526.90  Date Processed: 10/21/2011 12:01:24 PM
14C E^2/B (4-156 keV): 5527.44   Date Processed: 10/21/2011 12:01:24 PM
3H Efficiency (1-18.6 keV): 64.55  Date Processed: 10/21/2011 12:01:24 PM
14C Efficiency (4-156 keV): 92.56  Date Processed: 10/21/2011 12:01:24 PM
IPA Background Date Processed: 10/21/2011 12:01:24 PM
3H Background CPM (1-18.6 keV): 2.73  Date Processed: 10/21/2011 12:01:24 PM
14C Background CPM (4-156 keV): 1.55  Date Processed: 10/21/2011 12:01:24 PM
3H Calibration DPM: 281700
3H Reference Date: 6/27/2008
14C Calibration DPM: 123000


Cycle 1 Results
Quench Curve Block Data
```

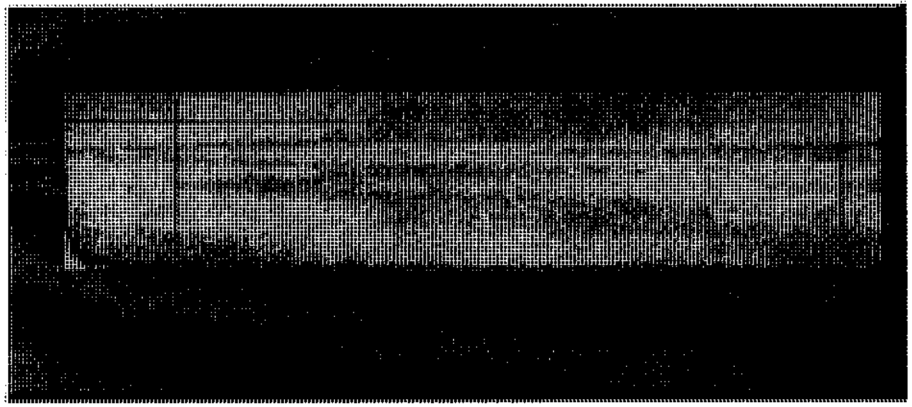


Date Acquired: 02/15/2011
Date Modified:
99Tc in A

tSIE/AEC	Count Efficiency (%)
443.42	99.12
406.31	98.84
367.18	99.00
339.52	98.43
310.34	97.21
291.55	97.35
267.03	97.31
246.83	97.51
224.44	96.91
211.47	96.41
195.92	95.37

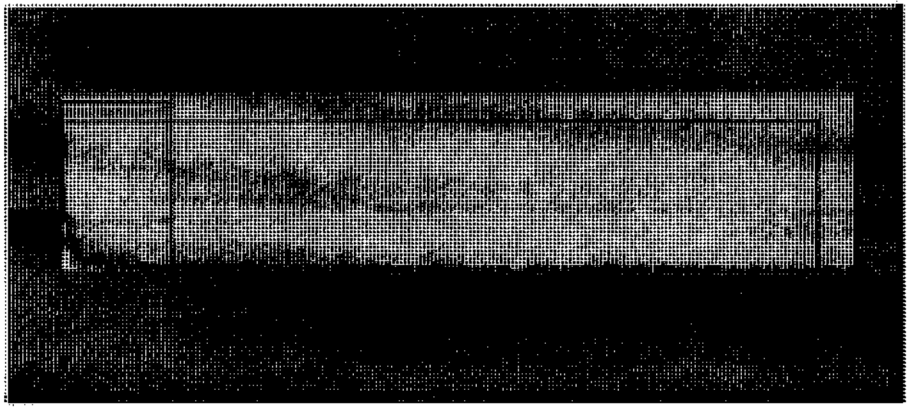
```
  S#  P#  PID  Count Time          SMPL_ID        CPMA     DPM1        SIS      tSIE  MESSAGES  A:2S%    ELTIME   LUM
DATE           TIME  Eff Nucl In A
   1   5   1        60.00           Bkg-1         15.41       16     449.24    338.67             8.32   0:00:02   16
10/21/2011  12:03:43 PM          98.40
```

SpectraView Block Data



```
  2   5    1        60.00             Bkg-2       15.30       16   470.50   317.87                 8.27   0:00:03   15
10/21/2011   1:05:14 PM          97.52
```

SpectraView Block Data



```
Missing vial 3.
  4   5    1        60.00        PBWK17JV1        14.98       15   476.34   357.00                 8.42   0:00:04   16
10/21/2011   2:06:44 PM          98.79
```

20111021_1202.results

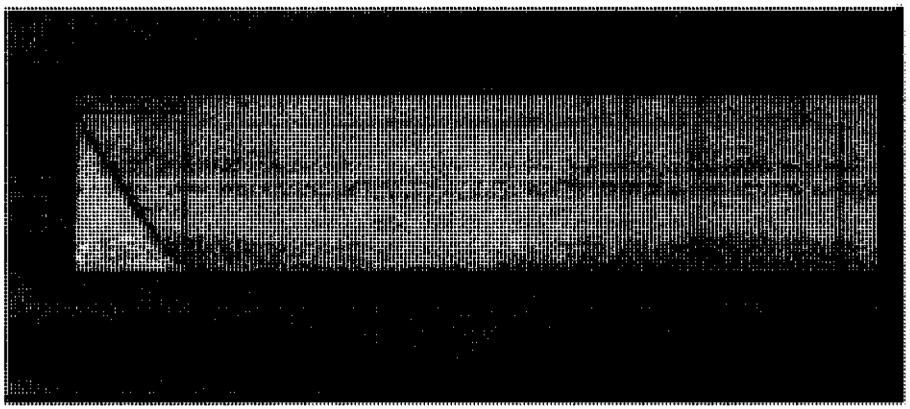
SpectraView Block Data

```
   5   5    1        60.00        LCSWK17JV1      1108.33     1123    134.26    352.80                0.78    0:00:06     0
10/21/2011   3:08:14 PM            98.70
```

SpectraView Block Data

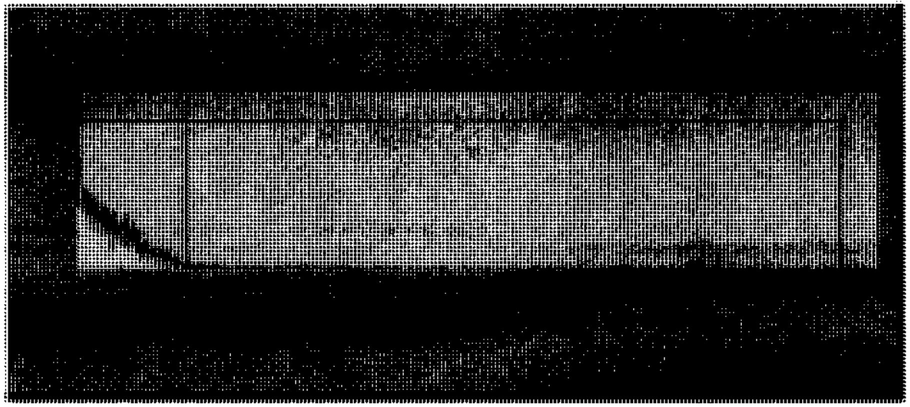
```
   6   5    1        60.00        LCSWK17JV2      1104.22     1122    133.43    338.32                0.78    0:00:07     0
10/21/2011   4:09:54 PM            98.38
```

SpectraView Block Data



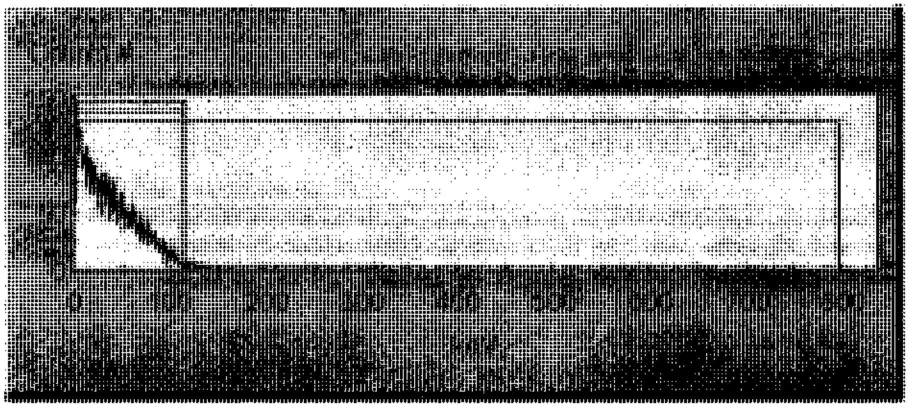
```
   7   5    1        60.00       Blank Day 0       101.17      102   219.65    357.20                 2.68   0:00:08    4
10/21/2011   5:11:27 PM            98.79
```

SpectraView Block Data



```
   8   5    1        60.00       Blank Day 7       182.36      185   176.77    337.64                 1.96   0:00:09    2
10/21/2011   6:12:57 PM            98.35
```

SpectraView Block Data

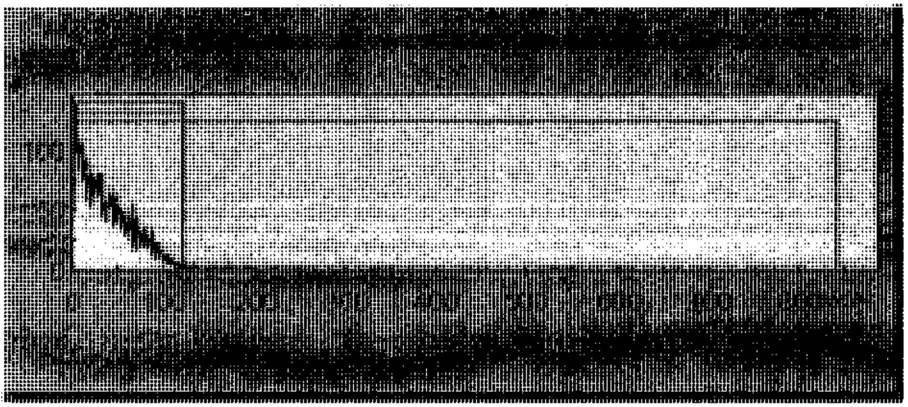


```
  9   5    1        60.00          474212-7       163.11       166   185.05    338.81                2.07   0:00:10     2
10/21/2011   7:14:27 PM               98.40
```

SpectraView Block Data

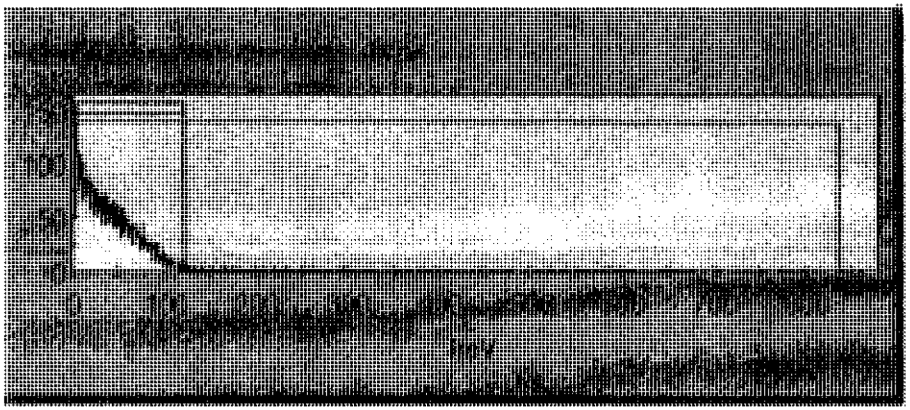
```
 10   5    1        60.00         474212D-7       163.88       166   178.45    362.83                2.07   0:00:12     3
10/21/2011   8:15:58 PM               98.91
```

SpectraView Block Data



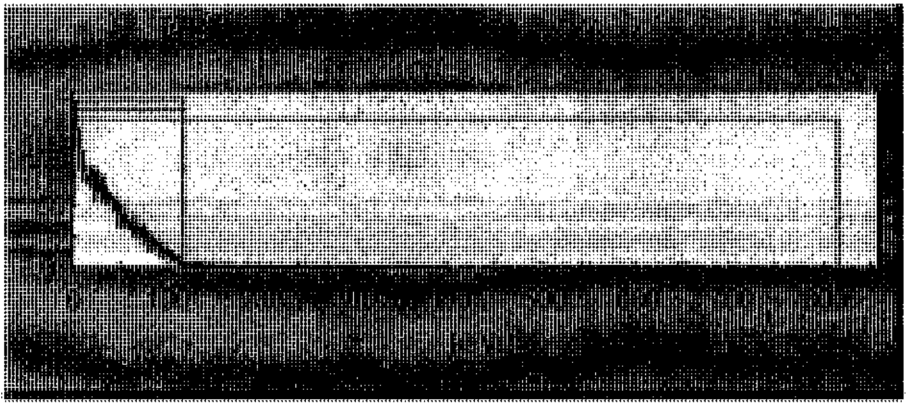
```
  11    5    1        60.00          474213-7        166.07      168    184.33    358.92                2.06    0:00:13     3
10/21/2011   9:17:29 PM             98.83
```

SpectraView Block Data



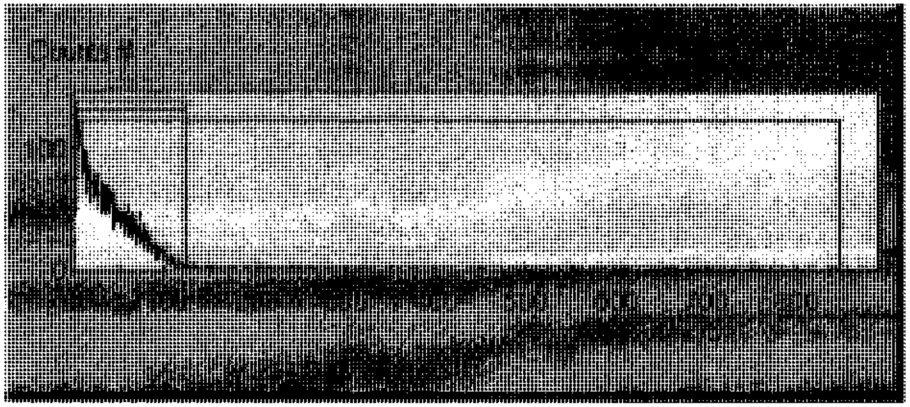
```
  12    5    1        60.00        474213D-7        160.35      163    180.42    347.45                2.09    0:00:14     2
10/21/2011  10:19:00 PM             98.59
```

SpectraView Block Data



```
  13    5     2         60.00          474214-7       158.99      161    181.51    365.65                  2.10    0:00:15     3
10/21/2011  11:20:36 PM              98.97
```

SpectraView Block Data



```
  14    5     2         60.00         474214D-7       159.65      161    179.08    366.74                  2.10    0:00:16     3
10/22/2011  12:22:07 AM              98.99
```

SpectraView Block Data

```
  15   5    2        60.00         474221-7       159.96      163   176.94    331.94                2.10   0:00:17    3
10/22/2011   1:23:37 AM           98.11
```

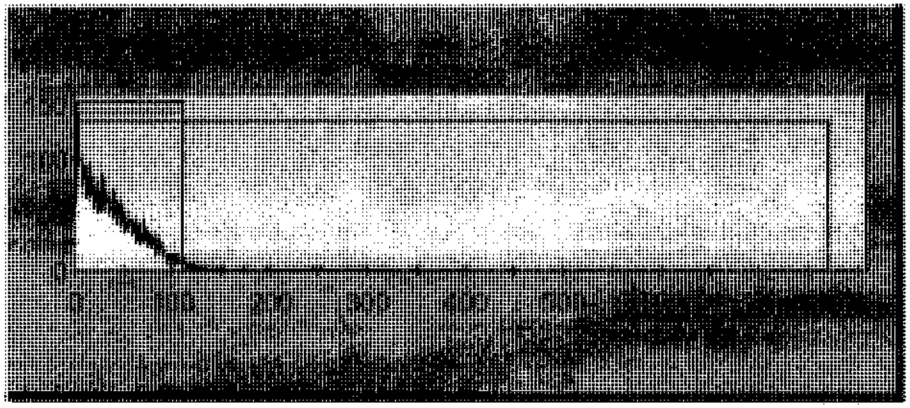
SpectraView Block Data

```
  16   5    2        60.00        474221D-7       164.78      167   180.11    343.14                2.06   0:00:18    2
10/22/2011   2:25:08 AM           98.51
```

SpectraView Block Data

```
  17   5    2        60.00         474222-7       165.19      169   174.15   323.31                 2.06   0:00:20    3
10/22/2011   3:26:40 AM           97.75
```

SpectraView Block Data



```
  18   5    2        60.00        474222D-7       167.55      170   174.93   345.44                 2.05   0:00:21    2
10/22/2011   4:28:11 AM           98.55
```

SpectraView Block Data

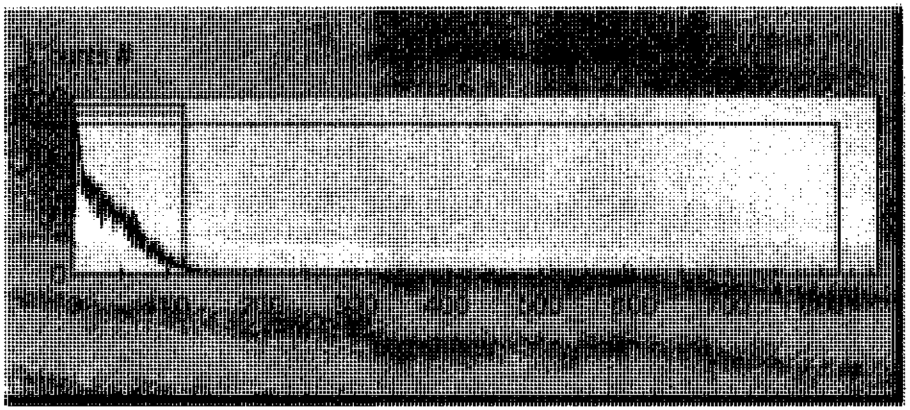
20111021_1202.results

```
  19   5    2       60.00         474300-7      161.05     163   177.48   353.27            2.09   0:00:22    3
10/22/2011   5:29:41 AM           98.71

SpectraView Block Data
```

```
  20   5    2       60.00        474300D-7      159.48     164   167.40   314.53            2.10   0:00:23    3
10/22/2011   6:31:13 AM           97.38

SpectraView Block Data
```

```
  21   5    2        60.00         474301-7       159.76      162    189.06    349.56                2.10    0:00:24     3
10/22/2011   7:32:44 AM          98.64
```

SpectraView Block Data



```
  22   5    2        60.00        474301D-7       161.66      164    188.39    349.98                2.09    0:00:25     3
10/22/2011   8:34:16 AM          98.65
```

SpectraView Block Data

20111021_1202.results

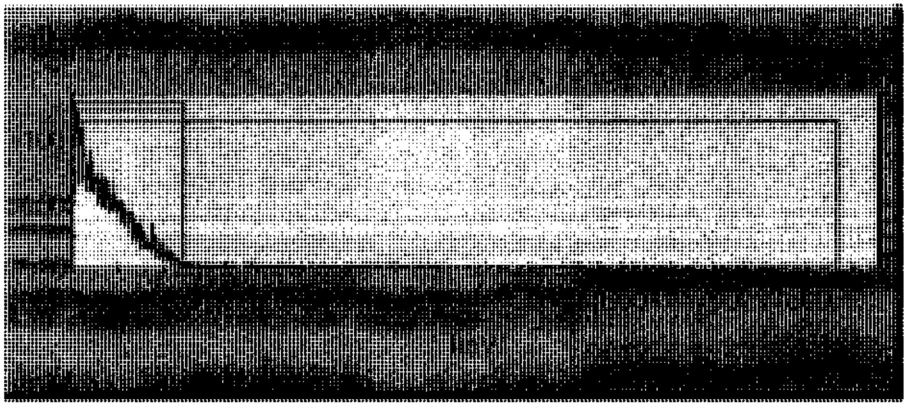
```
  23   5    2        60.00          474302-7       159.33      161    180.65    351.00                 2.10    0:00:26     3
10/22/2011   9:35:47 AM            98.67
```

SpectraView Block Data

```
  24   5    2        60.00          474302D-7      160.17      162    181.44    357.61                 2.10    0:00:28     3
10/22/2011  10:37:18 AM            98.80
```

SpectraView Block Data

010055



```
  25   5    6        60.00         474340-7      153.85      157   178.13   333.51                 2.14   0:00:29    3
10/22/2011  11:38:54 AM           98.18
```

SpectraView Block Data

```
  26   5    6        60.00        474340D-7      155.29      158   177.72   332.01                 2.13   0:00:30    3
10/22/2011  12:40:25 PM           98.12
```

SpectraView Block Data

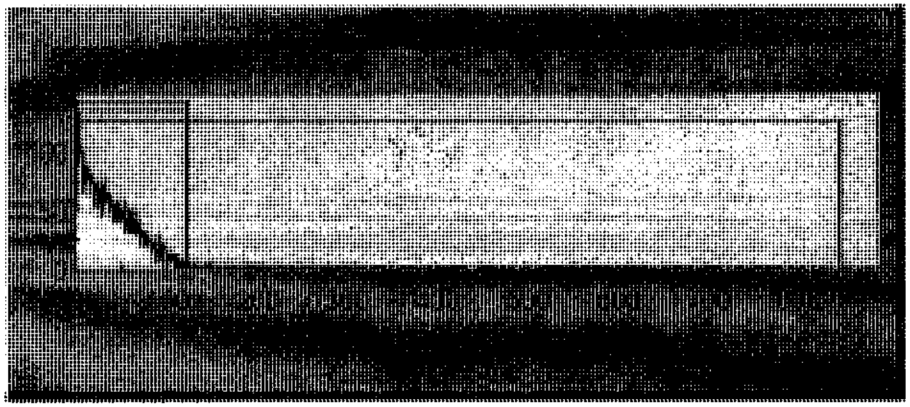
20111021_1202.results

```
  27   5    6        60.00          474341-7       162.00      164   186.74   349.48               2.08   0:00:31    3
10/22/2011   1:41:56 PM            98.64
```

SpectraView Block Data

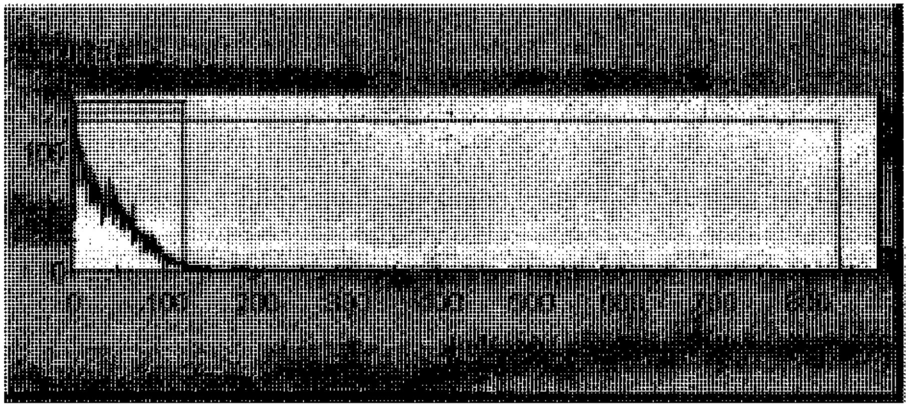
```
  28   5    6        60.00          474341D-7      163.08      165   185.52   365.41               2.08   0:00:32    3
10/22/2011   2:43:28 PM            98.96
```

SpectraView Block Data



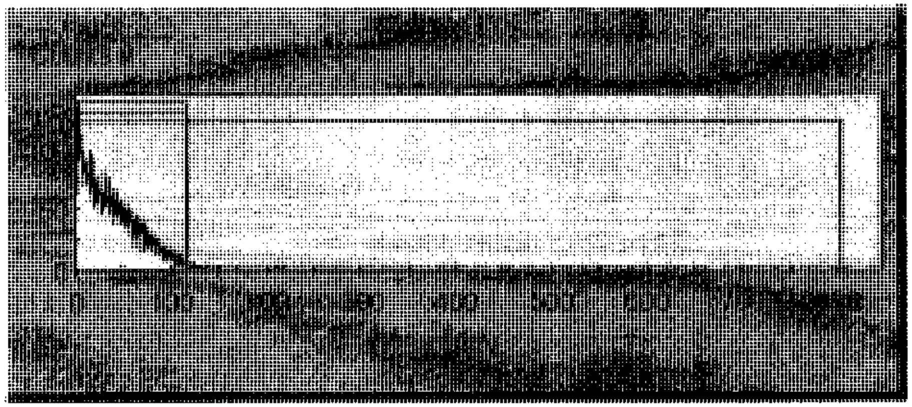
```
  29   5    6        60.00        474344-7      163.84     166   182.68   358.76              2.07   0:00:33    2
10/22/2011   3:44:59 PM          98.83
```

SpectraView Block Data



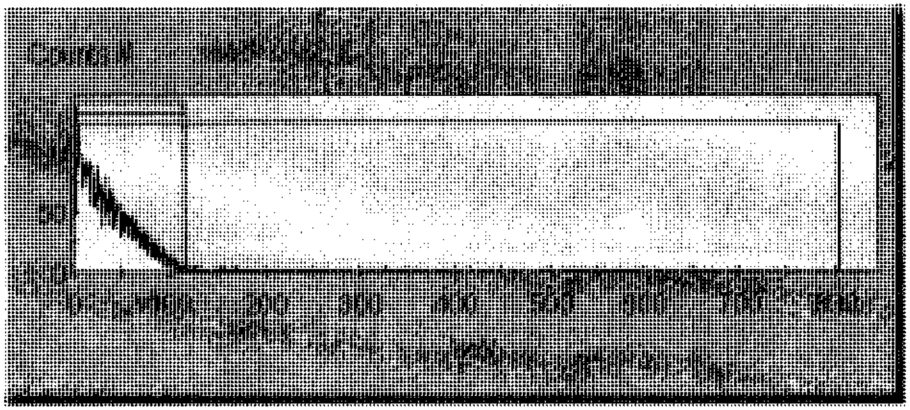
```
  30   5    6        60.00       474344D-7      162.45     165   175.15   341.54              2.08   0:00:34    3
10/22/2011   4:46:28 PM          98.47
```

SpectraView Block Data



```
  31   5    6        60.00         474401-7       157.77      160   173.06   341.16              2.11   0:00:35    3
10/22/2011   5:47:59 PM          98.46
```

SpectraView Block Data



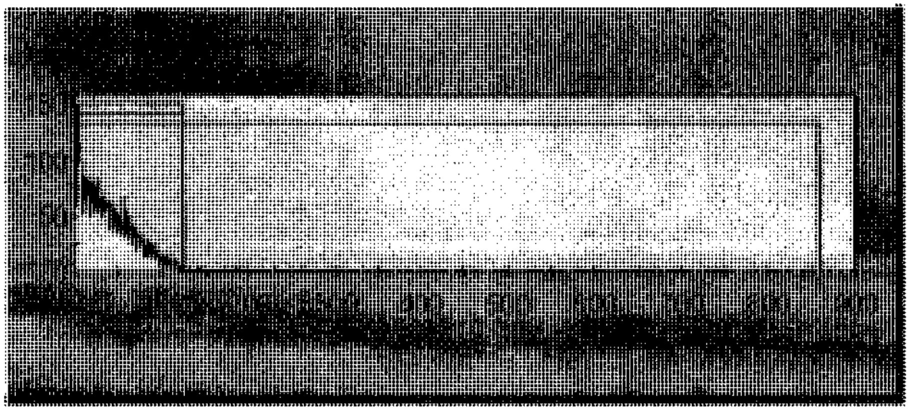
```
  32   5    6        60.00         47401D-7       161.10      163   176.55   347.82              2.09   0:00:36    3
10/22/2011   6:49:29 PM          98.60
```

SpectraView Block Data

20111021_1202.results

```
  33   5    6        60.00          47402-7       163.73      165   189.78   370.26               2.07   0:00:38     3
10/22/2011   7:51:00 PM             98.99
```

SpectraView Block Data



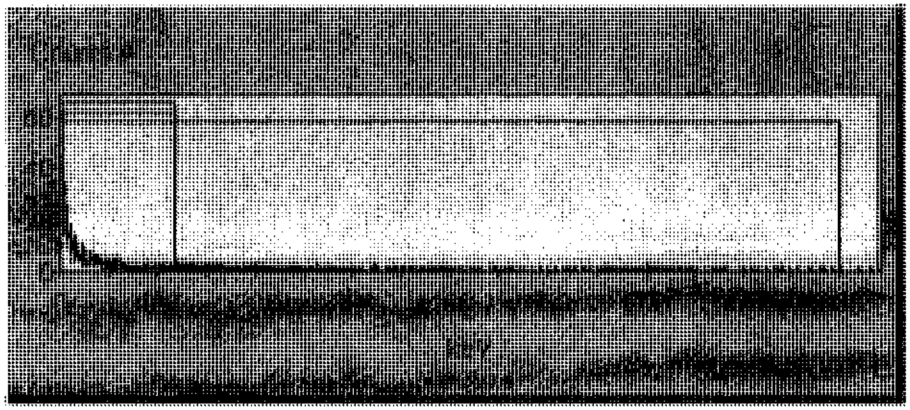
```
  34   5    6        60.00         47402D-7       162.95      165   177.94   361.74               2.08   0:00:39     2
10/22/2011   8:52:30 PM             98.89
```

SpectraView Block Data

20111021_1202.results

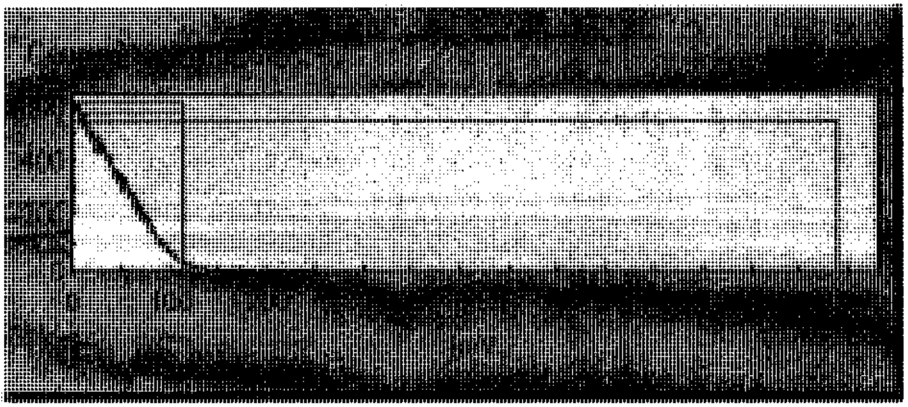
```
  35   5    6        60.00         PBWK18JV1        14.38       15   450.57    338.64               8.66   0:00:40    17
10/22/2011   9:54:02 PM            98.39
```

SpectraView Block Data



```
  36   5    6        60.00        LCSWK18JV1      1099.23     1120   132.30    333.37               0.78   0:00:41     0
10/22/2011  10:55:32 PM             98.17
```

SpectraView Block Data



```
  37   5   14        60.00       LCSWK18JV2     1116.67     1135   134.37    337.83              0.78   0:00:42     0
10/22/2011  11:57:10 PM           98.36

SpectraView Block Data
```

```
  38   5   14        60.00      Blank Day-10     178.25      181   175.36    353.33              1.98   0:00:43     2
10/23/2011  12:58:47 AM           98.71
  39   5   14        60.00        474212-10      161.13      163   181.26    346.30              2.09   0:00:43     3
10/23/2011   2:00:16 AM           98.57
  40   5   14        60.00       474212D-10      160.46      163   186.45    342.10              2.09   0:00:44     3
10/23/2011   3:01:47 AM           98.48
```

```
  41   5   14        60.00        472213-10       167.49     170    178.43    350.33           2.05    0:00:44    2
 10/23/2011   4:03:17 AM          98.65
  42   5   14        60.00       474213D-10       159.94     163    179.48    337.68           2.10    0:00:44    3
 10/23/2011   5:04:47 AM          98.35
  43   5   14        60.00        474214-10       161.42     164    188.93    341.24           2.09    0:00:44    3
 10/23/2011   6:06:17 AM          98.47
  44   5   14        60.00       474214D-10       157.97     161    184.84    334.24           2.11    0:00:44    3
 10/23/2011   7:07:45 AM          98.21
  45   5   14        60.00        474221-10       159.91     162    168.90    345.54           2.10    0:00:45    3
 10/23/2011   8:09:14 AM          98.55
  46   5   14        60.00       474221D-10       161.71     165    179.83    329.58           2.09    0:00:45    3
 10/23/2011   9:10:43 AM          98.01
  47   5   14        60.00        474222-10       160.55     163    181.23    351.56           2.09    0:00:45    3
 10/23/2011  10:12:12 AM          98.68
  48   5   14        60.00       474222D-10       158.01     162    177.00    317.87           2.11    0:00:45    3
 10/23/2011  11:13:43 AM          97.52
  49   5   19        60.00        474300-10       158.53     162    184.43    332.98           2.11    0:00:45    3
 10/23/2011  12:15:19 PM          98.16
  50   5   19        60.00       474300D-10       158.65     161    180.30    339.93           2.11    0:00:46    3
 10/23/2011   1:16:48 PM          98.44
  51   5   19        60.00        474301-10       162.84     165    183.34    357.10           2.08    0:00:46    3
 10/23/2011   2:18:18 PM          98.79
  52   5   19        60.00       474301D-10       158.85     163    173.83    301.18           2.10    0:00:46    3
 10/23/2011   3:19:49 PM          97.28
  53   5   19        60.00        474302-10       157.57     160    187.32    345.91           2.12    0:00:46    3
 10/23/2011   4:21:18 PM          98.56
  54   5   19        60.00       474302D-10       159.70     162    181.62    344.59           2.10    0:00:47    3
 10/23/2011   5:22:47 PM          98.53
  55   5   19        60.00        474340-10       156.84     159    177.76    340.06           2.12    0:00:47    3
 10/23/2011   6:24:17 PM          98.44
  56   5   19        60.00       474340D-10       154.38     157    186.89    334.09           2.14    0:00:47    3
 10/23/2011   7:25:47 PM          98.20
  57   5   19        60.00        474341-10       166.96     169    181.99    350.98           2.05    0:00:47    3
 10/23/2011   8:27:17 PM          98.67
  58   5   19        60.00       474341D-10       159.88     163    180.17    336.45           2.10    0:00:47    3
 10/23/2011   9:28:47 PM          98.30
  59   5   19        60.00        474344-10       161.63     164    182.87    354.63           2.09    0:00:48    3
 10/23/2011  10:30:15 PM          98.74
  60   5   19        60.00       474344D-10       163.27     165    184.48    360.81           2.08    0:00:48    3
 10/23/2011  11:31:45 PM          98.87
  61   5    7        60.00        474401-10       159.98     162    176.37    344.73           2.10    0:00:48    3
 10/24/2011  12:33:21 AM          98.54
  62   5    7        60.00       474401D-10       162.16     166    170.05    318.93           2.08    0:00:48    3
 10/24/2011   1:34:50 AM          97.57
  63   5    7        60.00        474402-10       159.97     162    179.39    346.11           2.10    0:00:49    3
 10/24/2011   2:36:21 AM          98.57
```

```
  64   5    7        60.00        474402D-10      156.67      159   178.80    354.01                2.12   0:00:49    3
 10/24/2011   3:37:50 AM           98.73
```

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-223
Prep Date: 18-Oct-11

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

WAN ✓

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer	
							%Rec	% error
PBWK18JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK18JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK18JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-10	0.10	50.0	0.00200	50.0	0.100	10.00		
474212	0.10	50.0	0.00200	50.0	0.100	10.00		
474212D	0.10	50.0	0.00200	50.0	0.100	10.00		
474213	0.10	50.0	0.00200	50.0	0.100	10.00		
474213D	0.10	50.0	0.00200	50.0	0.100	10.00		
474214	0.10	50.0	0.00200	50.0	0.100	10.00		
474214D	0.10	50.0	0.00200	50.0	0.100	10.00		
474221	0.10	50.0	0.00200	50.0	0.100	10.00		
474221D	0.10	50.0	0.00200	50.0	0.100	10.00		
474222	0.10	50.0	0.00200	50.0	0.100	10.00		
474222D	0.10	50.0	0.00200	50.0	0.100	10.00		
474300	0.10	50.0	0.00200	50.0	0.100	10.00		
474300D	0.10	50.0	0.00200	50.0	0.100	10.00		
474301	0.10	50.0	0.00200	50.0	0.100	10.00		
474301D	0.10	50.0	0.00200	50.0	0.100	10.00		
474302	0.10	50.0	0.00200	50.0	0.100	10.00		
474302D	0.10	50.0	0.00200	50.0	0.100	10.00		
474340	0.10	50.0	0.00200	50.0	0.100	10.00		
474340D	0.10	50.0	0.00200	50.0	0.100	10.00		
474341	0.10	50.0	0.00200	50.0	0.100	10.00		
474341D	0.10	50.0	0.00200	50.0	0.100	10.00		
474344	0.10	50.0	0.00200	50.0	0.100	10.00		
474344D	0.10	50.0	0.00200	50.0	0.100	10.00		
474401	0.10	50.0	0.00200	50.0	0.100	10.00		
474401D	0.10	50.0	0.00200	50.0	0.100	10.00		
474402	0.10	50.0	0.00200	50.0	0.100	10.00		
474402D	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet
Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-223
Prep Date: 18-Oct-11

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

Liquid Scintilliation Results

Lab Id	Analyte	Matrix	Time (m)	tSIE	Raw cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	338.67	15.41	8.32	15.66	98.40	
BKG-2	Tc-99	Water	60	317.87	15.30	8.27	15.69	97.52	
				AVG BKG	15.36	AVG BKG	15.67		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWK18JV1	Tc-99	Water	60	338.64	14.38	8.66	-0.99	98.39		**-4.46E+00**	**3.23E+00**	**1.10E+01**	**3.22E+00**		PB < 1.65*TPU	
LCSWK18JV1	Tc-99	Water	60	333.37	1099.23	0.78	1104.08	98.17		**4.97E+03**	**2.87E+02**	**1.10E+01**	**1.98E+01**	5000	99.5%	-0.005
LCSWK18JV2	Tc-99	Water	60	337.83	1116.67	0.78	1119.68	98.36		**5.04E+03**	**2.92E+02**	**1.10E+01**	**1.99E+01**	5000	100.9%	0.009
Blank-10	Tc-99	Water	60	353.33	178.25	1.98	165.02	98.71		**7.43E+02**	**4.36E+01**	**1.10E+01**	**8.20E+00**			
474212	Tc-99	Water	60	346.30	161.13	2.09	147.89	98.57		**6.66E+02**	**3.92E+01**	**1.10E+01**	**7.84E+00**	RPD	Dup Evaluation	
474212D	Tc-99	Water	60	342.10	160.46	2.09	147.34	98.48		**6.64E+02**	**3.91E+01**	**1.10E+01**	**7.83E+00**	0.37	0.04	Pass
474213	Tc-99	Water	60	350.33	167.49	2.05	154.22	98.65		**6.95E+02**	**4.08E+01**	**1.10E+01**	**7.97E+00**	RPD	Dup Evaluation	
474213D	Tc-99	Water	60	337.68	159.94	2.10	147.01	98.35		**6.62E+02**	**3.90E+01**	**1.10E+01**	**7.83E+00**	4.78	0.57	Pass
474214	Tc-99	Water	60	341.24	161.42	2.09	148.33	98.47		**6.68E+02**	**3.93E+01**	**1.10E+01**	**7.85E+00**	RPD	Dup Evaluation	
474214D	Tc-99	Water	60	334.24	157.97	2.11	145.21	98.21		**6.54E+02**	**3.85E+01**	**1.10E+01**	**7.80E+00**	2.13	0.26	Pass
474221	Tc-99	Water	60	345.54	159.91	2.10	146.68	98.55		**6.61E+02**	**3.89E+01**	**1.10E+01**	**7.81E+00**	RPD	Dup Evaluation	
474221D	Tc-99	Water	60	329.58	161.71	2.09	149.33	98.01		**6.73E+02**	**3.96E+01**	**1.10E+01**	**7.90E+00**	1.79	0.21	Pass
474222	Tc-99	Water	60	351.56	160.55	2.09	147.14	98.68		**6.63E+02**	**3.90E+01**	**1.10E+01**	**7.82E+00**	RPD	Dup Evaluation	
474222D	Tc-99	Water	60	317.87	158.01	2.11	146.28	97.52		**6.59E+02**	**3.88E+01**	**1.11E+01**	**7.85E+00**	0.58	0.07	Pass
474300	Tc-99	Water	60	332.98	158.53	2.11	145.86	98.16		**6.57E+02**	**3.87E+01**	**1.10E+01**	**7.81E+00**	RPD	Dup Evaluation	
474300D	Tc-99	Water	60	339.93	158.65	2.11	145.57	98.44		**6.56E+02**	**3.86E+01**	**1.10E+01**	**7.79E+00**	0.20	0.02	Pass
474301	Tc-99	Water	60	357.10	162.84	2.08	149.29	98.79		**6.72E+02**	**3.96E+01**	**1.10E+01**	**7.86E+00**	RPD	Dup Evaluation	
474301D	Tc-99	Water	60	301.18	158.85	2.10	147.51	97.28		**6.64E+02**	**3.91E+01**	**1.11E+01**	**7.89E+00**	1.20	0.14	Pass
474302	Tc-99	Water	60	345.91	157.57	2.12	144.29	98.56		**6.50E+02**	**3.83E+01**	**1.10E+01**	**7.76E+00**	RPD	Dup Evaluation	
474302D	Tc-99	Water	60	344.59	159.70	2.10	146.50	98.53		**6.60E+02**	**3.88E+01**	**1.10E+01**	**7.81E+00**	1.52	0.18	Pass
474340	Tc-99	Water	60	340.06	156.84	2.12	143.73	98.44		**6.47E+02**	**3.81E+01**	**1.10E+01**	**7.75E+00**	RPD	Dup Evaluation	
474340D	Tc-99	Water	60	334.09	154.38	2.14	141.57	98.20		**6.38E+02**	**3.76E+01**	**1.10E+01**	**7.72E+00**	1.51	0.18	Pass
474341	Tc-99	Water	60	350.98	166.96	2.05	153.65	98.67		**6.92E+02**	**4.07E+01**	**1.10E+01**	**7.96E+00**	RPD	Dup Evaluation	
474341D	Tc-99	Water	60	336.45	159.88	2.10	147.02	98.30		**6.62E+02**	**3.90E+01**	**1.10E+01**	**7.83E+00**	4.41	0.53	Pass
474344	Tc-99	Water	60	354.63	161.63	2.09	148.14	98.74		**6.67E+02**	**3.93E+01**	**1.10E+01**	**7.84E+00**	RPD	Dup Evaluation	
474344D	Tc-99	Water	60	360.81	163.27	2.08	149.61	98.87		**6.74E+02**	**3.96E+01**	**1.09E+01**	**7.86E+00**	0.98	0.12	Pass
474401	Tc-99	Water	60	344.73	159.98	2.10	146.77	98.54		**6.61E+02**	**3.89E+01**	**1.10E+01**	**7.81E+00**	RPD	Dup Evaluation	
474401D	Tc-99	Water	60	318.93	162.16	2.08	150.46	97.57		**6.78E+02**	**3.99E+01**	**1.11E+01**	**7.94E+00**	2.49	0.30	Pass
474402	Tc-99	Water	60	346.11	159.97	2.10	146.71	98.57		**6.61E+02**	**3.89E+01**	**1.10E+01**	**7.81E+00**	RPD	Dup Evaluation	
474402D	Tc-99	Water	60	354.01	156.67	2.12	143.13	98.73		**6.45E+02**	**3.80E+01**	**1.10E+01**	**7.73E+00**	2.47	0.30	Pass

Notes: Day #10 results.

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-223
Prep Date: 18-Oct-11

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

TPU Factors	%
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	5.77%

Sample Calculations
dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

010067

Assay Definition

```
Assay Description:

Assay Type: DPM (Single)
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111021_1202\Replay_20111024_092933
Raw Results Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111021_1202\20111021_1202.results
Assay File Name: C:\Packard\TriCarb\Assays\99tc_dpm.lsa
```

Count Conditions

```
Nuclide: 99tc
   Quench Indicator: tSIE/AEC
   External Std Terminator (sec): 10 sec
   Pre-Count Delay (min): 0.00
Quench Set:
   Low Energy: 99Tc
Count Time (min): 60.00
Count Mode: Normal
Assay Count Cycles: 1          Repeat Sample Count: 1
#Vials/Sample: 1               Calculate % Reference: Off
```

Fluor B+W Portsmouth
16526.05.00X
TD# 110830-12, 110831-5, 110901-7, 110902-3
12-222, 12-223
WAN

Background Subtract

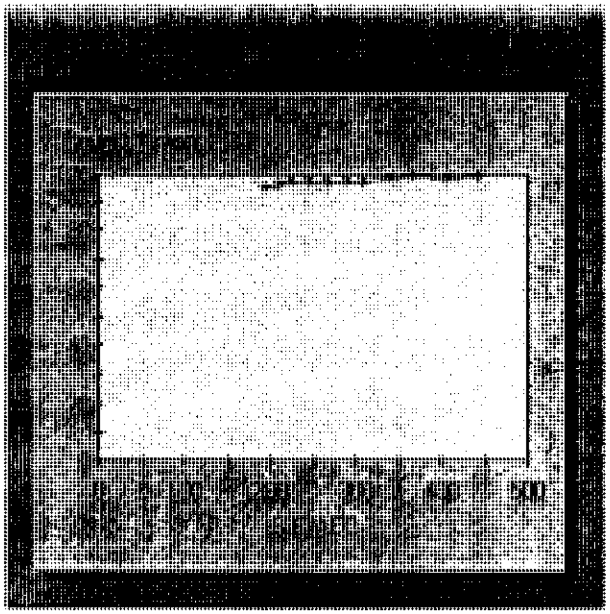
```
Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions        LL       UL
A             0.0    292.0
B             0.0    292.0
C             0.0   2000.0
```

Count Corrections

```
Static Controller: On          Luminescence Correction: On
Colored Samples: On            Heterogeneity Monitor: Off
Coincidence Time (nsec): 18    Delay Before Burst (nsec): 75
```

Instrument Block Data

```
MODEL=Tri-Carb 3180TR/SL
VERSION=2.12
SERIAL=084368


IPA Block Data

Software Version IC: 2.12
Software Version EC: 3.00
Instrument Model: Tri-Carb 3180TR/SL
Instrument Serial Number: 084368
3H Chi Square: 14.18    Date Processed: 10/21/2011 12:01:24 PM
14C Chi Square: 13.00   Date Processed: 10/21/2011 12:01:24 PM
3H E^2/B (1-18.6 keV): 1526.90  Date Processed: 10/21/2011 12:01:24 PM
14C E^2/B (4-156 keV): 5527.44   Date Processed: 10/21/2011 12:01:24 PM
3H Efficiency (1-18.6 keV): 64.55  Date Processed: 10/21/2011 12:01:24 PM
14C Efficiency (4-156 keV): 92.56  Date Processed: 10/21/2011 12:01:24 PM
IPA Background Date Processed: 10/21/2011 12:01:24 PM
3H Background CPM (1-18.6 keV): 2.73  Date Processed: 10/21/2011 12:01:24 PM
14C Background CPM (4-156 keV): 1.55  Date Processed: 10/21/2011 12:01:24 PM
3H Calibration DPM: 281700
3H Reference Date: 6/27/2008
14C Calibration DPM: 123000


Cycle 1 Results
Quench Curve Block Data
```



Date Acquired: 02/15/2011
Date Modified:
99Tc in A

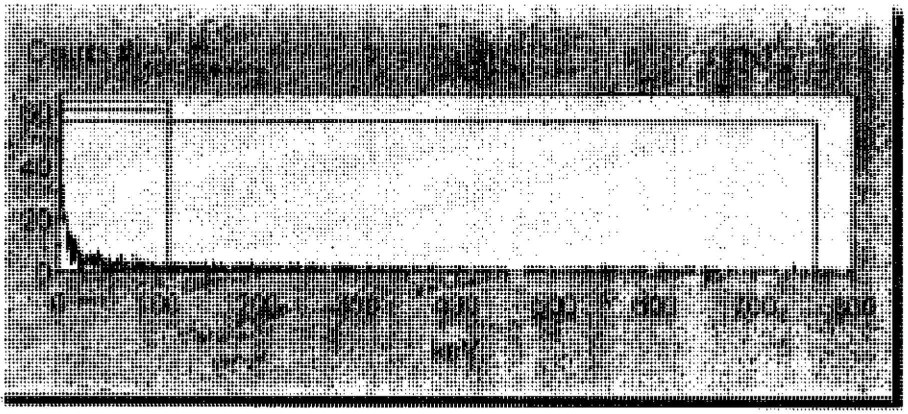
tSIE/AEC	Count Efficiency (%)
443.42	99.12
406.31	98.84
367.18	99.00
339.52	98.43
310.34	97.21
291.55	97.35
267.03	97.31
246.83	97.51
224.44	96.91
211.47	96.41
195.92	95.37

```
  S#   P#  PID  Count Time          SMPL ID       CPMA     DPM1      SIS      tSIE  MESSAGES  A:2S%    ELTIME   LUM
DATE          TIME  Eff Nucl In A
   1    5   1       60.00            Bkg-1        15.41       16   449.24   338.67              8.32   0:00:02   16
10/21/2011  12:03:43 PM          98.40
```

SpectraView Block Data

```
   2   5    1        60.00            Bkg-2        15.30       16   470.50   317.87              8.27   0:00:03   15
10/21/2011   1:05:14 PM          97.52
```

SpectraView Block Data

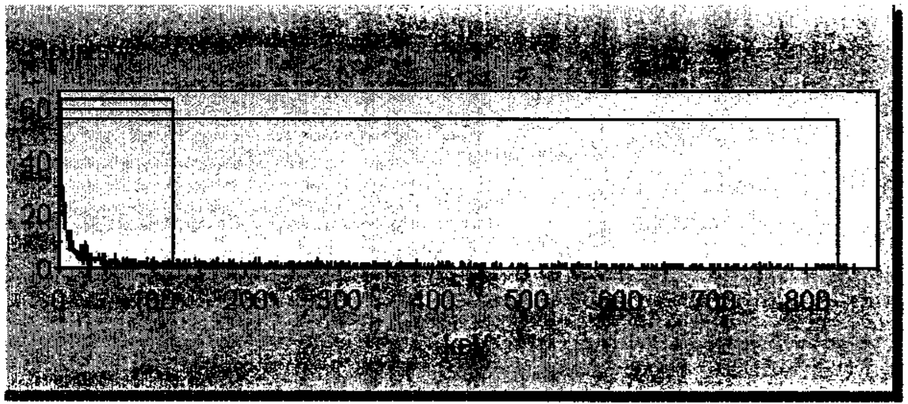


```
Missing vial 3.
   4   5    1        60.00         PBWK17JV1       14.98       15   476.34   357.00              8.42   0:00:04   16
10/21/2011   2:06:44 PM          98.79
```

010071

20111021_1202.results

SpectraView Block Data

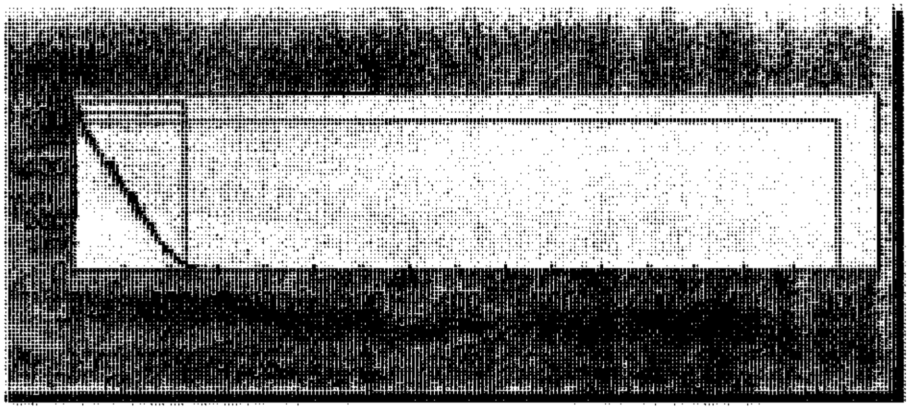


```
   5    5     1        60.00        LCSWK17JV1      1108.33     1123    134.26    352.80                  0.78    0:00:06     0
10/21/2011   3:08:14 PM              98.70
```

SpectraView Block Data

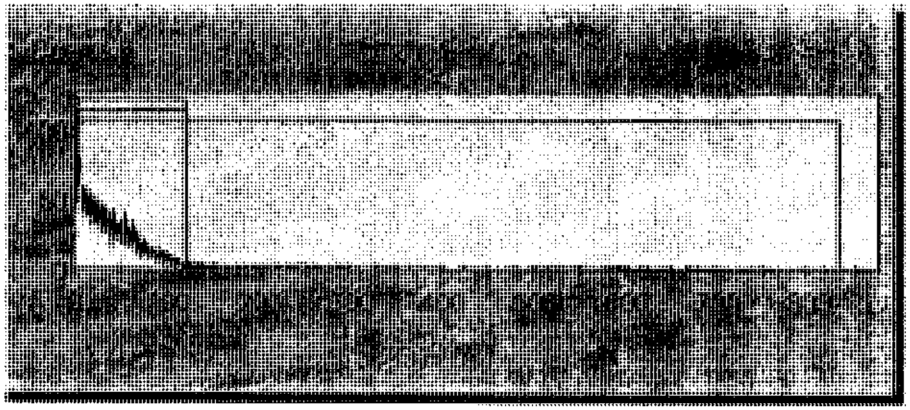
```
   6    5     1        60.00        LCSWK17JV2      1104.22     1122    133.43    338.32                  0.78    0:00:07     0
10/21/2011   4:09:54 PM              98.38
```

SpectraView Block Data



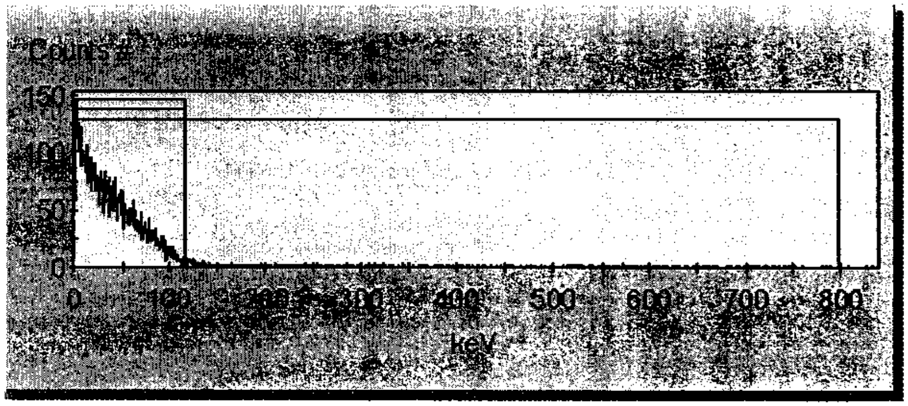
```
   7   5    1        60.00       Blank Day 0       101.17      102   219.65   357.20               2.68    0:00:08    4
10/21/2011   5:11:27 PM            98.79
```

SpectraView Block Data



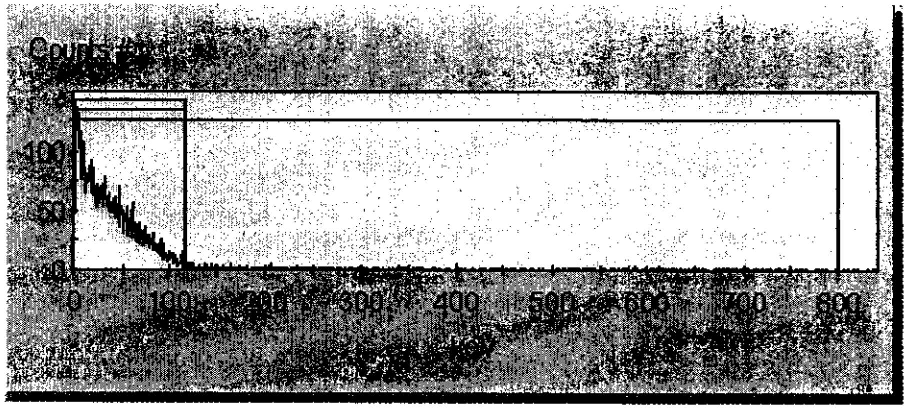
```
   8   5    1        60.00       Blank Day 7       182.36      185   176.77   337.64               1.96    0:00:09    2
10/21/2011   6:12:57 PM            98.35
```

SpectraView Block Data



```
   9    5    1        60.00         474212-7       163.11      166    185.05    338.81              2.07    0:00:10     2
10/21/2011   7:14:27 PM           98.40
```

SpectraView Block Data

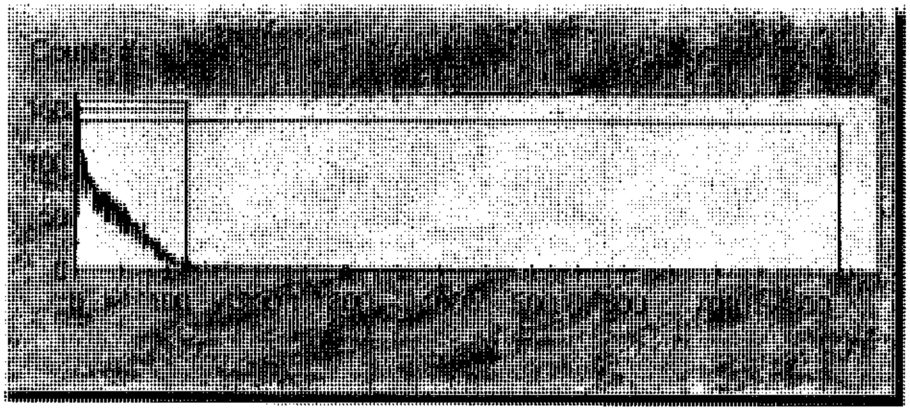


```
  10    5    1        60.00        474212D-7       163.88      166    178.45    362.83              2.07    0:00:12     3
10/21/2011   8:15:58 PM           98.91
```

SpectraView Block Data

```
  11    5    1        60.00         474213-7       166.07      168    184.33    358.92              2.06    0:00:13     3
10/21/2011    9:17:29 PM          98.83
```

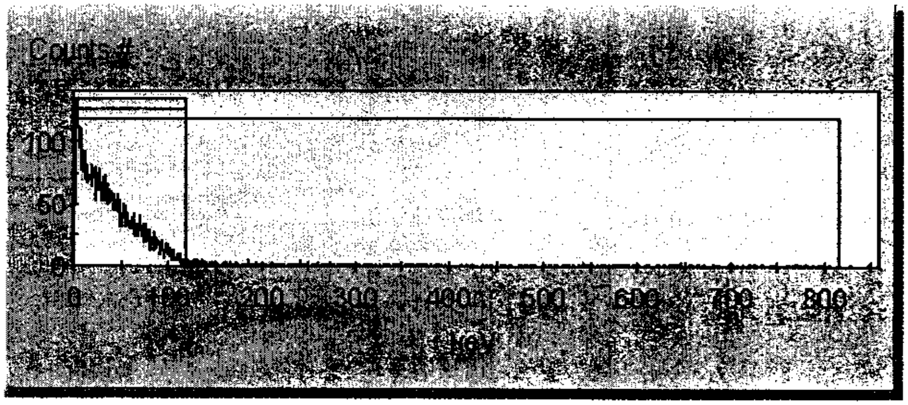
SpectraView Block Data



```
  12    5    1        60.00         474213D-7      160.35      163    180.42    347.45              2.09    0:00:14     2
10/21/2011  10:19:00 PM           98.59
```

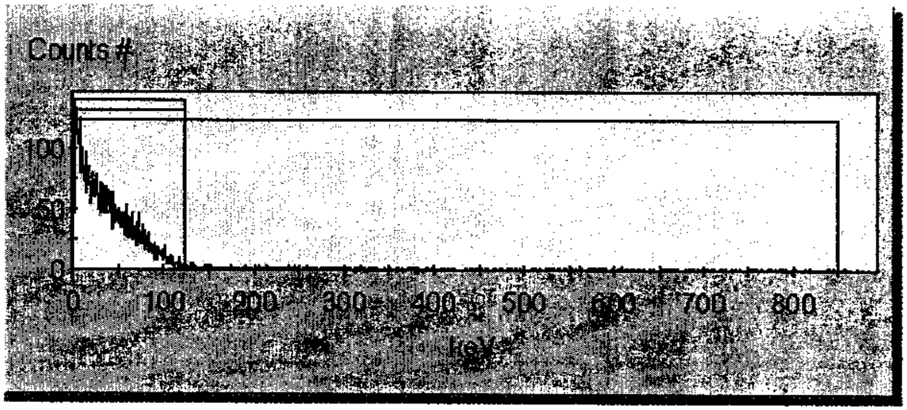
SpectraView Block Data

010075



```
  13    5    2        60.00           474214-7        158.99      161    181.51    365.65              2.10    0:00:15     3
10/21/2011  11:20:36 PM            98.97
```

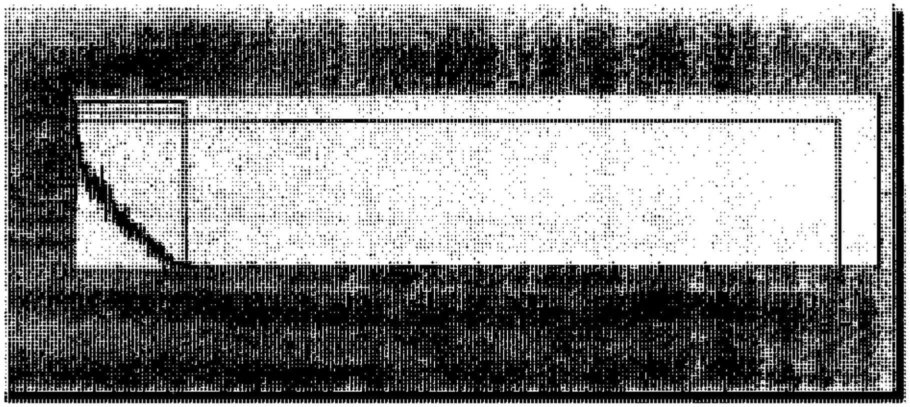
SpectraView Block Data



```
  14    5    2        60.00          474214D-7        159.65      161    179.08    366.74              2.10    0:00:16     3
10/22/2011  12:22:07 AM            98.99
```

SpectraView Block Data

0111021_1202.results



```
  15   5    2        60.00         474221-7       159.96      163    176.94    331.94               2.10    0:00:17     3
10/22/2011   1:23:37 AM          98.11
```

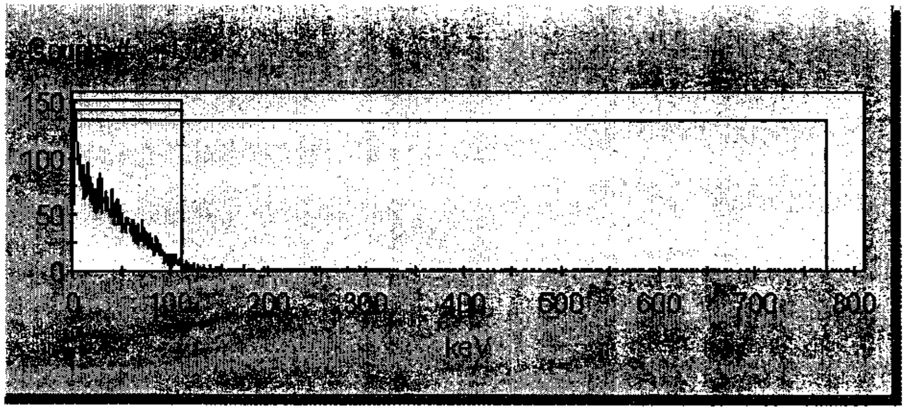
SpectraView Block Data

```
  16   5    2        60.00        474221D-7       164.78      167    180.11    343.14               2.06    0:00:18     2
10/22/2011   2:25:08 AM          98.51
```

SpectraView Block Data

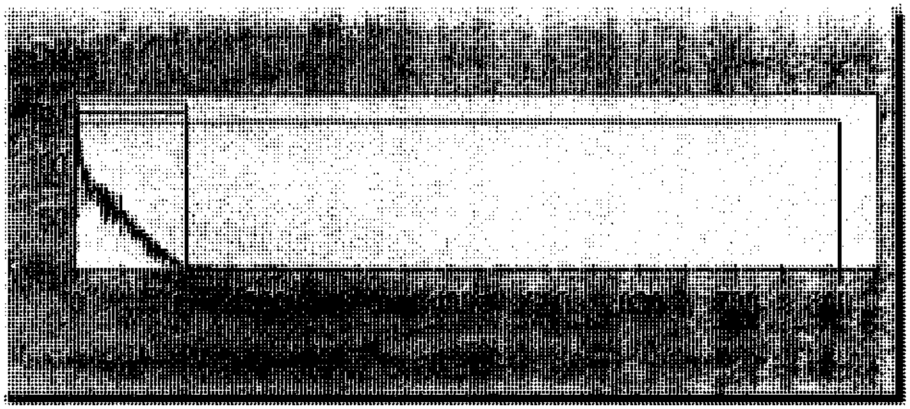
```
  17   5    2        60.00          474222-7       165.19      169    174.15    323.31                   2.06    0:00:20     3
10/22/2011   3:26:40 AM            97.75
```

SpectraView Block Data



```
  18   5    2        60.00          474222D-7      167.55      170    174.93    345.44                   2.05    0:00:21     2
10/22/2011   4:28:11 AM            98.55
```

SpectraView Block Data

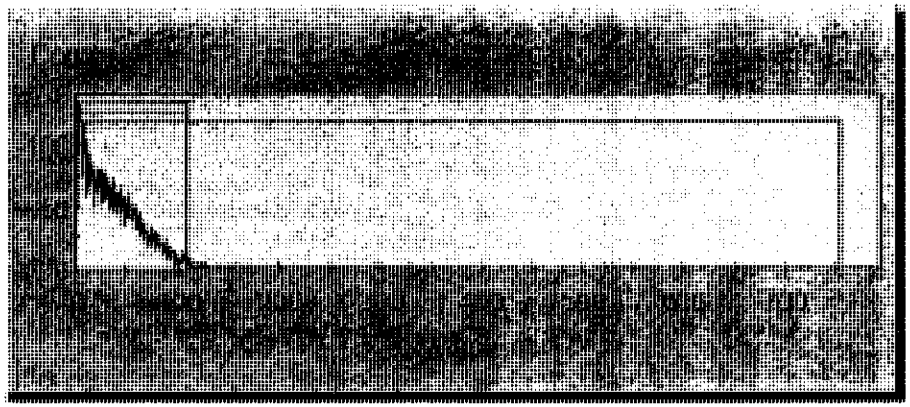


```
  19    5     2        60.00          474300-7       161.05      163    177.48    353.27                2.09    0:00:22     3
10/22/2011    5:29:41 AM             98.71
```

SpectraView Block Data

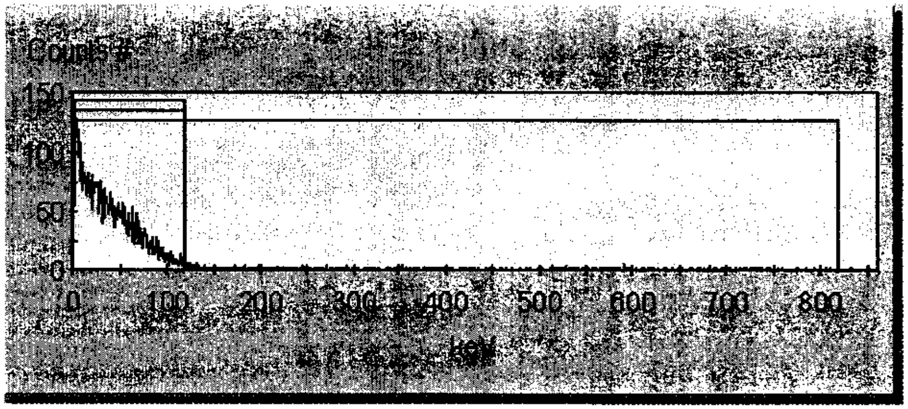
```
  20    5     2        60.00          474300D-7      159.48      164    167.40    314.53                2.10    0:00:23     3
10/22/2011    6:31:13 AM             97.38
```

SpectraView Block Data



```
  21   5    2       60.00          474301-7       159.76      162    189.06    349.56                  2.10    0:00:24     3
10/22/2011    7:32:44 AM           98.64
```

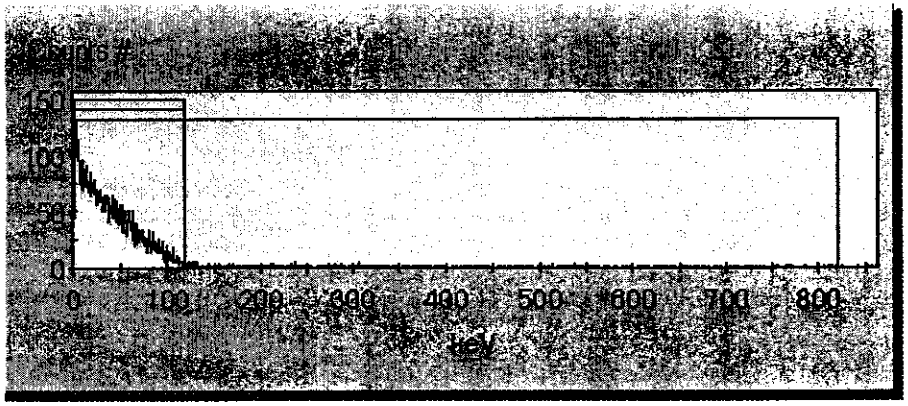
SpectraView Block Data



```
  22   5    2       60.00          474301D-7      161.66      164    188.39    349.98                  2.09    0:00:25     3
10/22/2011    8:34:16 AM           98.65
```

SpectraView Block Data

20111021_1202.results



```
  23   5    2        60.00         474302-7       159.33      161    180.65    351.00                2.10    0:00:26     3
10/22/2011   9:35:47 AM           98.67
```

SpectraView Block Data

```
  24   5    2        60.00         474302D-7      160.17      162    181.44    357.61                2.10    0:00:28     3
10/22/2011  10:37:18 AM           98.80
```

SpectraView Block Data

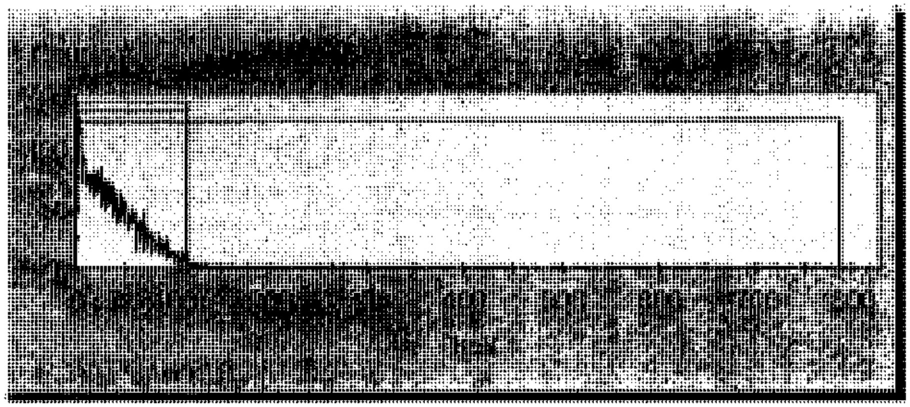
010081

```
  25   5    6        60.00         474340-7       153.85      157   178.13   333.51              2.14   0:00:29    3
10/22/2011  11:38:54 AM           98.18
```

SpectraView Block Data

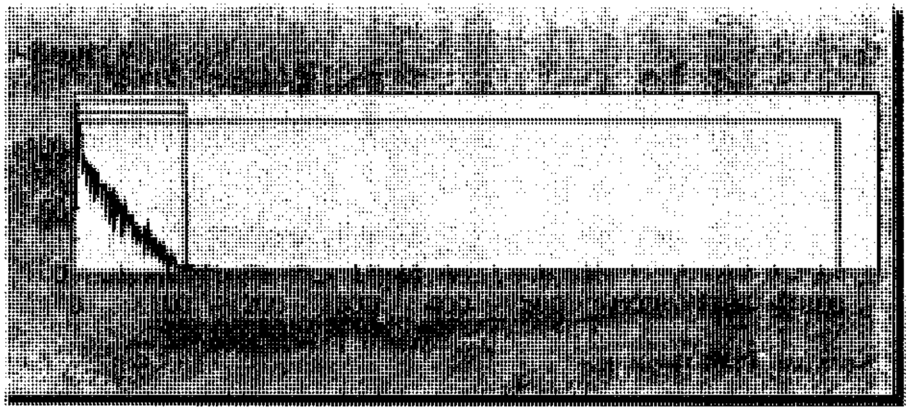
```
  26   5    6        60.00        474340D-7       155.29      158   177.72   332.01              2.13   0:00:30    3
10/22/2011  12:40:25 PM           98.12
```

SpectraView Block Data



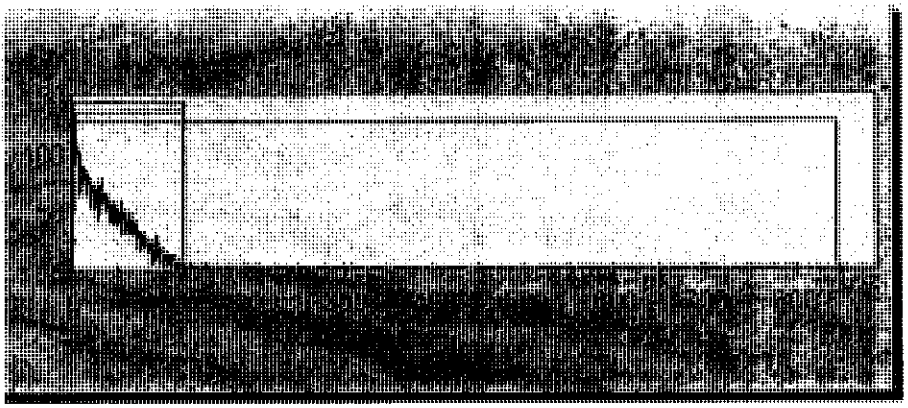
```
  27   5    6         60.00          474341-7       162.00      164   186.74    349.48                2.08    0:00:31     3
10/22/2011    1:41:56 PM            98.64
```

SpectraView Block Data

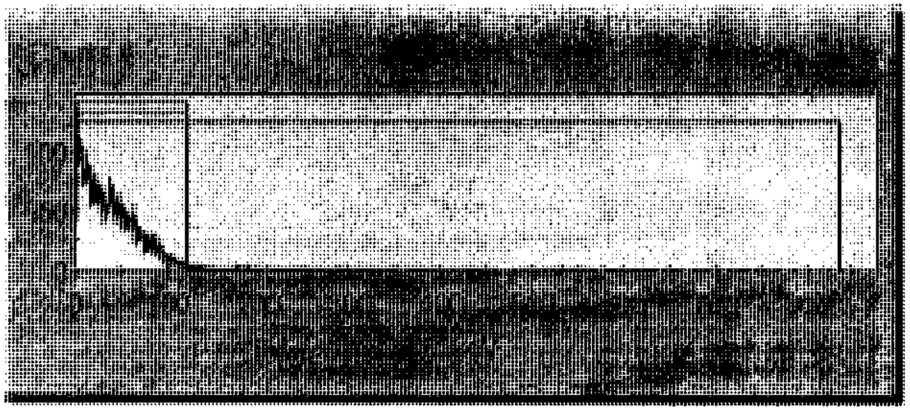


```
  28   5    6         60.00          474341D-7      163.08      165   185.52    365.41                2.08    0:00:32     3
10/22/2011    2:43:28 PM            98.96
```

SpectraView Block Data

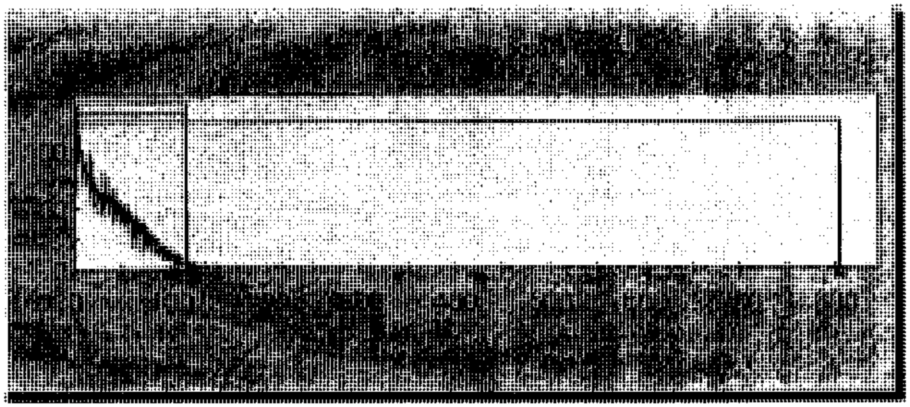


```
  29    5     6          60.00          474344-7       163.84      166    182.68    358.76               2.07    0:00:33     2
10/22/2011    3:44:59 PM             98.83

SpectraView Block Data
```



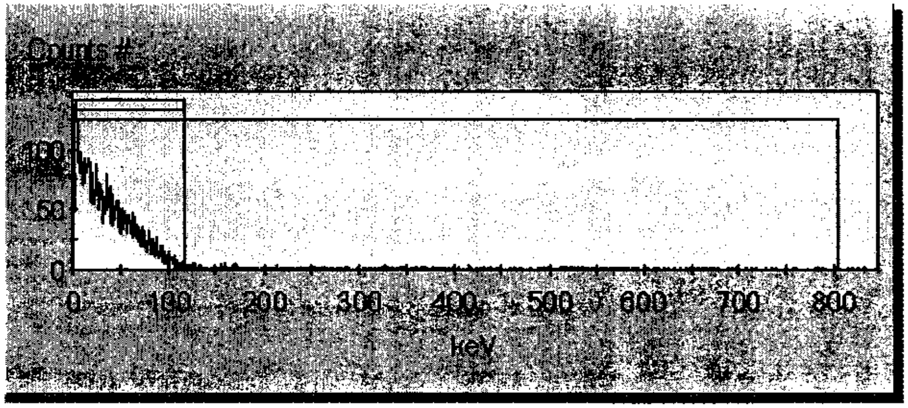
```
  30    5     6          60.00          474344D-7      162.45      165    175.15    341.54               2.08    0:00:34     3
10/22/2011    4:46:28 PM             98.47

SpectraView Block Data
```

0111021_1202.results



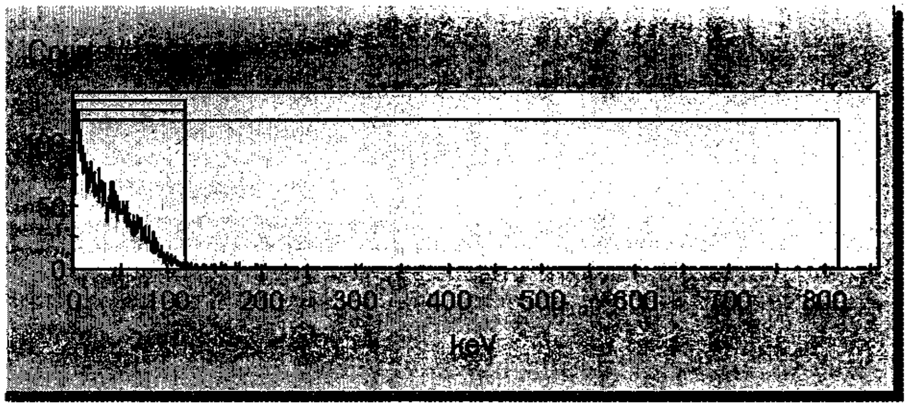
```
  31    5     6         60.00          474401-7       157.77      160    173.06   341.16                2.11    0:00:35     3
10/22/2011    5:47:59 PM              98.46
```

SpectraView Block Data



```
  32    5     6         60.00          47401D-7       161.10      163    176.55   347.82                2.09    0:00:36     3
10/22/2011    6:49:29 PM              98.60
```

SpectraView Block Data



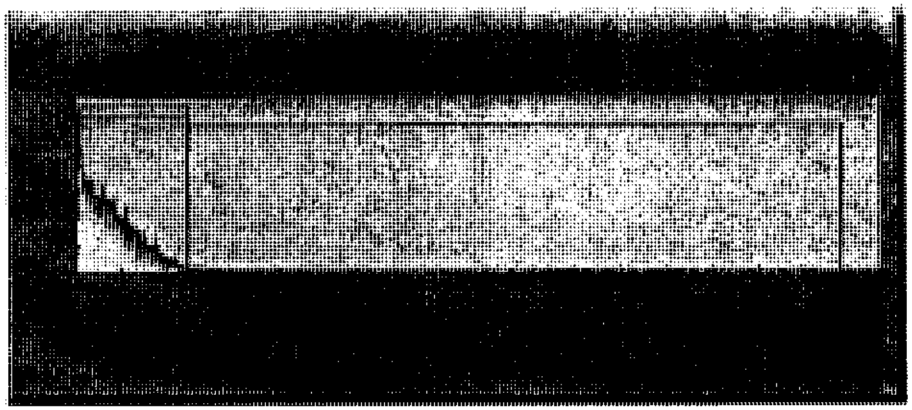
```
  33   5    6        60.00           47402-7       163.73      165    189.78    370.26                 2.07    0:00:38     3
10/22/2011    7:51:00 PM            98.99
```

SpectraView Block Data

```
  34   5    6        60.00          47402D-7       162.95      165    177.94    361.74                 2.08    0:00:39     2
10/22/2011    8:52:30 PM            98.89
```

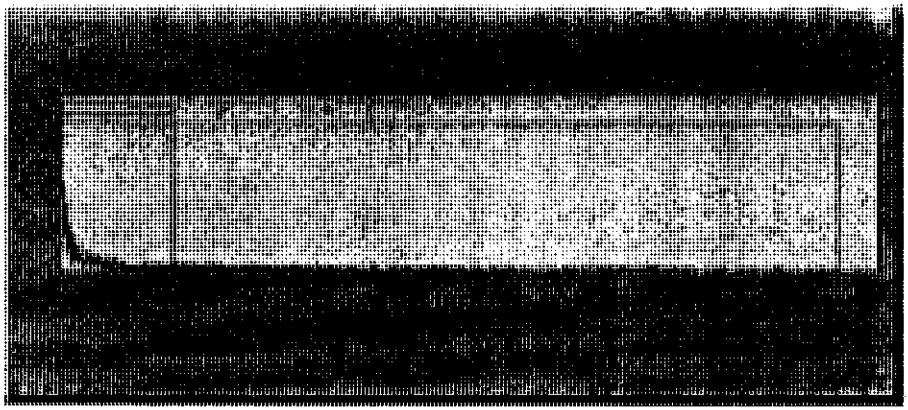
SpectraView Block Data

010086



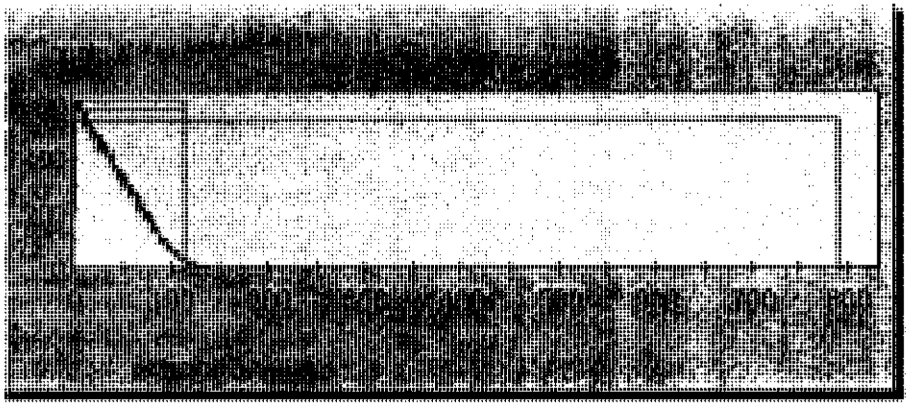
```
  35   5    6        60.00        PBWK18JV1       14.38       15    450.57    338.64              8.66    0:00:40    17
10/22/2011   9:54:02 PM           98.39
```

SpectraView Block Data



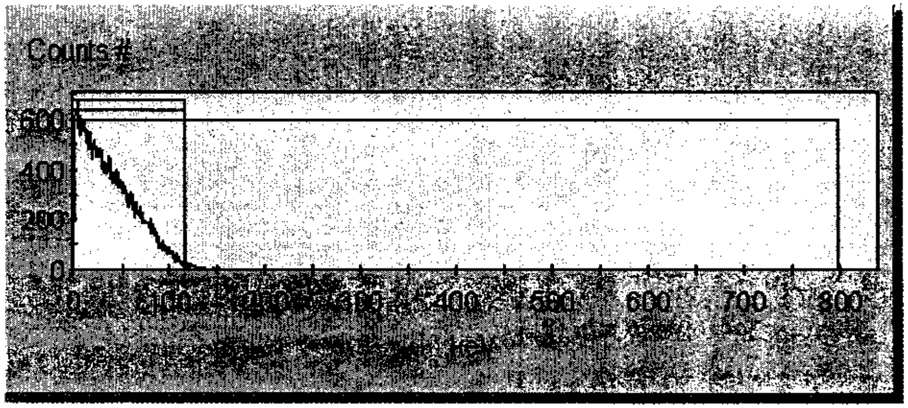
```
  36   5    6        60.00        LCSWK18JV1      1099.23     1120   132.30    333.37              0.78    0:00:41     0
10/22/2011  10:55:32 PM            98.17
```

SpectraView Block Data



```
  37   5   14        60.00        LCSWK18JV2      1116.67     1135    134.37    337.83              0.78    0:00:42     0
10/22/2011  11:57:10 PM            98.36
```

SpectraView Block Data



```
  38   5   14        60.00       Blank Day-10      178.25      181    175.36    353.33              1.98    0:00:43     2
10/23/2011  12:58:47 AM            98.71
  39   5   14        60.00         474212-10       161.13      163    181.26    346.30              2.09    0:00:43     3
10/23/2011   2:00:16 AM            98.57
  40   5   14        60.00         474212D-10      160.46      163    186.45    342.10              2.09    0:00:44     3
10/23/2011   3:01:47 AM            98.48
```

010088

```
  41   5   14          60.00        472213-10       167.49     170    178.43   350.33             2.05   0:00:44     2
 10/23/2011   4:03:17 AM             98.65
  42   5   14          60.00       474213D-10       159.94     163    179.48   337.68             2.10   0:00:44     3
 10/23/2011   5:04:47 AM             98.35
  43   5   14          60.00        474214-10       161.42     164    188.93   341.24             2.09   0:00:44     3
 10/23/2011   6:06:17 AM             98.47
  44   5   14          60.00       474214D-10       157.97     161    184.84   334.24             2.11   0:00:44     3
 10/23/2011   7:07:45 AM             98.21
  45   5   14          60.00        474221-10       159.91     162    168.90   345.54             2.10   0:00:45     3
 10/23/2011   8:09:14 AM             98.55
  46   5   14          60.00       474221D-10       161.71     165    179.83   329.58             2.09   0:00:45     3
 10/23/2011   9:10:43 AM             98.01
  47   5   14          60.00        474222-10       160.55     163    181.23   351.56             2.09   0:00:45     3
 10/23/2011  10:12:12 AM             98.68
  48   5   14          60.00       474222D-10       158.01     162    177.00   317.87             2.11   0:00:45     3
 10/23/2011  11:13:43 AM             97.52
  49   5   19          60.00        474300-10       158.53     162    184.43   332.98             2.11   0:00:45     3
 10/23/2011  12:15:19 PM             98.16
  50   5   19          60.00       474300D-10       158.65     161    180.30   339.93             2.11   0:00:46     3
 10/23/2011   1:16:48 PM             98.44
  51   5   19          60.00        474301-10       162.84     165    183.34   357.10             2.08   0:00:46     3
 10/23/2011   2:18:18 PM             98.79
  52   5   19          60.00       474301D-10       158.85     163    173.83   301.18             2.10   0:00:46     3
 10/23/2011   3:19:49 PM             97.28
  53   5   19          60.00        474302-10       157.57     160    187.32   345.91             2.12   0:00:46     3
 10/23/2011   4:21:18 PM             98.56
  54   5   19          60.00       474302D-10       159.70     162    181.62   344.59             2.10   0:00:47     3
 10/23/2011   5:22:47 PM             98.53
  55   5   19          60.00        474340-10       156.84     159    177.76   340.06             2.12   0:00:47     3
 10/23/2011   6:24:17 PM             98.44
  56   5   19          60.00       474340D-10       154.38     157    186.89   334.09             2.14   0:00:47     3
 10/23/2011   7:25:47 PM             98.20
  57   5   19          60.00        474341-10       166.96     169    181.99   350.98             2.05   0:00:47     3
 10/23/2011   8:27:17 PM             98.67
  58   5   19          60.00       474341D-10       159.88     163    180.17   336.45             2.10   0:00:47     3
 10/23/2011   9:28:47 PM             98.30
  59   5   19          60.00        474344-10       161.63     164    182.87   354.63             2.09   0:00:48     3
 10/23/2011  10:30:15 PM             98.74
  60   5   19          60.00       474344D-10       163.27     165    184.48   360.81             2.08   0:00:48     3
 10/23/2011  11:31:45 PM             98.87
  61   5    7          60.00        474401-10       159.98     162    176.37   344.73             2.10   0:00:48     3
 10/24/2011  12:33:21 AM             98.54
  62   5    7          60.00       474401D-10       162.16     166    170.05   318.93             2.08   0:00:48     3
 10/24/2011   1:34:50 AM             97.57
  63   5    7          60.00        474402-10       159.97     162    179.39   346.11             2.10   0:00:49     3
 10/24/2011   2:36:21 AM             98.57
```

010089

```
  64   5    7        60.00        474402D-10       156.67      159   178.80   354.01              2.12   0:00:49    3
10/24/2011   3:37:50 AM            98.73
```

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-238
Prep Date: 24-Oct-11

WAN √WL

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer	
							%Rec	% error
PBWK24JV3	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK24JV4	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK24JV5	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-14	0.10	50.0	0.00200	50.0	0.100	10.00		
474212	0.10	50.0	0.00200	50.0	0.100	10.00		
474212D	0.10	50.0	0.00200	50.0	0.100	10.00		
474213	0.10	50.0	0.00200	50.0	0.100	10.00		
474213D	0.10	50.0	0.00200	50.0	0.100	10.00		
474214	0.10	50.0	0.00200	50.0	0.100	10.00		
474214D	0.10	50.0	0.00200	50.0	0.100	10.00		
474221	0.10	50.0	0.00200	50.0	0.100	10.00		
474221D	0.10	50.0	0.00200	50.0	0.100	10.00		
474222	0.10	50.0	0.00200	50.0	0.100	10.00		
474222D	0.10	50.0	0.00200	50.0	0.100	10.00		
474300	0.10	50.0	0.00200	50.0	0.100	10.00		
474300D	0.10	50.0	0.00200	50.0	0.100	10.00		
474301	0.10	50.0	0.00200	50.0	0.100	10.00		
474301D	0.10	50.0	0.00200	50.0	0.100	10.00		
474302	0.10	50.0	0.00200	50.0	0.100	10.00		
474302D	0.10	50.0	0.00200	50.0	0.100	10.00		
474340	0.10	50.0	0.00200	50.0	0.100	10.00		
474340D	0.10	50.0	0.00200	50.0	0.100	10.00		
474341	0.10	50.0	0.00200	50.0	0.100	10.00		
474341D	0.10	50.0	0.00200	50.0	0.100	10.00		
474344	0.10	50.0	0.00200	50.0	0.100	10.00		
474344D	0.10	50.0	0.00200	50.0	0.100	10.00		
474401	0.10	50.0	0.00200	50.0	0.100	10.00		
474401D	0.10	50.0	0.00200	50.0	0.100	10.00		
474402	0.10	50.0	0.00200	50.0	0.100	10.00		
474402D	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet
Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-238
Prep Date: 24-Oct-11

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

Liquid Scintilliation Results

Lab Id	Analyte	Matrix	Time (m)	tSIE	Raw cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	345.81	14.95	8.50	15.17	98.56	
BKG-2	Tc-99	Water	60	356.09	15.80	8.15	16.00	98.77	
				AVG BKG	15.38	AVG BKG	15.58		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWK24JV3	Tc-99	Water	60	344.64	15.75	8.16	0.38	98.54		1.71E+00	3.29E+00	1.10E+01	3.29E+00		PB < 1.65*TPU	
LCSWK24JV4	Tc-99	Water	60	346.77	1115.87	0.78	1116.35	98.58		5.03E+03	2.91E+02	1.10E+01	1.98E+01	5000	100.6%	0.006
LCSWK24JV5	Tc-99	Water	60	353.56	1097.29	0.78	1095.94	98.72		4.94E+03	2.85E+02	1.10E+01	1.96E+01	5000	98.7%	-0.013
Blank-14	Tc-99	Water	60	356.17	182.22	1.96	168.92	98.77		7.61E+02	4.47E+01	1.10E+01	8.28E+00			
474212	Tc-99	Water	60	304.36	160.17	2.09	148.89	97.25		6.71E+02	3.95E+01	1.11E+01	7.92E+00	RPD	Dup Evaluation	
474212D	Tc-99	Water	60	354.22	157.85	2.11	144.31	98.73		6.50E+02	3.83E+01	1.10E+01	7.75E+00	3.13	0.38	Pass
474213	Tc-99	Water	60	365.51	165.57	2.06	151.77	98.96		6.84E+02	4.02E+01	1.09E+01	7.90E+00	RPD	Dup Evaluation	
474213D	Tc-99	Water	60	332.66	163.34	2.08	150.77	98.14		6.79E+02	4.00E+01	1.10E+01	7.92E+00	0.66	0.08	Pass
474214	Tc-99	Water	60	331.38	159.10	2.10	146.52	98.09		6.60E+02	3.89E+01	1.10E+01	7.83E+00	RPD	Dup Evaluation	
474214D	Tc-99	Water	60	343.50	154.72	2.13	141.45	98.51		6.37E+02	3.75E+01	1.10E+01	7.70E+00	3.52	0.42	Pass
474221	Tc-99	Water	60	351.73	163.33	2.08	149.93	98.68		6.75E+02	3.97E+01	1.10E+01	7.88E+00	RPD	Dup Evaluation	
474221D	Tc-99	Water	60	343.63	162.32	2.08	149.15	98.52		6.72E+02	3.95E+01	1.10E+01	7.87E+00	0.52	0.06	Pass
474222	Tc-99	Water	60	325.72	157.41	2.11	145.16	97.85		6.54E+02	3.85E+01	1.11E+01	7.81E+00	RPD	Dup Evaluation	
474222D	Tc-99	Water	60	345.91	156.45	2.12	143.14	98.56		6.45E+02	3.80E+01	1.10E+01	7.73E+00	1.40	0.17	Pass
474300	Tc-99	Water	60	348.48	158.87	2.11	145.52	98.61		6.55E+02	3.86E+01	1.10E+01	7.78E+00	RPD	Dup Evaluation	
474300D	Tc-99	Water	60	352.73	158.07	2.11	144.57	98.70		6.51E+02	3.83E+01	1.10E+01	7.76E+00	0.65	0.08	Pass
474301	Tc-99	Water	60	366.80	160.02	2.10	146.12	98.99		6.58E+02	3.87E+01	1.09E+01	7.78E+00	RPD	Dup Evaluation	
474301D	Tc-99	Water	60	342.37	160.15	2.10	146.99	98.49		6.62E+02	3.90E+01	1.10E+01	7.82E+00	0.60	0.07	Pass
474302	Tc-99	Water	60	365.36	158.82	2.11	144.95	98.96		6.53E+02	3.84E+01	1.09E+01	7.76E+00	RPD	Dup Evaluation	
474302D	Tc-99	Water	60	332.55	159.17	2.10	146.52	98.14		6.60E+02	3.89E+01	1.10E+01	7.83E+00	1.08	0.13	Pass
474340	Tc-99	Water	60	345.59	150.03	2.17	136.62	98.56		6.15E+02	3.63E+01	1.10E+01	7.59E+00	RPD	Dup Evaluation	
474340D	Tc-99	Water	60	361.78	153.68	2.14	139.86	98.89		6.30E+02	3.71E+01	1.09E+01	7.65E+00	2.34	0.28	Pass
474341	Tc-99	Water	60	343.61	163.67	2.07	150.54	98.51		6.78E+02	3.99E+01	1.10E+01	7.90E+00	RPD	Dup Evaluation	
474341D	Tc-99	Water	60	334.15	162.23	2.08	149.53	98.21		6.74E+02	3.96E+01	1.10E+01	7.89E+00	0.67	0.08	Pass
474344	Tc-99	Water	60	356.57	162.38	2.08	148.82	98.78		6.70E+02	3.94E+01	1.10E+01	7.85E+00	RPD	Dup Evaluation	
474344D	Tc-99	Water	60	330.59	160.50	2.09	148.00	98.06		6.67E+02	3.92E+01	1.10E+01	7.86E+00	0.56	0.07	Pass
474401	Tc-99	Water	60	347.20	162.06	2.08	148.78	98.59		6.70E+02	3.94E+01	1.10E+01	7.86E+00	RPD	Dup Evaluation	
474401D	Tc-99	Water	60	349.54	158.92	2.11	145.52	98.64		6.56E+02	3.86E+01	1.10E+01	7.78E+00	2.21	0.27	Pass
474402	Tc-99	Water	60	348.55	158.30	2.11	144.92	98.62		6.53E+02	3.84E+01	1.10E+01	7.77E+00	RPD	Dup Evaluation	
474402D	Tc-99	Water	60	338.42	156.58	2.12	143.53	98.38		6.47E+02	3.81E+01	1.10E+01	7.75E+00	0.97	0.12	Pass

Notes: Day #14 results.

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-238
Prep Date: 24-Oct-11

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

Sample Calculations

dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

TPU Factors	%
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	5.77%

20111026_0915.results

Assay Definition

```
Assay Description:

Assay Type: DPM (Single)
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111026_0915\Replay_20111027_181337
Raw Results Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111026_0915\20111026_0915.results
Assay File Name: C:\Packard\TriCarb\Assays\99tc_dpm.lsa
```

Count Conditions

```
Nuclide: 99tc
   Quench Indicator: tSIE/AEC
   External Std Terminator (sec): 10 sec
   Pre-Count Delay (min): 0.00
Quench Set:
   Low Energy: 99Tc
Count Time (min): 60.00
Count Mode: Normal
Assay Count Cycles: 1          Repeat Sample Count: 1
#Vials/Sample: 1               Calculate % Reference: Off
```

Fluor B+W Portsmouth
16526.05.00K
TO# 110830-12, 110831-5, 110901-7, 110902-3
12-238
WAN

Background Subtract

```
Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions          LL       UL
A               0.0    292.0
B               0.0    292.0
C               0.0   2000.0
```

Count Corrections

```
Static Controller: On          Luminescence Correction: On
Colored Samples: On            Heterogeneity Monitor: Off
Coincidence Time (nsec): 18    Delay Before Burst (nsec): 75
```

Instrument Block Data

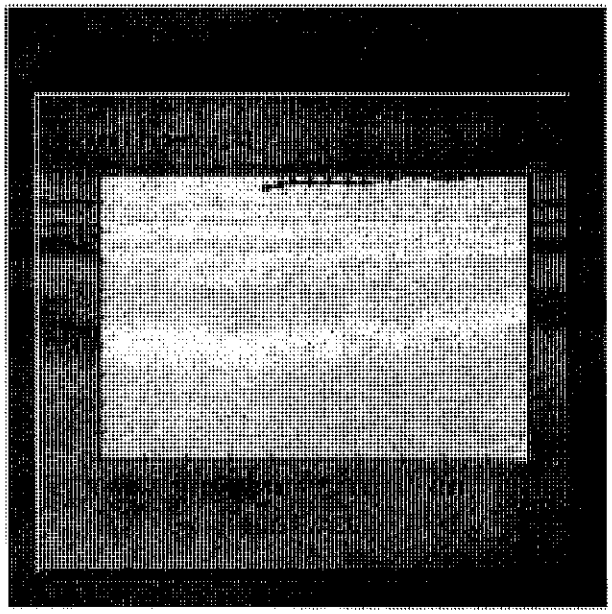
```
MODEL=Tri-Carb 3180TR/SL
VERSION=2.12
SERIAL=084368
```

IPA Block Data

```
Software Version IC: 2.12
Software Version EC: 3.00
Instrument Model: Tri-Carb 3180TR/SL
Instrument Serial Number: 084368
3H Chi Square: 23.43    Date Processed: 10/26/2011 3:47:52 AM
14C Chi Square: 15.63   Date Processed: 10/26/2011 3:47:52 AM
3H E^2/B (1-18.6 keV): 1654.05  Date Processed: 10/26/2011 3:47:52 AM
14C E^2/B (4-156 keV): 5564.37   Date Processed: 10/26/2011 3:47:52 AM
3H Efficiency (1-18.6 keV): 64.63  Date Processed: 10/26/2011 3:47:52 AM
14C Efficiency (4-156 keV): 93.55  Date Processed: 10/26/2011 3:47:52 AM
IPA Background Date Processed: 10/26/2011 3:47:52 AM
3H Background CPM (1-18.6 keV): 2.53  Date Processed: 10/26/2011 3:47:52 AM
14C Background CPM (4-156 keV): 1.57  Date Processed: 10/26/2011 3:47:52 AM
3H Calibration DPM: 281700
3H Reference Date: 6/27/2008
14C Calibration DPM: 123000
```

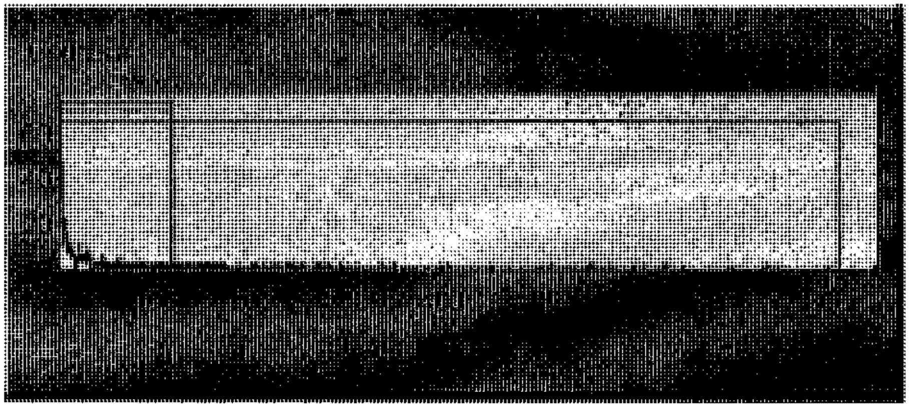
Cycle 1 Results

Quench Curve Block Data



```
Date Acquired: 02/15/2011
Date Modified:
99Tc in A

tSIE/AEC      Count Efficiency (%)
443.42        99.12
406.31        98.84
367.18        99.00
339.52        98.43
310.34        97.21
291.55        97.35
267.03        97.31
246.83        97.51
224.44        96.91
211.47        96.41
195.92        95.37

  S#  P#  PID  Count Time          SMPL ID       CPMA     DPM1       SIS      tSIE  MESSAGES  A:2S%    ELTIME   LUM
DATE           TIME  Eff Nucl In A
   1   5   1        60.00            Bkg-1      14.95       15    474.16    345.81              8.50  0:00:02    17
10/26/2011    9:16:33 AM         98.56
```

SpectraView Block Data



```
   2   5    1        60.00              Bkg-2        15.80        16   458.80   356.09            8.15   0:00:03   16
10/26/2011  10:18:05 AM             98.77
```

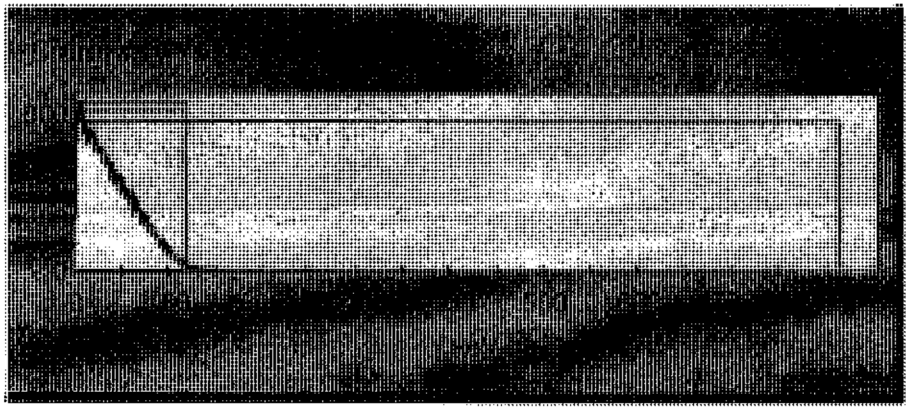
SpectraView Block Data

```
Missing vial 3.
   4   5    1        60.00          PBWK24JV3        15.75        16   451.94   344.64            8.16   0:00:05   16
10/26/2011  11:19:36 AM         98.54
```

SpectraView Block Data

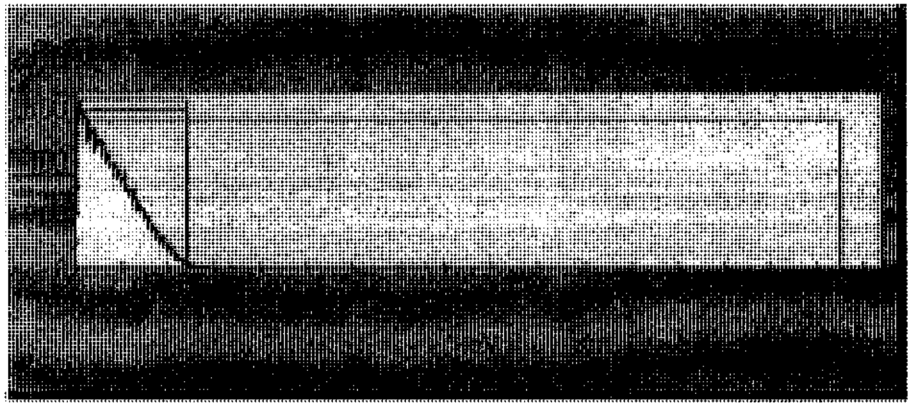
```
   5    5     1         60.00        LCSWK24JV4      1115.87      1132    136.55    346.77                   0.78    0:00:06     0
10/26/2011  12:21:06 PM               98.58
```

SpectraView Block Data



```
   6    5     1         60.00        LCSWK24JV5      1097.29      1112    134.80    353.56                   0.78    0:00:07     0
10/26/2011   1:22:39 PM               98.72
```

SpectraView Block Data

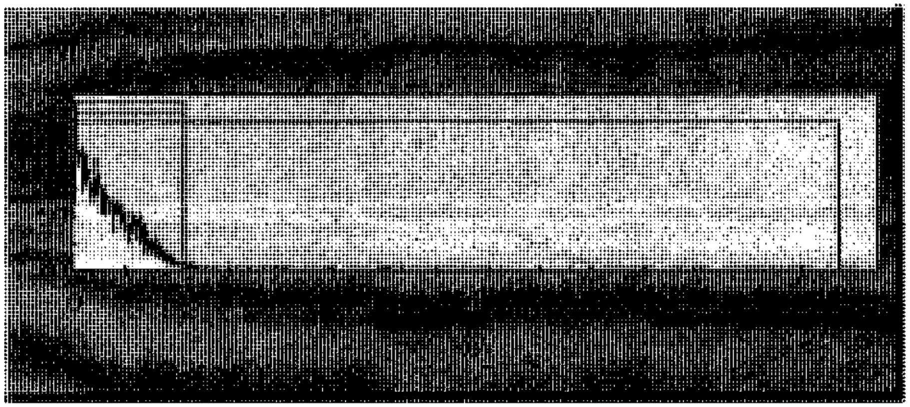


```
   7   5    1        60.00      Blank Day-14       182.22      184   179.96   356.17                 1.96   0:00:08     2
10/26/2011   2:24:12 PM          98.77
```

SpectraView Block Data

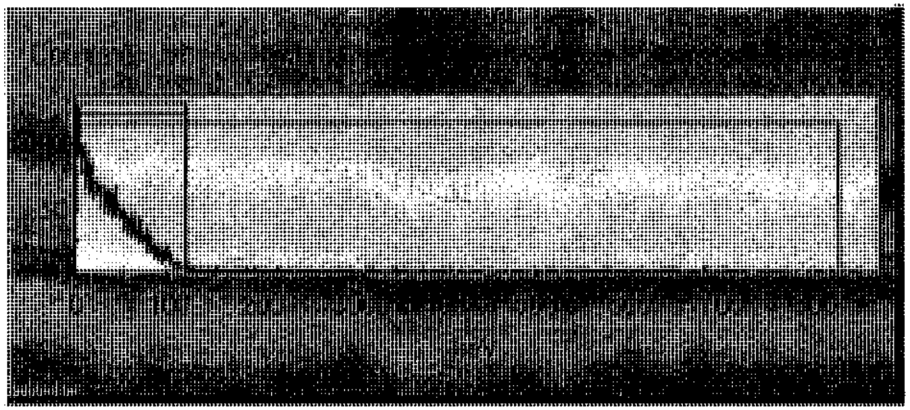
```
   8   5    1        60.00          474212-14      160.17      165   160.11   304.36                 2.09   0:00:09     3
10/26/2011   3:25:47 PM          97.25
```

SpectraView Block Data



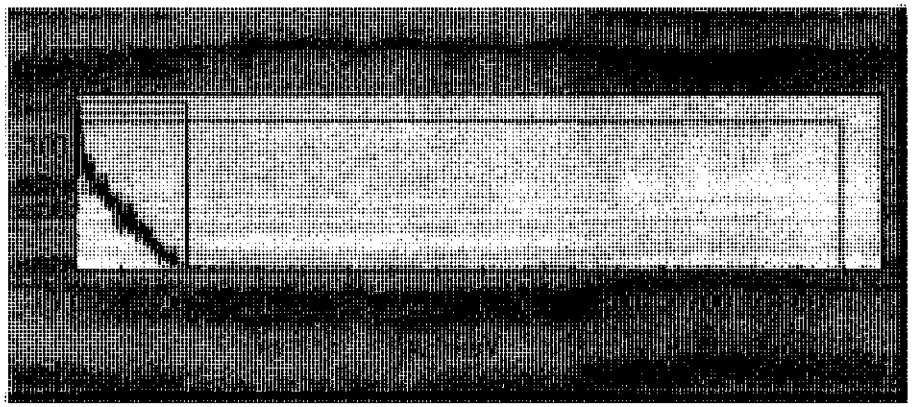
```
   9   5    1        60.00        474212D-14       157.85      160   186.35   354.22                2.11   0:00:11     3
10/26/2011   4:27:22 PM             98.73
```

SpectraView Block Data



```
  10   5    1        60.00        474213-14        165.57      167   186.56   365.51                2.06   0:00:12     3
10/26/2011   5:28:57 PM           98.96
```

SpectraView Block Data



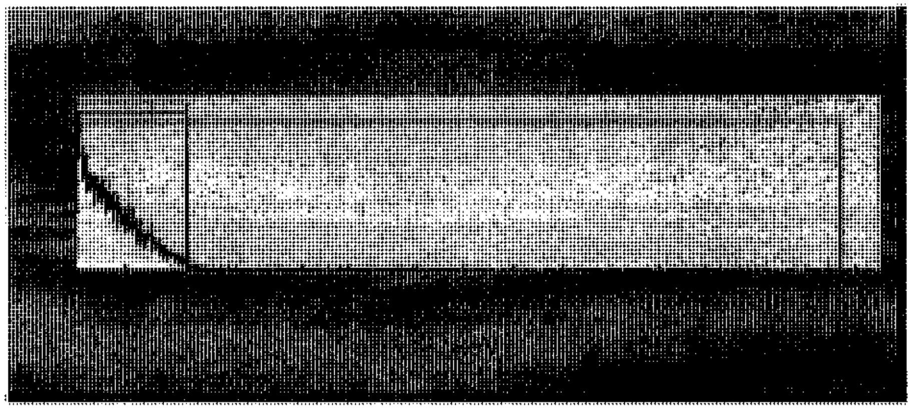
```
  11   5    1        60.00        474213D-14       163.34      166   183.03   332.66                2.08   0:00:13    3
10/26/2011   6:30:30 PM            98.14
```

SpectraView Block Data

```
  12   5    1        60.00        474214-14        159.10      162   185.68   331.38                2.10   0:00:14    3
10/26/2011   7:32:03 PM            98.09
```

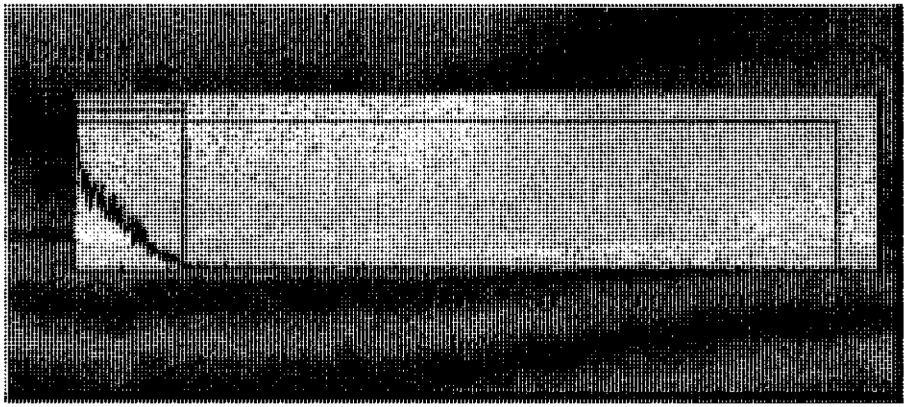
SpectraView Block Data

20111026_0915.results



```
  13    5    2        60.00        474214D-14       154.72      157    183.25    343.50             2.13    0:00:15     3
10/26/2011   8:33:40 PM           98.51
```

SpectraView Block Data

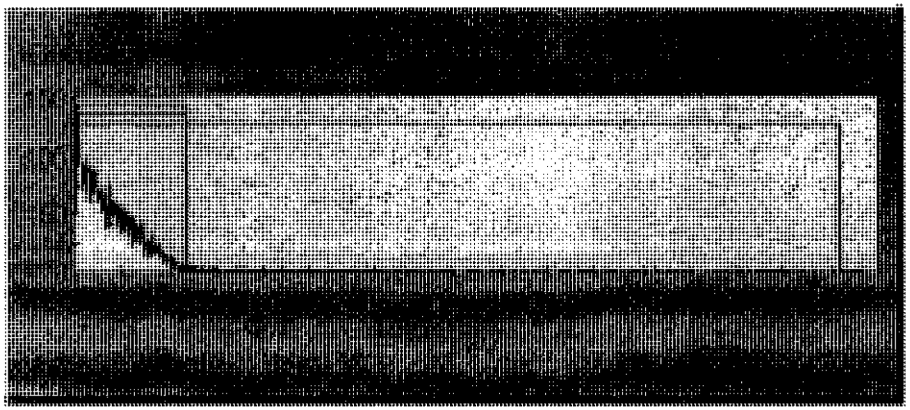


```
  14    5    2        60.00        474221-14        163.33      166    176.13    351.73             2.08    0:00:16     3
10/26/2011   9:35:15 PM           98.68
```

SpectraView Block Data

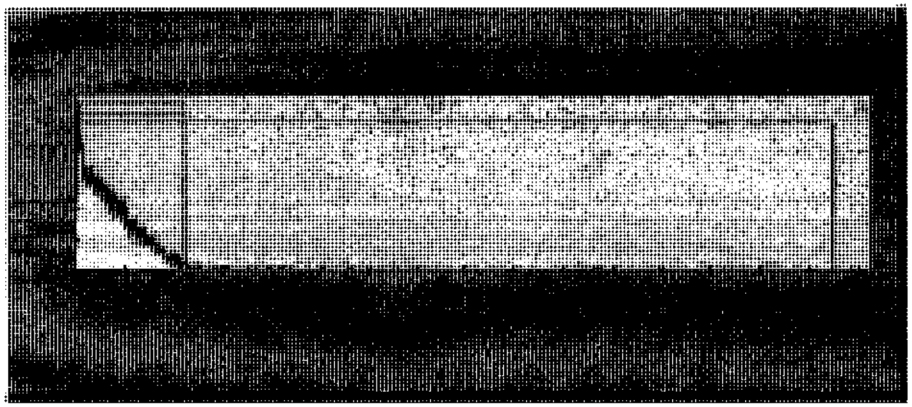
```
  15    5     2        60.00        474221D-14       162.32      165    184.45    343.63                2.08    0:00:17     3
10/26/2011  10:36:48 PM              98.52
```

SpectraView Block Data



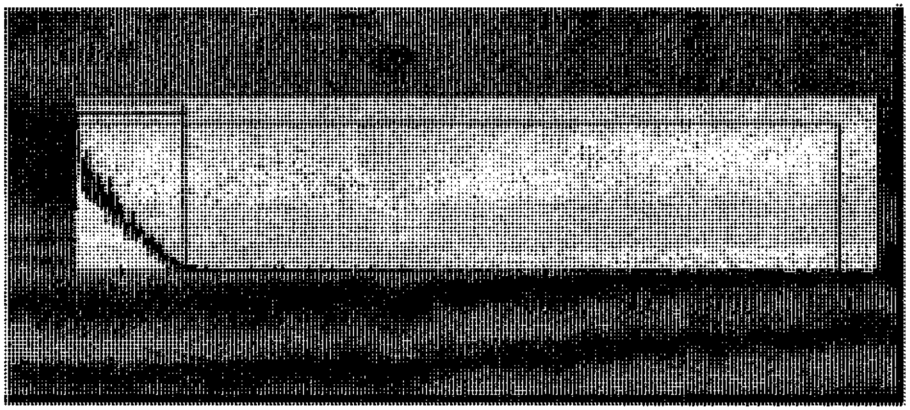
```
  16    5     2        60.00        474222-14        157.41      161    177.55    325.72                2.11    0:00:19     3
10/26/2011  11:38:21 PM             97.85
```

SpectraView Block Data



```
  17   5    2        60.00       474222D-14       156.45      159   183.48    345.91               2.12   0:00:20     3
10/27/2011  12:39:54 AM           98.56
```

SpectraView Block Data



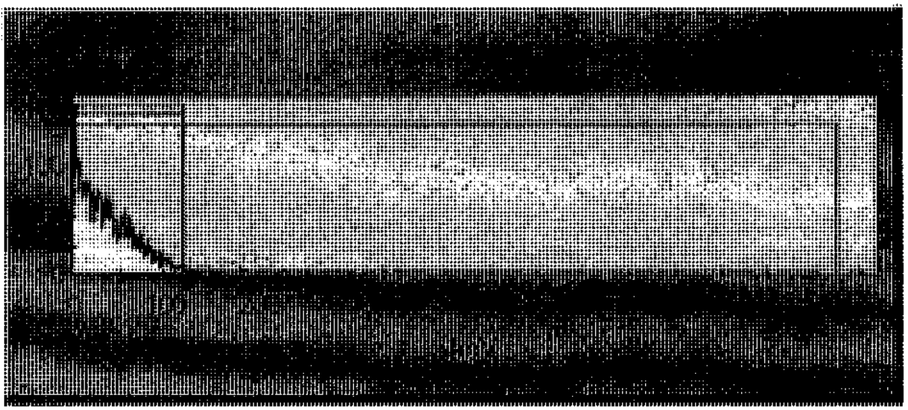
```
  18   5    2        60.00        474300-14       158.87      161   188.49    348.48               2.11   0:00:21     3
10/27/2011   1:41:28 AM           98.61
```

SpectraView Block Data

010104

```
  19    5     2         60.00         474300D-14        158.07       160    178.16    352.73                  2.11    0:00:22      3
10/27/2011    2:42:59 AM              98.70
```

SpectraView Block Data

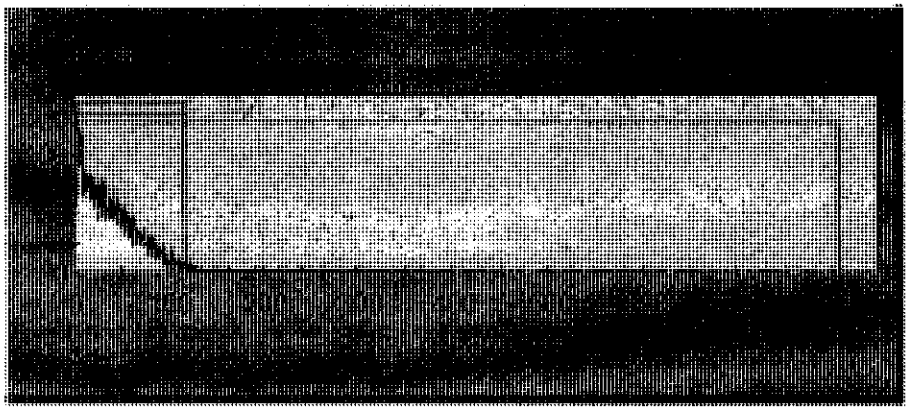


```
  20    5     2         60.00         474301-14         160.02       162    183.45    366.80                  2.10    0:00:23      3
10/27/2011    3:44:31 AM              98.99
```

SpectraView Block Data

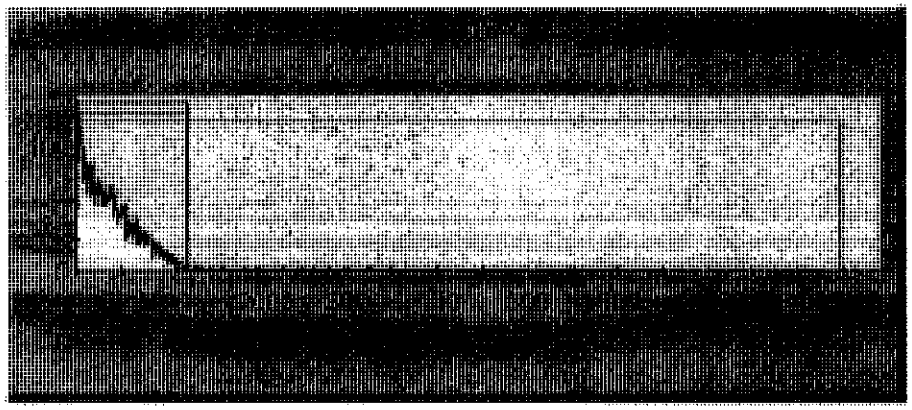
```
  21   5    2       60.00       474301D-14      160.15      163    183.95    342.37              2.10   0:00:25     3
10/27/2011   4:46:02 AM          98.49
```

SpectraView Block Data



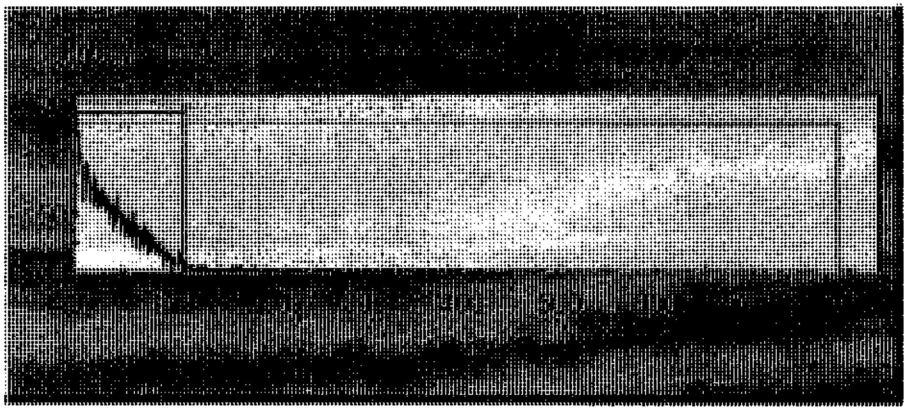
```
  22   5    2       60.00       474302-14       158.82      160    180.16    365.36              2.11   0:00:26     3
10/27/2011   5:47:33 AM          98.96
```

SpectraView Block Data



```
  23   5    2        60.00        474302D-14       159.17      162   183.97   332.55              2.10   0:00:27    3
10/27/2011   6:49:04 AM             98.14
```

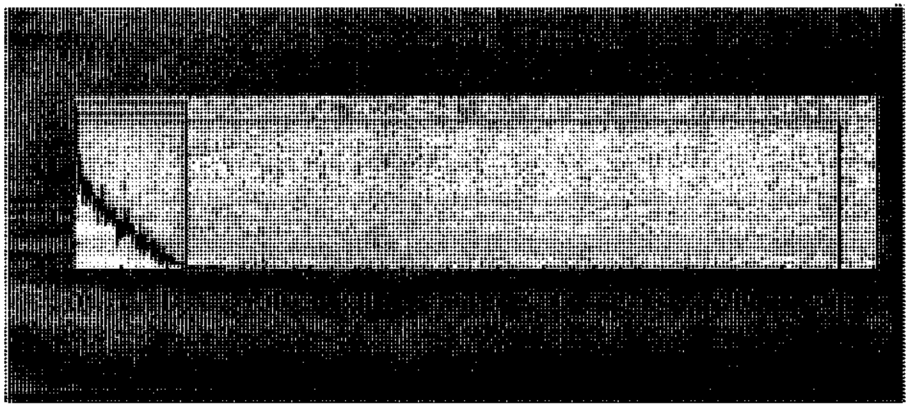
SpectraView Block Data



```
  24   5    2        60.00         474340-14       150.03      152   181.03   345.59              2.17   0:00:28    3
10/27/2011   7:50:36 AM             98.56
```

SpectraView Block Data

20111026_0915.results

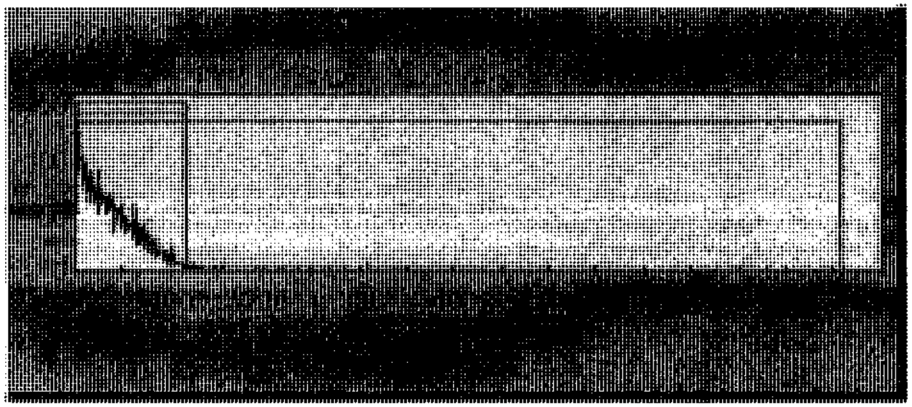


```
  25   5    6        60.00        474340D-14      153.68     155   185.85   361.78            2.14   0:00:29     3
10/27/2011   8:52:14 AM            98.89
```

SpectraView Block Data

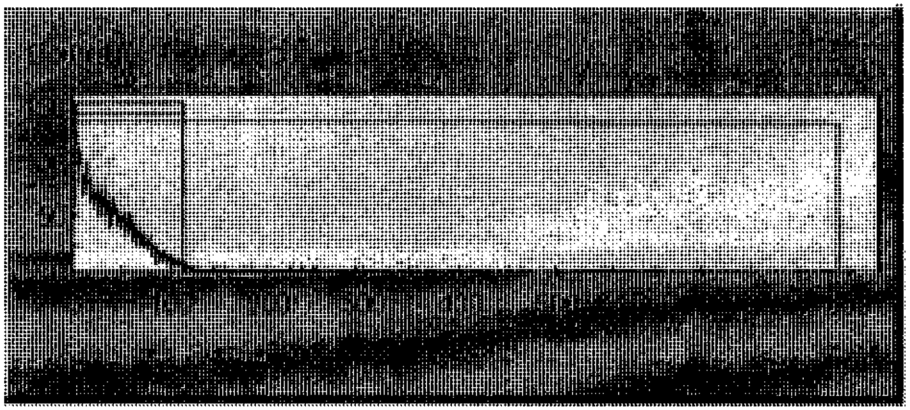
```
  26   5    6        60.00        474341-14       163.67     166   182.89   343.61            2.07   0:00:30     3
10/27/2011   9:53:50 AM           98.51
```

SpectraView Block Data



```
  27   5    6        60.00       474341D-14       162.23      165   175.68   334.15                 2.08   0:00:31     3
10/27/2011  10:55:22 AM           98.21
```

SpectraView Block Data

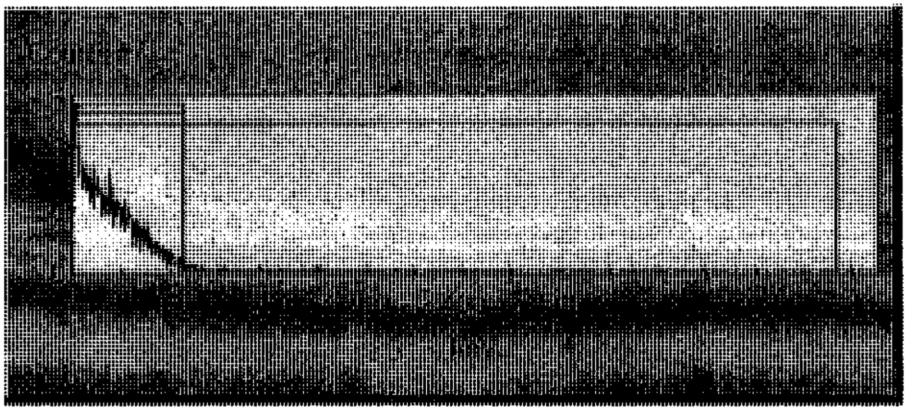


```
  28   5    6        60.00         474344-14      162.38      164   181.25   356.57                 2.08   0:00:33     3
10/27/2011  11:56:55 AM          98.78
```

SpectraView Block Data

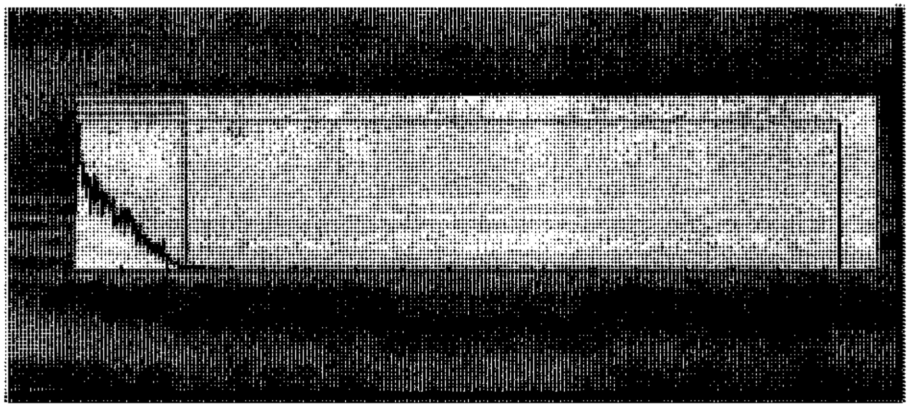
```
  29   5    6        60.00        474344D-14       160.50      164    185.89    330.59                  2.09    0:00:34     3
10/27/2011  12:58:27 PM            98.06
```

SpectraView Block Data



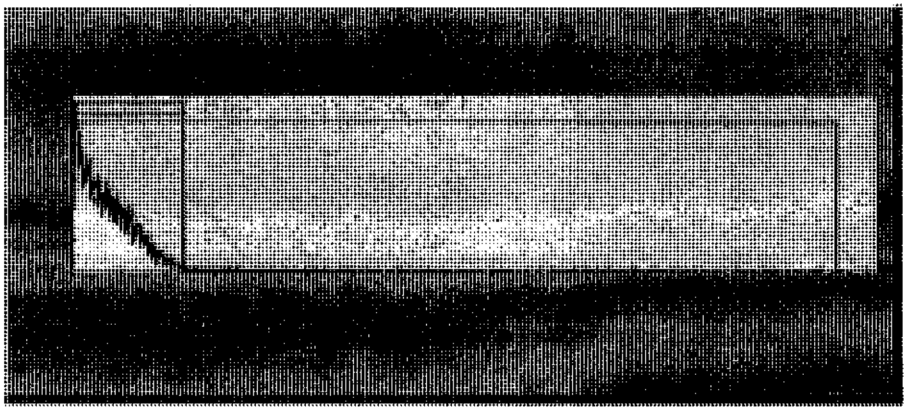
```
  30   5    6        60.00         474401-14       162.06      164    181.51    347.20                  2.08    0:00:35     3
10/27/2011   1:59:57 PM            98.59
```

SpectraView Block Data



```
  31   5    6        60.00        474401D-14      158.92      161    187.67    349.54              2.11   0:00:36     3
10/27/2011   3:01:28 PM            98.64
```

SpectraView Block Data



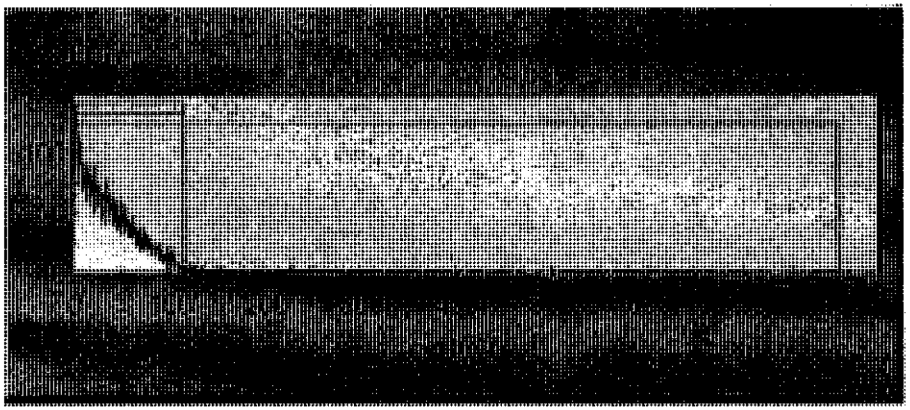
```
  32   5    6        60.00         474402-14      158.30      161    174.80    348.55              2.11   0:00:37     3
10/27/2011   4:03:00 PM            98.62
```

SpectraView Block Data

20111026_0915.results

```
  33   5    6         60.00       474402D-14      156.58      159   177.05   338.42             2.12   0:00:38    3
10/27/2011   5:04:32 PM            98.38
```

SpectraView Block Data



Southwest Research Institute, Division 1, Radiochemistry
LSC Bench Sheet
Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-243
Prep Date: 31-Oct-11
WAN √WL

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

Lab Id	Initial Sample Amount (L)	Digestion Final Volume (ml)	L/mL	Amount used for Column Sep. (mL)	Sample aliquot analyzed (L)	Total DF	No Tracer %Rec	No Tracer % error
PBWK31JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK31JV1	0.10	50.0	0.00200	50.0	0.100	10.00		
LCSWK31JV2	0.10	50.0	0.00200	50.0	0.100	10.00		
Blank-21	0.10	50.0	0.00200	50.0	0.100	10.00		
474212	0.10	50.0	0.00200	50.0	0.100	10.00		
474212D	0.10	50.0	0.00200	50.0	0.100	10.00		
474213	0.10	50.0	0.00200	50.0	0.100	10.00		
474213D	0.10	50.0	0.00200	50.0	0.100	10.00		
474214	0.10	50.0	0.00200	50.0	0.100	10.00		
474214D	0.10	50.0	0.00200	50.0	0.100	10.00		
474221	0.10	50.0	0.00200	50.0	0.100	10.00		
474221D	0.10	50.0	0.00200	50.0	0.100	10.00		
474222	0.10	50.0	0.00200	50.0	0.100	10.00		
474222D	0.10	50.0	0.00200	50.0	0.100	10.00		
474300	0.10	50.0	0.00200	50.0	0.100	10.00		
474300D	0.10	50.0	0.00200	50.0	0.100	10.00		
474301	0.10	50.0	0.00200	50.0	0.100	10.00		
474301D	0.10	50.0	0.00200	50.0	0.100	10.00		
474302	0.10	50.0	0.00200	50.0	0.100	10.00		
474302D	0.10	50.0	0.00200	50.0	0.100	10.00		
474340	0.10	50.0	0.00200	50.0	0.100	10.00		
474340D	0.10	50.0	0.00200	50.0	0.100	10.00		
474341	0.10	50.0	0.00200	50.0	0.100	10.00		
474341D	0.10	50.0	0.00200	50.0	0.100	10.00		
474344	0.10	50.0	0.00200	50.0	0.100	10.00		
474344D	0.10	50.0	0.00200	50.0	0.100	10.00		
474401	0.10	50.0	0.00200	50.0	0.100	10.00		
474401D	0.10	50.0	0.00200	50.0	0.100	10.00		
474402	0.10	50.0	0.00200	50.0	0.100	10.00		
474402D	0.10	50.0	0.00200	50.0	0.100	10.00		
	A	B	C	D	E	F		

Sample Calculations: C = (A / B) E = (C * D) F = (1 / E)

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-243
Prep Date: 31-Oct-11

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

Liquid Scintilliation Results

Lab Id	Analyte	Matrix	Time (m)	tSIE	Raw cpm	%error	dpm	eff-1	
BKG-1	Tc-99	Water	60	402.09	16.44	7.93	16.63	98.85	
BKG-2	Tc-99	Water	60	331.61	15.62	8.25	15.92	98.10	
				AVG BKG	16.03	AVG BKG	16.28		

		Matrix	Time	tSIE	cpm	%error	dpm	eff-1	Messages	Activity	TPU (1s)	MDC	Error (1s)	TV	%r	Bias
PBWK31JV1	Tc-99	Water	60	372.26	15.23	8.35	-0.81	98.98		-3.64E+00	3.29E+00	1.12E+01	3.28E+00		PB < 1.65*TPU	
LCSWK31JV1	Tc-99	Water	60	308.50	1109.41	0.78	1124.65	97.22		5.07E+03	2.93E+02	1.14E+01	2.01E+01	5000	101.3%	0.013
LCSWK31JV2	Tc-99	Water	60	383.52	1113.31	0.78	1109.15	98.93		5.00E+03	2.89E+02	1.12E+01	1.98E+01	5000	99.9%	-0.001
Blank-21	Tc-99	Water	60	396.87	179.02	1.98	164.84	98.88		7.43E+02	4.36E+01	1.12E+01	8.21E+00			
474212	Tc-99	Water	60	365.01	162.56	2.09	148.08	98.95		6.67E+02	3.93E+01	1.12E+01	7.85E+00	RPD	Dup Evaluation	
474212D	Tc-99	Water	60	399.36	159.38	2.11	144.99	98.87		6.53E+02	3.85E+01	1.12E+01	7.79E+00	2.11	0.25	Pass
474213	Tc-99	Water	60	346.97	164.05	2.07	150.15	98.58		6.76E+02	3.98E+01	1.12E+01	7.92E+00	RPD	Dup Evaluation	
474213D	Tc-99	Water	60	370.05	162.64	2.08	148.11	98.99		6.67E+02	3.93E+01	1.12E+01	7.85E+00	1.37	0.16	Pass
474214	Tc-99	Water	60	355.86	161.46	2.09	147.24	98.77		6.63E+02	3.90E+01	1.12E+01	7.84E+00	RPD	Dup Evaluation	
474214D	Tc-99	Water	60	385.41	157.76	2.12	143.28	98.92		6.45E+02	3.80E+01	1.12E+01	7.75E+00	2.73	0.33	Pass
474221	Tc-99	Water	60	378.23	161.32	2.09	146.83	98.95		6.61E+02	3.89E+01	1.12E+01	7.83E+00	RPD	Dup Evaluation	
474221D	Tc-99	Water	60	342.51	161.19	2.09	147.39	98.49		6.64E+02	3.91E+01	1.12E+01	7.86E+00	0.38	0.05	Pass
474222	Tc-99	Water	60	378.41	161.50	2.09	147.01	98.95		6.62E+02	3.90E+01	1.12E+01	7.83E+00	RPD	Dup Evaluation	
474222D	Tc-99	Water	60	369.94	160.53	2.10	145.97	98.99		6.58E+02	3.87E+01	1.12E+01	7.81E+00	0.71	0.09	Pass
474300	Tc-99	Water	60	387.87	156.30	2.13	141.82	98.91		6.39E+02	3.76E+01	1.12E+01	7.72E+00	RPD	Dup Evaluation	
474300D	Tc-99	Water	60	349.29	155.58	2.13	141.49	98.63		6.37E+02	3.76E+01	1.12E+01	7.72E+00	0.23	0.03	Pass
474301	Tc-99	Water	60	352.97	161.44	2.09	147.31	98.71		6.64E+02	3.91E+01	1.12E+01	7.85E+00	RPD	Dup Evaluation	
474301D	Tc-99	Water	60	356.59	158.49	2.11	144.22	98.78		6.50E+02	3.83E+01	1.12E+01	7.78E+00	2.12	0.25	Pass
474302	Tc-99	Water	60	356.56	158.78	2.11	144.51	98.78		6.51E+02	3.83E+01	1.12E+01	7.78E+00	RPD	Dup Evaluation	
474302D	Tc-99	Water	60	376.43	160.84	2.09	146.33	98.96		6.59E+02	3.88E+01	1.12E+01	7.82E+00	1.25	0.15	Pass
474340	Tc-99	Water	60	355.05	150.36	2.17	136.03	98.75		6.13E+02	3.61E+01	1.12E+01	7.60E+00	RPD	Dup Evaluation	
474340D	Tc-99	Water	60	365.32	146.42	2.20	131.76	98.96		5.94E+02	3.50E+01	1.12E+01	7.49E+00	3.19	0.38	Pass
474341	Tc-99	Water	60	365.45	158.61	2.11	144.08	98.96		6.49E+02	3.82E+01	1.12E+01	7.77E+00	RPD	Dup Evaluation	
474341D	Tc-99	Water	60	371.15	160.28	2.10	145.74	98.98		6.56E+02	3.86E+01	1.12E+01	7.80E+00	1.14	0.14	Pass
474344	Tc-99	Water	60	383.27	161.17	2.09	146.71	98.93		6.61E+02	3.89E+01	1.12E+01	7.82E+00	RPD	Dup Evaluation	
474344D	Tc-99	Water	60	399.25	163.30	2.08	148.95	98.87		6.71E+02	3.95E+01	1.12E+01	7.88E+00	1.52	0.18	Pass
474401	Tc-99	Water	60	355.21	161.30	2.09	147.11	98.75		6.63E+02	3.90E+01	1.12E+01	7.84E+00	RPD	Dup Evaluation	
474401D	Tc-99	Water	60	320.39	154.53	2.14	141.86	97.63		6.39E+02	3.77E+01	1.13E+01	7.78E+00	3.63	0.44	Pass
474402	Tc-99	Water	60	362.20	157.24	2.12	142.78	98.90		6.43E+02	3.79E+01	1.12E+01	7.74E+00	RPD	Dup Evaluation	
474402D	Tc-99	Water	60	346.63	154.55	2.14	140.52	98.58		6.33E+02	3.73E+01	1.12E+01	7.70E+00	1.60	0.19	Pass

Notes: Day #21 results.

Southwest Research Institute, Division 1, Radiochemistry

LSC Bench Sheet

Tc-99

Client: Fluor-B&W Portsmouth
Task Order: 110830-12, 110831-5, 110901-7, 110902-3
Prep Page: 12-243
Prep Date: 31-Oct-11

Project #: 16526.05.00X
SRR: 45547, 45562, 45570, 45578
RL: 20 pCi/L
Units: L

TPU Factors	%
Aliquot Amount	2.00%
Standards	5.00%
Quench Curve	0.50%
Sub Sampling	2%
TPU of net Counts	**5.77%**

Sample Calculations
dpm = cpm / (eff-1 / 100) - avg bkg dpm
Activity pCi/g = dpm * DF / 2.22 (dpm to pCi)
TPU pCi/L =SQRT(Counting Error^2+ (systematic TPU% /100) ^2*Sample Activity^2)
MDC pCi/g = (4.65*SQRT((AVG(bkg cpm))/time)/((Eff / 100)*Sample Amt)/2.22+3/(Eff /100*Sample Amt* Time))/ 2.22
Counting Error = SQRT(cpm/time + bkg cpm/bkg time)/ Sample Amount / (Eff/100 * 2.22)
(RPD) = Abs Value(Sample-Duplicate) / ((Sample + Duplicate) / 2) * 100
Duplicate Evaluation = (Sample-Duplicate) / sqrt ((TPUsample^2) + (TPUdup^2)) ≤ 3

010115

```
Assay Definition

Assay Description:

Assay Type: DPM (Single)
Report Name: Report1
Output Data Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111101_0951
Raw Results Path: C:\Packard\Tricarb\Results\Default\99tc_dpm\20111101_0951\20111101_0951.results
Assay File Name: C:\Packard\TriCarb\Assays\99tc_dpm.lsa


Count Conditions

Nuclide: 99tc
   Quench Indicator: tSIE/AEC
   External Std Terminator (sec): 10 sec
   Pre-Count Delay (min): 0.00
Quench Set:
   Low Energy: 99Tc
Count Time (min): 60.00
Count Mode: Normal
Assay Count Cycles: 1          Repeat Sample Count: 1
#Vials/Sample: 1               Calculate % Reference: Off


Background Subtract

Background Subtract: Off
Low CPM Threshold: Off
2 Sigma % Terminator: Off

Regions           LL       UL
A                0.0    292.0
B                0.0    292.0
C                0.0   2000.0


Count Corrections

Static Controller: On          Luminescence Correction: On
Colored Samples: On            Heterogeneity Monitor: Off
Coincidence Time (nsec): 18    Delay Before Burst (nsec): 75


Instrument Block Data
```

Fluor B&W Portsmouth
16526.05.00X
TO# 110830-12, 110831-5, 110901-7, 110902-3
12-217
WAN

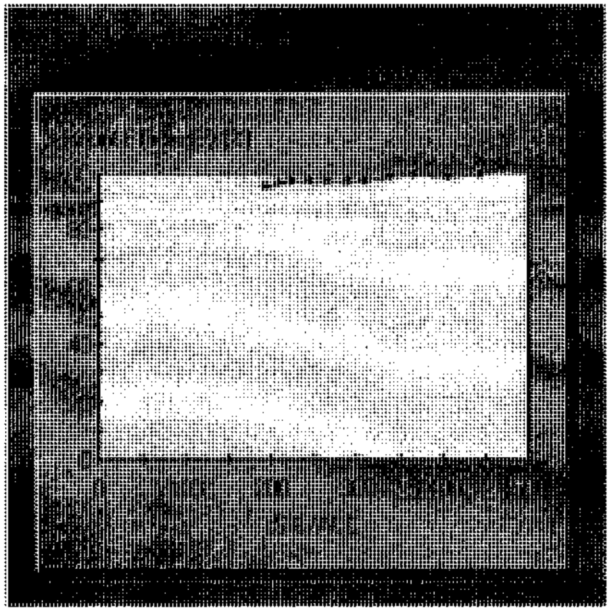
```
MODEL=Tri-Carb 3180TR/SL
VERSION=2.12
SERIAL=084368
```

IPA Block Data

```
Software Version IC: 2.12
Software Version EC: 3.00
Instrument Model: Tri-Carb 3180TR/SL
Instrument Serial Number: 084368
3H Chi Square: 15.47    Date Processed: 11/1/2011 9:37:00 AM
14C Chi Square: 22.26   Date Processed: 11/1/2011 9:37:00 AM
3H E^2/B (1-18.6 keV): 1536.52  Date Processed: 11/1/2011 9:37:00 AM
14C E^2/B (4-156 keV): 6056.23   Date Processed: 11/1/2011 9:37:00 AM
3H Efficiency (1-18.6 keV): 64.34  Date Processed: 11/1/2011 9:37:00 AM
14C Efficiency (4-156 keV): 93.24  Date Processed: 11/1/2011 9:37:00 AM
IPA Background Date Processed: 11/1/2011 9:37:00 AM
3H Background CPM (1-18.6 keV): 2.69  Date Processed: 11/1/2011 9:37:00 AM
14C Background CPM (4-156 keV): 1.44  Date Processed: 11/1/2011 9:37:00 AM
3H Calibration DPM: 281700
3H Reference Date: 6/27/2008
14C Calibration DPM: 123000
```

Cycle 1 Results

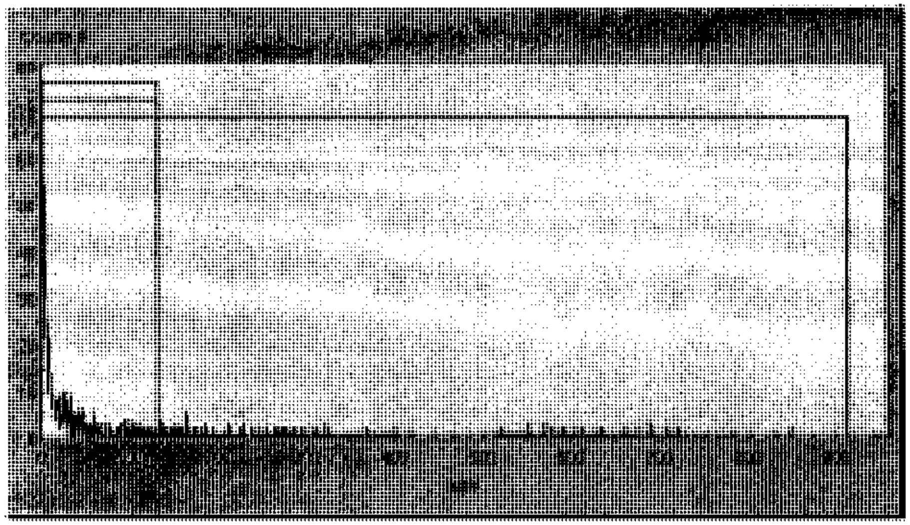
Quench Curve Block Data



```
Date Acquired: 02/15/2011
Date Modified:
99Tc in A

tSIE/AEC      Count Efficiency (%)
443.42        99.12
406.31        98.84
367.18        99.00
339.52        98.43
310.34        97.21
291.55        97.35
267.03        97.31
246.83        97.51
224.44        96.91
211.47        96.41
195.92        95.37
```

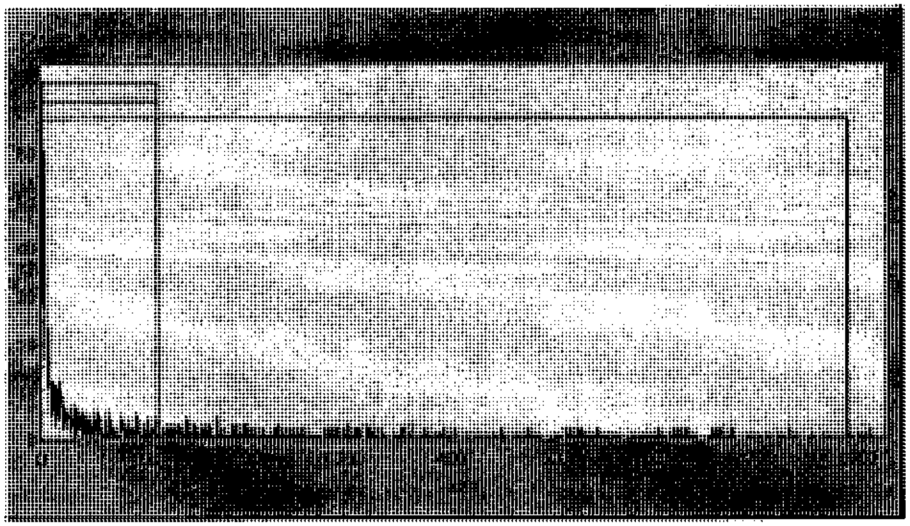
```
  S#  P#  PID  Count Time          SMPL ID        CPMA    DPM1      SIS     tSIE  MESSAGES  A:2S%    ELTIME  LUM
DATE           TIME  Eff Nucl In A
   1   5   1        60.00            Bkg-1        16.44      17   463.32   402.09              7.93   1:01:32   16
11/1/2011   9:52:18 AM          98.85
```

SpectraView Block Data



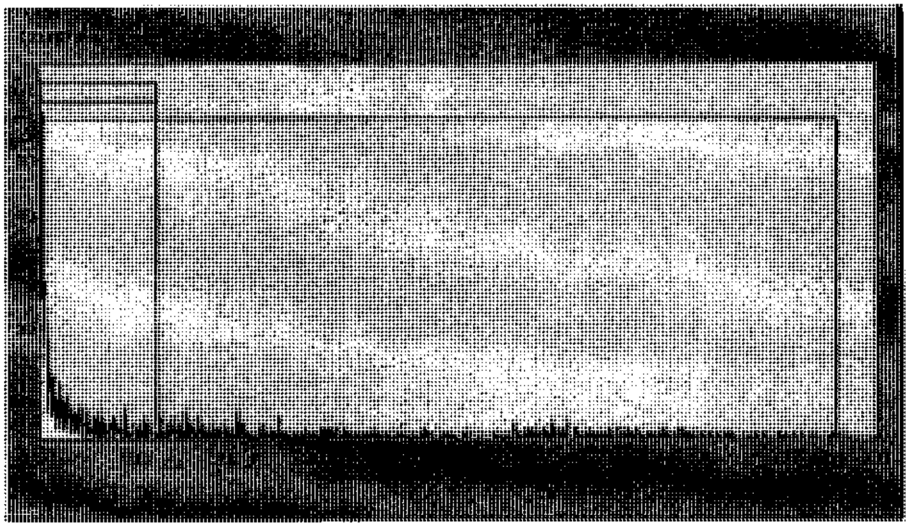
```
   2   5    1       60.00           Bkg-2       15.62      16   436.81   331.61            8.25   2:03:02   16
11/1/2011  10:53:50 AM          98.10
```

SpectraView Block Data



```
Missing vial 3.
   4   5    1      60.00        PBWK31JV1       15.23       15    495.75   372.26                8.35   3:04:33   16
11/1/2011  11:55:21 AM         98.98
```

SpectraView Block Data



```
   5    5     1         60.00        LCSWK31JV1      1109.41     1141    120.78    308.50                0.78    4:06:10     0
11/1/2011  12:56:51 PM               97.22
```

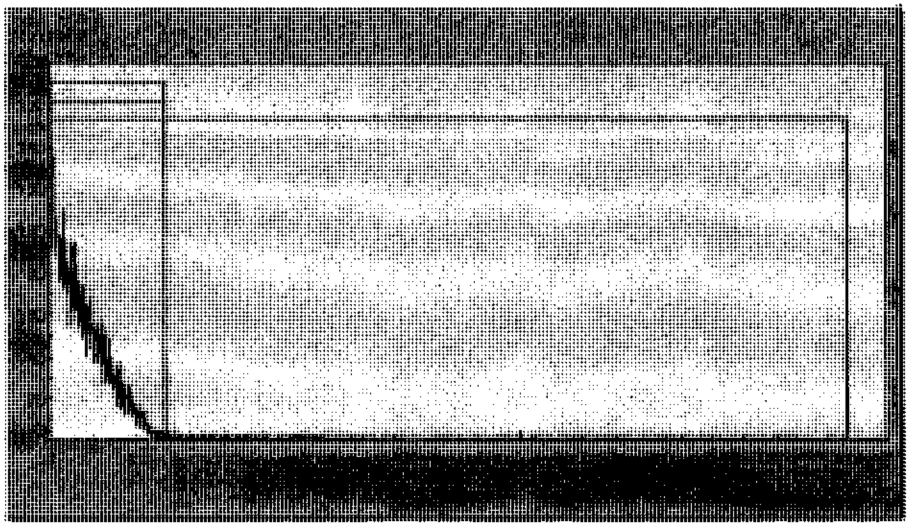
SpectraView Block Data

```
   6    5     1         60.00        LCSWK31JV2      1113.31     1125    136.34    383.52                0.78    5:07:44     0
11/1/2011   1:58:29 PM               98.93
```

SpectraView Block Data

```
  7   5    1       60.00    Blank Day #21      179.02     181   180.78   396.87            1.98   6:10:13    3
11/1/2011   3:00:02 PM         98.88
```

SpectraView Block Data

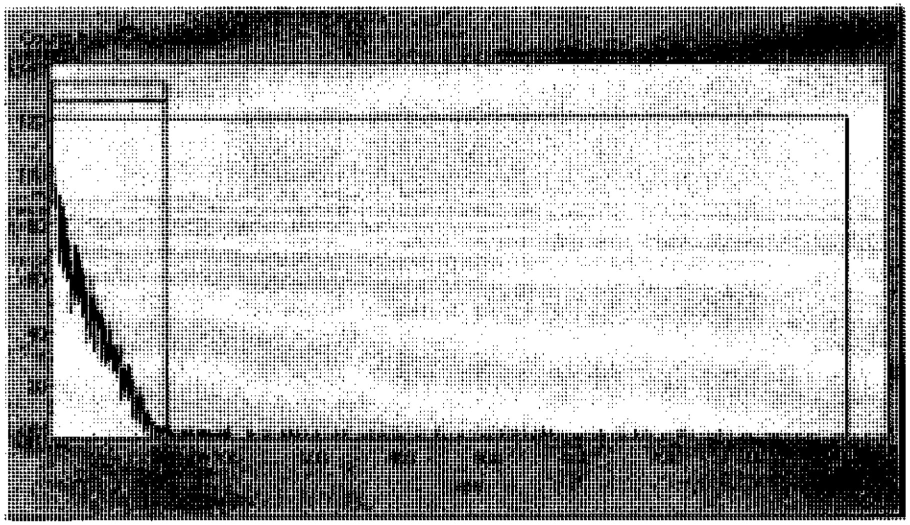


```
   8   5    1        60.00        474212 -21       162.56      164    186.50    365.01             2.09    7:12:43     3
11/1/2011   4:02:31 PM            98.95
```

SpectraView Block Data

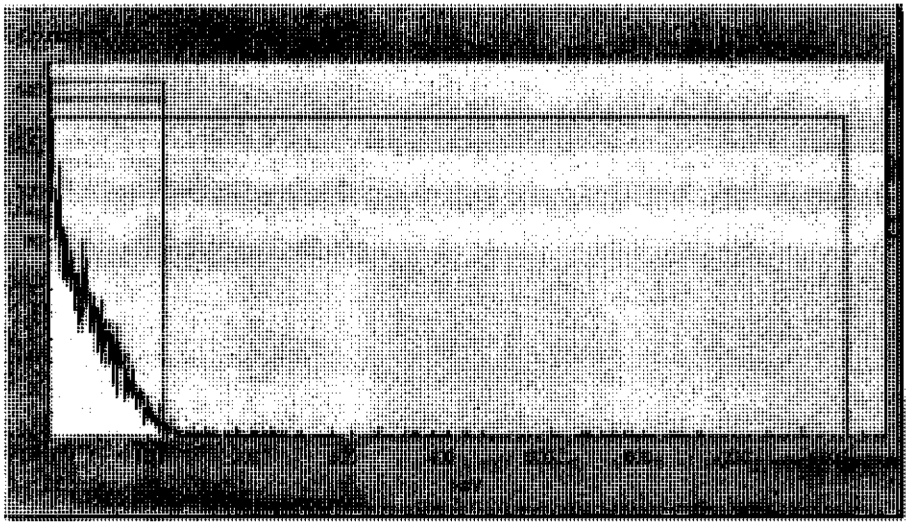
```
   9   5    1        60.00        474212D-21       159.38      161    185.70    399.36             2.11    8:15:12     3
11/1/2011   5:05:01 PM            98.87
```

SpectraView Block Data



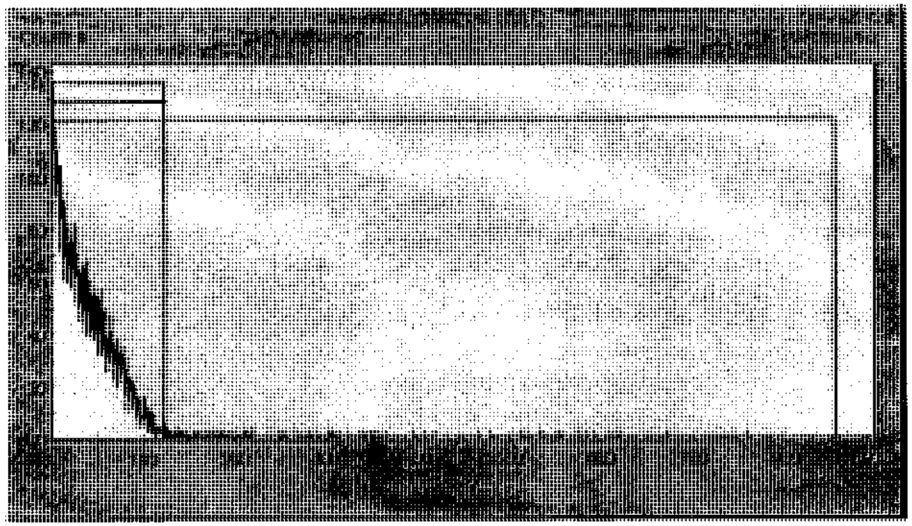
```
  10    5     1        60.00        474213-21       164.05      166   184.25    346.97             2.07   9:17:42    3
11/1/2011   6:07:30 PM            98.58
```

SpectraView Block Data



```
  11    5     1        60.00        474213D-21       162.64      164    186.88    370.05              2.08  10:20:08     3
11/1/2011   7:09:59 PM              98.99
```

SpectraView Block Data



```
  12    5     1        60.00         474214-21       161.46      163    188.10    355.86              2.09  11:22:35     3
11/1/2011   8:12:26 PM              98.77
```

SpectraView Block Data

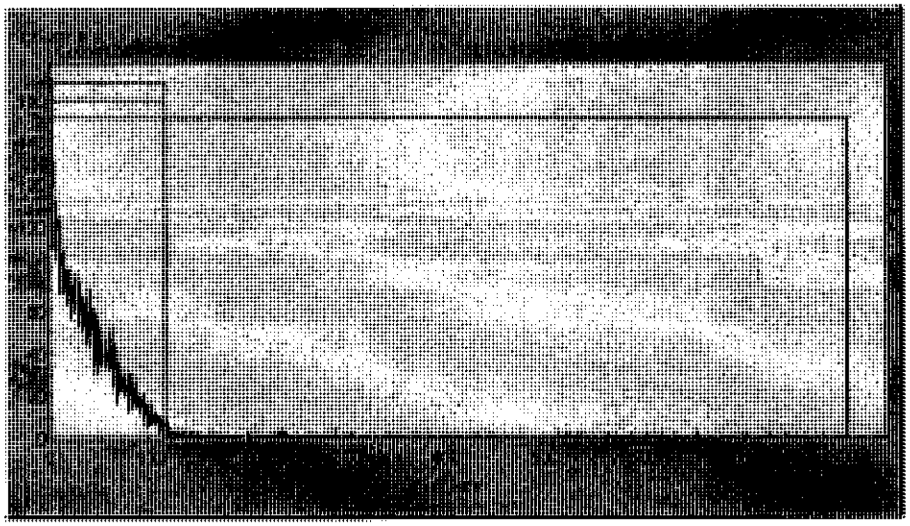
```
  13   5   14        60.00        474214D-21       157.76      159   186.26   385.41               2.12  12:25:08    3
11/1/2011    9:14:58 PM           98.92
```

SpectraView Block Data

010126

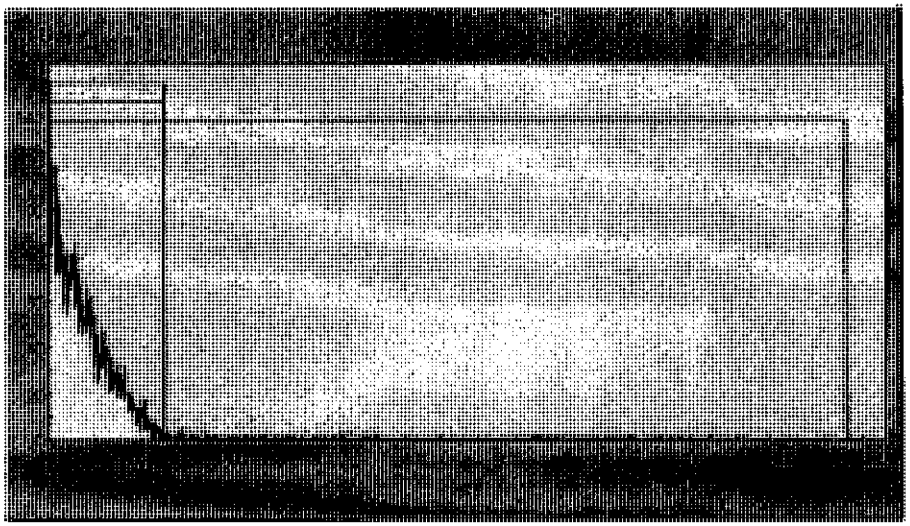
```
  14   5   14        60.00        474221-21       161.32      163    190.90    378.23              2.09  13:27:39     3
11/1/2011  10:17:27 PM          98.95

SpectraView Block Data
```

```
  15   5   14        60.00       474221D-21       161.19      164    182.18    342.51              2.09  14:30:05     3
11/1/2011  11:19:57 PM          98.49

SpectraView Block Data
```

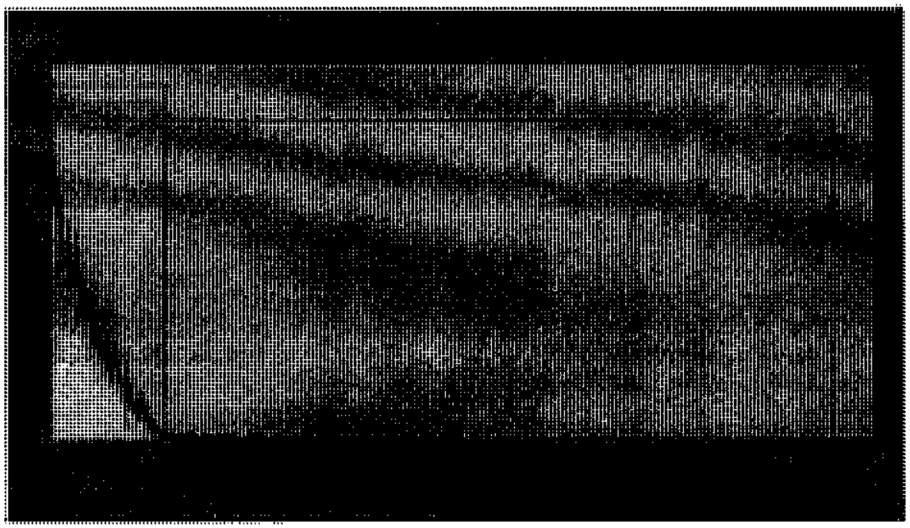


```
  16   5   14        60.00        474222-21       161.50      163    178.89    378.41              2.09  15:31:36    3
11/2/2011  12:22:23 AM             98.95
```

SpectraView Block Data



```
  17   5   14        60.00        474222D-21       160.53      162    179.56    369.94              2.10  16:33:58     3
11/2/2011   1:23:54 AM            98.99

SpectraView Block Data
```



```
  18   5   14        60.00         474300-21       156.30      158    183.73    387.87              2.13  17:36:17     3
11/2/2011   2:26:16 AM            98.91

SpectraView Block Data
```

```
  19   5   14       60.00       474300D-21       155.58      158    185.60    349.29              2.13  18:38:29     3
11/2/2011    3:28:35 AM           98.63
```

SpectraView Block Data

```
  20   5   14        60.00        474301-21        161.44      164    186.49    352.97              2.09  19:40:42     3
11/2/2011   4:30:47 AM           98.71
```

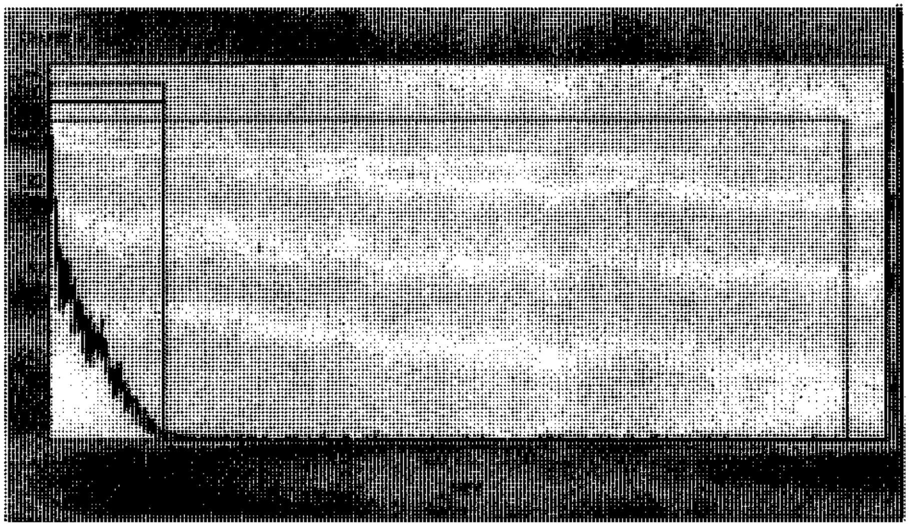
SpectraView Block Data

```
  21   5   14        60.00        474301D-21       158.49      160    184.57    356.59              2.11  20:42:40     3
11/2/2011   5:33:00 AM           98.78
```

SpectraView Block Data

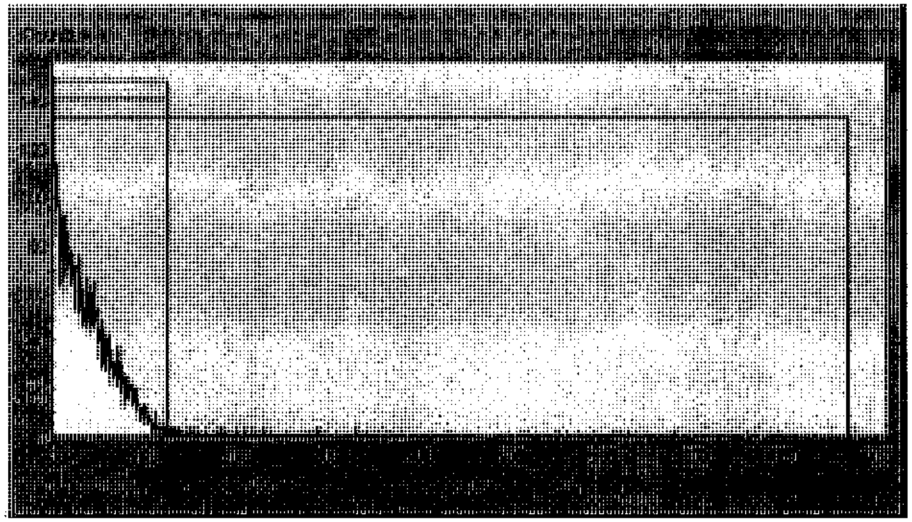
```
  22   5   14        60.00         474302-21      158.78     161   177.15   356.56              2.11  21:44:43    3
11/2/2011   6:34:59 AM            98.78
```

SpectraView Block Data



```
  23   5   14        60.00       474302D-21      160.84      163   180.86   376.43                2.09  22:46:35    3
11/2/2011   7:37:01 AM           98.96
```

SpectraView Block Data

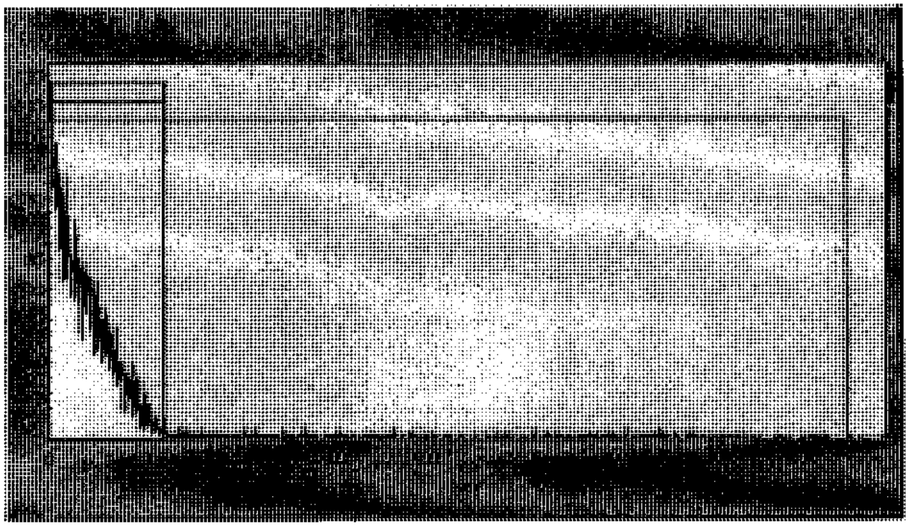


```
  24   5   14        60.00        474340-21      150.36      152   185.28   355.05                2.17  23:48:41    3
11/2/2011   8:38:52 AM           98.75
```

SpectraView Block Data

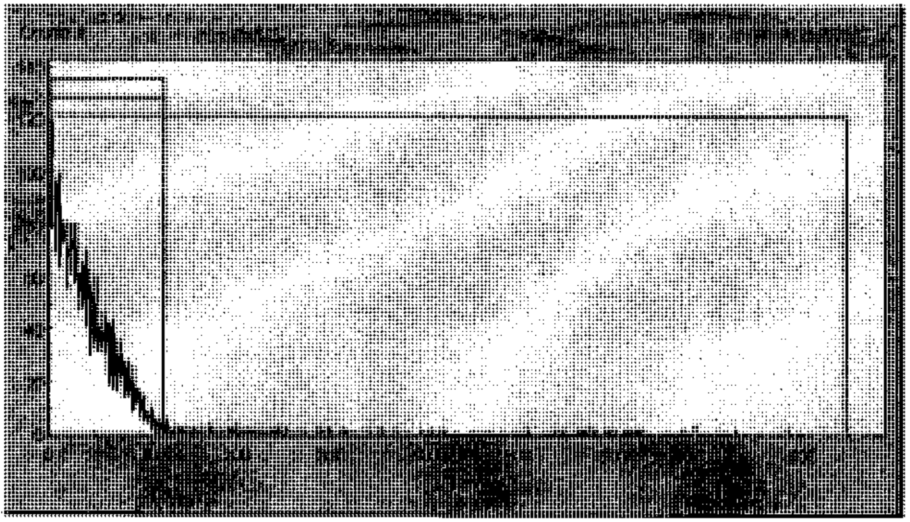
```
  25   5    6        60.00        474340D-21       146.42      148    190.02    365.32                2.20  24:50:54    3
11/2/2011   9:41:05 AM            98.96
```

SpectraView Block Data



```
  26    5     6          60.00          474341-21         158.61       160    184.94    365.45                2.11  25:52:48     3
11/2/2011  10:43:12 AM                 98.96
```

SpectraView Block Data

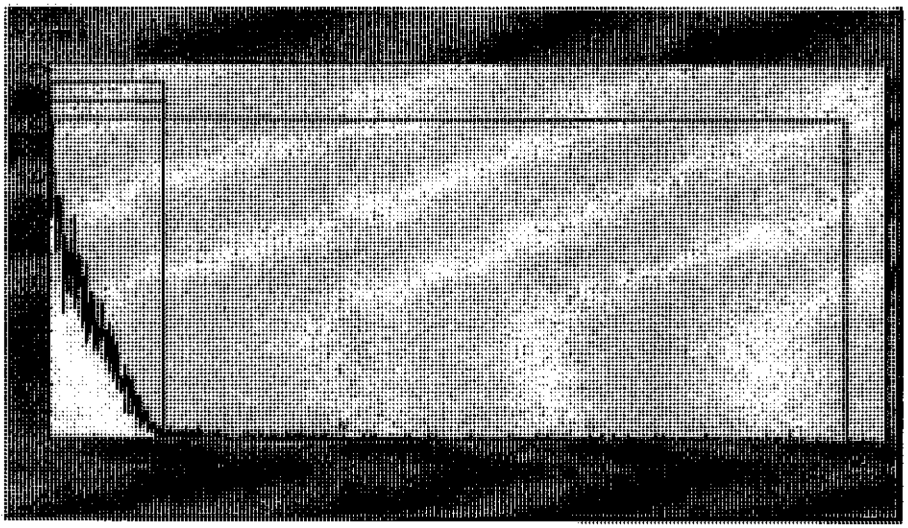


```
  27    5     6          60.00          474341D-21        160.28       162    181.58    371.15                2.10  26:54:39     3
11/2/2011  11:45:06 AM                 98.98
```

SpectraView Block Data

```
  28   5    6        60.00        474344-21      161.17      163   185.14   383.27                2.09  27:56:30    3
11/2/2011  12:46:57 PM            98.93
```

SpectraView Block Data

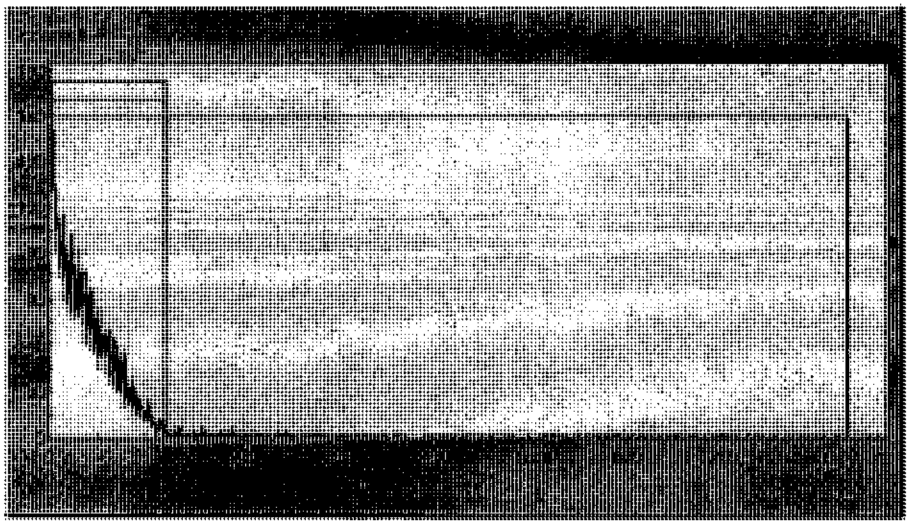


```
  29   5     6        60.00        474344D-21       163.30      165    186.28    399.25                 2.08   28:58:25     3
11/2/2011    1:48:48 PM            98.87
```

SpectraView Block Data

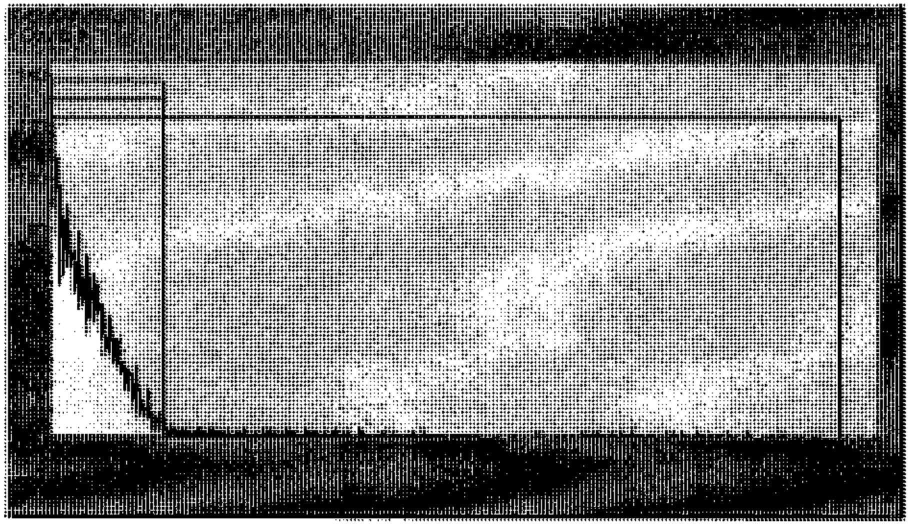
```
  30   5     6        60.00         474401-21       161.30      163    183.85    355.21                 2.09   30:00:21     3
11/2/2011    2:50:42 PM            98.75
```

SpectraView Block Data



```
  31   5    6        60.00       474401D-21       154.53      158   175.26    320.39             2.14  31:02:07    3
11/2/2011    3:52:39 PM          97.63
```

SpectraView Block Data



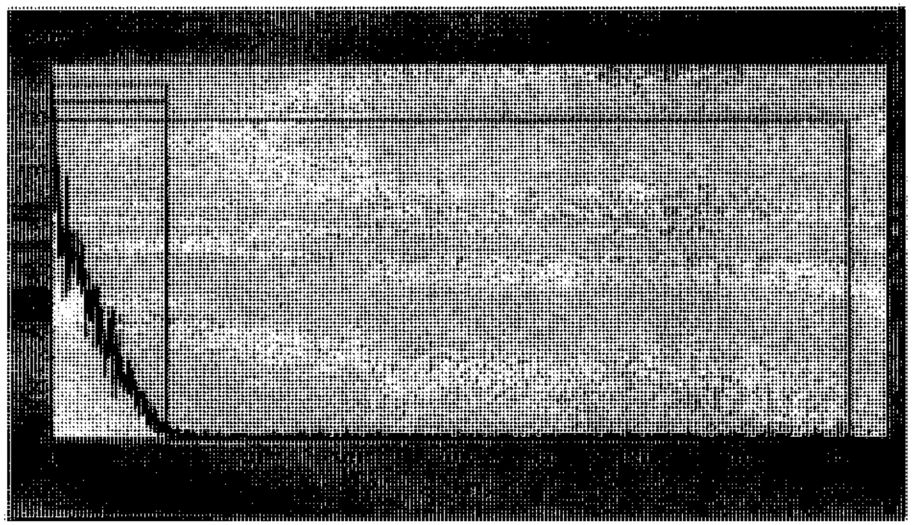
010138

```
  32   5     6         60.00         474402-21       157.24       159    182.88    362.20                2.12   32:03:49     3
11/2/2011    4:54:25 PM            98.90
```

SpectraView Block Data

```
  33   5     6         60.00         474402D-21      154.55       157    180.38    346.63                2.14   33:05:21     3
11/2/2011    5:56:07 PM            98.58
```

SpectraView Block Data



Tc99
Prep Logs

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D._11-0406-033

BOOK / PAGE:__12 00243___

CLIENT(S): FLUOR B&W PORTSMOUTH (KD DAY #21)
TASK ORDER(S): 110830-7, 110831-5, 110901-7, 110902-3 SDG(S): 474212, 45562
PROJECT NO(S): 16526.05.006
METHOD: TC 99
TAP: 01-041-099 REV. # 4
MATRIX: Water ✓ Soil ✓ Biota___ Solid___ Liquid___ TCLP Ext___ OTHER KD SOIL
INSTRUMENT: Gamma___ Alpha___ LSC ✓ GPC___ ICP/MS_________ OTHER_________
ACID INORG #: HNO_3# ✓ HCl#_____ H_2SO_4#_____ $HClO_4$#_____ HF#_____ H_2O_2# ✓ 9285
Tracer(s): N/A * 0.5mL OF TC 99, 038 RAD SOL 3 WAS SPIKED.
Oven/[✓ Hotplate]/ Block ID: # 4 Temperature (°C): 130°C

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1 PBWK31 JV1	100mL	50mL	㉗	474401	100mL	50mL
2 LCSWK31 JV1*			㉘	401 Dup.		
3 LCSWK31 JV2*			㉙	402		
4 BLANK DAY #21			㉚	↓ 402 Dup. ↓	↓	↓
5 474 212 (Day #21)						
6 212 Dup.			PIPETTES:	5000-	, 1100-	, 200
7 213						
8 213 Dup.						
9 214						
10 214 Dup.						
11 221						
12 221 Dup.						
13 222						
14 222 Dup.						
15 300						
16 300 Dup.						
17 301						
18 301 Dup.						
19 302						
20 302 Dup.						
21 340						
22 340 Dup.						
23 341						
24 341 Dup.						
25 344						
26 ↓ 344 Dup. ↓	↓	↓				

JW 10/31/11

PREPARED BY: JW DATE: 10/31/11
REVIEWED BY: DATE: 11.1.11
LOCATION: DISPOSAL:

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D._11-0406-033

BOOK / PAGE:__12 00238

CLIENT(S): FLUOR B&W PORTSMOUTH KD (DAY #14)
TASK ORDER(S): 110830-7, 110831-5, 110901-7, 110902-3 SDG(S): 474212, 45562
PROJECT NO(S): 16526.05.006
METHOD: Tc 99
TAP: 01-0411-049 REV. #4
MATRIX: Water ✓ Soil ✓ Biota___ Solid___ Liquid___ TCLP Ext___ OTHER KD SOIL
INSTRUMENT: Gamma___ Alpha___ LSC ✓ GPC___ ICP/MS___ OTHER___
ACID INORG #: HNO_3# ✓ 9387 HCl#___ H_2SO_4#___ $HClO_4$#___ HF#___ H_2O_2# ✓ 9295
Tracer(s): N/A * 0.5 mL of Tc 99 033 RAD SOL 3 WAS SPIKED
Oven/[✓ Hotplate]/ Block ID: #4 Temperature (°C): 130°C

	SAMPLE ID	ALIQUOT	FV. 1M HNO3		SAMPLE ID	ALIQUOT	FV 1M HNO3
1	PBWK24JV3	100mL	50mL	27	474401	100mL	50mL
2	LCSWK24JV4*	10/24/11		28	401 Dup		
3	LCSWK24JV5*			29	402		
4	BLANK DAY #14	JW		30	402 Dup.		
5	474212 (DAY #14)						
6	474212 Dup (DAY #14)				PIPETTES: 5000-A, 1000-M, 200-2		
7	474213						
8	213 Dup						
9	214						
10	214 Dup						
11	221						
12	221 Dup						
13	222						
14	222 Dup						
15	300						
16	300 Dup.						
17	301						
18	301 Dup.						
19	302						
20	302 Dup.						
21	340						
22	340 Dup.						
23	341						
24	341 Dup						
25	344						
26	344 Dup.						

JW 10/24/11

PREPARED BY: JW DATE: 10/24/11
REVIEWED BY: Wesley [illegible] DATE: 10.26.11
LOCATION: DISPOSAL:

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D._11-0406-033 BOOK / PAGE:__12 00223___

CLIENT(S): FLUOR B&W PORTSMOUTH (KD, DAY #10)

TASK ORDER(S): 110830-12, ~~1X~~, 110831-5, 110901-7, 110902-3 SDG(S): 474212, 455~~8~~62, 474212, 474212

PROJECT NO(S): 16526.05.006

METHOD: Tc 99

TAP: 01-0411-049 REV #4

MATRIX: Water ✓ Soil ✓ Biota___Solid___Liquid___TCLP Ext___OTHER "KD" SOIL

INSTRUMENT: Gamma___Alpha___LSC ✓ GPC___ICP/MS___OTHER___

ACID INORG #: HNO_3# ✓9388 HCl#___ H_2SO_4#___ $HClO_4$#___ HF#___ H_2O_2# ✓9023

Tracer(s): N/A

* 0.5mL of Tc99 038 RAD SOL.3. WAS SPIKED.

Oven/[✓ Hotplate]/ Block ID: #6 Temperature (°C): 130°C

SAMPLE ID	ALIQUOT (mL)	FV IN HNO3		SAMPLE ID	ALIQUOT	F.V. IN HNO3
1 PBWK1BTV1 1B	100mL	50mL		㉗ 474901 (DAY#10)	100mL	50mL
2 LCSWK1BTV1*				㉘ 401 Dup.		
3 LCSWK1BTV2*				㉙ 402		
4 BLANK DAY # 10				㉚ 402 Dup.		
5 474 212 (DAY#10)						
6 212 Dup.				PIPETTES: 5000-A,	1000-L,	200-K
7 213						
8 213 Dup.						
9 214						
10 214 Dup.						
11 221						
12 221 Dup.						
13 222						
14 222 Dup.						
15 300						
16 300 Dup.						
17 301						
18 301 Dup.						
19 302						
20 302 Dup.						
21 340						
22 340 Dup.						
23 341						
24 341 Dup.						
25 344						
26 344 Dup.						

10/18/11

PREPARED BY:_______ DATE: 10/18/11

REVIEWED BY:_______ DATE: 10/24/11

LOCATION:_______ DISPOSAL:_______

SOUTHWEST RESEARCH INSTITUTE
RADIOCHEMISTRY SAMPLE PREPARATION LOG

Book I.D._11-0406-033_________ BOOK / PAGE:__12 00222___

CLIENT(S): FLUOR B&W PORTSMOUTH (DAY #7, KD)
TASK ORDER(S): 110830-12, 110831-5, 110901-7, 110902-3 SDG(S): 474212, 45562
PROJECT NO(S): 16526.05.006
METHOD: TC-99
TAP: 01-0411-049 REV. #4 DJW RE 10/17/11
MATRIX: Water ✓ Soil ✓ Biota___ Solid___ Liquid___ TCLP Ext___ OTHER "KD" ~~Sold~~ SOIL
INSTRUMENT: Gamma___ Alpha___ LSC ✓ GPC___ ICP/MS_________ OTHER________
ACID INORG #: HNO_3# 9388 HCl#_______ H_2SO_4#_______ $HClO_4$#_______ HF#_______ H_2O_2# 9093
Tracer(s): N/A * 0.5mL TC 99 038 RAD SOL 3 WAS SPIKED
Oven/[✓ Hotplate]/ Block ID: #6 Temperature (°C): 130°C

	SAMPLE ID	ALIQUOT	W. 1M HNO_3		SAMPLE ID	ALIQUOT	F.V. 1M HNO_3
1	PBWK17JV1	100mL	50mL	(27)	474344 Dup.	100mL	50mL
2	LCSWK17JV1*	↓		(28)	474401		
3	LCSWK17JV2*	↓		(29)	401 Dup.		
4	BLANK DAY Ø **	50mL **		(30)	402		
5	BLANK H2O DAY #7	100mL		(31)	↓ 402 Dup.	↓	↓
6	474 212 (DAY #7)						
7	212 Dup.						
8	213						
9	213 Dup.						
10	214						
11	214 Dup.						
12	221						
13	221 Dup.						
14	↓ 222						
15	474 222 Dup.						
16	474 300						
17	300 Dup.						
18	301						
19	301 Dup.						
20	302						
21	302 Dup.						
22	340						
23	340 Dup.						
24	341						
25	341 Dup.						
26	↓ 344	↓	↓	↓	PIPETTES: 5000-A, 1000-M, 200-L		

NOTE: 50% OF SAMPLE BLANK DAY Ø WAS "LOST" DURING COLUMN CLEAN-UP.

PREPARED BY: DJW DATE: 10/17/11
REVIEWED BY: DATE: 10/24/11
LOCATION: DISPOSAL:

ICPMS Total U Data for Distribution Coefficient

Fluor
16526.0S.006
110830-12/110831-5/110901-7/110902-3
1S_00146-15_001S2

10/31/11

474212d7
for tot U

23910.2 ng/L x df 4 = 95640.8 ng/L
= 95600 ng/L

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
icv	U-tot	7730			ng/L	40		100.8%	7670		40	7733.8213	7730	1	40	7733.8213	10/28/11	11:49 AM
icv	U233 IS	101			%R	0.5					0.5	100.60169	101	1	0.5	100.60169	10/28/11	11:49 AM
icb	U-tot	40.0	U		ng/L	40					40	-6.96812	-6.97	1	40	-6.96812	10/28/11	11:51 AM
icb	U233 IS	100			%R	0.5					0.5	100.32264	100	1	0.5	100.32264	10/28/11	11:51 AM
critotU	U-tot	40.0	U		ng/L	40		82.5%	40.0		40	33.0075	33	1	40	33.0075	10/28/11	11:53 AM
critotU	U233 IS	103			%R	0.5					0.5	102.89513	103	1	0.5	102.89513	10/28/11	11:53 AM
icsa	U-tot	40.0	U		ng/L	40			0		40	0.64052	0.641	1	40	0.64052	10/28/11	11:56 AM
icsa	U233 IS	102			%R	0.5					0.5	101.54348	102	1	0.5	101.54348	10/28/11	11:56 AM
icsab	U-tot	20400			ng/L	40		100.0%	20400		40	20353.58874	20400	1	40	20353.58874	10/28/11	11:58 AM
icsab	U233 IS	109			%R	0.5					0.5	109.11281	109	1	0.5	109.11281	10/28/11	11:58 AM
zzz	U-tot	40.0	U		ng/L	40					40	-13.22961	-13.2	1	40	-13.22961	10/28/11	12:01 PM
zzz	U233 IS	107			%R	0.5					0.5	107.15942	107	1	0.5	107.15942	10/28/11	12:01 PM
ccv	U-tot	7710			ng/L	40		100.5%	7670		40	7713.67203	7710	1	40	7713.67203	10/28/11	12:03 PM
ccv	U233 IS	114			%R	0.5					0.5	114.45858	114	1	0.5	114.45858	10/28/11	12:03 PM
ccb	U-tot	40.0	U		ng/L	40					40	-10.52386	-10.5	1	40	-10.52386	10/28/11	12:05 PM
ccb	U233 IS	107			%R	0.5					0.5	106.92396	107	1	0.5	106.92396	10/28/11	12:05 PM
Blankd0	U-tot	102000			ng/L	160				6903	40	102257.4628	102000	4	160	25564.36569	10/28/11	12:08 PM
Blankd0	U233 IS	107			%R	0.5					0.5	107.18557	107	4	0.5	107.18557	10/28/11	12:08 PM
Blankd7	U-tot	103000			ng/L	160				6973	40	103291.3256	103000	4	160	25822.83139	10/28/11	12:10 PM
Blankd7	U233 IS	106			%R	0.5					0.5	105.69438	106	4	0.5	105.69438	10/28/11	12:10 PM
474212d7	U-tot	95600	✓		ng/L	160				6456	40	95640.67756	95600	4	160	23910.16939	10/28/11	12:12 PM
474212d7	U233 IS	105			%R	0.5					0.5	104.88338	105	4	0.5	104.88338	10/28/11	12:12 PM
474212d7d	U-tot	95100			ng/L	160	0.5%			6421	40	95122.28912	95100	4	160	23780.57228	10/28/11	12:14 PM
474212d7d	U233 IS	104			%R	0.5					0.5	104.29911	104	4	0.5	104.29911	10/28/11	12:14 PM
474213d7	U-tot	76200			ng/L	160				5142	40	76173.1766	76200	4	160	19043.29415	10/28/11	12:17 PM
474213d7	U233 IS	103			%R	0.5					0.5	102.51143	103	4	0.5	102.51143	10/28/11	12:17 PM
474213d7d	U-tot	74600			ng/L	160	2.1%			5033	40	74552.85888	74600	4	160	18638.21472	10/28/11	12:19 PM
474213d7d	U233 IS	102			%R	0.5					0.5	102.24983	102	4	0.5	102.24983	10/28/11	12:19 PM
474214d7	U-tot	34000			ng/L	40				2292	40	33953.24136	34000	1	40	33953.24136	10/28/11	12:21 PM
474214d7	U233 IS	102			%R	0.5					0.5	102.47656	102	1	0.5	102.47656	10/28/11	12:21 PM
474214d7d	U-tot	31600			ng/L	40	7.3%			2132	40	31585.22379	31600	1	40	31585.22379	10/28/11	12:24 PM
474214d7d	U233 IS	103			%R	0.5					0.5	102.93873	103	1	0.5	102.93873	10/28/11	12:24 PM
zzz	U-tot	40.0	U		ng/L	40					40	-6.01212	-6.01	1	40	-6.01212	10/28/11	12:26 PM
zzz	U233 IS	102			%R	0.5					0.5	102.41551	102	1	0.5	102.41551	10/28/11	12:26 PM
critotU	U-tot	40.0	U		ng/L	40		77.9%	40.0		40	31.16525	31.2	1	40	31.16525	10/28/11	12:28 PM
critotU	U233 IS	106			%R	0.5					0.5	106.12168	106	1	0.5	106.12168	10/28/11	12:28 PM
ccv	U-tot	7930			ng/L	40		103.4%	7670		40	7929.63502	7930	1	40	7929.63502	10/28/11	12:31 PM
ccv	U233 IS	108			%R	0.5					0.5	108.34541	108	1	0.5	108.34541	10/28/11	12:31 PM
ccb	U-tot	40.0	U		ng/L	40					40	-7.07225	-7.07	1	40	-7.07225	10/28/11	12:33 PM
ccb	U233 IS	104			%R	0.5					0.5	103.81077	104	1	0.5	103.81077	10/28/11	12:33 PM
474221d7	U-tot	56000			ng/L	160				3780	40	55983.18768	56000	4	160	13995.79692	10/28/11	12:36 PM

√RSPWS 10/31/11

Y:\METALS\Nicholle\Fluor\Fluor 110830(12) 110831(5) 110901(7) 110902(3) d7

Fluor
16526.05.006
110830-12/110831-5/110901-7/110902-3
15_00146-15_00152

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
474221d7	U233 IS	102			%R	0.5					0.5	101.99693	102	4	0.5	101.99693	10/28/11	12:36 PM
474221d7d	U-tot	54700			ng/L	160	2.3%			3695	40	54729.72736	54700	4	160	13682.43184	10/28/11	12:38 PM
474221d7d	U233 IS	104			%R	0.5					0.5	104.45608	104	4	0.5	104.45608	10/28/11	12:38 PM
474222d7	U-tot	53700			ng/L	160				3623	40	53655.09652	53700	4	160	13413.77413	10/28/11	12:40 PM
474222d7	U233 IS	104			%R	0.5					0.5	103.84565	104	4	0.5	103.84565	10/28/11	12:40 PM
474222d7d	U-tot	51200			ng/L	160	4.8%			3459	40	51236.20408	51200	4	160	12809.05102	10/28/11	12:42 PM
474222d7d	U233 IS	104			%R	0.5					0.5	103.95029	104	4	0.5	103.95029	10/28/11	12:42 PM
474300d7	U-tot	88600			ng/L	160				5981	40	88594.11392	88600	4	160	22148.52848	10/28/11	12:45 PM
474300d7	U233 IS	104			%R	0.5					0.5	104.25551	104	4	0.5	104.25551	10/28/11	12:45 PM
474300d7d	U-tot	87600			ng/L	160	1.1%			5916	40	87641.39168	87600	4	160	21910.34792	10/28/11	12:47 PM
474300d7d	U233 IS	101			%R	0.5					0.5	100.93306	101	4	0.5	100.93306	10/28/11	12:47 PM
474301d7	U-tot	83300			ng/L	160				5623	40	83288.80968	83300	4	160	20822.20242	10/28/11	12:49 PM
474301d7	U233 IS	104			%R	0.5					0.5	104.14215	104	4	0.5	104.14215	10/28/11	12:49 PM
474301d7d	U-tot	80100			ng/L	160	3.9%			5410	40	80142.6776	80100	4	160	20035.6694	10/28/11	12:52 PM
474301d7d	U233 IS	105			%R	0.5					0.5	105.46765	105	4	0.5	105.46765	10/28/11	12:52 PM
zzz	U-tot	40.0	U		ng/L	40					40	-1.80082	-1.8	1	40	-1.80082	10/28/11	12:54 PM
zzz	U233 IS	106			%R	0.5					0.5	106.25248	106	1	0.5	106.25248	10/28/11	12:54 PM
critotU	U-tot	40.0	U		ng/L	40		86.1%	40.0		40	34.45912	34.5	1	40	34.45912	10/28/11	12:56 PM
critotU	U233 IS	108			%R	0.5					0.5	107.76985	108	1	0.5	107.76985	10/28/11	12:56 PM
ccv	U-tot	7840			ng/L	40		102.2%	7670		40	7840.15979	7840	1	40	7840.15979	10/28/11	12:59 PM
ccv	U233 IS	111			%R	0.5					0.5	110.74357	111	1	0.5	110.74357	10/28/11	12:59 PM
ccb	U-tot	40.0	U		ng/L	40					40	-7.94937	-7.95	1	40	-7.94937	10/28/11	1:01 PM
ccb	U233 IS	108			%R	0.5					0.5	107.88321	108	1	0.5	107.88321	10/28/11	1:01 PM
474302d7	U-tot	79200			ng/L	160				5348	40	79215.50168	79200	4	160	19803.87542	10/28/11	1:04 PM
474302d7	U233 IS	102			%R	0.5					0.5	102.24111	102	4	0.5	102.24111	10/28/11	1:04 PM
474302d7d	U-tot	82700			ng/L	160	4.3%			5586	40	82742.63968	82700	4	160	20685.65992	10/28/11	1:06 PM
474302d7d	U233 IS	100			%R	0.5					0.5	100.218	100	4	0.5	100.218	10/28/11	1:06 PM
474340d7	U-tot	6080			ng/L	40				411	40	6084.08962	6080	1	40	6084.08962	10/28/11	1:08 PM
474340d7	U233 IS	96.8			%R	0.5					0.5	96.7561	96.8	1	0.5	96.7561	10/28/11	1:08 PM
474340d7d	U-tot	5850			ng/L	40	3.9%			395	40	5845.54035	5850	1	40	5845.54035	10/28/11	1:10 PM
474340d7d	U233 IS	97.4			%R	0.5					0.5	97.4101	97.4	1	0.5	97.4101	10/28/11	1:10 PM
474341d7	U-tot	67000			ng/L	160				4522	40	66985.36484	67000	4	160	16746.34121	10/28/11	1:13 PM
474341d7	U233 IS	109			%R	0.5					0.5	108.58086	109	4	0.5	108.58086	10/28/11	1:13 PM
474341d7d	U-tot	65700			ng/L	160	2.0%			4436	40	65706.61356	65700	4	160	16426.65339	10/28/11	1:15 PM
474341d7d	U233 IS	111			%R	0.5					0.5	111.20576	111	4	0.5	111.20576	10/28/11	1:15 PM
474344d7	U-tot	54600			ng/L	160				3686	40	54587.57524	54600	4	160	13646.89381	10/28/11	1:17 PM
474344d7	U233 IS	109			%R	0.5					0.5	109.25235	109	4	0.5	109.25235	10/28/11	1:17 PM
474344d7d	U-tot	51000			ng/L	160	6.8%			3442	40	50978.31924	51000	4	160	12744.57981	10/28/11	1:20 PM
474344d7d	U233 IS	109			%R	0.5					0.5	109.31338	109	4	0.5	109.31338	10/28/11	1:20 PM
zzz	U-tot	40.0	U		ng/L	40					40	-4.38188	-4.38	1	40	-4.38188	10/28/11	1:22 PM
zzz	U233 IS	111			%R	0.5					0.5	110.98774	111	1	0.5	110.98774	10/28/11	1:22 PM

010148

Fluor
16526.05.006
110830-12/110831-5/110901-7/110902-3
1S_00146-1S_001S2

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
critotU	U-tot	40.0	U		ng/L	40		88.8%	40.0		40	35.51525	35.5	1	40	35.51525	10/28/11	1:24 PM
critotU	U233 I5	113			%R	0.5					0.5	113.35976	113	1	0.5	113.35976	10/28/11	1:24 PM
ccv	U-tot	7880			ng/L	40		102.7%	7670		40	7875.02474	7880	1	40	7875.02474	10/28/11	1:27 PM
ccv	U233 IS	115			%R	0.5					0.5	115.05159	115	1	0.5	115.05159	10/28/11	1:27 PM
ccb	U-tot	40.0	U		ng/L	40					40	-9.93553	-9.94	1	40	-9.93553	10/28/11	1:29 PM
ccb	U233 IS	113			%R	0.5					0.5	113.04581	113	1	0.5	113.04581	10/28/11	1:29 PM
474401d7	U-tot	71100			ng/L	160				4803	40	71149.14592	71100	4	160	17787.28648	10/28/11	1:31 PM
474401d7	U233 IS	108			%R	0.5					0.5	108.06635	108	4	0.5	108.06635	10/28/11	1:31 PM
474401d7d	U-tot	67100			ng/L	160	5.8%			4527	40	67062.79628	67100	4	160	16765.69907	10/28/11	1:34 PM
474401d7d	U233 IS	106			%R	0.5					0.5	105.91238	106	4	0.5	105.91238	10/28/11	1:34 PM
474402d7	U-tot	38300			ng/L	80				2584	40	38270.29106	38300	2	80	19135.14553	10/28/11	1:36 PM
474402d7	U233 IS	104			%R	0.5					0.5	104.17702	104	2	0.5	104.17702	10/28/11	1:36 PM
474402d7L	U-tot	37700			ng/L	400	1.6%			2551	40	37680.2283	37700	10	400	3768.02283	10/28/11	1:38 PM
474402d7L	U233 IS	109			%R	0.5					0.5	109.18257	109	10	0.5	109.18257	10/28/11	1:38 PM
474402d7D	U-tot	33800			ng/L	80	12.5%			2279	40	33758.6654	33800	2	80	16879.3327	10/28/11	1:41 PM
474402d7D	U233 IS	107			%R	0.5					0.5	106.68851	107	2	0.5	106.68851	10/28/11	1:41 PM
474402d7AS	U-tot	77800			ng/L	80		96.6%	40900	5252	40	77804.79054	77800	2	80	38902.39527	10/28/11	1:43 PM
474402d7AS	U233 IS	106			%R	0.5					0.5	106.24377	106	2	0.5	106.24377	10/28/11	1:43 PM
zzz	U-tot	40.0	U		ng/L	40					40	-6.65815	-6.66	1	40	-6.65815	10/28/11	1:45 PM
zzz	U233 IS	109			%R	0.5					0.5	108.59831	109	1	0.5	108.59831	10/28/11	1:45 PM
critotU	U-tot	40.0	U		ng/L	40		78.2%	40.0		40	31.28816	31.3	1	40	31.28816	10/28/11	1:48 PM
critotU	U233 IS	111			%R	0.5					0.5	110.80461	111	1	0.5	110.80461	10/28/11	1:48 PM
ccv	U-tot	7640			ng/L	40		99.6%	7670		40	7641.83407	7640	1	40	7641.83407	10/28/11	1:50 PM
ccv	U233 IS	117			%R	0.5					0.5	117.29284	117	1	0.5	117.29284	10/28/11	1:50 PM
ccb	U-tot	40.0	U		ng/L	40					40	-6.20995	-6.21	1	40	-6.20995	10/28/11	1:52 PM
ccb	U233 IS	115			%R	0.5					0.5	115.09519	115	1	0.5	115.09519	10/28/11	1:52 PM

010149

Y:\METALS\Nicholle\Fluor\Fluor 110830(12) 110831(5) 110901(7) 110902(3) d7

Fluor
16526.05.006
110830-12/110831-5/110901-7/110902-3
15_00146-15_00152

10/31/11

474212d10
for U tot

23298ng/L x df4 = 93192 ng/L

= 93200 ng/L

Sample ID	Element	Result	Qual (C)	Qual (O)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
icv	U-tot	7670			ng/L	40		100.0%	7670		40	7671.35825	7670	1	40	7671.35825	10/28/11	8:18 PM
icv	U233 IS	103			%R	0.5					0.5	103.29711	103	1	0.5	103.29711	10/28/11	8:18 PM
icb	U-tot	40.0	U		ng/L	40					40	3.5891	3.59	1	40	3.5891	10/28/11	8:21 PM
icb	U233 IS	104			%R	0.5					0.5	103.59204	104	1	0.5	103.59204	10/28/11	8:21 PM
critotU	U-tot	42.9			ng/L	40		107.3%	40.0		40	42.91064	42.9	1	40	42.91064	10/28/11	8:23 PM
critotU	U233 IS	104			%R	0.5					0.5	104.25753	104	1	0.5	104.25753	10/28/11	8:23 PM
icsa	U-tot	40.0	U		ng/L	40			0		40	3.48122	3.48	1	40	3.48122	10/28/11	8:25 PM
icsa	U233 IS	88.6			%R	0.5					0.5	88.63444	88.6	1	0.5	88.63444	10/28/11	8:25 PM
icsab	U-tot	20800			ng/L	40		102.0%	20400		40	20845.2702	20800	1	40	20845.2702	10/28/11	8:28 PM
icsab	U233 IS	92.7			%R	0.5					0.5	92.74049	92.7	1	0.5	92.74049	10/28/11	8:28 PM
zzz	U-tot	40.0	U		ng/L	40					40	0.70756	0.708	1	40	0.70756	10/28/11	8:30 PM
zzz	U233 IS	99.5			%R	0.5					0.5	99.53872	99.5	1	0.5	99.53872	10/28/11	8:30 PM
ccv	U-tot	7770			ng/L	40		101.3%	7670		40	7769.64432	7770	1	40	7769.64432	10/28/11	8:32 PM
ccv	U233 IS	101			%R	0.5					0.5	101.12678	101	1	0.5	101.12678	10/28/11	8:32 PM
ccb	U-tot	40.0	U		ng/L	40					40	5.42693	5.43	1	40	5.42693	10/28/11	8:35 PM
ccb	U233 IS	102			%R	0.5					0.5	101.99641	102	1	0.5	101.99641	10/28/11	8:35 PM
Blankd10	U-tot	102000			ng/L	160				6902	40	102237.96	102000	4	160	25559.49007	10/28/11	8:37 PM
Blankd10	U233 IS	99.5			%R	0.5					0.5	99.47821	99.5	4	0.5	99.47821	10/28/11	8:37 PM
474212d10	U-tot	93200	✓		ng/L	160				6291	40	93193.3322	93200	4	160	23298.33306	10/28/11	8:39 PM
474212d10	U233 IS	99.9			%R	0.5					0.5	99.87144	99.9	4	0.5	99.87144	10/28/11	8:39 PM
474212d10d	U-tot	95400			ng/L	160	2.3%			6437	40	95353.1781	95400	4	160	23838.29453	10/28/11	8:42 PM
474212d10d	U233 IS	98.5			%R	0.5					0.5	98.51783	98.5	4	0.5	98.51783	10/28/11	8:42 PM
474213d10	U-tot	71400			ng/L	160				4823	40	71447.5131	71400	4	160	17861.87827	10/28/11	8:44 PM
474213d10	U233 IS	99.7			%R	0.5					0.5	99.74289	99.7	4	0.5	99.74289	10/28/11	8:44 PM
474213d10d	U-tot	72600			ng/L	160	1.7%			4902	40	72619.8186	72600	4	160	18154.95466	10/28/11	8:46 PM
474213d10d	U233 IS	99.7			%R	0.5					0.5	99.71265	99.7	4	0.5	99.71265	10/28/11	8:46 PM
474214d10	U-tot	29700			ng/L	40				2008	40	29744.0534	29700	1	40	29744.05341	10/28/11	8:49 PM
474214d10	U233 IS	94.2			%R	0.5					0.5	94.2075	94.2	1	0.5	94.2075	10/28/11	8:49 PM
474214d10d	U-tot	31300			ng/L	40	5.2%			2112	40	31290.0494	31300	1	40	31290.04944	10/28/11	8:51 PM
474214d10d	U233 IS	90.7			%R	0.5					0.5	90.72148	90.7	1	0.5	90.72148	10/28/11	8:51 PM
zzz	U-tot	40.0	U		ng/L	40					40	1.37322	1.37	1	40	1.37322	10/28/11	8:53 PM
zzz	U233 IS	93.7			%R	0.5					0.5	93.74622	93.7	1	0.5	93.74622	10/28/11	8:53 PM
critotU	U-tot	40.0	U		ng/L	40		84.0%	40.0		40	33.59959	33.6	1	40	33.59959	10/28/11	8:56 PM
critotU	U233 IS	90.9			%R	0.5					0.5	90.92565	90.9	1	0.5	90.92565	10/28/11	8:56 PM
ccv	U-tot	7910			ng/L	40		103.1%	7670		40	7910.13423	7910	1	40	7910.13423	10/28/11	8:58 PM
ccv	U233 IS	91.7			%R	0.5					0.5	91.71964	91.7	1	0.5	91.71964	10/28/11	8:58 PM
ccb	U-tot	40.0	U		ng/L	40					40	0.43102	0.431	1	40	0.43102	10/28/11	9:00 PM
ccb	U233 IS	94.7			%R	0.5					0.5	94.65365	94.7	1	0.5	94.65365	10/28/11	9:00 PM
474221d10	U-tot	52200			ng/L	160				3523	40	52182.8325	52200	4	160	13045.70813	10/28/11	9:03 PM
474221d10	U233 IS	94.8			%R	0.5					0.5	94.83513	94.8	4	0.5	94.83513	10/28/11	9:03 PM

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10/31/11

Fluor
16526.05.006
110830-12/110831-5/110901-7/110902-3
15_00146-15_00152

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	STV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
474221d10d	U-tot	54400			ng/L	160	4.1%			3672	40	54390.4093	54400	4	160	13597.60233	10/28/11	9:05 PM
474221d10d	U233 IS	93.3			%R	0.5					0.5	93.33787	93.3	4	0.5	93.33787	10/28/11	9:05 PM
474222d10	U-tot	55900			ng/L	160				3771	40	55858.3424	55900	4	160	13964.58561	10/28/11	9:07 PM
474222d10	U233 IS	92.2			%R	0.5					0.5	92.24141	92.2	4	0.5	92.24141	10/28/11	9:07 PM
474222d10d	U-tot	38000		*	ng/L	160	38.1%			2566	40	37998.9605	38000	4	160	9499.74013	10/28/11	9:10 PM
474222d10d	U233 IS	93.0			%R	0.5					0.5	92.99759	93	4	0.5	92.99759	10/28/11	9:10 PM
474300d10	U-tot	90500			ng/L	160				6107	40	90470.255	90500	4	160	22617.56376	10/28/11	9:12 PM
474300d10	U233 IS	91.2			%R	0.5					0.5	91.17519	91.2	4	0.5	91.17519	10/28/11	9:12 PM
474300d10d	U-tot	88900			ng/L	160	1.8%			6002	40	88917.438	88900	4	160	22229.3595	10/28/11	9:14 PM
474300d10d	U233 IS	94.3			%R	0.5					0.5	94.3058	94.3	4	0.5	94.3058	10/28/11	9:14 PM
474301d10	U-tot	74800			ng/L	160				5048	40	74776.6456	74800	4	160	18694.16141	10/28/11	9:17 PM
474301d10	U233 IS	91.8			%R	0.5					0.5	91.83306	91.8	4	0.5	91.83306	10/28/11	9:17 PM
474301d10d	U-tot	75000			ng/L	160	0.3%			5064	40	75016.645	75000	4	160	18754.16126	10/28/11	9:19 PM
474301d10d	U233 IS	94.1			%R	0.5					0.5	94.10164	94.1	4	0.5	94.10164	10/28/11	9:19 PM
zzz	U-tot	40.0	U		ng/L	40					40	-0.58045	-0.58	1	40	-0.58045	10/28/11	9:21 PM
zzz	U233 IS	93.1			%R	0.5					0.5	93.12615	93.1	1	0.5	93.12615	10/28/11	9:21 PM
critotU	U-tot	40.0	U		ng/L	40		95.5%	40.0		40	38.19262	38.2	1	40	38.19262	10/28/11	9:23 PM
critotU	U233 IS	96.4			%R	0.5					0.5	96.40803	96.4	1	0.5	96.40803	10/28/11	9:23 PM
ccv	U-tot	7900			ng/L	40		103.0%	7670		40	7900.43518	7900	1	40	7900.43518	10/28/11	9:26 PM
ccv	U233 IS	95.7			%R	0.5					0.5	95.72745	95.7	1	0.5	95.72745	10/28/11	9:26 PM
ccb	U-tot	40.0	U		ng/L	40					40	-4.22536	-4.23	1	40	-4.22536	10/28/11	9:28 PM
ccb	U233 IS	99.2			%R	0.5					0.5	99.19086	99.2	1	0.5	99.19086	10/28/11	9:28 PM
474302d10	U-tot	81200			ng/L	160				5485	40	81244.5979	81200	4	160	20311.14947	10/28/11	9:31 PM
474302d10	U233 IS	92.9			%R	0.5					0.5	92.94466	92.9	4	0.5	92.94466	10/28/11	9:31 PM
474302d10d	U-tot	78600			ng/L	160	3.3%			5306	40	78594.0112	78600	4	160	19648.50281	10/28/11	9:33 PM
474302d10d	U233 IS	92.4			%R	0.5					0.5	92.3624	92.4	4	0.5	92.3624	10/28/11	9:33 PM
474340d10	U-tot	4040			ng/L	40				274	40	4043.08081	4040	1	40	4043.08081	10/28/11	9:35 PM
474340d10	U233 IS	91.0			%R	0.5					0.5	90.98614	91	1	0.5	90.98614	10/28/11	9:35 PM
474340d10d	U-tot	4830			ng/L	40	17.8%			327	40	4830.30906	4830	1	40	4830.30906	10/28/11	9:37 PM
474340d10d	U233 IS	95.1			%R	0.5					0.5	95.09224	95.1	1	0.5	95.09224	10/28/11	9:37 PM
474341d10	U-tot	67200			ng/L	160				4539	40	67236.2856	67200	4	160	16809.07141	10/28/11	9:40 PM
474341d10	U233 IS	98.3			%R	0.5					0.5	98.32122	98.3	4	0.5	98.32122	10/28/11	9:40 PM
474341d10d	U-tot	68600			ng/L	160	2.1%			4633	40	68628.9581	68600	4	160	17157.23952	10/28/11	9:42 PM
474341d10d	U233 IS	100			%R	0.5					0.5	100.19662	100	4	0.5	100.19662	10/28/11	9:42 PM
474344d10	U-tot	50400			ng/L	160				3406	40	50448.766	50400	4	160	12612.1915	10/28/11	9:44 PM
474344d10	U233 IS	103			%R	0.5					0.5	103.11562	103	4	0.5	103.11562	10/28/11	9:44 PM
474344d10d	U-tot	48300			ng/L	160	4.3%			3260	40	48275.8667	48300	4	160	12068.96667	10/28/11	9:47 PM
474344d10d	U233 IS	102			%R	0.5					0.5	102.09473	102	4	0.5	102.09473	10/28/11	9:47 PM
zzz	U-tot	40.0	U		ng/L	40					40	-1.21016	-1.21	1	40	-1.21016	10/28/11	9:49 PM
zzz	U233 IS	99.0			%R	0.5					0.5	99.04718	99	1	0.5	99.04718	10/28/11	9:49 PM

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Fluor
16526.05.006
110830-12/110831-5/110901-7/110902-3
15_00146-15_00152

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
critotU	U-tot	40.3			ng/L	40		100.7%	40.0		40	40.29066	40.3	1	40	40.29066	10/28/11	9:51 PM
critotU	U233 IS	103			%R	0.5					0.5	102.71483	103	1	0.5	102.71483	10/28/11	9:51 PM
ccv	U-tot	7880			ng/L	40		102.7%	7670		40	7877.73737	7880	1	40	7877.73737	10/28/11	9:54 PM
ccv	U233 IS	99.8			%R	0.5					0.5	99.82608	99.8	1	0.5	99.82608	10/28/11	9:54 PM
ccb	U-tot	40.0	U		ng/L	40					40	2.44458	2.44	1	40	2.44458	10/28/11	9:56 PM
ccb	U233 IS	103			%R	0.5					0.5	102.98708	103	1	0.5	102.98708	10/28/11	9:56 PM
474401d10	U-tot	64500			ng/L	160				4357	40	64537.5754	64500	4	160	16134.39385	10/28/11	9:59 PM
474401d10	U233 IS	100			%R	0.5					0.5	100.34787	100	4	0.5	100.34787	10/28/11	9:59 PM
474401d10d	U-tot	68000			ng/L	160	5.3%			4588	40	67966.9686	68000	4	160	16991.74214	10/28/11	10:01 PM
474401d10d	U233 IS	99.6			%R	0.5					0.5	99.62946	99.6	4	0.5	99.62946	10/28/11	10:01 PM
474402d10	U-tot	33400			ng/L	80				2254	40	33380.9866	33400	2	80	16690.49329	10/28/11	10:03 PM
474402d10	U233 IS	98.9			%R	0.5					0.5	98.85056	98.9	2	0.5	98.85056	10/28/11	10:03 PM
474402d10L	U-tot	33300			ng/L	400	0.3%			2253	40	33252.3546	33300	10	400	3325.23546	10/28/11	10:06 PM
474402d10L	U233 IS	102			%R	0.5					0.5	101.69393	102	10	0.5	101.69393	10/28/11	10:06 PM
474402d10D	U-tot	33700			ng/L	80	0.9%			2278	40	33740.5713	33700	2	80	16870.28565	10/28/11	10:08 PM
474402d10D	U233 IS	96.3			%R	0.5					0.5	96.33997	96.3	2	0.5	96.33997	10/28/11	10:08 PM
474402d10AS	U-tot	76300			ng/L	80		104.9%	40900	5149	40	76281.7762	76300	2	80	38140.88811	10/28/11	10:10 PM
474402d10AS	U233 IS	95.1			%R	0.5					0.5	95.14518	95.1	2	0.5	95.14518	10/28/11	10:10 PM
zzz	U-tot	40.0	U		ng/L	40					40	-2.47361	-2.47	1	40	-2.47361	10/28/11	10:13 PM
zzz	U233 IS	93.7			%R	0.5					0.5	93.70841	93.7	1	0.5	93.70841	10/28/11	10:13 PM
critotU	U-tot	40.0	U		ng/L	40		92.7%	40.0		40	37.08652	37.1	1	40	37.08652	10/28/11	10:15 PM
critotU	U233 IS	98.3			%R	0.5					0.5	98.27584	98.3	1	0.5	98.27584	10/28/11	10:15 PM
ccv	U-tot	7990			ng/L	40		104.2%	7670		40	7989.04542	7990	1	40	7989.04542	10/28/11	10:17 PM
ccv	U233 IS	96.5			%R	0.5					0.5	96.52146	96.5	1	0.5	96.52146	10/28/11	10:17 PM
ccb	U-tot	40.0	U		ng/L	40					40	-3.74037	-3.74	1	40	-3.74037	10/28/11	10:20 PM
ccb	U233 IS	98.6			%R	0.5					0.5	98.5632	98.6	1	0.5	98.5632	10/28/11	10:20 PM
Blankd14	U-tot	99800			ng/L	160				6740	40	99846.5428	99800	4	160	24961.63569	10/28/11	10:22 PM
Blankd14	U233 IS	96.5			%R	0.5					0.5	96.54414	96.5	4	0.5	96.54414	10/28/11	10:22 PM
474212d14	U-tot	91800			ng/L	160				6200	40	91843.0549	91800	4	160	22960.76373	10/28/11	10:24 PM
474212d14	U233 IS	106			%R	0.5					0.5	105.91367	106	4	0.5	105.91367	10/28/11	10:24 PM
474212d14d	U-tot	91500			ng/L	160	0.3%			6179	40	91532.0738	91500	4	160	22883.01846	10/28/11	10:27 PM
474212d14d	U233 IS	99.0			%R	0.5					0.5	99.04718	99	4	0.5	99.04718	10/28/11	10:27 PM
474213d14	U-tot	70300			ng/L	160				4748	40	70323.9161	70300	4	160	17580.97902	10/28/11	10:29 PM
474213d14	U233 IS	104			%R	0.5					0.5	104.49953	104	4	0.5	104.49953	10/28/11	10:29 PM
474213d14d	U-tot	70700			ng/L	160	0.6%			4771	40	70664.4676	70700	4	160	17666.11689	10/28/11	10:31 PM
474213d14d	U233 IS	103			%R	0.5					0.5	102.79044	103	4	0.5	102.79044	10/28/11	10:31 PM
474214d14	U-tot	30100			ng/L	40				2029	40	30060.6429	30100	1	40	30060.64289	10/28/11	10:34 PM
474214d14	U233 IS	99.3			%R	0.5					0.5	99.31942	99.3	1	0.5	99.31942	10/28/11	10:34 PM
474214d14d	U-tot	29400			ng/L	40	2.4%			1986	40	29427.4138	29400	1	40	29427.41381	10/28/11	10:36 PM
474214d14d	U233 IS	98.6			%R	0.5					0.5	98.57077	98.6	1	0.5	98.57077	10/28/11	10:36 PM

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Fluor
16526.05.006
110830-12/110831-5/110901-7/110902-3
15_00146-15_00152

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	± STV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
zzz	U-tot	40.0	U		ng/L	40					40	9.35832	9.36	1	40	9.35832	10/28/11	10:38 PM
zzz	U233 IS	103			%R	0.5					0.5	102.71482	103	1	0.5	102.71482	10/28/11	10:38 PM
critotU	U-tot	40.8			ng/L	40		101.9%	40.0		40	40.75111	40.8	1	40	40.75111	10/28/11	10:41 PM
critotU	U233 IS	105			%R	0.5					0.5	104.97594	105	1	0.5	104.97594	10/28/11	10:41 PM
ccv	U-tot	7870			ng/L	40		102.6%	7670		40	7865.23187	7870	1	40	7865.23187	10/28/11	10:43 PM
ccv	U233 IS	103			%R	0.5					0.5	103.04	103	1	0.5	103.04	10/28/11	10:43 PM
ccb	U-tot	40.0	U		ng/L	40					40	-5.32118	-5.32	1	40	-5.32118	10/28/11	10:45 PM
ccb	U233 IS	107			%R	0.5					0.5	106.71529	107	1	0.5	106.71529	10/28/11	10:45 PM
474221d14	U-tot	54700			ng/L	160				3691	40	54671.4389	54700	4	160	13667.85972	10/28/11	10:48 PM
474221d14	U233 IS	109			%R	0.5					0.5	108.90838	109	4	0.5	108.90838	10/28/11	10:48 PM
474221d14d	U-tot	56900			ng/L	160	3.9%			3838	40	56854.0567	56900	4	160	14213.51418	10/28/11	10:50 PM
474221d14d	U233 IS	106			%R	0.5					0.5	106.42035	106	4	0.5	106.42035	10/28/11	10:50 PM
474222d14	U-tot	30700			ng/L	160				2072	40	30673.6729	30700	4	160	7668.41823	10/28/11	10:52 PM
474222d14	U233 IS	105			%R	0.5					0.5	105.08182	105	4	0.5	105.08182	10/28/11	10:52 PM
474222d14d	U-tot	46100		*	ng/L	160	40.1%			3112	40	46083.1282	46100	4	160	11520.78205	10/28/11	10:55 PM
474222d14d	U233 IS	104			%R	0.5					0.5	104.46927	104	4	0.5	104.46927	10/28/11	10:55 PM
474300d14	U-tot	88400			ng/L	160				5965	40	88359.6926	88400	4	160	22089.92315	10/28/11	10:57 PM
474300d14	U233 IS	100			%R	0.5					0.5	100.17393	100	4	0.5	100.17393	10/28/11	10:57 PM
474300d14d	U-tot	90600			ng/L	160	2.5%			6117	40	90614.88	90600	4	160	22653.71999	10/28/11	10:59 PM
474300d14d	U233 IS	102			%R	0.5					0.5	101.80736	102	4	0.5	101.80736	10/28/11	10:59 PM
474301d14	U-tot	84400			ng/L	160				5701	40	84444.7617	84400	4	160	21111.19042	10/28/11	11:02 PM
474301d14	U233 IS	99.0			%R	0.5					0.5	98.95643	99	4	0.5	98.95643	10/28/11	11:02 PM
474301d14d	U-tot	81300			ng/L	160	3.7%			5485	40	81257.8095	81300	4	160	20314.45238	10/28/11	11:04 PM
474301d14d	U233 IS	94.5			%R	0.5					0.5	94.5251	94.5	4	0.5	94.5251	10/28/11	11:04 PM
zzz	U-tot	40.0	U		ng/L	40					40	0.053	0.053	1	40	0.053	10/28/11	11:06 PM
zzz	U233 IS	94.2			%R	0.5					0.5	94.16212	94.2	1	0.5	94.16212	10/28/11	11:06 PM
critotU	U-tot	40.0	U		ng/L	40		92.6%	40.0		40	37.03649	37	1	40	37.03649	10/28/11	11:09 PM
critotU	U233 IS	94.3			%R	0.5					0.5	94.3058	94.3	1	0.5	94.3058	10/28/11	11:09 PM
ccv	U-tot	7830			ng/L	40		102.1%	7670		40	7827.12242	7830	1	40	7827.12242	10/28/11	11:11 PM
ccv	U233 IS	96.7			%R	0.5					0.5	96.71807	96.7	1	0.5	96.71807	10/28/11	11:11 PM
ccb	U-tot	40.0	U		ng/L	40					40	-0.81387	-0.814	1	40	-0.81387	10/28/11	11:13 PM
ccb	U233 IS	98.6			%R	0.5					0.5	98.6237	98.6	1	0.5	98.6237	10/28/11	11:13 PM
474302d14	U-tot	81300			ng/L	160				5485	40	81258.0038	81300	4	160	20314.50096	10/28/11	11:16 PM
474302d14	U233 IS	97.0			%R	0.5					0.5	97.03567	97	4	0.5	97.03567	10/28/11	11:16 PM
474302d14d	U-tot	85400			ng/L	160	4.9%			5768	40	85447.3884	85400	4	160	21361.8471	10/28/11	11:18 PM
474302d14d	U233 IS	92.7			%R	0.5					0.5	92.72537	92.7	4	0.5	92.72537	10/28/11	11:18 PM
474340d14	U-tot	2920			ng/L	40				198	40	2923.94162	2920	1	40	2923.94162	10/28/11	11:20 PM
474340d14	U233 IS	89.0			%R	0.5					0.5	88.9974	89	1	0.5	88.9974	10/28/11	11:20 PM
474340d14d	U-tot	4020		*	ng/L	40	31.7%			272	40	4022.27675	4020	1	40	4022.27675	10/28/11	11:23 PM
474340d14d	U233 IS	88.3			%R	0.5					0.5	88.3093	88.3	1	0.5	88.3093	10/28/11	11:23 PM

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Fluor
16526.05.006
110830-12/110831-5/110901-7/110902-3
15_00146-15_00152

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
474341d14	U-tot	67200			ng/L	160				4537	40	67202.4166	67200	4	160	16800.60416	10/28/11	11:25 PM
474341d14	U233 IS	100			%R	0.5					0.5	100.19662	100	4	0.5	100.19662	10/28/11	11:25 PM
474341d14d	U-tot	68300			ng/L	160	1.6%			4610	40	68288.5241	68300	4	160	17072.13102	10/28/11	11:27 PM
474341d14d	U233 IS	99.3			%R	0.5					0.5	99.29672	99.3	4	0.5	99.29672	10/28/11	11:27 PM
474344d14	U-tot	50300			ng/L	160				3394	40	50263.0652	50300	4	160	12565.76631	10/28/11	11:29 PM
474344d14	U233 IS	104			%R	0.5					0.5	104.01553	104	4	0.5	104.01553	10/28/11	11:29 PM
474344d14d	U-tot	50300			ng/L	160	0.0%			3399	40	50343.6892	50300	4	160	12585.92229	10/28/11	11:32 PM
474344d14d	U233 IS	109			%R	0.5					0.5	109.32432	109	4	0.5	109.32432	10/28/11	11:32 PM
zzz	U-tot	40.0	U		ng/L	40					40	-2.94607	-2.95	1	40	-2.94607	10/28/11	11:34 PM
zzz	U233 IS	105			%R	0.5					0.5	105.07426	105	1	0.5	105.07426	10/28/11	11:34 PM
critotU	U-tot	40.0	U		ng/L	40		86.2%	40.0		40	34.4989	34.5	1	40	34.4989	10/28/11	11:36 PM
critotU	U233 IS	107			%R	0.5					0.5	107.04803	107	1	0.5	107.04803	10/28/11	11:36 PM
ccv	U-tot	7910			ng/L	40		103.1%	7670		40	7913.37443	7910	1	40	7913.37443	10/28/11	11:39 PM
ccv	U233 IS	106			%R	0.5					0.5	106.49597	106	1	0.5	106.49597	10/28/11	11:39 PM
ccb	U-tot	40.0	U		ng/L	40					40	-3.23964	-3.24	1	40	-3.23964	10/28/11	11:41 PM
ccb	U233 IS	108			%R	0.5					0.5	108.4622	108	1	0.5	108.4622	10/28/11	11:41 PM
474401d14	U-tot	64400			ng/L	160				4349	40	64414.9046	64400	4	160	16103.72615	10/28/11	11:44 PM
474401d14	U233 IS	103			%R	0.5					0.5	103.25174	103	4	0.5	103.25174	10/28/11	11:44 PM
474401d14d	U-tot	63600			ng/L	160	1.3%			4296	40	63628.5174	63600	4	160	15907.12934	10/28/11	11:46 PM
474401d14d	U233 IS	101			%R	0.5					0.5	101.33094	101	4	0.5	101.33094	10/28/11	11:46 PM
474402d14	U-tot	33000			ng/L	80				2227	40	32983.9067	33000	2	80	16491.95336	10/28/11	11:48 PM
474402d14	U233 IS	101			%R	0.5					0.5	101.05114	101	2	0.5	101.05114	10/28/11	11:48 PM
474402d14L	U-tot	33700			ng/L	400	-2.1%			2281	40	33657.1111	33700	10	400	3365.71111	10/28/11	11:51 PM
474402d14L	U233 IS	96.2			%R	0.5					0.5	96.21897	96.2	10	0.5	96.21897	10/28/11	11:51 PM
474402d14D	U-tot	32700			ng/L	80	0.9%			2208	40	32711.9504	32700	2	80	16355.97519	10/28/11	11:53 PM
474402d14D	U233 IS	97.9			%R	0.5					0.5	97.88261	97.9	2	0.5	97.88261	10/28/11	11:53 PM
474402d14AS	U-tot	73900			ng/L	80		100.0%	40900	4989	40	73915.9391	73900	2	80	36957.96953	10/28/11	11:55 PM
474402d14AS	U233 IS	105			%R	0.5					0.5	105.45994	105	2	0.5	105.45994	10/28/11	11:55 PM
zzz	U-tot	40.0	U		ng/L	40					40	-4.01695	-4.02	1	40	-4.01695	10/28/11	11:58 PM
zzz	U233 IS	108			%R	0.5					0.5	107.53958	108	1	0.5	107.53958	10/28/11	11:58 PM
critotU	U-tot	40.0	U		ng/L	40		81.6%	40.0		40	32.6429	32.6	1	40	32.6429	10/29/11	12:00 AM
critotU	U233 IS	104			%R	0.5					0.5	103.71304	104	1	0.5	103.71304	10/29/11	12:00 AM
ccv	U-tot	8050			ng/L	40		105.0%	7670		40	8054.16798	8050	1	40	8054.16798	10/29/11	12:02 AM
ccv	U233 IS	104			%R	0.5					0.5	104.03822	104	1	0.5	104.03822	10/29/11	12:02 AM
ccb	U-tot	40.0	U		ng/L	40					40	-5.91813	-5.92	1	40	-5.91813	10/29/11	12:05 AM
ccb	U233 IS	107			%R	0.5					0.5	107.1539	107	1	0.5	107.1539	10/29/11	12:05 AM
Blankd21	U-tot	102000			ng/L	160				6853	40	101520.945	102000	4	160	25380.23633	10/29/11	12:07 AM
Blankd21	U233 IS	104			%R	0.5					0.5	104.16677	104	4	0.5	104.16677	10/29/11	12:07 AM
474212d21	U-tot	94200			ng/L	160				6357	40	94168.2873	94200	4	160	23542.07183	10/29/11	12:09 AM
474212d21	U233 IS	100			%R	0.5					0.5	100.37055	100	4	0.5	100.37055	10/29/11	12:09 AM

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Fluor
16526.05.006
110830-12/110831-5/110901-7/110902-3
1S_00146-15_001S2

Sample ID	Element	Result	Qual (C)	Qual (D)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
474212d21d	U-tot	94000			ng/L	160	0.2%			6347	40	94018.3785	94000	4	160	23504.59463	10/29/11	12:12 AM
474212d21d	U233 IS	94.5			%R	0.5					0.5	94.54778	94.5	4	0.5	94.54778	10/29/11	12:12 AM
474213d21	U-tot	60300			ng/L	160				4070	40	60289.8242	60300	4	160	15072.45605	10/29/11	12:14 AM
474213d21	U233 IS	96.3			%R	0.5					0.5	96.27191	96.3	4	0.5	96.27191	10/29/11	12:14 AM
474213d21d	U-tot	66100			ng/L	160	9.2%			4463	40	66103.3174	66100	4	160	16525.82936	10/29/11	12:16 AM
474213d21d	U233 IS	98.1			%R	0.5					0.5	98.0868	98.1	4	0.5	98.0868	10/29/11	12:16 AM
474214d21	U-tot	24200			ng/L	40				1636	40	24237.0347	24200	1	40	24237.03474	10/29/11	12:19 AM
474214d21	U233 IS	99.0			%R	0.5					0.5	98.99425	99	1	0.5	98.99425	10/29/11	12:19 AM
474214d21d	U-tot	28300			ng/L	40	15.6%			1909	40	28283.4484	28300	1	40	28283.44843	10/29/11	12:21 AM
474214d21d	U233 IS	102			%R	0.5					0.5	101.57293	102	1	0.5	101.57293	10/29/11	12:21 AM
zzz	U-tot	40.0	U		ng/L	40					40	4.81489	4.81	1	40	4.81489	10/29/11	12:23 AM
zzz	U233 IS	109			%R	0.5					0.5	109.10501	109	1	0.5	109.10501	10/29/11	12:23 AM
critotU	U-tot	41.8			ng/L	40		104.4%	40.0		40	41.77547	41.8	1	40	41.77547	10/29/11	12:26 AM
critotU	U233 IS	113			%R	0.5					0.5	112.72746	113	1	0.5	112.72746	10/29/11	12:26 AM
ccv	U-tot	7960			ng/L	40		103.8%	7670		40	7958.58155	7960	1	40	7958.58155	10/29/11	12:28 AM
ccv	U233 IS	112			%R	0.5					0.5	111.86534	112	1	0.5	111.86534	10/29/11	12:28 AM
ccb	U-tot	40.0	U		ng/L	40					40	-2.24932	-2.25	1	40	-2.24932	10/29/11	12:30 AM
ccb	U233 IS	116			%R	0.5					0.5	115.58617	116	1	0.5	115.58617	10/29/11	12:30 AM
474221d21	U-tot	51000			ng/L	160				3443	40	50988.1883	51000	4	160	12747.04708	10/29/11	12:33 AM
474221d21	U233 IS	113			%R	0.5					0.5	113.28709	113	4	0.5	113.28709	10/29/11	12:33 AM
474221d21d	U-tot	49600			ng/L	160	2.8%			3349	40	49598.0426	49600	4	160	12399.51066	10/29/11	12:35 AM
474221d21d	U233 IS	110			%R	0.5					0.5	110.42088	110	4	0.5	110.42088	10/29/11	12:35 AM
474222d21	U-tot	43900			ng/L	160				2961	40	43852.8282	43900	4	160	10963.20704	10/29/11	12:38 AM
474222d21	U233 IS	109			%R	0.5					0.5	108.55295	109	4	0.5	108.55295	10/29/11	12:38 AM
474222d21d	U-tot	33900		*	ng/L	160	25.7%			2289	40	33897.7468	33900	4	160	8474.43671	10/29/11	12:40 AM
474222d21d	U233 IS	109			%R	0.5					0.5	109.08232	109	4	0.5	109.08232	10/29/11	12:40 AM
474300d21	U-tot	87700			ng/L	160				5920	40	87693.2504	87700	4	160	21923.31261	10/29/11	12:42 AM
474300d21	U233 IS	106			%R	0.5					0.5	106.25398	106	4	0.5	106.25398	10/29/11	12:42 AM
474300d21d	U-tot	87000			ng/L	160	0.8%			5876	40	87039.158	87000	4	160	21759.7895	10/29/11	12:45 AM
474300d21d	U233 IS	109			%R	0.5					0.5	109.07476	109	4	0.5	109.07476	10/29/11	12:45 AM
474301d21	U-tot	81600			ng/L	160				5510	40	81627.1696	81600	4	160	20406.79239	10/29/11	12:47 AM
474301d21	U233 IS	105			%R	0.5					0.5	105.12719	105	4	0.5	105.12719	10/29/11	12:47 AM
474301d21d	U-tot	83100			ng/L	160	1.8%			5611	40	83115.3756	83100	4	160	20778.84389	10/29/11	12:49 AM
474301d21d	U233 IS	102			%R	0.5					0.5	101.64099	102	4	0.5	101.64099	10/29/11	12:49 AM
zzz	U-tot	40.0	U		ng/L	40					40	-0.44044	-0.44	1	40	-0.44044	10/29/11	12:51 AM
zzz	U233 IS	106			%R	0.5					0.5	105.5053	106	1	0.5	105.5053	10/29/11	12:51 AM
critotU	U-tot	41.1			ng/L	40		102.7%	40.0		40	41.07856	41.1	1	40	41.07856	10/29/11	12:54 AM
critotU	U233 IS	108			%R	0.5					0.5	107.52446	108	1	0.5	107.52446	10/29/11	12:54 AM
ccv	U-tot	8090			ng/L	40		105.5%	7670		40	8087.45783	8090	1	40	8087.45783	10/29/11	12:56 AM
ccv	U233 IS	105			%R	0.5					0.5	104.66589	105	1	0.5	104.66589	10/29/11	12:56 AM

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Fluor
16526.05.006
110830-12/110831-5/110901-7/110902-3
1S_00146-15_00152

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
ccb	U-tot	40.0	U		ng/L	40					40	-1.56959	-1.57	1	40	-1.56959	10/29/11	12:59 AM
ccb	U233 IS	112			%R	0.5					0.5	112.03926	112	1	0.5	112.03926	10/29/11	12:59 AM
474302d21	U-tot	78500			ng/L	160				5298	40	78480.2967	78500	4	160	19620.07417	10/29/11	1:01 AM
474302d21	U233 IS	106			%R	0.5					0.5	106.48085	106	4	0.5	106.48085	10/29/11	1:01 AM
474302d21d	U-tot	80900			ng/L	160	3.0%			5463	40	80917.7271	80900	4	160	20229.43177	10/29/11	1:03 AM
474302d21d	U233 IS	108			%R	0.5					0.5	107.95554	108	4	0.5	107.95554	10/29/11	1:03 AM
474340d21	U-tot	3700			ng/L	40				250	40	3699.03585	3700	1	40	3699.03585	10/29/11	1:05 AM
474340d21	U233 IS	100			%R	0.5					0.5	100.41592	100	1	0.5	100.41592	10/29/11	1:05 AM
474340d21d	U-tot	3670			ng/L	40	0.8%			249	40	3669.67177	3670	1	40	3669.67177	10/29/11	1:08 AM
474340d21d	U233 IS	94.9			%R	0.5					0.5	94.91831	94.9	1	0.5	94.91831	10/29/11	1:08 AM
474341d21	U-tot	61900			ng/L	160				4180	40	61920.0778	61900	4	160	15480.01945	10/29/11	1:10 AM
474341d21	U233 IS	101			%R	0.5					0.5	100.58985	101	4	0.5	100.58985	10/29/11	1:10 AM
474341d21d	U-tot	67300			ng/L	160	8.4%			4546	40	67339.9881	67300	4	160	16834.99702	10/29/11	1:12 AM
474341d21d	U233 IS	104			%R	0.5					0.5	104.00797	104	4	0.5	104.00797	10/29/11	1:12 AM
474344d21	U-tot	49900			ng/L	160				3370	40	49918.1586	49900	4	160	12479.53965	10/29/11	1:15 AM
474344d21	U233 IS	106			%R	0.5					0.5	106.29935	106	4	0.5	106.29935	10/29/11	1:15 AM
474344d21d	U-tot	54600			ng/L	160	9.0%			3686	40	54598.8567	54600	4	160	13649.71418	10/29/11	1:17 AM
474344d21d	U233 IS	104			%R	0.5					0.5	103.79624	104	4	0.5	103.79624	10/29/11	1:17 AM
zzz	U-tot	40.0	U		ng/L	40					40	-3.3933	-3.39	1	40	-3.3933	10/29/11	1:19 AM
zzz	U233 IS	108			%R	0.5					0.5	108.28829	108	1	0.5	108.28829	10/29/11	1:19 AM
critotU	U-tot	40.0	U		ng/L	40		95.0%	40.0		40	38.01898	38	1	40	38.01898	10/29/11	1:22 AM
critotU	U233 IS	106			%R	0.5					0.5	106.0876	106	1	0.5	106.0876	10/29/11	1:22 AM
ccv	U-tot	7880			ng/L	40		102.7%	7670		40	7877.61469	7880	1	40	7877.61469	10/29/11	1:24 AM
ccv	U233 IS	110			%R	0.5					0.5	110.43602	110	1	0.5	110.43602	10/29/11	1:24 AM
ccb	U-tot	40.0	U		ng/L	40					40	-2.80568	-2.81	1	40	-2.80568	10/29/11	1:27 AM
ccb	U233 IS	112			%R	0.5					0.5	112.44007	112	1	0.5	112.44007	10/29/11	1:27 AM
474401d21	U-tot	60800			ng/L	160				4104	40	60783.457	60800	4	160	15195.86424	10/29/11	1:29 AM
474401d21	U233 IS	107			%R	0.5					0.5	106.96484	107	4	0.5	106.96484	10/29/11	1:29 AM
474401d21d	U-tot	59600			ng/L	160	2.0%			4025	40	59616.2282	59600	4	160	14904.05705	10/29/11	1:31 AM
474401d21d	U233 IS	104			%R	0.5					0.5	103.53911	104	4	0.5	103.53911	10/29/11	1:31 AM
474402d21	U-tot	30500			ng/L	80				2062	40	30541.5189	30500	2	80	15270.75947	10/29/11	1:34 AM
474402d21	U233 IS	102			%R	0.5					0.5	101.75442	102	2	0.5	101.75442	10/29/11	1:34 AM
474402d21L	U-tot	30000			ng/L	400	1.6%			2038	40	30044.1588	30000	10	400	3004.41588	10/29/11	1:36 AM
474402d21L	U233 IS	105			%R	0.5					0.5	105.1877	105	10	0.5	105.1877	10/29/11	1:36 AM
474402d21D	U-tot	32900			ng/L	80	7.6%			2224	40	32946.6479	32900	2	80	16473.32395	10/29/11	1:38 AM
474402d21D	U233 IS	104			%R	0.5					0.5	104.1441	104	2	0.5	104.1441	10/29/11	1:38 AM
474402d21AS	U-tot	72100			ng/L	80		101.7%	40900	4870	40	72139.0015	72100	2	80	36069.50073	10/29/11	1:41 AM
474402d21AS	U233 IS	104			%R	0.5					0.5	104.07603	104	2	0.5	104.07603	10/29/11	1:41 AM
zzz	U-tot	40.0	U		ng/L	40					40	0.18904	0.189	1	40	0.18904	10/29/11	1:43 AM
zzz	U233 IS	103			%R	0.5					0.5	102.95682	103	1	0.5	102.95682	10/29/11	1:43 AM

Y:\METALS\Nicholle\Fluor\Fluor 110830(12) 110831(5) 110901(7) 110902(3) d10 d14 d21

Fluor
16526.05.006
110830-12/110831-5/110901-7/110902-3
15_00146-15_00152

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
critotU	U-tot	40.9			ng/L	40		102.3%	40.0		40	40.90679	40.9	1	40	40.90679	10/29/11	1:45 AM
critotU	U233 IS	106			%R	0.5					0.5	106.04224	106	1	0.5	106.04224	10/29/11	1:45 AM
ccv	U-tot	7950			ng/L	40		103.7%	7670		40	7952.10931	7950	1	40	7952.10931	10/29/11	1:48 AM
ccv	U233 IS	106			%R	0.5					0.5	105.72461	106	1	0.5	105.72461	10/29/11	1:48 AM
ccb	U-tot	40.0	U		ng/L	40					40	-0.08818	-0.0882	1	40	-0.08818	10/29/11	1:50 AM
ccb	U233 IS	108			%R	0.5					0.5	107.89501	108	1	0.5	107.89501	10/29/11	1:50 AM

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Y:\METALS\Nicholle\Fluor\Fluor 110830(12) 110831(5) 110901(7) 110902(3) d10 d14 d21

Fluor
16526.05.006
110830-12/110831-S/110901-7/110902-3
15_00146-15_00152

Sample Calc = (16830.34482 ng/L) × df 4 = 67,320 ng/L = 67,300 ng/L
474213dx

11/14/11 NS

11/15/11

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	Uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
icv	U-tot	7960			ng/L	40		103.8%	7670		40	7958.83697	7960	1	40	7958.83697	11/10/11	12:15 PM
icv	U233 IS	97.4			%R	0.5					0.5	97.40092	97.4	1	0.5	97.40092	11/10/11	12:15 PM
icb	U-tot	40.0	U		ng/L	40					40	3.52774	3.53	1	40	3.52774	11/10/11	12:17 PM
icb	U233 IS	97.9			%R	0.5					0.5	97.86632	97.9	1	0.5	97.86632	11/10/11	12:17 PM
critotU	U-tot	41.2			ng/L	40		103.0%	40.0		40	41.20156	41.2	1	40	41.20156	11/10/11	12:20 PM
critotU	U233 IS	98.4			%R	0.5					0.5	98.4248	98.4	1	0.5	98.4248	11/10/11	12:20 PM
icsa	U-tot	40.0	U		ng/L	40			0		40	5.64832	5.65	1	40	5.64832	11/10/11	12:22 PM
icsa	U233 IS	87.9			%R	0.5					0.5	87.86413	87.9	1	0.5	87.86413	11/10/11	12:22 PM
icsab	U-tot	20900			ng/L	40		102.5%	20400		40	20918.50489	20900	1	40	20918.50489	11/10/11	12:25 PM
icsab	U233 IS	90.6			%R	0.5					0.5	90.55617	90.6	1	0.5	90.55617	11/10/11	12:25 PM
zzz	U-tot	40.0	U		ng/L	40					40	5.32791	5.33	1	40	5.32791	11/10/11	12:27 PM
zzz	U233 IS	101			%R	0.5					0.5	100.84488	101	1	0.5	100.84488	11/10/11	12:27 PM
ccv	U-tot	7770			ng/L	40		101.3%	7670		40	7768.9512	7770	1	40	7768.9512	11/10/11	12:29 PM
ccv	U233 IS	101			%R	0.5					0.5	101.1098	101	1	0.5	101.1098	11/10/11	12:29 PM
ccb	U-tot	40.0	U		ng/L	40					40	6.90582	6.91	1	40	6.90582	11/10/11	12:32 PM
ccb	U233 IS	101			%R	0.5					0.5	100.716	101	1	0.5	100.716	11/10/11	12:32 PM
BlankdX	U-tot	102000			ng/L	160				6862	40	101646.4453	102000	4	160	25411.61132	11/10/11	12:44 PM
BlankdX	U233 IS	96.6			%R	0.5					0.5	96.62049	96.6	4	0.5	96.62049	11/10/11	12:44 PM
✓ 474213dX	U-tot	67300			ng/L	160				4545	40	67321.37928	67300	4	160	16830.34482	11/10/11	12:46 PM
474213dX	U233 IS	92.5			%R	0.5					0.5	92.48211	92.5	4	0.5	92.48211	11/10/11	12:46 PM
474213dXD	U-tot	69900			ng/L	160				4719	40	69895.68468	69900	4	160	17473.92117	11/10/11	12:48 PM
474213dXD	U233 IS	94.0			%R	0.5					0.5	94.00715	94	4	0.5	94.00715	11/10/11	12:48 PM
474214dX	U-tot	29400			ng/L	40				1987	40	29436.68428	29400	1	40	29436.68428	11/10/11	12:51 PM
474214dX	U233 IS	84.2			%R	0.5					0.5	84.19129	84.2	1	0.5	84.19129	11/10/11	12:51 PM
474214dXD	U-tot	29400			ng/L	40	0.0%			1988	40	29449.52865	29400	1	40	29449.52865	11/10/11	12:53 PM
474214dXD	U233 IS	91.5			%R	0.5					0.5	91.53703	91.5	1	0.5	91.53703	11/10/11	12:53 PM
474221dX	U-tot	57300			ng/L	160				3866	40	57268.2892	57300	4	160	14317.0723	11/10/11	12:55 PM
474221dX	U233 IS	96.0			%R	0.5					0.5	96.00476	96	4	0.5	96.00476	11/10/11	12:55 PM
474221dXD	U-tot	53300			ng/L	160	7.2%			3597	40	53274.2872	53300	4	160	13318.5718	11/10/11	12:58 PM
474221dXD	U233 IS	97.7			%R	0.5					0.5	97.70165	97.7	4	0.5	97.70165	11/10/11	12:58 PM
zzz	U-tot	40.0	U		ng/L	40					40	3.56452	3.56	1	40	3.56452	11/10/11	1:00 PM
zzz	U233 IS	104			%R	0.5					0.5	103.95237	104	1	0.5	103.95237	11/10/11	1:00 PM
critotU	U-tot	40.3			ng/L	40		100.8%	40.0		40	40.29898	40.3	1	40	40.29898	11/10/11	1:02 PM
critotU	U233 IS	99.5			%R	0.5					0.5	99.49879	99.5	1	0.5	99.49879	11/10/11	1:02 PM
ccv	U-tot	7810			ng/L	40		101.8%	7670		40	7813.75689	7810	1	40	7813.75689	11/10/11	1:05 PM
ccv	U233 IS	100			%R	0.5					0.5	100.25776	100	1	0.5	100.25776	11/10/11	1:05 PM
ccb	U-tot	40.0	U		ng/L	40					40	1.06448	1.06	1	40	1.06448	11/10/11	1:07 PM
ccb	U233 IS	101			%R	0.5					0.5	100.95228	101	1	0.5	100.95228	11/10/11	1:07 PM
474222dX	U-tot	35500			ng/L	160				2399	40	35520.89936	35500	4	160	8880.22484	11/10/11	1:10 PM
474222dX	U233 IS	96.8			%R	0.5					0.5	96.82813	96.8	4	0.5	96.82813	11/10/11	1:10 PM
474222dXD	U-tot	41800			ng/L	160	16.3%			2821	40	41776.80904	41800	4	160	10444.20226	11/10/11	1:12 PM

Y:\METALS\Nicholle\Fluor\Fluor 110830(12) 110831(5) 110901(7) 110902(3) dX

Fluor
16S26.05.006
110830-12/110831-5/110901-7/110902-3
15_00146-15_00152

Sample ID	Element	Result	Qual (C)	Qual (Q)	Units	RL	%RPD	%Recovery	TV	Uncert	rl	ng/L	sigwt	Dilution	Calc RL	ng/L	Date	Time
474222dXD	U233 IS	95.7			%R	0.5					0.5	95.67539	95.7	4	0.5	95.67539	11/10/11	1:12 PM
474340dX	U-tot	3440			ng/L	40				233	40	3436.0123	3440	1	40	3436.0123	11/10/11	1:14 PM
474340dX	U233 IS	93.3			%R	0.5					0.5	93.32696	93.3	1	0.5	93.32696	11/10/11	1:14 PM
474340dXL	U-tot	3410			ng/L	200	0.9%			251	40	3412.46855	3410	5	200	682.49371	11/10/11	1:17 PM
474340dXL	U233 IS	100			%R	0.5					0.5	100.42961	100	5	0.5	100.42961	11/10/11	1:17 PM
474340dXD	U-tot	3490			ng/L	40	1.4%			236	40	3490.96439	3490	1	40	3490.96439	11/10/11	1:19 PM
474340dXD	U233 IS	98.2			%R	0.5					0.5	98.16704	98.2	1	0.5	98.16704	11/10/11	1:19 PM
474340dXAS	U-tot	24200			ng/L	40		101.3%	20500	1635	40	24224.86632	24200	1	40	24224.86632	11/10/11	1:21 PM
474340dXAS	U233 IS	97.6			%R	0.5					0.5	97.61572	97.6	1	0.5	97.61572	11/10/11	1:21 PM
zzz	U-tot	40.0	U		ng/L	40					40	8.69193	8.69	1	40	8.69193	11/10/11	1:24 PM
zzz	U233 IS	104			%R	0.5					0.5	104.04548	104	1	0.5	104.04548	11/10/11	1:24 PM
critotU	U-tot	40.0	U		ng/L	40		99.8%	40.0		40	39.90874	39.9	1	40	39.90874	11/10/11	1:26 PM
critotU	U233 IS	104			%R	0.5					0.5	103.8235	104	1	0.5	103.8235	11/10/11	1:26 PM
ccv	U-tot	7920			ng/L	40		103.3%	7670		40	7920.81494	7920	1	40	7920.81494	11/10/11	1:28 PM
ccv	U233 IS	99.8			%R	0.5					0.5	99.82099	99.8	1	0.5	99.82099	11/10/11	1:28 PM
ccb	U-tot	40.0	U		ng/L	40					40	5.35513	5.36	1	40	5.35513	11/10/11	1:31 PM
ccb	U233 IS	102			%R	0.5					0.5	101.96901	102	1	0.5	101.96901	11/10/11	1:31 PM

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☐ 200.8 TAP No. 01-0406-107 Rev 6/Jan 11

☑ 6020 TAP No. 01-0406-046 Rev15/Sep 11

☐ 6020a TAP No. 01-0406-046 Rev15/Sep 11

☐ TAP No. 01-0406-148 Rev 2/Dec 10

☐ Other

ICP-MS CALIB. STD. ID's — **TVs**

S0 11-099-03
STD. 1 11-091-04 — 44933 ng/L
I. STD 02-415-08 — 0.2 ppb
I. STD

QC STD. ID's

ICV/CCV 11-099-04 — 7666 ng/L
UCL
CRI 11-099-05 — 40 ng/L
ICSA 11-099-01 — –
ICSAB 11-099-02 — 20,444 ng/L

ANALYSIS

Total Uranium

IDL Date: 08/10/2011
STD's IV, CCS 1-6 expire 10/1/12
STD's Spex, ME 1-4 expire 9/15/12

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526.65.006	Fluor	110830-12	10/28/11	solid	15-00146-15-00152
↓	↓	110901-7	↓	↓	↓
↓	↓	110831-5 ~~110830-12~~ Ⓡ RE 10/31/11 NS	↓	↓	↓
↓	↓	110902-3	↓	↓	↓

INSTRUMENT: DRCII

FILENAME: 111028.rep

Analyst: N Suter Date: 10/28/11

☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Friday, October 28, 2011 10:04:01
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\Daily Performance Check.396
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

N Seiler
10/28/11

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	9688.1	9688.093	111.581	1.2
	In	114.9	32174.0	32174.042	425.103	1.3
	U	238.1	24868.7	24868.702	79.228	0.3
[>	Ce	139.9	30224.9	30224.896	164.823	0.5
[	CeO	155.9	2148.5	0.071	0.001	1.3
[>	Ba	137.9	270135.4	270135.450	2530.104	0.9
[	Ba++	69.0	5938.6	0.022	0.000	1.6
	Bkgd	220.0	2.6	2.567	0.962	37.5
	Bkgd	8.5	52.8	52.767	3.517	6.7

Current Optimization File Data

Current Value	Description
1.04	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
7.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

10/31/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	4.3	603.0
Co	59	45	5.3	17434.7
In	115	45	6.3	32941.6

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Friday, October 28, 2011 10:04:01
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\Daily Performance Check.396
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

MSeiler
10/28/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2773	2020	0.696	
Mg	23.985	23.925	5673	2031	0.676	
Ar2	75.930	75.925	18319	2063	0.685	
In	114.904	114.925	27819	2088	0.692	
Ce	139.905	139.925	33899	2101	0.694	
Pb	207.977	208.025	50482	2146	0.703	
Th	232.038	232.025	56324	2158	0.712	
U	238.050	238.025	57800	2172	0.678	

Report Date/Time: Friday, October 28, 2011 10:09:04
Page 1

Quantitative Analysis - Summary Report

Sample ID: S-0
Sample Date/Time: Friday, October 28, 2011 11:44:19
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\S-0.419
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	99	80.836	0.000	
	U	235	96	80.795	0.000	
	U	238	110	70.846	0.000	
	U 232	232	86	84.049	0.000	
	U 236	236	82	86.611	0.000	
⌈	U-tot	238	304	76.350	0.000	
⌊>	U233	233	3824	2.214	0.000	
	U233 IS	233	3824	2.214	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	98.667				ng/L
	U	235	95.667				ng/L
	U	238	109.668				ng/L
	U 232	232	85.667				ng/L
	U 236	236	82.001				ng/L
⌈	U-tot	238	0.079				ng/L
⌊>	U233	233	3824.138				ng/L
	U233 IS	233	3824.138	**100.000**	2.21	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: S-1

Sample Date/Time: Friday, October 28, 2011 11:46:43
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\S-1.420
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	104	38.594	0.000	
U	235	6413	0.555	0.000	
U	238	858789	0.313	0.000	
U 232	232	51	91.319	0.000	
U 236	236	230	24.399	0.000	
┌ U-tot	238	865306	0.305	0.000	
└> U233	233	3833	1.732	0.000	
U233 IS	233	3833	1.732	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	104.334				ng/L
U	235	6413.261				ng/L
U	238	858788.868				ng/L
U 232	232	51.000				ng/L
U 236	236	230.336				ng/L
┌ U-tot	238	225.801	**44933.000**	656.16	1.5	ng/L
└> U233	233	3832.808				ng/L
U233 IS	233	3832.808	**100.227**	1.74	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: icv
Sample Date/Time: Friday, October 28, 2011 11:49:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\icv.421
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	23	77.183	0.000	
U	235	1113	2.124	0.000	
U	238	148617	0.129	0.000	
U 232	232	19	104.476	0.000	
U 236	236	107	29.980	0.000	
U-tot	238	149753	0.112	0.000	
U233	233	3847	1.259	0.000	
U233 IS	233	3847	1.259	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	23.333				ng/L
U	235	1113.068				ng/L
U	238	148616.937				ng/L
U 232	232	18.667				ng/L
U 236	236	107.001				ng/L
U-tot	238	38.930	**7733.821**	98.45	1.3	ng/L
U233	233	3847.147				ng/L
U233 IS	233	3847.147	**100.602**	1.27	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: icb
Sample Date/Time: Friday, October 28, 2011 11:51:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\icb.422
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	45	109.612	0.000	
	U	235	39	96.779	0.000	
	U	238	84	52.381	0.000	
	U 232	232	38	124.491	0.000	
	U 236	236	28	126.091	0.000	
┌	U-tot	238	168	77.020	0.000	
└>	U233	233	3836	1.409	0.000	
	U233 IS	233	3836	1.409	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	45.000				ng/L
	U	235	38.667				ng/L
	U	238	84.000				ng/L
	U 232	232	38.333				ng/L
	U 236	236	28.333				ng/L
┌	U-tot	238	0.044	**-6.968**	6.76	97.0	ng/L
└>	U233	233	3836.476				ng/L
	U233 IS	233	3836.476	**100.323**	1.41	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Friday, October 28, 2011 11:53:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.423
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	58	32.225	0.000	
	U	235	65	29.693	0.000	
	U	238	840	4.162	0.000	
	U 232	232	54	49.522	0.000	
	U 236	236	62	43.098	0.000	
⌈	U-tot	238	963	7.356	0.000	
L>	U233	233	3935	0.581	0.000	
	U233 IS	233	3935	0.581	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	57.667				ng/L
	U	235	65.334				ng/L
	U	238	839.705				ng/L
	U 232	232	53.667				ng/L
	U 236	236	61.667				ng/L
⌈	U-tot	238	0.245	**33.007**	3.78	11.4	ng/L
L>	U233	233	3934.851				ng/L
	U233 IS	233	3934.851	**102.895**	0.60	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: icsa
Sample Date/Time: Friday, October 28, 2011 11:56:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\icsa.424
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	67	68.169	0.000	
U	235	72	84.574	0.000	
U	238	180	34.921	0.000	
U 232	232	321	16.647	0.000	
U 236	236	72	87.276	0.000	
┌ U-tot	238	319	53.076	0.000	
└> U233	233	3883	2.051	0.000	
U233 IS	233	3883	2.051	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	66.667				ng/L
U	235	72.000				ng/L
U	238	180.002				ng/L
U 232	232	320.672				ng/L
U 236	236	72.334				ng/L
┌ U-tot	238	0.082	**0.641**	8.78	1371.3	ng/L
└> U233	233	3883.163				ng/L
U233 IS	233	3883.163	**101.543**	2.08	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Friday, October 28, 2011 11:58:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swn\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\icsab.425
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	121	61.507	0.000	
U	235	3172	3.946	0.000	
U	238	423634	0.484	0.000	
U 232	232	347	24.664	0.000	
U 236	236	89	85.873	0.000	
┌ U-tot	238	426927	0.465	0.000	
└> U233	233	4173	1.384	0.000	
U233 IS	233	4173	1.384	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	121.334				ng/L
U	235	3171.887				ng/L
U	238	423634.014				ng/L
U 232	232	346.674				ng/L
U 236	236	88.667				ng/L
┌ U-tot	238	102.326	**20353.589**	210.35	1.0	ng/L
└> U233	233	4172.624				ng/L
U233 IS	233	4172.624	**109.113**	1.51	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Friday, October 28, 2011 12:01:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.426
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	12	56.950	0.000	
	U	235	10	106.598	0.000	
	U	238	28	29.599	0.000	
	U 232	232	8	116.907	0.000	
	U 236	236	7	121.244	0.000	
[	U-tot	238	51	50.412	0.000	
L>	U233	233	4098	2.387	0.000	
	U233 IS	233	4098	2.387	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	12.333				ng/L
	U	235	10.333				ng/L
	U	238	28.333				ng/L
	U 232	232	7.667				ng/L
	U 236	236	6.667				ng/L
[	U-tot	238	0.012	**-13.230**	1.23	9.3	ng/L
L>	U233	233	4097.924				ng/L
	U233 IS	233	4097.924	**107.159**	2.56	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Friday, October 28, 2011 12:03:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.427
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	60	64.679	0.000	
	U	235	1307	1.862	0.000	
	U	238	168526	0.957	0.000	
	U 232	232	44	73.680	0.000	
	U 236	236	150	22.630	0.000	
┌	U-tot	238	169893	0.918	0.000	
└>	U233	233	4377	2.090	0.000	
	U233 IS	233	4377	2.090	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	59.667				ng/L
	U	235	1307.094				ng/L
	U	238	168525.799				ng/L
	U 232	232	44.000				ng/L
	U 236	236	150.335				ng/L
┌	U-tot	238	38.829	**7713.672**	212.15	2.8	ng/L
└>	U233	233	4377.054				ng/L
	U233 IS	233	4377.054	**114.459**	2.39	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Friday, October 28, 2011 12:05:51
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.428
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	28	111.575	0.000	
	U	235	29	140.822	0.000	
	U	238	51	104.835	0.000	
	U 232	232	29	146.420	0.000	
	U 236	236	26	160.050	0.000	
┌	U-tot	238	108	116.273	0.000	
└>	U233	233	4089	1.957	0.000	
	U233 IS	233	4089	1.957	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	28.000				ng/L
	U	235	29.333				ng/L
	U	238	50.667				ng/L
	U 232	232	29.000				ng/L
	U 236	236	26.333				ng/L
┌	U-tot	238	0.026	**-10.524**	5.95	56.5	ng/L
└>	U233	233	4088.920				ng/L
	U233 IS	233	4088.920	**106.924**	2.09	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: Blank d0 df4

Sample Date/Time: Friday, October 28, 2011 12:08:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\Blank d0 df4.429
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	63	87.204	0.000	
	U	235	1802	2.813	0.000	
	U	238	524747	0.522	0.000	
	U 232	232	50	111.128	0.000	
	U 236	236	131	40.213	0.000	
┌	U-tot	238	526612	0.505	0.000	
└>	U233	233	4099	1.636	0.000	
	U233 IS	233	4099	1.636	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	62.667				ng/L
	U	235	1802.179				ng/L
	U	238	524746.846				ng/L
	U 232	232	49.667				ng/L
	U 236	236	131.001				ng/L
┌	U-tot	238	128.502	**25564.366**	496.17	1.9	ng/L
└>	U233	233	4098.924				ng/L
	U233 IS	233	4098.924	**107.186**	1.75	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: Blank d7 df4

Sample Date/Time: Friday, October 28, 2011 12:10:26
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\Blank d7 df4.430
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	39	61.246	0.000	
	U	235	1829	1.921	0.000	
	U	238	522626	0.491	0.000	
	U 232	232	20	94.079	0.000	
	U 236	236	108	18.584	0.000	
┌	U-tot	238	524495	0.480	0.000	
└>	U233	233	4042	1.826	0.000	
	U233 IS	233	4042	1.826	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	39.333				ng/L
	U	235	1828.851				ng/L
	U	238	522626.414				ng/L
	U 232	232	19.667				ng/L
	U 236	236	108.334				ng/L
┌	U-tot	238	129.801	**25822.831**	591.30	2.3	ng/L
└>	U233	233	4041.899				ng/L
	U233 IS	233	4041.899	**105.694**	1.93	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474212d7 df4
Sample Date/Time: Friday, October 28, 2011 12:12:42
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474212d7 df4.431
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	30	74.461	0.000	
U	235	1705	3.434	0.000	
U	238	480168	0.372	0.000	
U 232	232	88	26.364	0.000	
U 236	236	105	27.750	0.000	
⌈ U-tot	238	481903	0.381	0.000	
⌊> U233	233	4011	2.401	0.000	
U233 IS	233	4011	2.401	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	30.000				ng/L
U	235	1704.827				ng/L
U	238	480168.391				ng/L
U 232	232	86.334				ng/L
U 236	236	105.001				ng/L
⌈ U-tot	238	120.192	**23910.169**	545.20	2.3	ng/L
⌊> U233	233	4010.885				ng/L
U233 IS	233	4010.885	**104.883**	2.52	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: 474212d7d df4

Sample Date/Time: Friday, October 28, 2011 12:14:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474212d7d df4.432
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	34	73.882	0.000	
	U	235	1696	0.742	0.000	
	U	238	474854	0.195	0.000	
	U 232	232	96	19.123	0.000	
	U 236	236	100	15.643	0.000	
┌	U-tot	238	476585	0.190	0.000	
└>	U233	233	3989	2.505	0.000	
	U233 IS	233	3989	2.505	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	34.000				ng/L
	U	235	1696.492				ng/L
	U	236	474854.482				ng/L
	U 232	232	96.001				ng/L
	U 236	236	100.334				ng/L
┌	U-tot	238	119.541	**23780.572**	628.40	2.6	ng/L
└>	U233	233	3988.542				ng/L
	U233 IS	233	3986.542	**104.299**	2.61	2.5	%R

Quantitative Analysis - Summary Report

Sample ID: 474213d7 df4
Sample Date/Time: Friday, October 28, 2011 12:17:15
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474213d7 df4.433
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	28	50.000	0.000	
	U	235	1358	3.657	0.000	
	U	238	373928	0.235	0.000	
	U 232	232	64	27.161	0.000	
	U 236	236	71	20.748	0.000	
┌	U-tot	238	375313	0.228	0.000	
└>	U233	233	3920	0.966	0.000	
	U233 IS	233	3920	0.966	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	28.000				ng/L
	U	235	1357.768				ng/L
	U	238	373927.592				ng/L
	U 232	232	64.334				ng/L
	U 236	236	71.000				ng/L
┌	U-tot	238	95.743	**19043.294**	140.25	0.7	ng/L
└>	U233	233	3920.178				ng/L
	U233 IS	233	3920.178	**102.511**	0.99	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474213d7d df4

Sample Date/Time: Friday, October 28, 2011 12:19:33
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474213d7d df4.434
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	77.775	0.000	
	U	235	1326	2.675	0.000	
	U	238	364956	1.254	0.000	
	U 232	232	80	33.899	0.000	
	U 236	236	99	41.746	0.000	
┌	U-tot	238	366329	1.233	0.000	
└>	U233	233	3910	1.650	0.000	
	U233 IS	233	3910	1.650	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	46.667				ng/L
	U	235	1326.430				ng/L
	U	238	364955.842				ng/L
	U 232	232	79.667				ng/L
	U 236	236	99.001				ng/L
┌	U-tot	238	93.708	**18638.215**	454.33	2.4	ng/L
└>	U233	233	3910.174				ng/L
	U233 IS	233	3910.174	**102.250**	1.69	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 474214d7
Sample Date/Time: Friday, October 28, 2011 12:21:50
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474214d7.435
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandate\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	92	24.752	0.000	
	U	235	2579	1.523	0.000	
	U	238	665876	0.072	0.000	
	U 232	232	461	17.289	0.000	
	U 236	236	180	22.160	0.000	
[	U-tot	238	668547	0.070	0.000	
L>	U233	233	3919	2.030	0.000	
	U233 IS	233	3919	2.030	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	92.334				ng/L
	U	235	2578.699				ng/L
	U	238	665875.942				ng/L
	U 232	232	461.345				ng/L
	U 236	236	180.002				ng/L
[	U-tot	238	170.644	**33953.241**	675.48	2.0	ng/L
L>	U233	233	3918.845				ng/L
	U233 IS	233	3918.845	**102.477**	2.08	2.0	%R

010180

Quantitative Analysis - Summary Report

Sample ID: 474214d7d
Sample Date/Time: Friday, October 28, 2011 12:24:09
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474214d7d.438
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	68	51.701	0.000	
	U	235	2420	1.767	0.000	
	U	238	622421	0.364	0.000	
	U 232	232	420	3.968	0.000	
	U 236	236	168	25.885	0.000	
[	U-tot	238	624909	0.353	0.000	
L>	U233	233	3937	0.437	0.000	
	U233 IS	233	3937	0.437	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	68.000				ng/L
	U	235	2420.322				ng/L
	U	238	622420.638				ng/L
	U 232	232	419.676				ng/L
	U 236	236	168.002				ng/L
[	U-tot	238	158.748	**31585.224**	146.13	0.5	ng/L
L>	U233	233	3936.519				ng/L
	U233 IS	233	3936.519	**102.939**	0.45	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Friday, October 28, 2011 12:26:29
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.437
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	12	65.085	0.000	
	U	235	14	63.487	0.000	
	U	238	165	7.594	0.000	
	U 232	232	45	30.062	0.000	
	U 236	236	6	92.518	0.000	
⌈	U-tot	238	191	14.910	0.000	
└>	U233	233	3917	1.956	0.000	
	U233 IS	233	3917	1.956	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	12.000				ng/L
	U	235	14.000				ng/L
	U	238	165.002				ng/L
	U 232	232	45.000				ng/L
	U 236	236	6.333				ng/L
⌈	U-tot	238	0.049	**-6.012**	1.27	21.2	ng/L
└>	U233	233	3916.510				ng/L
	U233 IS	233	3916.510	**102.416**	2.00	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Friday, October 28, 2011 12:28:51
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.438
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	33	88.296	0.000	
	U	235	33	126.582	0.000	
	U	238	890	4.340	0.000	
	U 232	232	27	90.026	0.000	
	U 236	236	26	135.082	0.000	
⌈	U-tot	238	956	10.486	0.000	
↳	U233	233	4058	1.460	0.000	
	U233 IS	233	4058	1.460	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	33.000				ng/L
	U	235	33.333				ng/L
	U	238	890.044				ng/L
	U 232	232	26.667				ng/L
	U 236	236	26.333				ng/L
⌈	U-tot	238	0.235	**31.165**	4.21	13.5	ng/L
↳	U233	233	4058.239				ng/L
	U233 IS	233	4058.239	**106.122**	1.55	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Friday, October 28, 2011 12:31:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.439
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	45	81.258	0.000	
	U	235	1231	2.445	0.000	
	U	238	164046	0.439	0.000	
	U 232	232	30	64.377	0.000	
	U 236	236	126	20.601	0.000	
⌈	U-tot	238	165321	0.466	0.000	
⌊>	U233	233	4143	1.962	0.000	
	U233 IS	233	4143	1.962	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	44.667				ng/L
	U	235	1230.750				ng/L
	U	238	164045.552				ng/L
	U 232	232	30.000				ng/L
	U 236	236	126.334				ng/L
⌈	U-tot	238	39.914	**7929.635**	192.01	2.4	ng/L
⌊>	U233	233	4143.278				ng/L
	U233 IS	233	4143.278	**108.345**	2.13	2.0	%R

010184

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Friday, October 28, 2011 12:33:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.440
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	48	79.413	0.000	
	U	235	48	69.313	0.000	
	U	238	76	52.571	0.000	
	U 232	232	37	75.302	0.000	
	U 236	236	49	69.538	0.000	
┌	U-tot	238	173	64.576	0.000	
└>	U233	233	3970	1.811	0.000	
	U233 IS	233	3970	1.811	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	48.000				ng/L
	U	235	48.334				ng/L
	U	238	76.334				ng/L
	U 232	232	37.333				ng/L
	U 236	236	49.000				ng/L
┌	U-tot	238	0.043	**-7.072**	5.55	78.5	ng/L
└>	U233	233	3969.867				ng/L
	U233 IS	233	3969.867	**103.811**	1.88	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474221d7 df4

Sample Date/Time: Friday, October 28, 2011 12:36:00
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474221d7 df4.441
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	49	71.603	0.000	
U	235	1012	3.025	0.000	
U	238	273477	0.814	0.000	
U 232	232	278	17.763	0.000	
U 236	236	87	45.806	0.000	
┌ U-tot	238	274537	0.788	0.000	
└> U233	233	3901	0.843	0.000	
U233 IS	233	3901	0.843	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	49.000				ng/L
U	235	1011.723				ng/L
U	238	273476.641				ng/L
U 232	232	278.338				ng/L
U 236	236	87.334				ng/L
┌ U-tot	238	70.387	**13995.797**	124.01	0.9	ng/L
└> U233	233	3900.503				ng/L
U233 IS	233	3900.503	**101.997**	0.86	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474221d7d df4

Sample Date/Time: Friday, October 28, 2011 12:38:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474221d7d df4.442
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	70	66.409	0.000	
	U	235	1048	5.969	0.000	
	U	238	273703	0.952	0.000	
	U 232	232	263	15.438	0.000	
	U 236	236	122	47.723	0.000	
┌	U-tot	238	274821	0.938	0.000	
└>	U233	233	3995	1.973	0.000	
	U233 IS	233	3995	1.973	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	70.000				ng/L
	U	235	1048.061				ng/L
	U	238	273703.034				ng/L
	U 232	232	262.671				ng/L
	U 236	236	122.334				ng/L
┌	U-tot	238	68.813	**13682.432**	237.82	1.7	ng/L
└>	U233	233	3994.544				ng/L
	U233 IS	233	3994.544	**104.456**	2.06	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474222d7 df4

Sample Date/Time: Friday, October 28, 2011 12:40:39
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474222d7 df4.443
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	114	52.721	0.000	
U	235	1086	5.060	0.000	
U	238	266701	0.814	0.000	
U 232	232	295	19.872	0.000	
U 236	236	156	31.447	0.000	
U-tot	238	267901	0.789	0.000	
U233	233	3971	0.429	0.000	
U233 IS	233	3971	0.429	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	114.334				ng/L
U	235	1085.732				ng/L
U	238	266701.406				ng/L
U 232	232	295.338				ng/L
U 236	236	155.668				ng/L
U-tot	238	67.463	**13413.774**	161.45	1.2	ng/L
U233	233	3971.201				ng/L
U233 IS	233	3971.201	**103.846**	0.45	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: 474222d7d df4
Sample Date/Time: Friday, October 28, 2011 12:42:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474222d7d df4.444
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	39	118.255	0.000	
U	235	952	10.634	0.000	
U	238	255117	0.950	0.000	
U 232	232	459	9.954	0.000	
U 236	236	74	56.922	0.000	
U-tot	238	256108	0.889	0.000	
U233	233	3975	0.398	0.000	
U233 IS	233	3975	0.398	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	39.000				ng/L
U	235	951.717				ng/L
U	238	255116.998				ng/L
U 232	232	458.678				ng/L
U 236	236	73.667				ng/L
U-tot	238	64.425	**12809.051**	63.32	0.5	ng/L
U233	233	3975.202				ng/L
U233 IS	233	3975.202	**103.950**	0.41	0.4	%R

Page 1
Sample ID: 474222d7d df4
Report Date/Time: Friday, October 28, 2011 12:43:29

Quantitative Analysis - Summary Report

Sample ID: 474300d7 df4

Sample Date/Time: Friday, October 28, 2011 12:45:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474300d7 df4.445
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	76	111.750	0.000	
U	235	1613	5.085	0.000	
U	238	442115	0.923	0.000	
U 232	232	508	23.325	0.000	
U 236	236	158	68.814	0.000	
┌ U-tot	238	443804	0.886	0.000	
└> U233	233	3987	1.565	0.000	
U233 IS	233	3987	1.565	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	76.001				ng/L
U	235	1613.143				ng/L
U	238	442114.969				ng/L
U 232	232	508.348				ng/L
U 236	236	158.002				ng/L
┌ U-tot	238	111.343	**22148.528**	514.33	2.3	ng/L
└> U233	233	3986.874				ng/L
U233 IS	233	3986.874	**104.256**	1.63	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474300d7d df4

Sample Date/Time: Friday, October 28, 2011 12:47:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474300d7d df4.446
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	101.107	0.000	
	U	235	1519	4.335	0.000	
	U	238	423516	1.198	0.000	
	U 232	232	730	2.069	0.000	
	U 236	236	110	38.193	0.000	
[	U-tot	238	425082	1.181	0.000	
L>	U233	233	3860	1.614	0.000	
	U233 IS	233	3860	1.614	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	47.334				ng/L
	U	235	1519.127				ng/L
	U	238	423515.761				ng/L
	U 232	232	730.029				ng/L
	U 236	236	109.667				ng/L
[	U-tot	238	110.146	**21910.348**	389.14	1.8	ng/L
L>	U233	233	3859.819				ng/L
	U233 IS	233	3859.819	**100.933**	1.63	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474301d7 df4

Sample Date/Time: Friday, October 28, 2011 12:49:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474301d7 df4.447
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	46	109.336	0.000	
	U	235	1514	5.120	0.000	
	U	238	415057	0.656	0.000	
	U 232	232	164	29.741	0.000	
	U 236	236	110	50.014	0.000	
[	U-tot	238	416618	0.625	0.000	
L>	U233	233	3983	2.863	0.000	
	U233 IS	233	3983	2.863	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	46.334				ng/L
	U	235	1514.460				ng/L
	U	238	415057.101				ng/L
	U 232	232	164.002				ng/L
	U 236	236	109.667				ng/L
[	U-tot	238	104.680	**20822.202**	716.10	3.4	ng/L
L>	U233	233	3982.539				ng/L
	U233 IS	233	3982.539	**104.142**	2.98	2.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474301d7d df4

Sample Date/Time: Friday, October 28, 2011 12:52:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474301d7d df4.448
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	103	39.330	0.000	
U	235	1529	4.158	0.000	
U	238	404516	0.255	0.000	
U 232	232	193	11.446	0.000	
U 236	236	170	20.306	0.000	
┌ U-tot	238	406148	0.230	0.000	
└> U233	233	4033	1.923	0.000	
U233 IS	233	4033	1.923	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	103.001				ng/L
U	235	1529.462				ng/L
U	238	404515.640				ng/L
U 232	232	192.669				ng/L
U 236	236	170.335				ng/L
┌ U-tot	238	100.729	**20035.669**	436.30	2.2	ng/L
└> U233	233	4033.228				ng/L
U233 IS	233	4033.228	**105.468**	2.03	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Friday, October 28, 2011 12:54:32
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.449
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	79	41.335	0.000	
U	235	88	26.846	0.000	
U	238	117	23.825	0.000	
U 232	232	87	30.215	0.000	
U 236	236	67	30.411	0.000	
⌈ U-tot	238	284	29.028	0.000	
L> U233	233	4063	1.731	0.000	
U233 IS	233	4063	1.731	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	76.667				ng/L
U	235	86.334				ng/L
U	238	117.001				ng/L
U 232	232	87.000				ng/L
U 236	236	87.000				ng/L
⌈ U-tot	238	0.070	**-1.801**	3.98	221.2	ng/L
L> U233	233	4063.241				ng/L
U233 IS	233	4063.241	**106.252**	1.84	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Friday, October 28, 2011 12:56:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.450
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	62	82.369	0.000	
	U	235	64	74.377	0.000	
	U	238	912	5.222	0.000	
	U 232	232	52	75.663	0.000	
	U 236	236	73	93.847	0.000	
┌	U-tot	238	1038	14.046	0.000	
└>	U233	233	4121	2.406	0.000	
	U233 IS	233	4121	2.406	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	62.000				ng/L
	U	235	63.667				ng/L
	U	238	912.046				ng/L
	U 232	232	52.000				ng/L
	U 236	236	73.334				ng/L
┌	U-tot	238	0.252	**34.459**	7.31	21.2	ng/L
└>	U233	233	4121.268				ng/L
	U233 IS	233	4121.268	**107.770**	2.59	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Friday, October 28, 2011 12:59:18
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.451
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	53	122.529	0.000	
	U	235	1270	4.986	0.000	
	U	238	165747	0.638	0.000	
	U 232	232	37	143.206	0.000	
	U 236	236	140	39.324	0.000	
┌	U-tot	238	167069	0.619	0.000	
└>	U233	233	4235	2.050	0.000	
	U233 IS	233	4235	2.050	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	52.667				ng/L
	U	235	1270.089				ng/L
	U	238	165746.682				ng/L
	U 232	232	37.334				ng/L
	U 236	236	140.335				ng/L
┌	U-tot	238	39.464	**7840.160**	209.55	2.7	ng/L
└>	U233	233	4234.986				ng/L
	U233 IS	233	4234.986	**110.744**	2.27	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Friday, October 28, 2011 13:01:42
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.452
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	51	122.326	0.000	
	U	235	44	131.582	0.000	
	U	238	68	92.570	0.000	
	U 232	232	39	133.793	0.000	
	U 236	236	31	129.956	0.000	
┌	U-tot	238	163	112.016	0.000	
└>	U233	233	4126	1.611	0.000	
	U233 IS	233	4126	1.611	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	50.667				ng/L
	U	235	43.667				ng/L
	U	238	68.334				ng/L
	U 232	232	38.667				ng/L
	U 236	236	31.000				ng/L
┌	U-tot	238	0.039	**-7.949**	8.60	108.1	ng/L
└>	U233	233	4125.603				ng/L
	U233 IS	233	4125.603	**107.883**	1.74	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474302d7 df4

Sample Date/Time: Friday, October 28, 2011 13:04:02
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474302d7 df4.453
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	96	57.106	0.000	
	U	235	1495	6.560	0.000	
	U	238	387637	0.467	0.000	
	U 232	232	404	13.624	0.000	
	U 236	236	160	26.397	0.000	
┌	U-tot	238	389229	0.466	0.000	
└>	U233	233	3910	1.576	0.000	
	U233 IS	233	3910	1.576	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	96.334				ng/L
	U	235	1495.457				ng/L
	U	238	387637.376				ng/L
	U 232	232	404.342				ng/L
	U 236	236	159.668				ng/L
┌	U-tot	238	99.564	**19803.875**	254.47	1.3	ng/L
└>	U233	233	3909.841				ng/L
	U233 IS	233	3909.841	**102.241**	1.61	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474302d7d df4

Sample Date/Time: Friday, October 28, 2011 13:06:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474302d7d df4.454
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	46	76.773	0.000	
U	235	1446	4.428	0.000	
U	238	396907	1.056	0.000	
U 232	232	361	14.063	0.000	
U 236	236	111	20.955	0.000	
┌ U-tot	238	398399	1.040	0.000	
└> U233	233	3832	2.043	0.000	
U233 IS	233	3832	2.043	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	46.333				ng/L
U	235	1445.782				ng/L
U	238	396906.932				ng/L
U 232	232	360.674				ng/L
U 236	236	111.001				ng/L
┌ U-tot	238	103.994	**20685.660**	603.72	2.9	ng/L
└> U233	233	3832.475				ng/L
U233 IS	233	3832.475	**100.218**	2.05	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474340d7
Sample Date/Time: Friday, October 28, 2011 13:08:33
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474340d7.455
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	46	97.050	0.000	
	U	235	489	6.856	0.000	
	U	238	112808	0.603	0.000	
	U 232	232	571	3.619	0.000	
	U 236	236	50	88.882	0.000	
⌈	U-tot	238	113343	0.559	0.000	
⌊>	U233	233	3700	2.512	0.000	
	U233 IS	233	3700	2.512	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	46.000				ng/L
	U	235	489.347				ng/L
	U	238	112807.606				ng/L
	U 232	232	571.018				ng/L
	U 236	236	50.000				ng/L
⌈	U-tot	238	30.642	**6084.090**	118.77	2.0	ng/L
⌊>	U233	233	3700.086				ng/L
	U233 IS	233	3700.086	**96.756**	2.43	2.5	%R

010200

Quantitative Analysis - Summary Report

Sample ID: 474340d7d
Sample Date/Time: Friday, October 28, 2011 13:10:50
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474340d7d.456
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	72	73.401	0.000	
	U	235	486	9.905	0.000	
	U	238	109104	0.562	0.000	
	U 232	232	559	5.778	0.000	
	U 236	236	68	56.008	0.000	
┌	U-tot	238	109662	0.600	0.000	
└>	U233	233	3725	1.989	0.000	
	U233 IS	233	3725	1.989	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	72.000				ng/L
	U	235	486.013				ng/L
	U	238	109103.809				ng/L
	U 232	232	559.351				ng/L
	U 236	236	67.667				ng/L
┌	U-tot	238	29.444	**5845.540**	82.74	1.4	ng/L
└>	U233	233	3725.097				ng/L
	U233 IS	233	3725.097	**97.410**	1.94	2.0	%R

010201

Quantitative Analysis - Summary Report

Sample ID: 474341d7 df4
Sample Date/Time: Friday, October 28, 2011 13:13:07
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474341d7 df4.457
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	91.043	0.000	
	U	235	1297	4.376	0.000	
	U	238	348239	0.562	0.000	
	U 232	232	249	22.028	0.000	
	U 236	236	97	67.532	0.000	
[	U-tot	238	349583	0.536	0.000	
L>	U233	233	4152	1.350	0.000	
	U233 IS	233	4152	1.350	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	47.000				ng/L
	U	235	1297.426				ng/L
	U	238	348238.643				ng/L
	U 232	232	248.670				ng/L
	U 236	236	97.001				ng/L
[	U-tot	238	84.205	**16746.341**	310.47	1.9	ng/L
L>	U233	233	4152.282				ng/L
	U233 IS	233	4152.282	**108.581**	1.47	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: 474341d7d df4

Sample Date/Time: Friday, October 28, 2011 13:15:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474341d7d df4.458
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	38	91.313	0.000	
U	235	1292	7.009	0.000	
U	238	349888	0.337	0.000	
U 232	232	146	22.541	0.000	
U 236	236	96	53.227	0.000	
U-tot	238	351218	0.355	0.000	
U233	233	4253	1.582	0.000	
U233 IS	233	4253	1.582	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	38.000				ng/L
U	235	1291.759				ng/L
U	238	349888.461				ng/L
U 232	232	146.001				ng/L
U 236	236	96.001				ng/L
U-tot	238	82.599	**16426.653**	203.35	1.2	ng/L
U233	233	4252.661				ng/L
U233 IS	233	4252.661	**111.206**	1.76	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474344d7 df4

Sample Date/Time: Friday, October 28, 2011 13:17:43
Sample Description:
Solution Type: Semple
Blenk File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474344d7 df4.459
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	17	32.752	0.000	
U	235	989	2.851	0.000	
U	238	285678	1.223	0.000	
U 232	232	87	8.347	0.000	
U 236	236	60	31.111	0.000	
┌ U-tot	238	286684	1.212	0.000	
└> U233	233	4178	2.572	0.000	
U233 IS	233	4178	2.572	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	17.000				ng/L
U	235	988.720				ng/L
U	238	285677.980				ng/L
U 232	232	86.667				ng/L
U 236	236	60.334				ng/L
┌ U-tot	238	68.634	**13646.894**	191.20	1.4	ng/L
└> U233	233	4177.960				ng/L
U233 IS	233	4177.960	**109.252**	2.81	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474344d7d df4

Sample Date/Time: Friday, October 28, 2011 13:20:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474344d7d df4.460
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	69	43.205	0.000	
U	235	1001	5.594	0.000	
U	238	266889	0.738	0.000	
U 232	232	176	32.365	0.000	
U 236	236	106	29.662	0.000	
U-tot	238	267960	0.720	0.000	
U233	233	4180	0.472	0.000	
U233 IS	233	4180	0.472	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	69.334				ng/L
U	235	1001.389				ng/L
U	238	266889.100				ng/L
U 232	232	175.668				ng/L
U 236	236	105.667				ng/L
U-tot	238	64.102	**12744.580**	108.91	0.9	ng/L
U233	233	4180.294				ng/L
U233 IS	233	4180.294	**109.313**	0.52	0.5	%R

010205

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Friday, October 28, 2011 13:22:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.461
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	70	38.519	0.000	
	U	235	64	34.904	0.000	
	U	238	107	17.831	0.000	
	U 232	232	69	31.784	0.000	
	U 236	236	60	49.622	0.000	
⌈	U-tot	238	241	26.798	0.000	
⌊>	U233	233	4244	1.538	0.000	
	U233 IS	233	4244	1.538	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	70.000				ng/L
	U	235	64.000				ng/L
	U	238	107.001				ng/L
	U 232	232	66.667				ng/L
	U 236	236	60.334				ng/L
⌈	U-tot	238	0.057	**-4.382**	3.13	71.5	ng/L
⌊>	U233	233	4244.324				ng/L
	U233 IS	233	4244.324	**110.988**	1.71	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Friday, October 28, 2011 13:24:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.462
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	69	51.619	0.000	
U	235	64	46.953	0.000	
U	238	982	4.215	0.000	
U 232	232	54	50.281	0.000	
U 236	236	57	45.758	0.000	
⌈ U-tot	238	1115	9.012	0.000	
└> U233	233	4335	0.597	0.000	
U233 IS	233	4335	0.597	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	68.667				ng/L
U	235	64.000				ng/L
U	238	982.386				ng/L
U 232	232	54.334				ng/L
U 236	236	56.667				ng/L
⌈ U-tot	238	0.257	**35.515**	4.89	13.8	ng/L
└> U233	233	4335.033				ng/L
U233 IS	233	4335.033	**113.360**	0.68	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Friday, October 28, 2011 13:27:07
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.463
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	80	62.450	0.000	
	U	235	1329	3.642	0.000	
	U	238	172936	0.062	0.000	
	U 232	232	56	77.344	0.000	
	U 236	236	171	11.061	0.000	
⌈	U-tot	238	174345	0.090	0.000	
└>	U233	233	4400	2.235	0.000	
	U233 IS	233	4400	2.235	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	80.000				ng/L
	U	235	1326.764				ng/L
	U	238	172936.387				ng/L
	U 232	232	56.000				ng/L
	U 236	236	170.668				ng/L
⌈	U-tot	238	39.639	**7875.025**	173.45	2.2	ng/L
└>	U233	233	4399.731				ng/L
	U233 IS	233	4399.731	**115.052**	2.57	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Friday, October 28, 2011 13:29:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.464
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	41	110.772	0.000	
U	235	31	136.581	0.000	
U	238	53	88.788	0.000	
U 232	232	32	143.340	0.000	
U 236	236	21	173.205	0.000	
┌ U-tot	238	125	107.599	0.000	
└> U233	233	4323	0.857	0.000	
U233 IS	233	4323	0.857	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	41.334				ng/L
U	235	30.667				ng/L
U	238	53.334				ng/L
U 232	232	31.667				ng/L
U 236	236	21.333				ng/L
┌ U-tot	238	0.029	**-9.936**	6.21	62.5	ng/L
└> U233	233	4323.028				ng/L
U233 IS	233	4323.028	**113.046**	0.97	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474401d7 df4
Sample Date/Time: Friday, October 28, 2011 13:31:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474401d7 df4.465
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	38	50.814	0.000	
	U	235	1374	6.369	0.000	
	U	238	368120	0.058	0.000	
	U 232	232	174	9.326	0.000	
	U 236	236	83	48.238	0.000	
┌	U-tot	238	369532	0.058	0.000	
└>	U233	233	4133	1.622	0.000	
	U233 IS	233	4133	1.622	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	37.667				ng/L
	U	235	1374.104				ng/L
	U	238	368119.937				ng/L
	U 232	232	174.335				ng/L
	U 236	236	83.000				ng/L
┌	U-tot	238	89.434	**17787.286**	280.28	1.6	ng/L
└>	U233	233	4132.606				ng/L
	U233 IS	233	4132.606	**108.066**	1.75	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474401d7d df4

Sample Date/Time: Friday, October 28, 2011 13:34:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474401d7d df4.466
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	71	43.826	0.000	
	U	235	1308	4.264	0.000	
	U	238	340057	0.494	0.000	
	U 232	232	183	9.481	0.000	
	U 236	236	131	21.003	0.000	
┌	U-tot	238	341437	0.481	0.000	
└>	U233	233	4050	0.313	0.000	
	U233 IS	233	4050	0.313	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	71.334				ng/L
	U	235	1308.428				ng/L
	U	238	340057.477				ng/L
	U 232	232	183.002				ng/L
	U 236	236	131.001				ng/L
┌	U-tot	238	84.302	**16765.699**	127.05	0.8	ng/L
└>	U233	233	4050.235				ng/L
	U233 IS	233	4050.235	**105.912**	0.33	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d7 df

Sample Date/Time: Friday, October 28, 2011 13:36:32
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d7 df.467
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	33	60.378	0.000	
	U	235	1360	1.785	0.000	
	U	238	381859	0.280	0.000	
	U 232	232	776	3.867	0.000	
	U 236	236	87	31.999	0.000	
[	U-tot	238	383252	0.273	0.000	
L>	U233	233	3984	0.651	0.000	
	U233 IS	233	3984	0.651	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	33.000				ng/L
	U	235	1360.102				ng/L
	U	238	381859.311				ng/L
	U 232	232	776.367				ng/L
	U 236	236	87.000				ng/L
[	U-tot	238	96.205	**19135.146**	176.10	0.9	ng/L
L>	U233	233	3983.873				ng/L
	U233 IS	233	3983.873	**104.177**	0.68	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d7L df10
Sample Date/Time: Friday, October 28, 2011 13:38:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d7L df10.468
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	11	28.364	0.000	
U	235	287	4.324	0.000	
U	238	79054	0.821	0.000	
U 232	232	210	8.198	0.000	
U 236	236	21	21.819	0.000	
U-tot	238	79353	0.834	0.000	
U233	233	4175	1.205	0.000	
U233 IS	233	4175	1.205	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	11.333				ng/L
U	235	287.338				ng/L
U	238	79054.254				ng/L
U 232	232	210.336				ng/L
U 236	236	20.667				ng/L
U-tot	238	19.008	**3768.023**	64.32	1.7	ng/L
U233	233	4175.292				ng/L
U233 IS	233	4175.292	**109.183**	1.32	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d7D df2

Sample Date/Time: Friday, October 28, 2011 13:41:13
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d7D df2.469
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	24	47.115	0.000	
	U	235	1230	4.200	0.000	
	U	238	344981	0.254	0.000	
	U 232	232	951	2.687	0.000	
	U 236	236	75	8.917	0.000	
⌈	U-tot	238	346235	0.265	0.000	
↳	U233	233	4080	1.253	0.000	
	U233 IS	233	4080	1.253	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	23.667				ng/L
	U	235	1230.417				ng/L
	U	238	344980.789				ng/L
	U 232	232	950.716				ng/L
	U 236	236	74.667				ng/L
⌈	U-tot	238	84.873	**16879.333**	228.78	1.4	ng/L
↳	U233	233	4079.915				ng/L
	U233 IS	233	4079.915	**106.689**	1.34	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d7AS df2
Sample Date/Time: Friday, October 28, 2011 13:43:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

spiked 20uL 1° natural uranium @ df100 (875-Rad-5012) (11-064-06) in 10mL

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d7AS df2.470
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

TV = 20,462 ng/L × df 2 = 40,924 ng/L
10/31/11 NS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	67	58.984	0.000	
	U	235	4490	3.584	0.000	
	U	238	789655	2.995	0.000	
	U 232	232	826	3.029	0.000	
	U 236	236	106	43.611	0.000	
⌈	U-tot	238	794213	2.989	0.000	
↳	U233	233	4063	3.146	0.000	
	U233 IS	233	4063	3.146	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	67.334				ng/L
	U	235	4490.443				ng/L
	U	238	789655.113				ng/L
	U 232	232	825.704				ng/L
	U 236	236	106.001				ng/L
⌈	U-tot	238	195.506	**38902.395**	714.15	1.8	ng/L
↳	U233	233	4062.908				ng/L
	U233 IS	233	4062.908	**106.244**	3.34	3.1	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Friday, October 28, 2011 13:45:50
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.471
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	44	68.295	0.000	
	U	235	41	73.784	0.000	
	U	238	106	52.814	0.000	
	U 232	232	94	41.161	0.000	
	U 236	236	47	103.995	0.000	
┌	U-tot	238	190	60.057	0.000	
└>	U233	233	4153	2.720	0.000	
	U233 IS	233	4153	2.720	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	44.000				ng/L
	U	235	40.667				ng/L
	U	238	105.667				ng/L
	U 232	232	94.001				ng/L
	U 236	236	47.000				ng/L
┌	U-tot	238	0.045	**-6.658**	5.36	80.5	ng/L
└>	U233	233	4152.949				ng/L
	U233 IS	233	4152.949	**108.598**	2.95	2.7	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Friday, October 28, 2011 13:48:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.472
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	28	124.300	0.000	
	U	235	31	125.972	0.000	
	U	238	941	3.039	0.000	
	U 232	232	36	88.499	0.000	
	U 236	236	25	131.137	0.000	
┌	U-tot	238	1000	10.153	0.000	
└>	U233	233	4237	1.474	0.000	
	U233 IS	233	4237	1.474	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	28.333				ng/L
	U	235	31.000				ng/L
	U	238	940.715				ng/L
	U 232	232	35.667				ng/L
	U 236	236	24.667				ng/L
┌	U-tot	238	0.236	**31.288**	4.92	15.7	ng/L
└>	U233	233	4237.321				ng/L
	U233 IS	233	4237.321	**110.805**	1.63	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Friday, October 28, 2011 13:50:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.473
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	115	39.477	0.000	
	U	235	1369	5.978	0.000	
	U	238	171050	0.804	0.000	
	U 232	232	113	59.978	0.000	
	U 236	236	215	22.077	0.000	
┌	U-tot	238	172534	0.852	0.000	
└>	U233	233	4485	1.134	0.000	
	U233 IS	233	4485	1.134	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	115.001				ng/L
	U	235	1369.103				ng/L
	U	238	171050.270				ng/L
	U 232	232	112.668				ng/L
	U 236	236	215.003				ng/L
┌	U-tot	238	38.468	**7641.834**	88.17	1.2	ng/L
└>	U233	233	4485.440				ng/L
	U233 IS	233	4485.440	**117.293**	1.33	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Friday, October 28, 2011 13:52:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.474
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	66	70.238	0.000	
U	235	63	82.553	0.000	
U	238	81	68.338	0.000	
U 232	232	60	80.905	0.000	
U 236	236	54	86.628	0.000	
⌈ U-tot	238	210	72.169	0.000	
⌊> U233	233	4401	1.537	0.000	
U233 IS	233	4401	1.537	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	66.000				ng/L
U	235	62.667				ng/L
U	238	81.334				ng/L
U 232	232	59.667				ng/L
U 236	236	53.667				ng/L
⌈ U-tot	238	0.048	**-6.210**	6.86	110.4	ng/L
⌊> U233	233	4401.399				ng/L
U233 IS	233	4401.399	**115.095**	1.77	1.5	%R

010219

SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 6/Jan 11

☒ 6020 TAP No. 01-0406-046 Rev15/Sep 11

☐ 6020a TAP No. 01-0406-046 Rev15/Sep 11

☐ TAP No. 01-0406-148 Rev 2/Dec 10

☐ Other______________________

ICP-MS CALIB. STD. ID's		**TVs**
S0	11-099-07	
STD. 1	11-091-04	44933 ng/L
I. STD	02-415-08	0.2 ppb
I. STD		

QC STD. ID's		
ICV/CCV	11-099-08	7666 ng/L
UCL		
CRI	11-099-11	40 ng/L
ICSA	11-099-09	—
ICSAB	11-099-10	20,444 ng/L

ANALYSIS

Total Uranium

IDL Date: 08/10/2011
STD's IV, CCS 1-6 expire 10/1/12
STD's Spex, ME 1-4 expire 9/15/12

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16526.05.006	Fluor	110830-12	10/28/11	Solid	15-00146 - 15-00152
		110901-7			
		110831-5			
		110902-3			

INSTRUMENT: DRCII

FILENAME: 111028C.rep

Analyst: N. Seiler

Date: 10 / 31 / 11

☐ CONVERTED (.DAT)

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Friday, October 28, 2011 10:04:01
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\Daily Performance Check.396
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

NSeiler
10/28/11

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24.0	9688.1	9688.093	111.581	1.2
In	114.9	32174.0	32174.042	425.103	1.3
U	238.1	24868.7	24868.702	79.228	0.3
⌈> Ce	139.9	30224.9	30224.896	164.823	0.5
⌊ CeO	155.9	2148.5	0.071	0.001	1.3
⌈> Ba	137.9	270135.4	270135.450	2530.104	0.9
⌊ Ba++	69.0	5938.6	0.022	0.000	1.6
Bkgd	220.0	2.6	2.567	0.962	37.5
Bkgd	8.5	52.8	52.767	3.517	6.7

Current Optimization File Data

Current Value	Description
1.04	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
7.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

10/31/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	4.3	603.0
Co	59	45	5.3	17434.7
In	115	45	6.3	32941.6

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Friday, October 28, 2011 10:04:01
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\Daily Performance Check.396
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

MSeiler
10/28/11

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2773	2020	0.696	
Mg	23.985	23.925	5673	2031	0.676	
Ar2	75.930	75.925	18319	2063	0.685	
In	114.904	114.925	27819	2088	0.692	
Ce	139.905	139.925	33899	2101	0.694	
Pb	207.977	208.025	50482	2146	0.703	
Th	232.038	232.025	56324	2158	0.712	
U	238.050	238.025	57800	2172	0.678	

Report Date/Time: Friday, October 28, 2011 10:09:04
Page 1

Quantitative Analysis - Summary Report

Sample ID: S-0
Sample Date/Time: Friday, October 28, 2011 20:13:48
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\S-0.560
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	70	35.170	0.000	
	U	235	53	37.118	0.000	
	U	238	98	29.111	0.000	
	U 232	232	54	47.286	0.000	
	U 236	236	61	52.740	0.000	
[	U-tot	238	220	30.880	0.000	
L>	U233	233	4410	0.557	0.000	
	U233 IS	233	4410	0.557	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	69.667				ng/L
	U	235	53.000				ng/L
	U	238	97.667				ng/L
	U 232	232	54.000				ng/L
	U 236	236	61.334				ng/L
[	U-tot	238	0.050				ng/L
L>	U233	233	4410.069				ng/L
	U233 IS	233	4410.069	**100.000**	0.56	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: S-1

Sample Date/Time: Friday, October 28, 2011 20:16:12
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\S-1.561
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	152	25.104	0.000	
U	235	7609	2.026	0.000	
U	238	1028234	0.702	0.000	
U 232	232	74	28.358	0.000	
U 236	236	293	20.371	0.000	
┌ U-tot	238	1035996	0.698	0.000	
└> U233	233	4621	2.234	0.000	
U233 IS	233	4621	2.234	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	152.001				ng/L
U	235	7609.184				ng/L
U	238	1028234.408				ng/L
U 232	232	74.334				ng/L
U 236	236	292.672				ng/L
┌ U-tot	238	224.263	**44933.000**	875.13	1.9	ng/L
└> U233	233	4620.841				ng/L
U233 IS	233	4620.841	**104.779**	2.34	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Friday, October 28, 2011 20:18:36
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\icv.562
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	106	15.152	0.000	
	U	235	1388	4.899	0.000	
	U	238	173105	0.397	0.000	
	U 232	232	80	34.292	0.000	
	U 236	236	183	10.426	0.000	
⌈	U-tot	238	174599	0.428	0.000	
⌊>	U233	233	4555	0.774	0.000	
	U233 IS	233	4555	0.774	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	105.667				ng/L
	U	235	1388.440				ng/L
	U	238	173104.559				ng/L
	U 232	232	79.667				ng/L
	U 236	236	183.002				ng/L
⌈	U-tot	238	38.330	**7671.358**	91.97	1.2	ng/L
⌊>	U233	233	4555.474				ng/L
	U233 IS	233	4555.474	**103.297**	0.80	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: icb

Sample Date/Time: Friday, October 28, 2011 20:21:00
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\icb.563
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	94	43.972	0.000	
	U	235	92	50.138	0.000	
	U	238	125	36.040	0.000	
	U 232	232	88	52.140	0.000	
	U 236	236	89	55.025	0.000	
┌	U-tot	238	311	42.553	0.000	
└>	U233	233	4568	0.628	0.000	
	U233 IS	233	4568	0.628	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	93.667				ng/L
	U	235	91.667				ng/L
	U	238	125.334				ng/L
	U 232	232	87.667				ng/L
	U 236	236	88.667				ng/L
┌	U-tot	238	0.068	**3.589**	5.75	160.3	ng/L
└>	U233	233	4568.481				ng/L
	U233 IS	233	4568.481	**103.592**	0.65	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Friday, October 28, 2011 20:23:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.564
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	99	26.319	0.000	
	U	235	105	28.604	0.000	
	U	238	1012	3.057	0.000	
	U 232	232	75	31.112	0.000	
	U 236	236	102	29.001	0.000	
[	U-tot	238	1215	6.629	0.000	
L>	U233	233	4598	1.720	0.000	
	U233 IS	233	4598	1.720	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	98.667				ng/L
	U	235	104.667				ng/L
	U	238	1011.723				ng/L
	U 232	232	75.334				ng/L
	U 236	236	101.667				ng/L
[	U-tot	238	0.264	**42.911**	2.60	6.1	ng/L
L>	U233	233	4597.829				ng/L
	U233 IS	233	4597.829	**104.258**	1.79	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: icsa
Sample Date/Time: Friday, October 28, 2011 20:25:46
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\icsa.565
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	54.372	0.000	
	U	235	43	63.642	0.000	
	U	238	174	27.664	0.000	
	U 232	232	269	14.926	0.000	
	U 236	236	40	75.870	0.000	
⌈	U-tot	238	264	37.826	0.000	
↳	U233	233	3909	1.056	0.000	
	U233 IS	233	3909	1.056	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	47.333				ng/L
	U	235	42.667				ng/L
	U	238	174.002				ng/L
	U 232	232	269.004				ng/L
	U 236	236	40.000				ng/L
⌈	U-tot	238	0.067	**3.481**	4.96	142.3	ng/L
↳	U233	233	3908.840				ng/L
	U233 IS	233	3908.840	**88.634**	0.94	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: icsab

Sample Date/Time: Friday, October 28, 2011 20:28:10
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\icsab.566
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	94	47.350	0.000	
	U	235	3148	1.167	0.000	
	U	238	422372	0.256	0.000	
	U 232	232	320	10.565	0.000	
	U 236	236	63	60.750	0.000	
⌈	U-tot	238	425614	0.260	0.000	
↳	U233	233	4090	0.676	0.000	
	U233 IS	233	4090	0.676	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	94.001				ng/L
	U	235	3147.545				ng/L
	U	238	422372.184				ng/L
	U 232	232	320.006				ng/L
	U 236	236	63.334				ng/L
⌈	U-tot	238	104.067	**20845.270**	119.45	0.6	ng/L
↳	U233	233	4089.920				ng/L
	U233 IS	233	4089.920	**92.740**	0.63	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Friday, October 28, 2011 20:30:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.567
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	75	58.690	0.000	
	U	235	71	89.658	0.000	
	U	238	90	61.584	0.000	
	U 232	232	65	63.189	0.000	
	U 236	236	72	76.980	0.000	
┌	U-tot	238	236	68.989	0.000	
└>	U233	233	4390	2.027	0.000	
	U233 IS	233	4390	2.027	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	74.667				ng/L
	U	235	71.334				ng/L
	U	238	90.001				ng/L
	U 232	232	65.334				ng/L
	U 236	236	72.000				ng/L
┌	U-tot	238	0.054	**0.708**	7.28	1029.5	ng/L
└>	U233	233	4389.727				ng/L
	U233 IS	233	4389.727	**99.539**	2.02	2.0	%R

010230

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Friday, October 28, 2011 20:32:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.568
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	156	21.789	0.000	
	U	235	1384	2.187	0.000	
	U	238	171438	0.638	0.000	
	U 232	232	124	12.312	0.000	
	U 236	236	241	10.595	0.000	
┌	U-tot	238	172978	0.643	0.000	
└>	U233	233	4460	3.488	0.000	
	U233 IS	233	4460	3.488	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	156.335				ng/L
	U	235	1384.105				ng/L
	U	238	171437.776				ng/L
	U 232	232	124.334				ng/L
	U 236	236	241.003				ng/L
┌	U-tot	238	38.820	**7769.644**	292.78	3.8	ng/L
└>	U233	233	4459.761				ng/L
	U233 IS	233	4459.761	**101.127**	3.53	3.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Friday, October 28, 2011 20:35:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.569
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	101	35.366	0.000	
	U	235	108	56.415	0.000	
	U	238	137	39.826	0.000	
	U 232	232	102	34.482	0.000	
	U 236	236	102	48.951	0.000	
[	U-tot	238	346	43.206	0.000	
└>	U233	233	4498	1.352	0.000	
	U233 IS	233	4498	1.352	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	101.334				ng/L
	U	235	107.667				ng/L
	U	238	137.001				ng/L
	U 232	232	102.001				ng/L
	U 236	236	102.001				ng/L
[	U-tot	238	0.077	**5.427**	6.82	125.6	ng/L
└>	U233	233	4498.113				ng/L
	U233 IS	233	4498.113	**101.996**	1.38	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd10

Sample Date/Time: Friday, October 28, 2011 20:37:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\Blankd10.570
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	100	50.319	0.000	
	U	235	1957	4.154	0.000	
	U	238	557688	0.475	0.000	
	U 232	232	77	69.331	0.000	
	U 236	236	193	36.227	0.000	
┌	U-tot	238	559745	0.477	0.000	
└>	U233	233	4387	0.127	0.000	
	U233 IS	233	4387	0.127	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	100.001				ng/L
	U	235	1956.878				ng/L
	U	238	557688.396				ng/L
	U 232	232	76.667				ng/L
	U 236	236	193.336				ng/L
┌	U-tot	238	127.590	**25559.490**	124.49	0.5	ng/L
└>	U233	233	4387.058				ng/L
	U233 IS	233	4387.058	**99.478**	0.13	0.1	%R

Quantitative Analysis - Summary Report

Sample ID: 474212d10 df4

Sample Date/Time: Friday, October 28, 2011 20:39:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474212d10 df4.571
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	100	72.971	0.000	
	U	235	1839	2.851	0.000	
	U	238	510323	0.759	0.000	
	U 232	232	146	56.792	0.000	
	U 236	236	163	21.838	0.000	
┌	U-tot	238	512263	0.733	0.000	
└>	U233	233	4404	0.694	0.000	
	U233 IS	233	4404	0.694	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	100.334				ng/L
	U	235	1839.186				ng/L
	U	238	510323.081				ng/L
	U 232	232	146.335				ng/L
	U 236	236	163.002				ng/L
┌	U-tot	238	116.307	**23298.333**	74.90	0.3	ng/L
└>	U233	233	4404.400				ng/L
	U233 IS	233	4404.400	**99.871**	0.69	0.7	%R

010234

Quantitative Analysis - Summary Report

Sample ID: 474212d10d df4

Sample Date/Time: Friday, October 28, 2011 20:42:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474212d10d df4.572
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	42	35.625	0.000	
	U	235	1765	1.589	0.000	
	U	238	515185	1.021	0.000	
	U 232	232	163	4.614	0.000	
	U 236	236	109	21.846	0.000	
┌	U-tot	238	516991	1.014	0.000	
└>	U233	233	4345	1.632	0.000	
	U233 IS	233	4345	1.632	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	41.667				ng/L
	U	235	1764.838				ng/L
	U	238	515184.881				ng/L
	U 232	232	162.668				ng/L
	U 236	236	109.001				ng/L
┌	U-tot	238	119.002	**23838.295**	155.14	0.7	ng/L
└>	U233	233	4344.705				ng/L
	U233 IS	233	4344.705	**98.518**	1.61	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474213d10 df4
Sample Date/Time: Friday, October 28, 2011 20:44:28
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474213d10 df4.573
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	62	60.007	0.000	
	U	235	1499	4.703	0.000	
	U	238	390693	0.874	0.000	
	U 232	232	118	34.734	0.000	
	U 236	236	117	44.550	0.000	
⌈	U-tot	238	392254	0.850	0.000	
⌊>	U233	233	4399	0.725	0.000	
	U233 IS	233	4399	0.725	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	61.667				ng/L
	U	235	1499.457				ng/L
	U	238	390692.708				ng/L
	U 232	232	118.334				ng/L
	U 236	236	117.334				ng/L
⌈	U-tot	238	89.180	**17861.878**	251.04	1.4	ng/L
⌊>	U233	233	4398.731				ng/L
	U233 IS	233	4398.731	**99.743**	0.72	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 474213d10d df4

Sample Date/Time: Friday, October 28, 2011 20:46:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474213d10d df4.574
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	114	53.291	0.000	
U	235	1546	0.712	0.000	
U	238	396767	0.742	0.000	
U 232	232	129	35.612	0.000	
U 236	236	164	28.678	0.000	
U-tot	238	398428	0.721	0.000	
U233	233	4397	2.260	0.000	
U233 IS	233	4397	2.260	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	114.334				ng/L
U	235	1546.131				ng/L
U	238	396767.396				ng/L
U 232	232	129.334				ng/L
U 236	236	164.002				ng/L
U-tot	238	90.642	**18154.955**	498.48	2.7	ng/L
U233	233	4397.397				ng/L
U233 IS	233	4397.397	**99.713**	2.25	2.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474214d10

Sample Date/Time: Friday, October 28, 2011 20:49:02
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474214d10.575
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	130	30.473	0.000	
	U	235	2453	2.703	0.000	
	U	238	613914	0.732	0.000	
	U 232	232	379	15.382	0.000	
	U 236	236	230	22.854	0.000	
┌	U-tot	238	616498	0.714	0.000	
└>	U233	233	4155	2.535	0.000	
	U233 IS	233	4155	2.535	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	130.334				ng/L
	U	235	2453.331				ng/L
	U	238	613914.268				ng/L
	U 232	232	378.675				ng/L
	U 236	236	230.003				ng/L
┌	U-tot	238	148.471	**29744.053**	975.48	3.3	ng/L
└>	U233	233	4154.616				ng/L
	U233 IS	233	4154.616	**94.208**	2.39	2.5	%R

Quantitative Analysis - Summary Report

Sample ID: 474214d10d

Sample Date/Time: Friday, October 28, 2011 20:51:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474214d10d.576
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	46	2.174	0.000	
U	235	2388	1.496	0.000	
U	238	622320	0.328	0.000	
U 232	232	662	3.281	0.000	
U 236	236	130	15.152	0.000	
┌ U-tot	238	624754	0.331	0.000	
└> U233	233	4001	1.908	0.000	
U233 IS	233	4001	1.908	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	46.000				ng/L
U	235	2387.980				ng/L
U	238	622320.414				ng/L
U 232	232	662.357				ng/L
U 236	236	130.001				ng/L
┌ U-tot	238	156.185	**31290.049**	490.36	1.6	ng/L
└> U233	233	4000.880				ng/L
U233 IS	233	4000.880	**90.721**	1.73	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Friday, October 28, 2011 20:53:40
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.577
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	35	20.000	0.000	
	U	235	36	11.459	0.000	
	U	238	164	4.159	0.000	
	U 232	232	87	7.507	0.000	
	U 236	236	30	25.300	0.000	
┌	U-tot	238	235	4.739	0.000	
└>	U233	233	4134	0.450	0.000	
	U233 IS	233	4134	0.450	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	35.000				ng/L
	U	235	36.333				ng/L
	U	238	163.668				ng/L
	U 232	232	86.667				ng/L
	U 236	236	29.667				ng/L
┌	U-tot	238	0.057	**1.373**	0.58	42.5	ng/L
└>	U233	233	4134.273				ng/L
	U233 IS	233	4134.273	**93.746**	0.42	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Friday, October 28, 2011 20:56:02
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.578
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	19	2.986	0.000	
	U	235	21	11.175	0.000	
	U	238	833	2.232	0.000	
	U 232	232	21	12.599	0.000	
	U 236	236	10	29.863	0.000	
┌	U-tot	238	873	2.405	0.000	
└>	U233	233	4010	2.142	0.000	
	U233 IS	233	4010	2.142	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	19.333				ng/L
	U	235	20.667				ng/L
	U	238	832.705				ng/L
	U 232	232	21.000				ng/L
	U 236	236	9.667				ng/L
┌	U-tot	238	0.218	**33.600**	0.86	2.6	ng/L
└>	U233	233	4009.884				ng/L
	U233 IS	233	4009.884	**90.926**	1.95	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Friday, October 28, 2011 20:58:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.579
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibretion File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	85	25.963	0.000	
	U	235	1238	1.984	0.000	
	U	238	158507	0.778	0.000	
	U 232	232	74	43.848	0.000	
	U 236	236	176	9.255	0.000	
┌	U-tot	238	159830	0.759	0.000	
└>	U233	233	4045	1.319	0.000	
	U233 IS	233	4045	1.319	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	85.000				ng/L
	U	235	1238.084				ng/L
	U	238	158506.618				ng/L
	U 232	232	74.334				ng/L
	U 236	236	175.668				ng/L
┌	U-tot	238	39.521	**7910.134**	164.21	2.1	ng/L
└>	U233	233	4044.900				ng/L
	U233 IS	233	4044.900	**91.720**	1.21	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Friday, October 28, 2011 21:00:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.580
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	68	23.657	0.000	
	U	235	58	12.433	0.000	
	U	238	92	25.358	0.000	
	U 232	232	61	32.947	0.000	
	U 236	236	61	11.220	0.000	
┌	U-tot	238	218	18.170	0.000	
└>	U233	233	4174	2.166	0.000	
	U233 IS	233	4174	2.166	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	68.334				ng/L
	U	235	58.000				ng/L
	U	238	91.667				ng/L
	U 232	232	61.334				ng/L
	U 236	236	60.667				ng/L
┌	U-tot	238	0.052	**0.431**	1.75	406.6	ng/L
└>	U233	233	4174.292				ng/L
	U233 IS	233	4174.292	**94.654**	2.05	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: 474221d10 df4

Sample Date/Time: Friday, October 28, 2011 21:03:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474221d10 df4.581
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	84	29.629	0.000	
	U	235	1067	6.238	0.000	
	U	238	271318	1.350	0.000	
	U 232	232	116	25.750	0.000	
	U 236	236	120	37.084	0.000	
┌	U-tot	238	272470	1.312	0.000	
└>	U233	233	4182	0.940	0.000	
	U233 IS	233	4182	0.940	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	84.334				ng/L
	U	235	1067.063				ng/L
	U	238	271318.359				ng/L
	U 232	232	116.334				ng/L
	U 236	236	119.668				ng/L
┌	U-tot	238	65.147	**13045.708**	73.49	0.6	ng/L
└>	U233	233	4182.295				ng/L
	U233 IS	233	4182.295	**94.835**	0.89	0.9	%R

010244

Quantitative Analysis - Summary Report

Sample ID: 474221d10d df4
Sample Date/Time: Friday, October 28, 2011 21:05:29
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474221d10d df4.582
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	63	60.603	0.000	
	U	235	1095	3.223	0.000	
	U	238	278325	1.033	0.000	
	U 232	232	86	30.300	0.000	
	U 236	236	93	44.246	0.000	
⌈	U-tot	238	279482	1.009	0.000	
L>	U233	233	4116	0.993	0.000	
	U233 IS	233	4116	0.993	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	62.667				ng/L
	U	235	1094.733				ng/L
	U	238	278324.605				ng/L
	U 232	232	86.000				ng/L
	U 236	236	93.334				ng/L
⌈	U-tot	238	67.901	**13597.602**	187.24	1.4	ng/L
L>	U233	233	4116.265				ng/L
	U233 IS	233	4116.265	**93.338**	0.93	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474222d10 df4

Sample Date/Time: Friday, October 28, 2011 21:07:48
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474222d10 df4.583
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	16	40.537	0.000	
	U	235	1086	2.500	0.000	
	U	238	282509	0.250	0.000	
	U 232	232	279	3.927	0.000	
	U 236	236	53	18.211	0.000	
┌	U-tot	238	283611	0.252	0.000	
└>	U233	233	4068	1.590	0.000	
	U233 IS	233	4068	1.590	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	15.667				ng/L
	U	235	1086.398				ng/L
	U	238	282508.806				ng/L
	U 232	232	279.338				ng/L
	U 236	236	53.333				ng/L
┌	U-tot	238	69.732	**13964.586**	253.03	1.8	ng/L
└>	U233	233	4067.910				ng/L
	U233 IS	233	4067.910	**92.241**	1.47	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474222d10d df4
Sample Date/Time: Friday, October 28, 2011 21:10:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Duel
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474222d10d df4.584
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	84.428	0.000	
	U	235	756	6.713	0.000	
	U	238	193769	1.051	0.000	
	U 232	232	391	13.096	0.000	
	U 236	236	82	61.474	0.000	
┌	U-tot	238	194572	1.036	0.000	
└>	U233	233	4101	1.592	0.000	
	U233 IS	233	4101	1.592	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	46.667				ng/L
	U	235	756.032				ng/L
	U	238	193769.434				ng/L
	U 232	232	391.342				ng/L
	U 236	236	82.000				ng/L
┌	U-tot	238	47.453	**9499.740**	224.23	2.4	ng/L
└>	U233	233	4101.258				ng/L
	U233 IS	233	4101.258	**92.998**	1.48	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474300d10 df4

Sample Date/Time: Friday, October 28, 2011 21:12:28
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474300d10 df4.585
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	42	85.639	0.000	
	U	235	1645	2.075	0.000	
	U	238	452184	0.861	0.000	
	U 232	232	684	7.225	0.000	
	U 236	236	99	45.857	0.000	
┌	U-tot	238	453871	0.852	0.000	
└>	U233	233	4021	1.967	0.000	
	U233 IS	233	4021	1.967	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	42.333				ng/L
	U	235	1644.815				ng/L
	U	238	452184.162				ng/L
	U 232	232	684.359				ng/L
	U 236	236	99.001				ng/L
┌	U-tot	238	112.910	**22617.564**	520.88	2.3	ng/L
└>	U233	233	4020.889				ng/L
	U233 IS	233	4020.889	**91.175**	1.79	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474300d10d df4

Sample Date/Time: Friday, October 28, 2011 21:14:46
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474300d10d df4.586
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	55	45.945	0.000	
U	235	1648	2.216	0.000	
U	238	459829	0.774	0.000	
U 232	232	993	1.504	0.000	
U 236	236	128	26.555	0.000	
┌ U-tot	238	461532	0.759	0.000	
└> U233	233	4159	0.125	0.000	
U233 IS	233	4159	0.125	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	55.334				ng/L
U	235	1648.149				ng/L
U	238	459828.918				ng/L
U 232	232	993.054				ng/L
U 236	236	128.334				ng/L
┌ U-tot	238	110.973	**22229.359**	158.93	0.7	ng/L
└> U233	233	4158.951				ng/L
U233 IS	233	4158.951	**94.306**	0.12	0.1	%R

Quantitative Analysis - Summary Report

Sample ID: 474301d10 df4

Sample Date/Time: Friday, October 28, 2011 21:17:01
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474301d10 df4.587
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	44	72.905	0.000	
	U	235	1410	4.319	0.000	
	U	238	376530	0.926	0.000	
	U 232	232	205	18.246	0.000	
	U 236	236	93	24.731	0.000	
⌈	U-tot	238	377984	0.939	0.000	
└>	U233	233	4050	0.737	0.000	
	U233 IS	233	4050	0.737	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	44.000				ng/L
	U	235	1410.109				ng/L
	U	238	376529.822				ng/L
	U 232	232	205.002				ng/L
	U 236	236	93.000				ng/L
⌈	U-tot	238	93.333	**18694.161**	153.61	0.8	ng/L
└>	U233	233	4049.902				ng/L
	U233 IS	233	4049.902	**91.833**	0.68	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: 474301d10d df4

Sample Date/Time: Friday, October 28, 2011 21:19:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474301d10d df4.588
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	41	63.666	0.000	
	U	235	1392	2.096	0.000	
	U	238	386963	0.632	0.000	
	U 232	232	240	16.971	0.000	
	U 236	236	83	17.956	0.000	
┌	U-tot	238	388395	0.629	0.000	
└>	U233	233	4150	2.925	0.000	
	U233 IS	233	4150	2.925	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	40.667				ng/L
	U	235	1391.773				ng/L
	U	238	386962.963				ng/L
	U 232	232	240.003				ng/L
	U 236	236	82.667				ng/L
┌	U-tot	238	93.632	**18754.161**	429.05	2.3	ng/L
└>	U233	233	4149.948				ng/L
	U233 IS	233	4149.948	**94.102**	2.75	2.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Friday, October 28, 2011 21:21:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.589
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	53	77.694	0.000	
	U	235	51	79.949	0.000	
	U	238	91	42.126	0.000	
	U 232	232	62	42.306	0.000	
	U 236	236	48	81.333	0.000	
┌	U-tot	238	195	60.965	0.000	
└>	U233	233	4107	2.904	0.000	
	U233 IS	233	4107	2.904	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	52.667				ng/L
	U	235	51.334				ng/L
	U	238	91.334				ng/L
	U 232	232	62.000				ng/L
	U 236	236	48.334				ng/L
┌	U-tot	238	0.047	**-0.580**	5.65	974.0	ng/L
└>	U233	233	4106.928				ng/L
	U233 IS	233	4106.928	**93.126**	2.70	2.9	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Friday, October 28, 2011 21:23:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.590
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	53	62.606	0.000	
	U	235	57	61.038	0.000	
	U	238	913	0.936	0.000	
	U 232	232	53	48.976	0.000	
	U 236	236	48	53.562	0.000	
┌	U-tot	238	1023	6.228	0.000	
└>	U233	233	4252	1.977	0.000	
	U233 IS	233	4252	1.977	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	53.000				ng/L
	U	235	56.667				ng/L
	U	238	913.046				ng/L
	U 232	232	52.667				ng/L
	U 236	236	48.000				ng/L
┌	U-tot	238	0.241	**38.193**	2.97	7.8	ng/L
└>	U233	233	4251.661				ng/L
	U233 IS	233	4251.661	**96.408**	1.91	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Friday, October 28, 2011 21:26:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.591
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	45	36.985	0.000	
	U	235	1264	2.759	0.000	
	U	238	165259	0.499	0.000	
	U 232	232	38	71.056	0.000	
	U 236	236	142	21.128	0.000	
[	U-tot	238	166568	0.469	0.000	
L>	U233	233	4222	2.445	0.000	
	U233 IS	233	4222	2.445	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	45.000				ng/L
	U	235	1264.088				ng/L
	U	238	165258.906				ng/L
	U 232	232	37.667				ng/L
	U 236	236	142.334				ng/L
[	U-tot	238	39.473	**7900.435**	211.69	2.7	ng/L
L>	U233	233	4221.647				ng/L
	U233 IS	233	4221.647	**95.727**	2.34	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Friday, October 28, 2011 21:28:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.592
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	37	14.752	0.000	
U	235	29	16.485	0.000	
U	238	60	17.567	0.000	
U 232	232	38	23.390	0.000	
U 236	236	32	27.243	0.000	
┌ U-tot	238	126	15.047	0.000	
└> U233	233	4374	2.074	0.000	
U233 IS	233	4374	2.074	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	37.333				ng/L
U	235	28.667				ng/L
U	238	60.334				ng/L
U 232	232	38.000				ng/L
U 236	236	32.000				ng/L
┌ U-tot	238	0.029	**-4.225**	0.92	21.7	ng/L
└> U233	233	4374.386				ng/L
U233 IS	233	4374.386	**99.191**	2.06	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: 474302d10 df4

Sample Date/Time: Friday, October 28, 2011 21:31:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474302d10 df4.593
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	42	62.155	0.000	
U	235	1502	0.580	0.000	
U	238	414087	0.872	0.000	
U 232	232	188	11.371	0.000	
U 236	236	101	12.773	0.000	
┌ U-tot	238	415631	0.864	0.000	
└> U233	233	4099	1.015	0.000	
U233 IS	233	4099	1.015	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	42.333				ng/L
U	235	1502.124				ng/L
U	238	414086.848				ng/L
U 232	232	188.002				ng/L
U 236	236	100.667				ng/L
┌ U-tot	238	101.401	**20311.149**	58.90	0.3	ng/L
└> U233	233	4098.924				ng/L
U233 IS	233	4098.924	**92.945**	0.94	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474302d10d df4

Sample Date/Time: Friday, October 28, 2011 21:33:22
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474302d10d df4.594
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	34	92.121	0.000	
	U	235	1400	1.567	0.000	
	U	238	397980	0.386	0.000	
	U 232	232	157	24.031	0.000	
	U 236	236	97	34.657	0.000	
⌈	U-tot	238	399414	0.385	0.000	
└>	U233	233	4073	2.580	0.000	
	U233 IS	233	4073	2.580	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	34.000				ng/L
	U	235	1400.108				ng/L
	U	238	397979.821				ng/L
	U 232	232	156.668				ng/L
	U 236	236	96.667				ng/L
⌈	U-tot	238	98.095	**19648.503**	429.70	2.2	ng/L
└>	U233	233	4073.246				ng/L
	U233 IS	233	4073.246	**92.362**	2.38	2.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474340d10

Sample Date/Time: Friday, October 28, 2011 21:35:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474340d10.595
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	100	4.359	0.000	
	U	235	401	4.120	0.000	
	U	238	80642	0.510	0.000	
	U 232	232	665	3.071	0.000	
	U 236	236	115	12.527	0.000	
┌	U-tot	238	81143	0.486	0.000	
└>	U233	233	4013	1.182	0.000	
	U233 IS	233	4013	1.182	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	100.001				ng/L
	U	235	401.009				ng/L
	U	238	80642.100				ng/L
	U 232	232	665.358				ng/L
	U 236	236	114.667				ng/L
┌	U-tot	238	20.225	**4043.081**	62.60	1.5	ng/L
└>	U233	233	4012.552				ng/L
	U233 IS	233	4012.552	**90.986**	1.08	1.2	%R

010258

Quantitative Analysis - Summary Report

Sample ID: 474340d10d

Sample Date/Time: Friday, October 28, 2011 21:37:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474340d10d.596
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	67	13.266	0.000	
	U	235	441	2.016	0.000	
	U	238	100774	0.909	0.000	
	U 232	232	526	2.093	0.000	
	U 236	236	64	2.062	0.000	
┌	U-tot	238	101282	0.898	0.000	
└>	U233	233	4194	0.650	0.000	
	U233 IS	233	4194	0.650	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	67.000				ng/L
	U	235	441.011				ng/L
	U	238	100773.830				ng/L
	U 232	232	526.349				ng/L
	U 236	236	84.000				ng/L
┌	U-tot	238	24.153	**4830.309**	74.70	1.5	ng/L
└>	U233	233	4193.634				ng/L
	U233 IS	233	4193.634	**95.092**	0.62	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474341d10 df4

Sample Date/Time: Friday, October 28, 2011 21:40:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474341d10 df4.597
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	83	16.513	0.000	
U	235	1370	2.821	0.000	
U	238	362386	0.577	0.000	
U 232	232	223	8.549	0.000	
U 236	236	126	16.546	0.000	
⌈ U-tot	238	363838	0.580	0.000	
L> U233	233	4336	1.428	0.000	
U233 IS	233	4336	1.428	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	82.667				ng/L
U	235	1369.770				ng/L
U	238	362385.796				ng/L
U 232	232	222.669				ng/L
U 236	236	125.668				ng/L
⌈ U-tot	238	83.926	**16809.071**	334.42	2.0	ng/L
L> U233	233	4336.034				ng/L
U233 IS	233	4336.034	**98.321**	1.40	1.4	%R

010260

Quantitative Analysis - Summary Report

Sample ID: 474341d10d df4
Sample Date/Time: Friday, October 28, 2011 21:42:32
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474341d10d df4.598
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	71	71.659	0.000	
U	235	1354	3.472	0.000	
U	238	377074	0.273	0.000	
U 232	232	291	21.277	0.000	
U 236	236	117	40.752	0.000	
U-tot	238	378499	0.246	0.000	
U233	233	4419	0.896	0.000	
U233 IS	233	4419	0.896	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	70.667				ng/L
U	235	1354.434				ng/L
U	238	377073.979				ng/L
U 232	232	291.338				ng/L
U 236	236	117.334				ng/L
U-tot	238	85.664	**17157.240**	196.29	1.1	ng/L
U233	233	4418.740				ng/L
U233 IS	233	4418.740	**100.197**	0.90	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474344d10 df4
Sample Date/Time: Friday, October 28, 2011 21:44:51
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474344d10 df4.599
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	111	46.968	0.000	
U	235	1106	4.507	0.000	
U	238	285168	0.953	0.000	
U 232	232	232	23.036	0.000	
U 236	236	148	46.288	0.000	
U-tot	238	286386	0.914	0.000	
U233	233	4547	1.004	0.000	
U233 IS	233	4547	1.004	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	111.334				ng/L
U	235	1106.401				ng/L
U	238	285168.174				ng/L
U 232	232	232.336				ng/L
U 236	236	148.001				ng/L
U-tot	238	62.984	**12612.191**	225.08	1.8	ng/L
U233	233	4547.470				ng/L
U233 IS	233	4547.470	**103.116**	1.04	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474344d10d df4

Sample Date/Time: Friday, October 28, 2011 21:47:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474344d10d df4.600
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	52	126.509	0.000	
	U	235	969	6.202	0.000	
	U	238	270162	0.959	0.000	
	U 232	232	195	29.960	0.000	
	U 236	236	89	75.395	0.000	
⌈	U-tot	238	271183	0.911	0.000	
↳	U233	233	4502	2.872	0.000	
	U233 IS	233	4502	2.872	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	51.867				ng/L
	U	235	969.385				ng/L
	U	238	270161.767				ng/L
	U 232	232	194.669				ng/L
	U 236	236	89.334				ng/L
⌈	U-tot	238	60.273	**12068.987**	453.47	3.8	ng/L
↳	U233	233	4502.449				ng/L
	U233 IS	233	4502.449	**102.095**	2.93	2.9	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Friday, October 28, 2011 21:49:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.601
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	52	111.130	0.000	
	U	235	51	128.989	0.000	
	U	238	89	81.721	0.000	
	U 232	232	51	95.235	0.000	
	U 236	236	43	133.929	0.000	
┌	U-tot	238	192	102.206	0.000	
└>	U233	233	4368	1.554	0.000	
	U233 IS	233	4368	1.554	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	52.334				ng/L
	U	235	51.334				ng/L
	U	238	88.667				ng/L
	U 232	232	51.000				ng/L
	U 236	236	42.667				ng/L
┌	U-tot	238	0.044	**-1.210**	8.95	739.2	ng/L
└>	U233	233	4368.049				ng/L
	U233 IS	233	4368.049	**99.047**	1.54	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Friday, October 28, 2011 21:51:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.602
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	79	88.145	0.000	
	U	235	82	80.861	0.000	
	U	238	975	6.908	0.000	
	U 232	232	70	89.705	0.000	
	U 236	236	72	102.179	0.000	
┌	U-tot	238	1136	17.814	0.000	
└>	U233	233	4530	2.342	0.000	
	U233 IS	233	4530	2.342	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	79.001				ng/L
	U	235	82.334				ng/L
	U	238	974.719				ng/L
	U 232	232	70.000				ng/L
	U 236	236	71.667				ng/L
┌	U-tot	238	0.251	**40.291**	9.17	22.8	ng/L
└>	U233	233	4529.795				ng/L
	U233 IS	233	4529.795	**102.715**	2.41	2.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Friday, October 28, 2011 21:54:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.603
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	114	82.747	0.000	
U	235	1374	5.736	0.000	
U	238	171700	1.478	0.000	
U 232	232	95	107.590	0.000	
U 236	236	207	42.104	0.000	
┌ U-tot	238	173188	1.382	0.000	
└> U233	233	4402	2.133	0.000	
U233 IS	233	4402	2.133	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	113.668				ng/L
U	235	1374.437				ng/L
U	238	171700.180				ng/L
U 232	232	95.001				ng/L
U 236	236	207.003				ng/L
┌ U-tot	238	39.359	**7877.737**	280.40	3.6	ng/L
└> U233	233	4402.399				ng/L
U233 IS	233	4402.399	**99.826**	2.13	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Friday, October 28, 2011 21:56:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.604
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	88	20.007	0.000	
U	235	81	13.655	0.000	
U	238	113	7.024	0.000	
U 232	232	83	20.903	0.000	
U 236	236	81	19.378	0.000	
┌ U-tot	238	282	9.542	0.000	
└> U233	233	4542	2.985	0.000	
U233 IS	233	4542	2.985	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	88.334				ng/L
U	235	80.667				ng/L
U	238	113.001				ng/L
U 232	232	83.000				ng/L
U 236	236	80.667				ng/L
┌ U-tot	238	0.062	**2.445**	1.45	59.1	ng/L
└> U233	233	4541.802				ng/L
U233 IS	233	4541.802	**102.987**	3.07	3.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474401d10 df4

Sample Date/Time: Friday, October 28, 2011 21:59:03
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474401d10 df4.605
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	39	90.436	0.000	
	U	235	1340	5.847	0.000	
	U	238	354951	0.707	0.000	
	U 232	232	122	27.025	0.000	
	U 236	236	81	48.082	0.000	
┌	U-tot	238	356331	0.711	0.000	
└>	U233	233	4425	2.793	0.000	
	U233 IS	233	4425	2.793	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	39.333				ng/L
	U	235	1340.432				ng/L
	U	238	354951.337				ng/L
	U 232	232	122.001				ng/L
	U 236	236	80.667				ng/L
┌	U-tot	238	80.560	**16134.394**	449.66	2.8	ng/L
└>	U233	233	4425.411				ng/L
	U233 IS	233	4425.411	**100.348**	2.80	2.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474401d10d df4

Sample Date/Time: Friday, October 28, 2011 22:01:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474401d10d df4.606
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	64	61.479	0.000	
	U	235	1459	3.849	0.000	
	U	238	371231	0.797	0.000	
	U 232	232	130	34.247	0.000	
	U 236	236	114	34.513	0.000	
┌	U-tot	238	372754	0.817	0.000	
└>	U233	233	4394	0.528	0.000	
	U233 IS	233	4394	0.528	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	64.334				ng/L
	U	235	1458.784				ng/L
	U	238	371230.643				ng/L
	U 232	232	130.334				ng/L
	U 236	236	114.001				ng/L
┌	U-tot	238	84.838	**16991.742**	106.84	0.6	ng/L
└>	U233	233	4393.728				ng/L
	U233 IS	233	4393.728	**99.629**	0.53	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d10 df2

Sample Date/Time: Friday, October 28, 2011 22:03:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandate\DataSet\11 Oct 3\474402d10 df2.607
Tuning File: C:\Elandate\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	60	64.961	0.000	
U	235	1309	0.176	0.000	
U	238	361897	0.690	0.000	
U 232	232	535	9.505	0.000	
U 236	236	123	36.588	0.000	
┌ U-tot	238	363266	0.684	0.000	
└> U233	233	4359	1.303	0.000	
U233 IS	233	4359	1.303	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	59.667				ng/L
U	235	1308.761				ng/L
U	238	361897.300				ng/L
U 232	232	534.682				ng/L
U 236	236	122.668				ng/L
┌ U-tot	238	83.334	**16690.493**	117.98	0.7	ng/L
└> U233	233	4359.378				ng/L
U233 IS	233	4359.378	**98.851**	1.29	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d10L df10

Sample Date/Time: Friday, October 28, 2011 22:06:06
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d10L df10.608
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	82	71.900	0.000	
	U	235	337	17.686	0.000	
	U	238	74189	0.406	0.000	
	U 232	232	202	21.715	0.000	
	U 236	236	85	65.555	0.000	
┌	U-tot	238	74609	0.247	0.000	
└>	U233	233	4485	2.356	0.000	
	U233 IS	233	4485	2.356	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	82.334				ng/L
	U	235	336.673				ng/L
	U	238	74189.498				ng/L
	U 232	232	202.336				ng/L
	U 236	236	85.334				ng/L
┌	U-tot	238	16.643	**3325.235**	86.23	2.6	ng/L
└>	U233	233	4484.773				ng/L
	U233 IS	233	4484.773	**101.694**	2.40	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d10D df2

Sample Date/Time: Friday, October 28, 2011 22:08:29
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d10D df2.609
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	80	62.257	0.000	
	U	235	1354	4.034	0.000	
	U	238	356405	0.481	0.000	
	U 232	232	401	8.275	0.000	
	U 236	236	137	36.078	0.000	
⌈	U-tot	238	357839	0.455	0.000	
L>	U233	233	4249	1.326	0.000	
	U233 IS	233	4249	1.326	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	80.334				ng/L
	U	235	1353.768				ng/L
	U	238	356405.140				ng/L
	U 232	232	401.009				ng/L
	U 236	236	137.001				ng/L
⌈	U-tot	238	84.232	**16870.286**	181.20	1.1	ng/L
L>	U233	233	4248.659				ng/L
	U233 IS	233	4248.659	**96.340**	1.28	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d10AS df2

Sample Date/Time: Friday, October 28, 2011 22:10:51
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d10AS df2.610
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20uL 1° natural
uranium @ df 100 (075-Rad-501
(11-064-06) in 10mL
TV = 20,462 ng/L x df2 = 40,924 ng

10/31/11 JS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	106	11.593	0.000	
	U	235	4544	0.798	0.000	
	U	238	793803	0.960	0.000	
	U 232	232	562	6.801	0.000	
	U 236	236	139	16.259	0.000	
[	U-tot	238	798454	0.954	0.000	
L>	U233	233	4196	2.516	0.000	
	U233 IS	233	4196	2.516	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	106.001				ng/L
	U	235	4544.469				ng/L
	U	238	793803.212				ng/L
	U 232	232	562.017				ng/L
	U 236	236	138.668				ng/L
[	U-tot	238	190.371	**38140.888**	1018.25	2.7	ng/L
L>	U233	233	4195.969				ng/L
	U233 IS	233	4195.969	**95.145**	2.39	2.5	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Friday, October 28, 2011 22:13:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.611
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	36	69.100	0.000	
	U	235	32	75.195	0.000	
	U	238	87	35.072	0.000	
	U 232	232	75	35.874	0.000	
	U 236	236	28	89.286	0.000	
⌈	U-tot	238	155	50.299	0.000	
↳	U233	233	4133	1.489	0.000	
	U233 IS	233	4133	1.489	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	36.333				ng/L
	U	235	32.000				ng/L
	U	238	87.000				ng/L
	U 232	232	75.334				ng/L
	U 236	236	28.000				ng/L
⌈	U-tot	238	0.038	**-2.474**	3.81	153.9	ng/L
↳	U233	233	4132.606				ng/L
	U233 IS	233	4132.606	**93.708**	1.40	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Friday, October 28, 2011 22:15:36
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.612
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	50	73.430	0.000	
	U	235	56	60.494	0.000	
	U	238	912	3.318	0.000	
	U 232	232	65	54.899	0.000	
	U 236	236	45	71.630	0.000	
┌	U-tot	238	1019	9.678	0.000	
└>	U233	233	4334	0.970	0.000	
	U233 IS	233	4334	0.970	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	50.000				ng/L
	U	235	56.334				ng/L
	U	238	912.379				ng/L
	U 232	232	64.667				ng/L
	U 236	236	45.000				ng/L
┌	U-tot	238	0.235	**37.087**	4.56	12.3	ng/L
└>	U233	233	4334.033				ng/L
	U233 IS	233	4334.033	**98.276**	0.95	1.0	%R

010275

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Friday, October 28, 2011 22:17:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.613
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	49	78.442	0.000	
	U	235	1285	3.294	0.000	
	U	238	168530	0.341	0.000	
	U 232	232	38	69.026	0.000	
	U 236	236	147	24.775	0.000	
[	U-tot	238	169864	0.309	0.000	
L>	U233	233	4257	1.773	0.000	
	U233 IS	233	4257	1.773	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	48.667				ng/L
	U	235	1285.424				ng/L
	U	238	168529.791				ng/L
	U 232	232	38.000				ng/L
	U 236	236	147.335				ng/L
[	U-tot	238	39.915	**7989.045**	160.68	2.0	ng/L
L>	U233	233	4256.663				ng/L
	U233 IS	233	4256.663	**96.521**	1.71	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Friday, October 28, 2011 22:20:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.614
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	44	61.783	0.000	
	U	235	39	63.484	0.000	
	U	238	53	63.897	0.000	
	U 232	232	33	74.659	0.000	
	U 236	236	39	89.751	0.000	
┌	U-tot	238	136	62.744	0.000	
└>	U233	233	4347	1.144	0.000	
	U233 IS	233	4347	1.144	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	44.000				ng/L
	U	235	39.000				ng/L
	U	238	53.334				ng/L
	U 232	232	33.000				ng/L
	U 236	236	38.667				ng/L
┌	U-tot	238	0.031	**-3.740**	3.95	105.7	ng/L
└>	U233	233	4346.706				ng/L
	U233 IS	233	4346.706	**98.563**	1.13	1.1	%R

010277

Quantitative Analysis - Summary Report

Sample ID: Blankd14 dj4 (RE) NS 10/31/11
Sample Date/Time: Friday, October 28, 2011 22:22:43
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\Blankd14.615
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	39	72.981	0.000	
U	235	1802	2.037	0.000	
U	238	528619	0.774	0.000	
U 232	232	23	86.630	0.000	
U 236	236	113	30.519	0.000	
U-tot	238	530460	0.783	0.000	
U233	233	4258	1.902	0.000	
U233 IS	233	4258	1.902	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	38.667				ng/L
U	235	1801.845				ng/L
U	238	528619.464				ng/L
U 232	232	23.000				ng/L
U 236	236	113.334				ng/L
U-tot	238	124.607	**24961.636**	277.34	1.1	ng/L
U233	233	4257.664				ng/L
U233 IS	233	4257.664	**96.544**	1.84	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474212d14 df4

Sample Date/Time: Friday, October 28, 2011 22:24:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474212d14 df4.616
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	52	54.462	0.000	
	U	235	1907	3.515	0.000	
	U	238	533425	0.617	0.000	
	U 232	232	304	11.072	0.000	
	U 236	236	127	25.280	0.000	
┌	U-tot	238	535384	0.616	0.000	
└>	U233	233	4671	0.514	0.000	
	U233 IS	233	4671	0.514	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	52.334				ng/L
	U	235	1906.867				ng/L
	U	238	533425.140				ng/L
	U 232	232	303.672				ng/L
	U 236	236	126.668				ng/L
┌	U-tot	238	114.623	**22960.764**	124.09	0.5	ng/L
└>	U233	233	4670.866				ng/L
	U233 IS	233	4670.866	**105.914**	0.54	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: 474212d14d df4

Sample Date/Time: Friday, October 28, 2011 22:27:15
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474212d14d df4.617
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	41	88.309	0.000	
U	235	1780	3.055	0.000	
U	238	497136	0.894	0.000	
U 232	232	105	22.752	0.000	
U 236	236	114	39.593	0.000	
┌ U-tot	238	498957	0.899	0.000	
└> U233	233	4368	1.071	0.000	
U233 IS	233	4368	1.071	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	41.333				ng/L
U	235	1779.508				ng/L
U	238	497136.169				ng/L
U 232	232	105.334				ng/L
U 236	236	113.667				ng/L
┌ U-tot	238	114.235	**22883.018**	255.92	1.1	ng/L
└> U233	233	4368.049				ng/L
U233 IS	233	4368.049	**99.047**	1.06	1.1	%R

010280

Quantitative Analysis - Summary Report

Sample ID: 474213d14 df4

Sample Date/Time: Friday, October 28, 2011 22:29:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474213d14 df4.618
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	60	27.739	0.000	
	U	235	1503	2.605	0.000	
	U	238	402752	0.213	0.000	
	U 232	232	123	11.265	0.000	
	U 236	236	126	13.209	0.000	
[	U-tot	238	404315	0.212	0.000	
L>	U233	233	4609	2.765	0.000	
	U233 IS	233	4609	2.765	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	60.000				ng/L
	U	235	1503.124				ng/L
	U	238	402752.198				ng/L
	U 232	232	123.001				ng/L
	U 236	236	126.001				ng/L
[	U-tot	238	87.778	**17580.979**	495.86	2.8	ng/L
L>	U233	233	4608.502				ng/L
	U233 IS	233	4608.502	**104.500**	2.89	2.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474213d14d df4

Sample Date/Time: Friday, October 28, 2011 22:31:48
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474213d14d df4.619
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	75	43.349	0.000	
	U	235	1528	0.165	0.000	
	U	238	398226	0.242	0.000	
	U 232	232	140	19.350	0.000	
	U 236	236	128	21.740	0.000	
┌	U-tot	238	399829	0.243	0.000	
└>	U233	233	4533	0.584	0.000	
	U233 IS	233	4533	0.584	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	75.000				ng/L
	U	235	1528.462				ng/L
	U	238	398225.869				ng/L
	U 232	232	140.334				ng/L
	U 236	236	127.668				ng/L
┌	U-tot	238	88.203	**17666.117**	62.12	0.4	ng/L
└>	U233	233	4533.130				ng/L
	U233 IS	233	4533.130	**102.790**	0.60	0.6	%R

010282

Quantitative Analysis - Summary Report

Sample ID: 474214d14

Sample Date/Time: Friday, October 28, 2011 22:34:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474214d14.620
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	54	79.697	0.000	
U	235	2565	3.361	0.000	
U	238	654219	0.687	0.000	
U 232	232	392	6.764	0.000	
U 236	236	147	40.652	0.000	
⌈ U-tot	238	656837	0.665	0.000	
└> U233	233	4380	2.734	0.000	
U233 IS	233	4380	2.734	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	53.667				ng/L
U	235	2564.695				ng/L
U	238	654218.500				ng/L
U 232	232	392.008				ng/L
U 236	236	147.001				ng/L
⌈ U-tot	238	150.051	**30060.643**	991.21	3.3	ng/L
└> U233	233	4380.055				ng/L
U233 IS	233	4380.055	**99.319**	2.72	2.7	%R

Quantitative Analysis - Summary Report

Sample ID: 474214d14d

Sample Date/Time: Friday, October 28, 2011 22:36:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474214d14d.621
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	106	14.175	0.000	
U	235	2573	1.118	0.000	
U	238	635807	0.533	0.000	
U 232	232	425	2.545	0.000	
U 236	236	202	5.621	0.000	
⌈ U-tot	238	638486	0.536	0.000	
↳ U233	233	4347	1.344	0.000	
U233 IS	233	4347	1.344	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	105.667				ng/L
U	235	2572.697				ng/L
U	238	635807.280				ng/L
U 232	232	425.010				ng/L
U 236	236	202.336				ng/L
⌈ U-tot	238	146.891	**29427.414**	304.51	1.0	ng/L
↳ U233	233	4347.039				ng/L
U233 IS	233	4347.039	**98.571**	1.32	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Friday, October 28, 2011 22:38:42
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.622
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	77	11.247	0.000	
	U	235	78	13.040	0.000	
	U	238	283	3.287	0.000	
	U 232	232	106	14.671	0.000	
	U 236	236	83	7.233	0.000	
┌	U-tot	238	438	5.905	0.000	
└>	U233	233	4530	0.723	0.000	
	U233 IS	233	4530	0.723	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	77.000				ng/L
	U	235	78.334				ng/L
	U	238	282.671				ng/L
	U 232	232	105.667				ng/L
	U 236	236	83.334				ng/L
┌	U-tot	238	0.097	**9.358**	1.14	12.1	ng/L
└>	U233	233	4529.795				ng/L
	U233 IS	233	4529.795	**102.715**	0.74	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Friday, October 28, 2011 22:41:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.623
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	79	24.063	0.000	
U	235	92	31.058	0.000	
U	238	1002	3.755	0.000	
U 232	232	77	37.530	0.000	
U 236	236	70	22.253	0.000	
┌ U-tot	238	1173	7.210	0.000	
└> U233	233	4630	1.136	0.000	
U233 IS	233	4630	1.136	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	78.667				ng/L
U	235	92.334				ng/L
U	238	1002.389				ng/L
U 232	232	77.334				ng/L
U 236	236	69.667				ng/L
┌ U-tot	238	0.253	**40.751**	3.10	7.6	ng/L
└> U233	233	4629.512				ng/L
U233 IS	233	4629.512	**104.976**	1.19	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Friday, October 28, 2011 22:43:28
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.624
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	62	64.938	0.000	
U	235	1371	3.224	0.000	
U	238	177110	0.215	0.000	
U 232	232	49	81.115	0.000	
U 236	236	160	25.871	0.000	
┌ U-tot	238	178543	0.179	0.000	
└> U233	233	4544	1.491	0.000	
U233 IS	233	4544	1.491	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	62.000				ng/L
U	235	1371.103				ng/L
U	238	177109.931				ng/L
U 232	232	49.334				ng/L
U 236	236	159.668				ng/L
┌ U-tot	238	39.297	**7865.232**	124.28	1.6	ng/L
└> U233	233	4544.136				ng/L
U233 IS	233	4544.136	**103.040**	1.54	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Friday, October 28, 2011 22:45:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.625
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	29	28.994	0.000	
U	235	24	44.096	0.000	
U	238	57	21.271	0.000	
U 232	232	23	56.899	0.000	
U 236	236	25	83.511	0.000	
⌈ U-tot	238	110	25.351	0.000	
↳ U233	233	4706	2.813	0.000	
U233 IS	233	4706	2.813	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	29.333				ng/L
U	235	24.000				ng/L
U	238	57.000				ng/L
U 232	232	22.667				ng/L
U 236	236	24.667				ng/L
⌈ U-tot	238	0.023	**-5.321**	1.19	22.4	ng/L
↳ U233	233	4706.218				ng/L
U233 IS	233	4706.218	**106.715**	3.00	2.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474221d14 df4

Sample Date/Time: Friday, October 28, 2011 22:48:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474221d14 df4.626
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	82	30.634	0.000	
	U	235	1299	1.195	0.000	
	U	238	326425	0.655	0.000	
	U 232	232	139	15.828	0.000	
	U 236	236	130	25.739	0.000	
┌	U-tot	238	327806	0.644	0.000	
└>	U233	233	4803	0.173	0.000	
	U233 IS	233	4803	0.173	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	82.000				ng/L
	U	235	1299.093				ng/L
	U	238	326424.894				ng/L
	U 232	232	139.334				ng/L
	U 236	236	130.334				ng/L
┌	U-tot	238	68.252	**13667.860**	108.85	0.8	ng/L
└>	U233	233	4802.935				ng/L
	U233 IS	233	4802.935	**108.908**	0.19	0.2	%R

Quantitative Analysis - Summary Report

Sample ID: 474221d14d df4

Sample Date/Time: Friday, October 28, 2011 22:50:32
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474221d14d df4.627
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	58	38.575	0.000	
	U	235	1292	2.722	0.000	
	U	238	331708	0.147	0.000	
	U 232	232	169	15.247	0.000	
	U 236	236	100	35.916	0.000	
┌	U-tot	238	333058	0.158	0.000	
└>	U233	233	4693	1.418	0.000	
	U233 IS	233	4693	1.418	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	58.334				ng/L
	U	235	1291.758				ng/L
	U	238	331708.250				ng/L
	U 232	232	168.668				ng/L
	U 236	236	99.667				ng/L
┌	U-tot	238	70.975	**14213.514**	181.40	1.3	ng/L
└>	U233	233	4693.211				ng/L
	U233 IS	233	4693.211	**106.420**	1.51	1.4	%R

010290

Quantitative Analysis - Summary Report

Sample ID: 474222d14 df4

Sample Date/Time: Friday, October 28, 2011 22:52:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474222d14 df4.628
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	74	26.956	0.000	
	U	235	715	3.292	0.000	
	U	238	176727	0.596	0.000	
	U 232	232	420	7.955	0.000	
	U 236	236	102	17.761	0.000	
⌈	U-tot	238	177516	0.596	0.000	
↳	U233	233	4634	1.623	0.000	
	U233 IS	233	4634	1.623	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	73.667				ng/L
	U	235	715.361				ng/L
	U	236	176727.293				ng/L
	U 232	232	419.676				ng/L
	U 236	236	102.334				ng/L
⌈	U-tot	236	38.315	**7668.418**	168.45	2.2	ng/L
↳	U233	233	4634.181				ng/L
	U233 IS	233	4634.181	**105.082**	1.71	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474222d14d df4

Sample Date/Time: Friday, October 28, 2011 22:55:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474222d14d df4.629
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	62	34.641	0.000	
	U	235	1007	4.826	0.000	
	U	238	263926	0.617	0.000	
	U 232	232	333	13.049	0.000	
	U 236	236	93	45.200	0.000	
┌	U-tot	238	264995	0.593	0.000	
└>	U233	233	4607	2.096	0.000	
	U233 IS	233	4607	2.096	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	61.667				ng/L
	U	235	1007.056				ng/L
	U	238	263926.420				ng/L
	U 232	232	332.673				ng/L
	U 236	236	93.001				ng/L
┌	U-tot	238	57.538	**11520.782**	290.18	2.5	ng/L
└>	U233	233	4607.167				ng/L
	U233 IS	233	4607.167	**104.469**	2.19	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: 474300d14 df4

Sample Date/Time: Friday, October 28, 2011 22:57:32
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474300d14 df4.630
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	102	29.034	0.000	
	U	235	1813	3.191	0.000	
	U	238	485203	1.052	0.000	
	U 232	232	906	5.233	0.000	
	U 236	236	177	18.224	0.000	
┌	U-tot	238	487118	1.035	0.000	
└>	U233	233	4418	1.436	0.000	
	U233 IS	233	4418	1.436	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	102.001				ng/L
	U	235	1812.848				ng/L
	U	238	485202.860				ng/L
	U 232	232	906.379				ng/L
	U 236	236	177.335				ng/L
┌	U-tot	238	110.277	**22089.923**	358.52	1.6	ng/L
└>	U233	233	4417.740				ng/L
	U233 IS	233	4417.740	**100.174**	1.44	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: 474300d14d df4

Sample Date/Time: Friday, October 28, 2011 22:59:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474300d14d df4.631
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	76	44.941	0.000	
U	235	1854	0.592	0.000	
U	238	505694	0.570	0.000	
U 232	232	834	4.242	0.000	
U 236	236	150	18.961	0.000	
⌈ U-tot	238	507623	0.560	0.000	
└> U233	233	4490	1.812	0.000	
U233 IS	233	4490	1.812	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	75.667				ng/L
U	235	1853.522				ng/L
U	238	505693.608				ng/L
U 232	232	834.372				ng/L
U 236	236	149.668				ng/L
⌈ U-tot	238	113.091	**22653.720**	486.88	2.1	ng/L
└> U233	233	4489.775				ng/L
U233 IS	233	4489.775	**101.807**	1.85	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474301d14 df4

Sample Date/Time: Friday, October 28, 2011 23:02:13
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474301d14 df4.632
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	41	27.702	0.000	
	U	235	1621	2.538	0.000	
	U	238	458244	0.689	0.000	
	U 232	232	175	6.306	0.000	
	U 236	236	113	5.423	0.000	
┌	U-tot	238	459906	0.687	0.000	
└>	U233	233	4364	1.172	0.000	
	U233 IS	233	4364	1.172	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	41.000				ng/L
	U	235	1621.478				ng/L
	U	238	458243.715				ng/L
	U 232	232	174.668				ng/L
	U 236	236	112.867				ng/L
┌	U-tot	238	105.393	**21111.190**	253.20	1.2	ng/L
└>	U233	233	4364.047				ng/L
	U233 IS	233	4364.047	**98.956**	1.16	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: 474301d14d df4

Sample Date/Time: Friday, October 28, 2011 23:04:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474301d14d df4.633
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	54	43.666	0.000	
	U	235	1568	2.105	0.000	
	U	238	421045	0.808	0.000	
	U 232	232	150	24.571	0.000	
	U 236	236	114	16.040	0.000	
⌈	U-tot	238	422667	0.807	0.000	
↳	U233	233	4169	2.043	0.000	
	U233 IS	233	4169	2.043	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	54.000				ng/L
	U	235	1568.469				ng/L
	U	238	421044.706				ng/L
	U 232	232	149.668				ng/L
	U 236	236	114.334				ng/L
⌈	U-tot	238	101.418	**20314.452**	405.69	2.0	ng/L
↳	U233	233	4166.622				ng/L
	U233 IS	233	4168.622	**94.525**	1.93	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Friday, October 28, 2011 23:06:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.634
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	58	22.012	0.000	
	U	235	58	34.996	0.000	
	U	238	93	18.748	0.000	
	U 232	232	69	37.138	0.000	
	U 236	236	56	28.476	0.000	
┌	U-tot	238	209	24.024	0.000	
└>	U233	233	4153	0.903	0.000	
	U233 IS	233	4153	0.903	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	58.000				ng/L
	U	235	58.000				ng/L
	U	238	93.000				ng/L
	U 232	232	68.667				ng/L
	U 236	236	56.334				ng/L
┌	U-tot	238	0.050	**0.053**	2.34	4418.1	ng/L
└>	U233	233	4152.615				ng/L
	U233 IS	233	4152.615	**94.162**	0.85	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Friday, October 28, 2011 23:09:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.635
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	49	30.476	0.000	
U	235	49	30.816	0.000	
U	238	879	0.920	0.000	
U 232	232	45	34.198	0.000	
U 236	236	43	41.288	0.000	
U-tot	238	977	3.853	0.000	
U233	233	4159	0.804	0.000	
U233 IS	233	4159	0.804	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	49.000				ng/L
U	235	49.000				ng/L
U	238	878.709				ng/L
U 232	232	44.667				ng/L
U 236	236	42.667				ng/L
U-tot	238	0.235	**37.036**	1.44	3.9	ng/L
U233	233	4158.951				ng/L
U233 IS	233	4158.951	**94.306**	0.76	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Friday, October 28, 2011 23:11:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.636
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	66	29.223	0.000	
	U	235	1286	4.380	0.000	
	U	238	165421	0.338	0.000	
	U 232	232	44	74.184	0.000	
	U 236	236	144	30.614	0.000	
┌	U-tot	238	166773	0.379	0.000	
└>	U233	233	4265	1.865	0.000	
	U233 IS	233	4265	1.865	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	66.000				ng/L
	U	235	1286.091				ng/L
	U	238	165421.137				ng/L
	U 232	232	43.667				ng/L
	U 236	236	143.668				ng/L
┌	U-tot	238	39.107	**7827.122**	115.27	1.5	ng/L
└>	U233	233	4265.334				ng/L
	U233 IS	233	4265.334	**96.718**	1.80	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Friday, October 28, 2011 23:13:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\totel u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.637
Tuning File: C:\Elandate\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	58	34.979	0.000	
	U	235	55	55.477	0.000	
	U	238	86	50.967	0.000	
	U 232	232	59	52.842	0.000	
	U 236	236	54	58.269	0.000	
┌	U-tot	238	199	42.696	0.000	
└>	U233	233	4349	1.672	0.000	
	U233 IS	233	4349	1.672	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	58.334				ng/L
	U	235	55.000				ng/L
	U	238	85.667				ng/L
	U 232	232	59.000				ng/L
	U 236	236	54.334				ng/L
┌	U-tot	238	0.046	**-0.814**	4.01	492.3	ng/L
└>	U233	233	4349.374				ng/L
	U233 IS	233	4349.374	**98.624**	1.65	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 474302d14 df4

Sample Date/Time: Friday, October 28, 2011 23:16:18
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474302d14 df4.638
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	95	36.661	0.000	
	U	235	1559	5.635	0.000	
	U	238	432353	0.927	0.000	
	U 232	232	196	19.121	0.000	
	U 236	236	143	18.063	0.000	
┌	U-tot	238	434007	0.911	0.000	
└>	U233	233	4279	0.623	0.000	
	U233 IS	233	4279	0.623	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	95.001				ng/L
	U	235	1559.134				ng/L
	U	238	432353.192				ng/L
	U 232	232	196.336				ng/L
	U 236	236	143.334				ng/L
┌	U-tot	238	101.418	**20314.501**	64.26	0.3	ng/L
└>	U233	233	4279.340				ng/L
	U233 IS	233	4279.340	**97.036**	0.60	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474302d14d df4

Sample Date/Time: Friday, October 28, 2011 23:18:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474302d14d df4.639
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	63	37.409	0.000	
U	235	1588	1.129	0.000	
U	238	434317	0.702	0.000	
U 232	232	190	7.547	0.000	
U 236	236	120	20.235	0.000	
┌ U-tot	238	435968	0.695	0.000	
└> U233	233	4089	2.021	0.000	
U233 IS	233	4089	2.021	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	63.334				ng/L
U	235	1587.805				ng/L
U	238	434316.644				ng/L
U 232	232	190.335				ng/L
U 236	236	119.667				ng/L
┌ U-tot	238	106.644	**21361.847**	487.51	2.3	ng/L
└> U233	233	4089.253				ng/L
U233 IS	233	4089.253	**92.725**	1.87	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474340d14

Sample Date/Time: Friday, October 28, 2011 23:20:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474340d14.640
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	46	37.054	0.000	
	U	235	258	1.569	0.000	
	U	238	57157	1.141	0.000	
	U 232	232	890	2.577	0.000	
	U 236	236	55	46.229	0.000	
⌈	U-tot	238	57461	1.137	0.000	
└>	U233	233	3925	0.912	0.000	
	U233 IS	233	3925	0.912	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	45.667				ng/L
	U	235	257.670				ng/L
	U	238	57157.469				ng/L
	U 232	232	890.377				ng/L
	U 236	236	55.334				ng/L
⌈	U-tot	238	14.640	**2923.942**	20.54	0.7	ng/L
└>	U233	233	3924.847				ng/L
	U233 IS	233	3924.847	**88.997**	0.81	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474340d14d

Sample Date/Time: Friday, October 28, 2011 23:23:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474340d14d.641
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	36	57.619	0.000	
	U	235	325	10.663	0.000	
	U	238	77934	0.261	0.000	
	U 232	232	668	5.149	0.000	
	U 236	236	42	42.415	0.000	
┌	U-tot	238	78294	0.190	0.000	
└>	U233	233	3895	3.468	0.000	
	U233 IS	233	3895	3.468	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	35.667				ng/L
	U	235	325.006				ng/L
	U	238	77933.627				ng/L
	U 232	232	668.025				ng/L
	U 236	236	41.667				ng/L
┌	U-tot	238	20.121	**4022.277**	148.23	3.7	ng/L
└>	U233	233	3894.501				ng/L
	U233 IS	233	3894.501	**88.309**	3.06	3.5	%R

Quantitative Analysis - Summary Report

Sample ID: 474341d14 df4

Sample Date/Time: Friday, October 28, 2011 23:25:22
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474341d14 df4.642
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	49	56.041	0.000	
	U	235	1340	4.422	0.000	
	U	238	369181	0.371	0.000	
	U 232	232	213	10.189	0.000	
	U 236	236	90	27.510	0.000	
┌	U-tot	238	370571	0.382	0.000	
└>	U233	233	4419	2.122	0.000	
	U233 IS	233	4419	2.122	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	49.333				ng/L
	U	235	1340.099				ng/L
	U	238	369181.091				ng/L
	U 232	232	213.003				ng/L
	U 236	236	90.000				ng/L
┌	U-tot	238	83.884	**16800.604**	291.33	1.7	ng/L
└>	U233	233	4418.741				ng/L
	U233 IS	233	4418.741	**100.197**	2.13	2.1	%R

Quantitative Analysis - Summary Report

Sample ID: 474341d14d df4

Sample Date/Time: Friday, October 28, 2011 23:27:39
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474341d14d df4.643
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	56	41.606	0.000	
U	235	1353	4.472	0.000	
U	238	371826	0.534	0.000	
U 232	232	205	16.489	0.000	
U 236	236	105	26.362	0.000	
U-tot	238	373235	0.520	0.000	
U233	233	4379	0.971	0.000	
U233 IS	233	4379	0.971	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	56.334				ng/L
U	235	1353.101				ng/L
U	238	371825.739				ng/L
U 232	232	205.336				ng/L
U 236	236	104.667				ng/L
U-tot	238	85.239	**17072.131**	226.64	1.3	ng/L
U233	233	4379.054				ng/L
U233 IS	233	4379.054	**99.297**	0.96	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474344d14 df4

Sample Date/Time: Friday, October 28, 2011 23:29:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474344d14 df4.644
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	66	53.160	0.000	
	U	235	1068	4.289	0.000	
	U	238	286710	0.245	0.000	
	U 232	232	259	5.235	0.000	
	U 236	236	101	28.950	0.000	
┌	U-tot	238	287844	0.268	0.000	
└>	U233	233	4587	0.893	0.000	
	U233 IS	233	4587	0.893	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	66.000				ng/L
	U	235	1067.729				ng/L
	U	238	286710.317				ng/L
	U 232	232	259.337				ng/L
	U 236	236	100.667				ng/L
┌	U-tot	238	62.752	**12565.766**	81.07	0.6	ng/L
└>	U233	233	4587.157				ng/L
	U233 IS	233	4587.157	**104.016**	0.93	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474344d14d df4
Sample Date/Time: Friday, October 28, 2011 23:32:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474344d14d df4.645
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	59	50.258	0.000	
U	235	1112	2.423	0.000	
U	238	301910	3.341	0.000	
U 232	232	272	20.646	0.000	
U 236	236	115	30.769	0.000	
┌ U-tot	238	303081	3.314	0.000	
↳ U233	233	4821	2.190	0.000	
U233 IS	233	4821	2.190	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	58.667				ng/L
U	235	1112.401				ng/L
U	238	301909.893				ng/L
U 232	232	272.338				ng/L
U 236	236	115.001				ng/L
┌ U-tot	238	62.853	**12585.922**	144.71	1.1	ng/L
↳ U233	233	4821.279				ng/L
U233 IS	233	4821.279	**109.324**	2.39	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Friday, October 28, 2011 23:34:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.646
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	49	53.061	0.000	
U	235	40	49.938	0.000	
U	238	74	44.787	0.000	
U 232	232	59	43.335	0.000	
U 236	236	39	63.787	0.000	
┌ U-tot	238	163	48.155	0.000	
└> U233	233	4634	1.943	0.000	
U233 IS	233	4634	1.943	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	49.000				ng/L
U	235	40.000				ng/L
U	238	74.334				ng/L
U 232	232	58.667				ng/L
U 236	236	38.667				ng/L
┌ U-tot	238	0.035	**-2.946**	3.45	117.2	ng/L
└> U233	233	4633.848				ng/L
U233 IS	233	4633.848	**105.074**	2.04	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Friday, October 28, 2011 23:36:57
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.647
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	46	64.011	0.000	
U	235	50	40.885	0.000	
U	238	953	3.551	0.000	
U 232	232	43	77.586	0.000	
U 236	236	41	69.971	0.000	
┌ U-tot	238	1048	7.944	0.000	
└> U233	233	4721	2.037	0.000	
U233 IS	233	4721	2.037	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	46.000				ng/L
U	235	49.667				ng/L
U	238	952.717				ng/L
U 232	232	43.333				ng/L
U 236	236	41.000				ng/L
┌ U-tot	238	0.222	**34.499**	3.67	10.6	ng/L
└> U233	233	4720.892				ng/L
U233 IS	233	4720.892	**107.048**	2.18	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Friday, October 28, 2011 23:39:20
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.648
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	55	42.988	0.000	
	U	235	1392	1.785	0.000	
	U	238	184235	0.297	0.000	
	U 232	232	39	49.121	0.000	
	U 236	236	170	25.633	0.000	
⌈	U-tot	238	185683	0.320	0.000	
⌊>	U233	233	4697	0.866	0.000	
	U233 IS	233	4697	0.866	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	55.000				ng/L
	U	235	1392.440				ng/L
	U	238	184235.126				ng/L
	U 232	232	39.000				ng/L
	U 236	236	170.335				ng/L
⌈	U-tot	238	39.537	**7913.374**	43.48	0.5	ng/L
⌊>	U233	233	4696.546				ng/L
	U233 IS	233	4696.546	**106.496**	0.92	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Friday, October 28, 2011 23:41:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.649
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	41	55.399	0.000	
	U	235	44	45.188	0.000	
	U	238	76	51.259	0.000	
	U 232	232	42	55.686	0.000	
	U 236	236	34	57.249	0.000	
[	U-tot	238	161	49.932	0.000	
└>	U233	233	4783	1.109	0.000	
	U233 IS	233	4783	1.109	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	41.333				ng/L
	U	235	44.333				ng/L
	U	238	75.667				ng/L
	U 232	232	42.000				ng/L
	U 236	236	34.333				ng/L
[	U-tot	238	0.034	**-3.240**	3.45	106.5	ng/L
└>	U233	233	4783.258				ng/L
	U233 IS	233	4783.258	**108.462**	1.20	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 474401d14 df4

Sample Date/Time: Friday, October 28, 2011 23:44:06
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474401d14 df4.650
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	65	28.063	0.000	
	U	235	1426	3.834	0.000	
	U	238	364615	0.242	0.000	
	U 232	232	141	23.058	0.000	
	U 236	236	104	20.340	0.000	
⌈	U-tot	238	366106	0.224	0.000	
└>	U233	233	4553	1.016	0.000	
	U233 IS	233	4553	1.016	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	64.667				ng/L
	U	235	1426.112				ng/L
	U	238	364615.211				ng/L
	U 232	232	141.001				ng/L
	U 236	236	104.334				ng/L
⌈	U-tot	238	80.407	**16103.726**	154.17	1.0	ng/L
└>	U233	233	4553.474				ng/L
	U233 IS	233	4553.474	**103.252**	1.05	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474401d14d df4
Sample Date/Time: Friday, October 28, 2011 23:46:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474401d14d df4.651
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	65	40.966	0.000	
	U	235	1363	2.596	0.000	
	U	238	353432	0.159	0.000	
	U 232	232	300	9.770	0.000	
	U 236	236	114	32.669	0.000	
┌	U-tot	238	354860	0.149	0.000	
└>	U233	233	4469	1.734	0.000	
	U233 IS	233	4469	1.734	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	65.334				ng/L
	U	235	1363.436				ng/L
	U	238	353431.606				ng/L
	U 232	232	300.005				ng/L
	U 236	236	114.001				ng/L
┌	U-tot	238	79.426	**15907.129**	286.82	1.8	ng/L
└>	U233	233	4468.765				ng/L
	U233 IS	233	4468.765	**101.331**	1.76	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d14 df2

Sample Date/Time: Friday, October 28, 2011 23:48:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d14 df2.652
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	53	41.381	0.000	
U	235	1368	3.941	0.000	
U	238	365457	0.662	0.000	
U 232	232	732	1.026	0.000	
U 236	236	104	14.512	0.000	
⌈ U-tot	238	366878	0.679	0.000	
└> U233	233	4456	1.576	0.000	
U233 IS	233	4456	1.576	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	53.000				ng/L
U	235	1367.770				ng/L
U	238	365456.857				ng/L
U 232	232	731.696				ng/L
U 236	236	103.667				ng/L
⌈ U-tot	238	82.344	**16491.953**	355.26	2.2	ng/L
└> U233	233	4456.426				ng/L
U233 IS	233	4456.426	**101.051**	1.59	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d14L df10

Sample Date/Time: Friday, October 28, 2011 23:51:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d14L df10.653
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	41	41.245	0.000	
	U	235	281	12.467	0.000	
	U	238	71140	0.894	0.000	
	U 232	232	203	13.525	0.000	
	U 236	236	46	50.657	0.000	
┌	U-tot	238	71462	0.962	0.000	
└>	U233	233	4243	1.602	0.000	
	U233 IS	233	4243	1.602	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	40.667				ng/L
	U	235	280.671				ng/L
	U	238	71140.281				ng/L
	U 232	232	203.336				ng/L
	U 236	236	46.000				ng/L
┌	U-tot	238	16.845	**3365.711**	75.30	2.2	ng/L
└>	U233	233	4243.324				ng/L
	U233 IS	233	4243.324	**96.219**	1.54	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d14D df2

Sample Date/Time: Friday, October 28, 2011 23:53:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d14D df2.654
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	60	46.818	0.000	
	U	235	1300	2.502	0.000	
	U	238	351165	0.735	0.000	
	U 232	232	1376	3.280	0.000	
	U 236	236	111	38.490	0.000	
┌	U-tot	238	352525	0.725	0.000	
└>	U233	233	4317	0.271	0.000	
	U233 IS	233	4317	0.271	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	59.667				ng/L
	U	235	1300.426				ng/L
	U	238	351165.149				ng/L
	U 232	232	1376.104				ng/L
	U 236	236	110.667				ng/L
┌	U-tot	238	81.665	**16355.975**	93.27	0.6	ng/L
└>	U233	233	4316.691				ng/L
	U233 IS	233	4316.691	**97.883**	0.26	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d14AS df2

Sample Date/Time: Friday, October 28, 2011 23:55:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

spiked 20uL 1° natural
uranium @ df 100 (075-Rad-Sd 2
(11-064-06) in 10 mL

TU = 20,462 ng/L x df 2 = 40,924 ng/L
10/31/11 NS

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d14AS df2.655
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	91	28.342	0.000	
U	235	4905	0.487	0.000	
U	238	852649	0.568	0.000	
U 232	232	827	9.026	0.000	
U 236	236	94	37.867	0.000	
U-tot	238	857644	0.567	0.000	
U233	233	4651	2.187	0.000	
U233 IS	233	4651	2.187	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	90.667				ng/L
U	235	4904.656				ng/L
U	238	852646.813				ng/L
U 232	232	827.038				ng/L
U 236	236	94.001				ng/L
U-tot	238	184.468	**36957.970**	882.40	2.4	ng/L
U233	233	4650.856				ng/L
U233 IS	233	4650.856	**105.460**	2.31	2.2	%R

010318

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Friday, October 28, 2011 23:58:07
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.656
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	31	64.758	0.000	
	U	235	27	78.869	0.000	
	U	238	85	35.353	0.000	
	U 232	232	113	6.894	0.000	
	U 236	236	24	80.364	0.000	
[	U-tot	238	143	49.793	0.000	
L>	U233	233	4743	1.882	0.000	
	U233 IS	233	4743	1.882	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	31.000				ng/L
	U	235	26.667				ng/L
	U	238	85.000				ng/L
	U 232	232	112.667				ng/L
	U 236	236	24.000				ng/L
[	U-tot	238	0.030	**-4.017**	2.90	72.1	ng/L
L>	U233	233	4742.570				ng/L
	U233 IS	233	4742.570	**107.540**	2.02	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Saturday, October 29, 2011 00:00:29
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.657
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	17	79.900	0.000	
	U	235	25	60.856	0.000	
	U	238	932	1.744	0.000	
	U 232	232	35	39.693	0.000	
	U 236	236	16	119.242	0.000	
┌	U-tot	238	974	4.526	0.000	
└>	U233	233	4574	0.951	0.000	
	U233 IS	233	4574	0.951	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	16.667				ng/L
	U	235	24.667				ng/L
	U	238	932.381				ng/L
	U 232	232	35.000				ng/L
	U 236	236	16.000				ng/L
┌	U-tot	238	0.213	**32.643**	1.85	5.7	ng/L
└>	U233	233	4573.817				ng/L
	U233 IS	233	4573.817	**103.713**	0.99	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Saturday, October 29, 2011 00:02:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.658
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	53	45.583	0.000	
	U	235	1377	2.484	0.000	
	U	238	183182	0.097	0.000	
	U 232	232	42	52.094	0.000	
	U 236	236	151	16.044	0.000	
┌	U-tot	238	184612	0.103	0.000	
└>	U233	233	4588	1.022	0.000	
	U233 IS	233	4588	1.022	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	52.667				ng/L
	U	235	1377.438				ng/L
	U	238	183182.156				ng/L
	U 232	232	42.333				ng/L
	U 236	236	150.668				ng/L
┌	U-tot	238	40.240	**8054.168**	91.05	1.1	ng/L
└>	U233	233	4588.158				ng/L
	U233 IS	233	4588.158	**104.038**	1.06	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Saturday, October 29, 2011 00:05:16
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.659
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	30	95.278	0.000	
	U	235	22	100.156	0.000	
	U	238	45	47.192	0.000	
	U 232	232	25	95.105	0.000	
	U 236	236	17	117.500	0.000	
⌈	U-tot	238	97	74.148	0.000	
↳	U233	233	4726	1.042	0.000	
	U233 IS	233	4726	1.042	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	30.000				ng/L
	U	235	22.333				ng/L
	U	238	44.667				ng/L
	U 232	232	24.667				ng/L
	U 236	236	17.000				ng/L
⌈	U-tot	238	0.020	**-5.918**	3.01	50.9	ng/L
↳	U233	233	4725.561				ng/L
	U233 IS	233	4725.561	**107.154**	1.12	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: Blankd21 db4 (RE) 10/31/11 NS
Sample Date/Time: Saturday, October 29, 2011 00:07:37
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\totel u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\Blankd21.660
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	37	37.128	0.000	
U	235	1973	2.468	0.000	
U	238	580000	0.402	0.000	
U 232	232	31	34.126	0.000	
U 236	236	114	7.885	0.000	
⌈ U-tot	238	582009	0.394	0.000	
↳ U233	233	4594	0.333	0.000	
U233 IS	233	4594	0.333	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	36.667				ng/L
U	235	1972.881				ng/L
U	238	579999.518				ng/L
U 232	232	31.333				ng/L
U 236	236	113.667				ng/L
⌈ U-tot	238	126.696	**25380.236**	183.85	0.7	ng/L
↳ U233	233	4593.827				ng/L
U233 IS	233	4593.827	**104.167**	0.35	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474212d21 df4

Sample Date/Time: Saturday, October 29, 2011 00:09:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474212d21 df4.661
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	41	63.555	0.000	
	U	235	1770	3.589	0.000	
	U	238	518361	0.564	0.000	
	U 232	232	39	49.842	0.000	
	U 236	236	117	25.459	0.000	
┌	U-tot	238	520172	0.546	0.000	
└>	U233	233	4426	1.151	0.000	
	U233 IS	233	4426	1.151	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	41.000				ng/L
	U	235	1769.506				ng/L
	U	238	518361.036				ng/L
	U 232	232	39.333				ng/L
	U 236	236	117.334				ng/L
┌	U-tot	238	117.523	**23542.072**	237.74	1.0	ng/L
└>	U233	233	4426.411				ng/L
	U233 IS	233	4426.411	**100.371**	1.16	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: 474212d21d df4
Sample Date/Time: Saturday, October 29, 2011 00:12:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474212d21d df4.662
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	39	57.268	0.000	
	U	235	1676	5.202	0.000	
	U	238	487522	0.614	0.000	
	U 232	232	69	72.768	0.000	
	U 236	236	104	26.877	0.000	
┌	U-tot	238	489236	0.634	0.000	
└>	U233	233	4170	0.624	0.000	
	U233 IS	233	4170	0.624	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	38.667				ng/L
	U	235	1676.155				ng/L
	U	238	487521.523				ng/L
	U 232	232	69.000				ng/L
	U 236	236	104.334				ng/L
┌	U-tot	238	117.336	**23504.595**	205.41	0.9	ng/L
└>	U233	233	4169.623				ng/L
	U233 IS	233	4169.623	**94.548**	0.59	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474213d21 df4

Sample Date/Time: Saturday, October 29, 2011 00:14:30
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandate\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474213d21 df4.663
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	55	75.008	0.000	
U	235	1200	5.753	0.000	
U	238	318214	1.101	0.000	
U 232	232	74	46.260	0.000	
U 236	236	96	47.358	0.000	
U-tot	238	319468	1.108	0.000	
U233	233	4246	1.551	0.000	
U233 IS	233	4246	1.551	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	54.667				ng/L
U	235	1199.746				ng/L
U	238	318213.937				ng/L
U 232	232	73.667				ng/L
U 236	236	96.334				ng/L
U-tot	238	75.261	**15072.456**	324.86	2.2	ng/L
U233	233	4245.658				ng/L
U233 IS	233	4245.658	**96.272**	1.49	1.6	%R

010326

Quantitative Analysis - Summary Report

Sample ID: 474213d21d df4

Sample Date/Time: Saturday, October 29, 2011 00:16:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474213d21d df4.664
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	97	55.046	0.000	
	U	235	1421	6.820	0.000	
	U	238	355245	0.759	0.000	
	U 232	232	135	40.944	0.000	
	U 236	236	157	41.923	0.000	
[	U-tot	238	356763	0.762	0.000	
L>	U233	233	4326	2.825	0.000	
	U233 IS	233	4326	2.825	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	97.001				ng/L
	U	235	1421.445				ng/L
	U	238	355244.841				ng/L
	U 232	232	135.334				ng/L
	U 236	236	157.002				ng/L
[	U-tot	238	82.513	**16525.829**	414.35	2.5	ng/L
L>	U233	233	4325.696				ng/L
	U233 IS	233	4325.696	**98.087**	2.77	2.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474214d21
Sample Date/Time: Saturday, October 29, 2011 00:19:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474214d21.665
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	55	41.619	0.000	
U	235	2075	7.504	0.000	
U	238	525935	0.244	0.000	
U 232	232	328	9.076	0.000	
U 236	236	119	18.385	0.000	
┌ U-tot	238	528066	0.224	0.000	
└> U233	233	4366	2.033	0.000	
U233 IS	233	4366	2.033	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	55.334				ng/L
U	235	2074.904				ng/L
U	238	525935.469				ng/L
U 232	232	327.673				ng/L
U 236	236	119.334				ng/L
┌ U-tot	238	120.991	**24237.035**	503.14	2.1	ng/L
└> U233	233	4365.715				ng/L
U233 IS	233	4365.715	**98.994**	2.01	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474214d21d

Sample Date/Time: Saturday, October 29, 2011 00:21:28
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474214d21d.666
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	57	25.416	0.000	
U	235	2520	3.116	0.000	
U	238	629614	0.667	0.000	
U 232	232	239	12.497	0.000	
U 236	236	131	14.548	0.000	
⌈ U-tot	238	632192	0.665	0.000	
↳ U233	233	4479	1.999	0.000	
U233 IS	233	4479	1.999	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	57.334				ng/L
U	235	2520.350				ng/L
U	238	629614.295				ng/L
U 232	232	239.003				ng/L
U 236	236	130.668				ng/L
⌈ U-tot	238	141.183	**28283.448**	761.05	2.7	ng/L
↳ U233	233	4479.437				ng/L
U233 IS	233	4479.437	**101.573**	2.03	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Saturday, October 29, 2011 00:23:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.667
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	23	13.093	0.000	
U	235	24	13.210	0.000	
U	238	308	30.241	0.000	
U 232	232	38	6.565	0.000	
U 236	236	17	61.414	0.000	
[U-tot	238	355	25.023	0.000	
↳ U233	233	4812	1.378	0.000	
U233 IS	233	4812	1.378	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	23.333				ng/L
U	235	24.333				ng/L
U	238	307.672				ng/L
U 232	232	38.333				ng/L
U 236	236	17.000				ng/L
[U-tot	238	0.074	**4.815**	3.93	81.6	ng/L
↳ U233	233	4811.606				ng/L
U233 IS	233	4811.606	**109.105**	1.50	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Saturday, October 29, 2011 00:26:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.668
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	72	24.817	0.000	
	U	235	79	26.124	0.000	
	U	238	1133	4.521	0.000	
	U 232	232	62	20.210	0.000	
	U 236	236	65	28.737	0.000	
⌈	U-tot	238	1283	5.272	0.000	
⌊>	U233	233	4971	2.253	0.000	
	U233 IS	233	4971	2.253	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	71.667				ng/L
	U	235	78.667				ng/L
	U	238	1133.071				ng/L
	U 232	232	62.000				ng/L
	U 236	236	64.667				ng/L
⌈	U-tot	238	0.258	**41.775**	3.94	9.4	ng/L
⌊>	U233	233	4971.359				ng/L
	U233 IS	233	4971.359	**112.727**	2.54	2.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Saturday, October 29, 2011 00:28:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.669
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	68	32.423	0.000	
	U	235	1523	2.991	0.000	
	U	238	194408	0.495	0.000	
	U 232	232	62	44.266	0.000	
	U 236	236	206	10.906	0.000	
┌	U-tot	238	195999	0.493	0.000	
└>	U233	233	4933	3.337	0.000	
	U233 IS	233	4933	3.337	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	67.667				ng/L
	U	235	1522.794				ng/L
	U	238	194408.413				ng/L
	U 232	232	62.334				ng/L
	U 236	236	206.336				ng/L
┌	U-tot	238	39.763	**7958.582**	300.62	3.8	ng/L
└>	U233	233	4933.339				ng/L
	U233 IS	233	4933.339	**111.865**	3.73	3.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Saturday, October 29, 2011 00:30:58
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.670
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	53	54.391	0.000	
U	235	55	66.133	0.000	
U	238	90	44.194	0.000	
U 232	232	42	60.351	0.000	
U 236	236	51	55.556	0.000	
⌈ U-tot	238	198	52.405	0.000	
↳ U233	233	5097	4.257	0.000	
U233 IS	233	5097	4.257	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	53.000				ng/L
U	235	55.000				ng/L
U	238	89.667				ng/L
U 232	232	41.667				ng/L
U 236	236	50.667				ng/L
⌈ U-tot	238	0.039	**-2.249**	4.11	182.9	ng/L
↳ U233	233	5097.430				ng/L
U233 IS	233	5097.430	**115.586**	4.92	4.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474221d21 df4

Sample Date/Time: Saturday, October 29, 2011 00:33:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474221d21 df4.671
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	68	48.123	0.000	
	U	235	1237	6.646	0.000	
	U	238	316694	0.506	0.000	
	U 232	232	154	36.364	0.000	
	U 236	236	106	36.790	0.000	
┌	U-tot	238	318000	0.535	0.000	
└>	U233	233	4996	1.482	0.000	
	U233 IS	233	4996	1.482	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	68.334				ng/L
	U	235	1237.418				ng/L
	U	238	316693.878				ng/L
	U 232	232	154.001				ng/L
	U 236	236	106.334				ng/L
┌	U-tot	238	63.657	**12747.047**	140.07	1.1	ng/L
└>	U233	233	4996.039				ng/L
	U233 IS	233	4996.039	**113.287**	1.68	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: 474221d21d df4

Sample Date/Time: Saturday, October 29, 2011 00:35:42
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474221d21d df4.672
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	57	59.027	0.000	
	U	235	1186	2.195	0.000	
	U	238	300286	0.462	0.000	
	U 232	232	121	24.195	0.000	
	U 236	236	96	28.340	0.000	
┌	U-tot	238	301529	0.441	0.000	
└>	U233	233	4870	0.987	0.000	
	U233 IS	233	4870	0.987	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	57.000				ng/L
	U	235	1185.744				ng/L
	U	238	300285.929				ng/L
	U 232	232	120.667				ng/L
	U 236	236	96.334				ng/L
┌	U-tot	238	61.923	**12399.511**	86.41	0.7	ng/L
└>	U233	233	4869.637				ng/L
	U233 IS	233	4869.637	**110.421**	1.09	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474222d21 df4

Sample Date/Time: Saturday, October 29, 2011 00:38:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474222d21 df4.673
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	34	38.235	0.000	
U	235	935	3.529	0.000	
U	238	261064	0.410	0.000	
U 232	232	432	15.577	0.000	
U 236	236	59	36.730	0.000	
U-tot	238	262033	0.402	0.000	
U233	233	4787	2.521	0.000	
U233 IS	233	4787	2.521	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	34.000				ng/L
U	235	935.381				ng/L
U	238	261063.800				ng/L
U 232	232	432.010				ng/L
U 236	236	58.667				ng/L
U-tot	238	54.756	**10963.207**	241.58	2.2	ng/L
U233	233	4787.261				ng/L
U233 IS	233	4787.261	**108.553**	2.74	2.5	%R

010336

Quantitative Analysis - Summary Report

Sample ID: 474222d21d df4

Sample Date/Time: Saturday, October 29, 2011 00:40:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474222d21d df4.674
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	48	59.767	0.000	
	U	235	754	5.986	0.000	
	U	238	202812	0.351	0.000	
	U 232	232	275	2.745	0.000	
	U 236	236	69	44.228	0.000	
┌	U-tot	238	203614	0.315	0.000	
└>	U233	233	4811	1.866	0.000	
	U233 IS	233	4811	1.866	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	48.000				ng/L
	U	235	754.031				ng/L
	U	238	202812.368				ng/L
	U 232	232	275.004				ng/L
	U 236	236	69.334				ng/L
┌	U-tot	238	42.337	**8474.437**	174.43	2.1	ng/L
└>	U233	233	4810.606				ng/L
	U233 IS	233	4810.606	**109.082**	2.04	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474300d21 df4

Sample Date/Time: Saturday, October 29, 2011 00:42:47
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474300d21 df4.675
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	68	29.608	0.000	
	U	235	1828	4.758	0.000	
	U	238	510825	0.435	0.000	
	U 232	232	1152	8.465	0.000	
	U 236	236	142	14.067	0.000	
┌	U-tot	238	512722	0.447	0.000	
└>	U233	233	4686	1.716	0.000	
	U233 IS	233	4686	1.716	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	68.334				ng/L
	U	235	1828.184				ng/L
	U	238	510825.478				ng/L
	U 232	232	1152.073				ng/L
	U 236	236	142.001				ng/L
┌	U-tot	238	109.446	**21923.313**	478.24	2.2	ng/L
└>	U233	233	4685.874				ng/L
	U233 IS	233	4685.874	**106.254**	1.82	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 474300d21d df4

Sample Date/Time: Saturday, October 29, 2011 00:45:06
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474300d21d df4.676
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	76	20.888	0.000	
	U	235	1948	1.029	0.000	
	U	238	520483	1.433	0.000	
	U 232	232	693	3.904	0.000	
	U 236	236	157	10.334	0.000	
⌈	U-tot	238	522507	1.430	0.000	
└>	U233	233	4810	1.900	0.000	
	U233 IS	233	4810	1.900	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	76.000				ng/L
	U	235	1947.875				ng/L
	U	238	520482.853				ng/L
	U 232	232	693.026				ng/L
	U 236	236	157.335				ng/L
⌈	U-tot	238	108.630	**21759.789**	121.72	0.6	ng/L
└>	U233	233	4810.273				ng/L
	U233 IS	233	4810.273	**109.075**	2.07	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474301d21 df4

Sample Date/Time: Saturday, October 29, 2011 00:47:21
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474301d21 df4.677
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	94	19.121	0.000	
U	235	1766	2.476	0.000	
U	238	470467	0.361	0.000	
U 232	232	235	16.694	0.000	
U 236	236	161	14.654	0.000	
┌ U-tot	238	472327	0.360	0.000	
└> U233	233	4636	0.368	0.000	
U233 IS	233	4636	0.368	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	94.334				ng/L
U	235	1766.172				ng/L
U	238	470466.681				ng/L
U 232	232	235.003				ng/L
U 236	236	160.668				ng/L
┌ U-tot	238	101.879	**20406.792**	32.24	0.2	ng/L
└> U233	233	4636.182				ng/L
U233 IS	233	4636.182	**105.127**	0.39	0.4	%R

010340

Quantitative Analysis - Summary Report

Sample ID: 474301d21d df4
Sample Date/Time: Saturday, October 29, 2011 00:49:36
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474301d21d df4.678
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	61	20.872	0.000	
	U	235	1730	3.809	0.000	
	U	238	463094	0.632	0.000	
	U 232	232	163	18.791	0.000	
	U 236	236	134	5.811	0.000	
[	U-tot	238	464885	0.645	0.000	
L>	U233	233	4482	1.787	0.000	
	U233 IS	233	4482	1.787	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	60.667				ng/L
	U	235	1730.165				ng/L
	U	238	463094.434				ng/L
	U 232	232	162.668				ng/L
	U 236	236	133.668				ng/L
[	U-tot	238	103.735	**20778.844**	403.22	1.9	ng/L
L>	U233	233	4482.438				ng/L
	U233 IS	233	4482.438	**101.641**	1.82	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Saturday, October 29, 2011 00:51:55
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.679
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	61	21.895	0.000	
U	235	62	9.802	0.000	
U	238	99	14.237	0.000	
U 232	232	67	7.089	0.000	
U 236	236	67	17.385	0.000	
┌ U-tot	238	222	12.238	0.000	
└> U233	233	4653	0.686	0.000	
U233 IS	233	4653	0.686	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	61.334				ng/L
U	235	62.334				ng/L
U	238	98.667				ng/L
U 232	232	66.667				ng/L
U 236	236	66.667				ng/L
┌ U-tot	238	0.048	**-0.440**	1.20	273.4	ng/L
└> U233	233	4652.857				ng/L
U233 IS	233	4652.857	**105.505**	0.72	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Saturday, October 29, 2011 00:54:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.680
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	72	50.740	0.000	
U	235	84	52.703	0.000	
U	238	1052	6.103	0.000	
U 232	232	73	71.123	0.000	
U 236	236	75	48.332	0.000	
┌ U-tot	238	1208	11.516	0.000	
└> U233	233	4742	2.030	0.000	
U233 IS	233	4742	2.030	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	71.667				ng/L
U	235	83.667				ng/L
U	238	1052.394				ng/L
U 232	232	73.334				ng/L
U 236	236	74.667				ng/L
┌ U-tot	238	0.255	**41.079**	6.56	16.0	ng/L
└> U233	233	4741.903				ng/L
U233 IS	233	4741.903	**107.524**	2.18	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Saturday, October 29, 2011 00:56:41
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.681
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	58	51.837	0.000	
	U	235	1438	3.200	0.000	
	U	238	184980	0.253	0.000	
	U 232	232	42	54.917	0.000	
	U 236	236	150	14.953	0.000	
⌈	U-tot	238	186476	0.279	0.000	
⌊>	U233	233	4616	1.570	0.000	
	U233 IS	233	4616	1.570	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	58.334				ng/L
	U	235	1437.780				ng/L
	U	238	184980.362				ng/L
	U 232	232	42.000				ng/L
	U 236	236	150.335				ng/L
⌈	U-tot	238	40.406	**8087.458**	129.08	1.6	ng/L
⌊>	U233	233	4615.838				ng/L
	U233 IS	233	4615.838	**104.666**	1.64	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Saturday, October 29, 2011 00:59:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.682
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	61	13.576	0.000	
U	235	61	25.179	0.000	
U	238	86	15.726	0.000	
U 232	232	54	18.239	0.000	
U 236	236	65	14.368	0.000	
U-tot	238	208	17.256	0.000	
U233	233	4941	0.340	0.000	
U233 IS	233	4941	0.340	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	61.334				ng/L
U	235	60.667				ng/L
U	238	86.334				ng/L
U 232	232	54.000				ng/L
U 236	236	64.667				ng/L
U-tot	238	0.042	**-1.570**	1.46	93.1	ng/L
U233	233	4941.009				ng/L
U233 IS	233	4941.009	**112.039**	0.38	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474302d21 df4

Sample Date/Time: Saturday, October 29, 2011 01:01:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474302d21 df4.683
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	63	50.014	0.000	
	U	235	1784	2.687	0.000	
	U	238	458032	0.148	0.000	
	U 232	232	120	46.689	0.000	
	U 236	236	121	38.836	0.000	
┌	U-tot	238	459878	0.149	0.000	
└>	U233	233	4696	1.764	0.000	
	U233 IS	233	4696	1.764	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	62.667				ng/L
	U	235	1783.508				ng/L
	U	238	458032.118				ng/L
	U 232	232	120.001				ng/L
	U 236	236	121.334				ng/L
┌	U-tot	238	97.953	**19620.074**	352.09	1.8	ng/L
└>	U233	233	4695.879				ng/L
	U233 IS	233	4695.879	**106.481**	1.88	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474302d21d df4

Sample Date/Time: Saturday, October 29, 2011 01:03:42
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474302d21d df4.684
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	74	28.314	0.000	
	U	235	1740	3.987	0.000	
	U	238	478726	1.217	0.000	
	U 232	232	281	8.659	0.000	
	U 236	236	142	12.946	0.000	
┌	U-tot	238	480540	1.226	0.000	
└>	U233	233	4761	3.604	0.000	
	U233 IS	233	4761	3.604	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	74.000				ng/L
	U	235	1740.167				ng/L
	U	238	478725.934				ng/L
	U 232	232	281.004				ng/L
	U 236	236	141.668				ng/L
┌	U-tot	238	100.994	**20229.432**	498.30	2.5	ng/L
└>	U233	233	4760.914				ng/L
	U233 IS	233	4760.914	**107.956**	3.89	3.6	%R

Quantitative Analysis - Summary Report

Sample ID: 474340d21

Sample Date/Time: Saturday, October 29, 2011 01:05:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474340d21.685
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	47	26.448	0.000	
	U	235	341	1.617	0.000	
	U	238	81563	0.298	0.000	
	U 232	232	1218	2.375	0.000	
	U 236	236	66	28.015	0.000	
┌	U-tot	238	81951	0.277	0.000	
└>	U233	233	4428	1.443	0.000	
	U233 IS	233	4428	1.443	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	46.667				ng/L
	U	235	340.673				ng/L
	U	238	81563.259				ng/L
	U 232	232	1217.748				ng/L
	U 236	236	66.334				ng/L
┌	U-tot	238	18.508	**3699.036**	48.91	1.3	ng/L
└>	U233	233	4428.412				ng/L
	U233 IS	233	4428.412	**100.416**	1.45	1.4	%R

Quantitative Analysis - Summary Report

Sample ID: 474340d21d

Sample Date/Time: Saturday, October 29, 2011 01:08:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474340d21d.686
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	56	19.869	0.000	
	U	235	334	11.655	0.000	
	U	238	76469	0.566	0.000	
	U 232	232	1030	0.646	0.000	
	U 236	236	65	10.751	0.000	
⌈	U-tot	238	76858	0.626	0.000	
└>	U233	233	4186	0.518	0.000	
	U233 IS	233	4186	0.518	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	55.667				ng/L
	U	235	333.673				ng/L
	U	238	76468.939				ng/L
	U 232	232	1030.392				ng/L
	U 236	236	65.334				ng/L
⌈	U-tot	238	18.361	**3669.672**	34.83	0.9	ng/L
└>	U233	233	4185.964				ng/L
	U233 IS	233	4185.964	**94.918**	0.49	0.5	%R

Quantitative Analysis - Summary Report

Sample ID: 474341d21 df4

Sample Date/Time: Saturday, October 29, 2011 01:10:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474341d21 df4.687
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	61	58.052	0.000	
	U	235	1229	5.175	0.000	
	U	238	341542	0.554	0.000	
	U 232	232	287	13.070	0.000	
	U 236	236	107	39.513	0.000	
[	U-tot	238	342832	0.575	0.000	
L>	U233	233	4436	1.503	0.000	
	U233 IS	233	4436	1.503	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	60.667				ng/L
	U	235	1229.417				ng/L
	U	238	341542.306				ng/L
	U 232	232	287.338				ng/L
	U 236	236	106.667				ng/L
[	U-tot	238	77.294	**15480.019**	248.09	1.6	ng/L
L>	U233	233	4436.082				ng/L
	U233 IS	233	4436.082	**100.590**	1.51	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: 474341d21d df4

Sample Date/Time: Saturday, October 29, 2011 01:12:53
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandate\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DateSet\11 Oct 3\474341d21d df4.688
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	53	59.933	0.000	
U	235	1376	4.365	0.000	
U	238	384073	0.398	0.000	
U 232	232	210	24.692	0.000	
U 236	236	96	18.139	0.000	
U-tot	238	385502	0.420	0.000	
U233	233	4587	1.340	0.000	
U233 IS	233	4587	1.340	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	52.667				ng/L
U	235	1376.438				ng/L
U	238	384072.729				ng/L
U 232	232	210.336				ng/L
U 236	236	96.334				ng/L
U-tot	238	84.056	**16834.997**	236.99	1.4	ng/L
U233	233	4586.824				ng/L
U233 IS	233	4586.824	**104.008**	1.39	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474344d21 df4

Sample Date/Time: Saturday, October 29, 2011 01:15:12
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474344d21 df4.689
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	54	34.791	0.000	
	U	235	1086	3.686	0.000	
	U	238	290964	0.391	0.000	
	U 232	232	169	7.095	0.000	
	U 236	236	89	33.103	0.000	
┌	U-tot	238	292104	0.395	0.000	
└>	U233	233	4688	1.890	0.000	
	U233 IS	233	4688	1.890	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	54.334				ng/L
	U	235	1085.732				ng/L
	U	238	290963.663				ng/L
	U 232	232	169.335				ng/L
	U 236	236	89.000				ng/L
┌	U-tot	238	62.322	**12479.540**	184.97	1.5	ng/L
└>	U233	233	4687.875				ng/L
	U233 IS	233	4687.875	**106.299**	2.01	1.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474344d21d df4
Sample Date/Time: Saturday, October 29, 2011 01:17:31
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474344d21d df4.690
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	56	76.952	0.000	
	U	235	1146	7.189	0.000	
	U	238	310639	0.194	0.000	
	U 232	232	132	41.616	0.000	
	U 236	236	87	55.424	0.000	
┌	U-tot	238	311842	0.230	0.000	
└>	U233	233	4577	2.844	0.000	
	U233 IS	233	4577	2.844	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	56.000				ng/L
	U	235	1146.406				ng/L
	U	238	310639.178				ng/L
	U 232	232	131.668				ng/L
	U 236	236	87.001				ng/L
┌	U-tot	238	68.161	**13649.714**	383.43	2.8	ng/L
└>	U233	233	4577.486				ng/L
	U233 IS	233	4577.486	**103.796**	2.95	2.8	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Saturday, October 29, 2011 01:19:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.691
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	37	98.210	0.000	
	U	235	42	116.525	0.000	
	U	238	81	51.557	0.000	
	U 232	232	40	105.830	0.000	
	U 236	236	35	120.119	0.000	
┌	U-tot	238	161	79.465	0.000	
└>	U233	233	4776	4.306	0.000	
	U233 IS	233	4776	4.306	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	37.333				ng/L
	U	235	42.334				ng/L
	U	238	81.000				ng/L
	U 232	232	40.000				ng/L
	U 236	236	35.333				ng/L
┌	U-tot	238	0.033	**-3.393**	5.06	149.1	ng/L
└>	U233	233	4775.589				ng/L
	U233 IS	233	4775.589	**108.288**	4.66	4.3	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Saturday, October 29, 2011 01:22:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.692
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	65	55.321	0.000	
U	235	62	48.244	0.000	
U	238	994	1.088	0.000	
U 232	232	53	57.497	0.000	
U 236	236	61	68.488	0.000	
U-tot	238	1122	6.576	0.000	
U233	233	4679	1.050	0.000	
U233 IS	233	4679	1.050	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	65.334				ng/L
U	235	62.334				ng/L
U	238	994.054				ng/L
U 232	232	53.334				ng/L
U 236	236	60.667				ng/L
U-tot	238	0.240	**38.019**	2.89	7.6	ng/L
U233	233	4678.537				ng/L
U233 IS	233	4678.537	**106.088**	1.11	1.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Saturday, October 29, 2011 01:24:38
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.693
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	59	60.896	0.000	
	U	235	1426	3.932	0.000	
	U	238	190102	0.040	0.000	
	U 232	232	43	91.564	0.000	
	U 236	238	165	23.303	0.000	
⌈	U-tot	238	191588	0.071	0.000	
⌊>	U233	233	4870	2.856	0.000	
	U233 IS	233	4870	2.856	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	58.667				ng/L
	U	235	1426.445				ng/L
	U	238	190102.407				ng/L
	U 232	232	43.333				ng/L
	U 236	236	165.335				ng/L
⌈	U-tot	238	39.359	**7877.615**	220.13	2.8	ng/L
⌊>	U233	233	4870.305				ng/L
	U233 IS	233	4870.305	**110.436**	3.15	2.9	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Saturday, October 29, 2011 01:27:02
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.694
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	50	63.105	0.000	
U	235	45	79.536	0.000	
U	238	84	59.861	0.000	
U 232	232	46	93.171	0.000	
U 236	236	43	90.981	0.000	
⌈ U-tot	238	178	65.424	0.000	
↳ U233	233	4959	0.271	0.000	
U233 IS	233	4959	0.271	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	49.667				ng/L
U	235	45.000				ng/L
U	238	83.667				ng/L
U 232	232	45.667				ng/L
U 236	236	43.333				ng/L
⌈ U-tot	238	0.036	**-2.806**	4.73	168.6	ng/L
↳ U233	233	4958.685				ng/L
U233 IS	233	4958.685	**112.440**	0.30	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474401d21 df4

Sample Date/Time: Saturday, October 29, 2011 01:29:24
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474401d21 df4.695
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	50	105.660	0.000	
	U	235	1349	5.502	0.000	
	U	238	356394	0.521	0.000	
	U 232	232	125	51.692	0.000	
	U 236	236	85	48.445	0.000	
┌	U-tot	238	357793	0.489	0.000	
└>	U233	233	4717	2.174	0.000	
	U233 IS	233	4717	2.174	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	50.000				ng/L
	U	235	1349.434				ng/L
	U	238	356393.723				ng/L
	U 232	232	125.334				ng/L
	U 236	236	84.667				ng/L
┌	U-tot	238	75.876	**15195.864**	391.30	2.6	ng/L
└>	U233	233	4717.224				ng/L
	U233 IS	233	4717.224	**106.965**	2.33	2.2	%R

Quantitative Analysis - Summary Report

Sample ID: 474401d21d df4

Sample Date/Time: Saturday, October 29, 2011 01:31:45
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474401d21d df4.696
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	54	73.166	0.000	
	U	235	1317	3.803	0.000	
	U	238	338371	0.398	0.000	
	U 232	232	191	9.697	0.000	
	U 236	236	87	36.548	0.000	
┌	U-tot	238	339742	0.423	0.000	
└>	U233	233	4566	1.955	0.000	
	U233 IS	233	4566	1.955	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	54.000				ng/L
	U	235	1316.762				ng/L
	U	238	338370.895				ng/L
	U 232	232	191.002				ng/L
	U 236	236	87.000				ng/L
┌	U-tot	238	74.420	**14904.057**	247.73	1.7	ng/L
└>	U233	233	4566.147				ng/L
	U233 IS	233	4566.147	**103.539**	2.02	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d21 df2

Sample Date/Time: Saturday, October 29, 2011 01:34:05
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d21 df2.697
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	44	86.198	0.000	
	U	235	1233	4.154	0.000	
	U	238	340879	0.669	0.000	
	U 232	232	285	28.493	0.000	
	U 236	236	88	43.316	0.000	
┌	U-tot	238	342157	0.682	0.000	
└>	U233	233	4487	1.021	0.000	
	U233 IS	233	4487	1.021	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	44.333				ng/L
	U	235	1233.417				ng/L
	U	238	340879.155				ng/L
	U 232	232	285.338				ng/L
	U 236	236	88.000				ng/L
┌	U-tot	238	76.250	**15270.759**	94.13	0.6	ng/L
└>	U233	233	4487.441				ng/L
	U233 IS	233	4487.441	**101.754**	1.04	1.0	%R

010360

Quantitative Analysis - Summary Report

Sample ID: 474402d21L df10

Sample Date/Time: Saturday, October 29, 2011 01:36:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d21L df10.698
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	42	82.376	0.000	
	U	235	267	5.751	0.000	
	U	238	69439	0.632	0.000	
	U 232	232	77	20.883	0.000	
	U 236	236	42	74.037	0.000	
⌈	U-tot	238	69748	0.700	0.000	
L>	U233	233	4639	2.878	0.000	
	U233 IS	233	4639	2.878	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	42.000				ng/L
	U	235	267.337				ng/L
	U	238	69438.525				ng/L
	U 232	232	76.667				ng/L
	U 236	236	42.333				ng/L
⌈	U-tot	238	15.042	**3004.416**	65.31	2.2	ng/L
L>	U233	233	4638.851				ng/L
	U233 IS	233	4638.851	**105.188**	3.03	2.9	%R

010361

Quantitative Analysis - Summary Report

Sample ID: 474402d21D df2

Sample Date/Time: Saturday, October 29, 2011 01:38:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d21D df2.699
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	61	55.296	0.000	
U	235	1396	5.138	0.000	
U	238	376152	0.618	0.000	
U 232	232	978	4.075	0.000	
U 236	236	113	19.146	0.000	
U-tot	238	377609	0.590	0.000	
U233	233	4593	2.367	0.000	
U233 IS	233	4593	2.367	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	60.667				ng/L
U	235	1396.107				ng/L
U	238	376151.744				ng/L
U 232	232	978.053				ng/L
U 236	236	112.667				ng/L
U-tot	238	82.251	**16473.324**	439.03	2.7	ng/L
U233	233	4592.827				ng/L
U233 IS	233	4592.827	**104.144**	2.47	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: 474402d21AS df2
Sample Date/Time: Saturday, October 29, 2011 01:41:07
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\474402d21AS df2.700
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

spiked 20µL 1° natural
uranium @ df100 (075-Rad-Sol
(11-064-06) in 10mL

TU = 20,462 ng/L x df2 = 40,924 ng/

10/31/11 NS

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	102	22.589	0.000	
	U	235	4889	2.498	0.000	
	U	238	821038	1.120	0.000	
	U 232	232	305	13.845	0.000	
	U 236	236	121	12.989	0.000	
┌	U-tot	238	826030	1.115	0.000	
└>	U233	233	4590	2.044	0.000	
	U233 IS	233	4590	2.044	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	102.334				ng/L
	U	235	4888.981				ng/L
	U	238	821038.195				ng/L
	U 232	232	305.005				ng/L
	U 236	236	121.001				ng/L
┌	U-tot	238	180.035	**36069.501**	1015.61	2.8	ng/L
└>	U233	233	4589.825				ng/L
	U233 IS	233	4589.825	**104.076**	2.13	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Saturday, October 29, 2011 01:43:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\zzz.701
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	50	94.226	0.000	
	U	235	53	99.794	0.000	
	U	238	130	39.321	0.000	
	U 232	232	61	84.534	0.000	
	U 236	236	51	100.354	0.000	
┌	U-tot	238	233	64.623	0.000	
└>	U233	233	4540	1.774	0.000	
	U233 IS	233	4540	1.774	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	50.334				ng/L
	U	235	52.667				ng/L
	U	238	130.001				ng/L
	U 232	232	61.000				ng/L
	U 236	236	50.667				ng/L
┌	U-tot	238	0.051	**0.189**	6.44	3407.7	ng/L
└>	U233	233	4540.467				ng/L
	U233 IS	233	4540.467	**102.957**	1.83	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Saturday, October 29, 2011 01:45:47
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\critotU.702
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	77	17.180	0.000	
	U	235	94	15.447	0.000	
	U	238	1018	5.267	0.000	
	U 232	232	82	28.384	0.000	
	U 236	236	85	16.833	0.000	
⌈	U-tot	238	1189	6.601	0.000	
↳	U233	233	4677	2.256	0.000	
	U233 IS	233	4677	2.256	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	77.000				ng/L
	U	235	93.667				ng/L
	U	238	1018.390				ng/L
	U 232	232	81.667				ng/L
	U 236	236	85.334				ng/L
⌈	U-tot	238	0.254	**40.907**	2.39	5.8	ng/L
↳	U233	233	4676.536				ng/L
	U233 IS	233	4676.536	**106.042**	2.39	2.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Saturday, October 29, 2011 01:48:11
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccv.703
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	77	30.719	0.000	
U	235	1417	4.921	0.000	
U	238	183746	0.649	0.000	
U 232	232	68	34.582	0.000	
U 236	236	179	12.099	0.000	
┌ U-tot	238	185241	0.650	0.000	
└> U233	233	4663	0.441	0.000	
U233 IS	233	4663	0.441	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	77.334				ng/L
U	235	1417.111				ng/L
U	238	183746.083				ng/L
U 232	232	68.000				ng/L
U 236	236	179.002				ng/L
┌ U-tot	238	39.731	**7952.109**	75.55	1.0	ng/L
└> U233	233	4662.529				ng/L
U233 IS	233	4662.529	**105.725**	0.47	0.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Saturday, October 29, 2011 01:50:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Oct 3\ccb.704
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	63	21.548	0.000	
	U	235	72	20.050	0.000	
	U	238	101	24.662	0.000	
	U 232	232	68	43.326	0.000	
	U 236	236	78	36.645	0.000	
⌈	U-tot	238	236	22.229	0.000	
↳	U233	233	4758	0.401	0.000	
	U233 IS	233	4758	0.401	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	82.667				ng/L
	U	235	72.334				ng/L
	U	238	100.667				ng/L
	U 232	232	68.000				ng/L
	U 236	236	78.000				ng/L
⌈	U-tot	238	0.050	**-0.088**	2.24	2545.6	ng/L
↳	U233	233	4758.245				ng/L
	U233 IS	233	4758.245	**107.895**	0.43	0.4	%R

010367

SOUTHWEST RESEARCH INSTITUTE

☐ 200.8 TAP No. 01-0406-107 Rev 6/Jan 11

☑ 6020 TAP No. 01-0406-046 Rev15/Sep 11

☐ 6020a TAP No. 01-0406-046 Rev15/Sep 11

☐ TAP No. 01-0406-148 Rev 2/Dec 10

☐ Other

ICP-MS CALIB. STD. ID's — **TVs**

S0	11-099-07	
STD. 1	11-091-04	44933 ng/L
I. STD	02-415-08	0.2ppb
I. STD		

QC STD. ID's

ICV/CCV	11-100-06	7666 ng/L
UCL		
CRI	11-100-07	40 ng/L
ICSA	11-100-04	-
ICSAB	11-100-05	20,444 ng/L

ANALYSIS

Utotal

IDL Date: 11/10/2011
STD's IV, CCS 1-6 expire 10/1/12
STD's Spex, ME 1-4 expire 9/15/12

PROJECT#	CLIENT	TO#	DATE	MATRIX	LOGBK PG
16586.05.006	Fluor	110830-12	11/10/11	solid	15/00146-15/00150
↓	↓	110831-5	↓	↓	↓
↓	↓	110901-7	↓	↓	↓
↓	↓	110902-3	↓	↓	↓

INSTRUMENT: DRCII

FILENAME: 111110.rep

Analyst: N. Seiler

Date: 11 / 11 / 11

☐ CONVERTED (.DAT)

010368

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Thursday, November 10, 2011 08:57:44
Sample Description:
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\Daily Performance Check.258
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

11/10/11 NS

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
[> Ce	139.9	29024.0	29023.995	305.898	1.1
Mg	24.0	8322.3	8322.274	70.479	0.8
In	114.9	32234.9	32234.920	317.288	1.0
U	238.1	27782.3	27782.321	90.838	0.3
[CeO	155.9	1603.8	0.055	0.002	3.3
[> Ba	137.9	255789.6	255789.635	1845.876	0.7
[Ba++	69.0	4456.7	0.017	0.000	1.5
Bkgd	220.0	0.9	0.867	0.431	49.8
Bkgd	8.5	38.2	38.233	2.548	6.7

Current Optimization File Data

Current Value	Description
1.02	Nebulizer Gas Flow [NEB]
1.00	Auxiliary Gas Flow
14.25	Plasma Gas Flow
7.50	Lens Voltage
1100.00	ICP RF Power
-1850.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-11.00	Cell Rod Offset Std [CRO]
70.00	Discriminator Threshold
-17.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-15.00	DRC Mode CPV
0.00	Cell Gas A

11/14/11

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	5.0	699.0
Co	59	45	6.3	16217.5
In	115	45	7.0	32112.6

010389

Instrument Mass Calibration Report

File Name: Default.tun
File Path: C:\Elandata\Tuning\Default.tun

Sample ID: Daily Performance Check
Sample Acquistion Date/Time: Thursday, November 10, 2011 08:57:44
Method File: C:\Elandata\Method\Daily Performance.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\Daily Performance Check.258
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 55
Current Dead Time (ns): 55

11/10/11 NS

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
C	12.000	12.025	2776	2022	0.688	
Mg	23.985	24.025	5697	2033	0.671	
Ar2	75.930	75.925	18323	2063	0.687	
In	114.904	114.925	27809	2090	0.694	
Ce	139.905	139.925	33903	2103	0.695	
Pb	207.977	207.975	50478	2148	0.700	
Th	232.038	232.025	56333	2158	0.700	
U	238.050	238.025	57792	2169	0.699	

Quantitative Analysis - Summary Report

Sample ID: S-0
Sample Date/Time: Thursday, November 10, 2011 12:10:40
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\S-0.269
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	9	33.309	0.000	
	U	235	5	40.000	0.000	
	U	238	22	5.329	0.000	
	U 232	232	7	28.386	0.000	
	U 236	236	4	68.635	0.000	
⌈	U-tot	238	35	7.122	0.000	
└>	U233	233	4658	2.009	0.000	
	U233 IS	233	4658	2.009	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	8.667				ng/L
	U	235	5.000				ng/L
	U	238	21.667				ng/L
	U 232	232	7.333				ng/L
	U 236	236	3.667				ng/L
⌈	U-tot	238	0.008				ng/L
└>	U233	233	4657.860				ng/L
	U233 IS	233	4657.860	**100.000**	2.01	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: S-1

Sample Date/Time: Thursday, November 10, 2011 12:13:04
Sample Description:
Solution Type: Standard
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\S-1.270
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	64	20.499	0.000	
	U	235	7619	2.149	0.000	
	U	238	1017082	0.482	0.000	
	U 232	232	6	16.667	0.000	
	U 236	236	203	6.267	0.000	
┌	U-tot	238	1024765	0.463	0.000	
└>	U233	233	4745	2.968	0.000	
	U233 IS	233	4745	2.968	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	63.667				ng/L
	U	235	7618.859				ng/L
	U	238	1017082.084				ng/L
	U 232	232	6.000				ng/L
	U 236	236	202.669				ng/L
┌	U-tot	238	216.077	**44933.000**	1287.00	2.9	ng/L
└>	U233	233	4745.239				ng/L
	U233 IS	233	4745.239	**101.876**	3.02	3.0	%R

010372

Quantitative Analysis - Summary Report

Sample ID: icv

Sample Date/Time: Thursday, November 10, 2011 12:15:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\icv.271
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	21	23.593	0.000	
U	235	1336	1.572	0.000	
U	238	172302	0.325	0.000	
U 232	232	13	19.868	0.000	
U 236	236	113	1.770	0.000	
U-tot	238	173659	0.330	0.000	
U233	233	4537	0.809	0.000	
U233 IS	233	4537	0.809	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	21.333				ng/L
U	235	1336.098				ng/L
U	238	172301.512				ng/L
U 232	232	12.667				ng/L
U 236	236	113.001				ng/L
U-tot	238	38.279	**7958.837**	59.44	0.7	ng/L
U233	233	4536.798				ng/L
U233 IS	233	4536.798	**97.401**	0.79	0.8	%R

Quantitative Analysis - Summary Report

Sample ID: icb

Sample Date/Time: Thursday, November 10, 2011 12:17:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\icb.272
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	10	29.863	0.000	
	U	235	10	31.109	0.000	
	U	238	92	6.522	0.000	
	U 232	232	8	36.661	0.000	
	U 236	236	3	88.192	0.000	
⌈	U-tot	238	112	10.527	0.000	
└>	U233	233	4558	1.224	0.000	
	U233 IS	233	4558	1.224	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	9.667				ng/L
	U	235	10.333				ng/L
	U	238	92.000				ng/L
	U 232	232	8.333				ng/L
	U 236	236	3.000				ng/L
⌈	U-tot	238	0.025	**3.528**	0.47	13.4	ng/L
└>	U233	233	4558.476				ng/L
	U233 IS	233	4558.476	**97.866**	1.20	1.2	%R

010374

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Thursday, November 10, 2011 12:20:15
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\critotU.273
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	12	21.571	0.000	
	U	235	15	3.765	0.000	
	U	238	916	2.622	0.000	
	U 232	232	11	24.052	0.000	
	U 236	236	3	17.321	0.000	
[	U-tot	238	943	2.761	0.000	
L>	U233	233	4584	1.580	0.000	
	U233 IS	233	4584	1.580	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	11.667				ng/L
	U	235	15.333				ng/L
	U	238	915.713				ng/L
	U 232	232	11.000				ng/L
	U 236	236	3.333				ng/L
[	U-tot	238	0.206	**41.202**	1.78	4.3	ng/L
L>	U233	233	4584.489				ng/L
	U233 IS	233	4584.489	**98.425**	1.56	1.6	%R

Quantitative Analysis - Summary Report

Sample ID: icsa
Sample Date/Time: Thursday, November 10, 2011 12:22:39
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\icsa.274
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	8	30.199	0.000	
	U	235	5	20.000	0.000	
	U	238	129	9.993	0.000	
	U 232	232	334	1.305	0.000	
	U 236	236	1	114.564	0.000	
┌	U-tot	238	142	7.999	0.000	
└>	U233	233	4093	2.338	0.000	
	U233 IS	233	4093	2.338	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	8.333				ng/L
	U	235	5.000				ng/L
	U	238	128.668				ng/L
	U 232	232	334.006				ng/L
	U 236	236	1.333				ng/L
┌	U-tot	238	0.035	**5.648**	0.73	12.9	ng/L
└>	U233	233	4092.588				ng/L
	U233 IS	233	4092.588	**87.864**	2.05	2.3	%R

Quantitative Analysis - Summary Report

Sample ID: icsab
Sample Date/Time: Thursday, November 10, 2011 12:25:04
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\icsab.275
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	44	12.423	0.000	
	U	235	3192	1.918	0.000	
	U	238	420653	0.433	0.000	
	U 232	232	317	7.708	0.000	
	U 236	236	3	45.826	0.000	
┌	U-tot	238	423889	0.425	0.000	
└>	U233	233	4218	4.037	0.000	
	U233 IS	233	4218	4.037	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	44.333				ng/L
	U	235	3192.227				ng/L
	U	238	420652.896				ng/L
	U 232	232	317.006				ng/L
	U 236	236	3.333				ng/L
┌	U-tot	238	100.598	**20918.505**	798.28	3.8	ng/L
└>	U233	233	4217.979				ng/L
	U233 IS	233	4217.979	**90.556**	3.66	4.0	%R

Quantitative Analysis - Summary Report

Sample ID: zzz
Sample Date/Time: Thursday, November 10, 2011 12:27:27
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\zzz.276
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	19	41.611	0.000	
	U	235	14	32.733	0.000	
	U	238	123	5.752	0.000	
	U 232	232	21	12.599	0.000	
	U 236	236	10	62.217	0.000	
┌	U-tot	238	156	5.088	0.000	
└>	U233	233	4697	0.333	0.000	
	U233 IS	233	4697	0.333	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	18.667				ng/L
	U	235	14.000				ng/L
	U	238	123.334				ng/L
	U 232	232	21.000				ng/L
	U 236	236	10.333				ng/L
┌	U-tot	238	0.033	**5.328**	0.33	6.2	ng/L
└>	U233	233	4697.213				ng/L
	U233 IS	233	4697.213	**100.845**	0.34	0.3	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Thursday, November 10, 2011 12:29:49
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\ccv.277
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	40	12.230	0.000	
	U	235	1339	1.688	0.000	
	U	238	174603	1.483	0.000	
	U 232	232	36	11.111	0.000	
	U 236	236	142	6.454	0.000	
┌	U-tot	238	175982	1.487	0.000	
└>	U233	233	4710	1.214	0.000	
	U233 IS	233	4710	1.214	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	40.333				ng/L
	U	235	1338.765				ng/L
	U	238	174602.692				ng/L
	U 232	232	36.000				ng/L
	U 236	236	142.001				ng/L
┌	U-tot	238	37.366	**7768.951**	22.19	0.3	ng/L
└>	U233	233	4709.553				ng/L
	U233 IS	233	4709.553	**101.110**	1.23	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Thursday, November 10, 2011 12:32:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\ccb.278
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	43	16.694	0.000	
	U	235	50	15.100	0.000	
	U	238	98	1.767	0.000	
	U 232	232	44	22.939	0.000	
	U 236	236	32	4.824	0.000	
┌	U-tot	238	191	8.497	0.000	
└>	U233	233	4691	1.927	0.000	
	U233 IS	233	4691	1.927	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	43.333				ng/L
	U	235	50.000				ng/L
	U	238	98.001				ng/L
	U 232	232	43.667				ng/L
	U 236	236	31.667				ng/L
┌	U-tot	238	0.041	**6.906**	0.74	10.6	ng/L
└>	U233	233	4691.210				ng/L
	U233 IS	233	4691.210	**100.716**	1.94	1.9	%R

010380

Quantitative Analysis - Summary Report

Sample ID: BlankdX 044 EE NS 11/14/11
Sample Date/Time: Thursday, November 10, 2011 12:44:25
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\BlankdX.279
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	49	7.674	0.000	
	U	235	1892	1.431	0.000	
	U	238	547990	0.532	0.000	
	U 232	232	35	14.803	0.000	
	U 236	236	130	6.572	0.000	
┌	U-tot	238	549932	0.528	0.000	
└>	U233	233	4500	1.051	0.000	
	U233 IS	233	4500	1.051	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	49.333				ng/L
	U	235	1892.197				ng/L
	U	238	547990.190				ng/L
	U 232	232	34.667				ng/L
	U 236	236	130.001				ng/L
┌	U-tot	238	122.204	**25411.611**	312.74	1.2	ng/L
└>	U233	233	4500.447				ng/L
	U233 IS	233	4500.447	**96.620**	1.02	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: 474213dX df4
Sample Date/Time: Thursday, November 10, 2011 12:46:42
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474213dX df4.280
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	17	24.249	0.000	
	U	235	1277	3.214	0.000	
	U	238	347346	0.266	0.000	
	U 232	232	83	15.741	0.000	
	U 236	236	65	14.032	0.000	
┌	U-tot	238	348640	0.254	0.000	
└>	U233	233	4308	0.895	0.000	
	U233 IS	233	4308	0.895	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	16.667				ng/L
	U	235	1277.090				ng/L
	U	238	347346.013				ng/L
	U 232	232	82.667				ng/L
	U 236	236	64.667				ng/L
┌	U-tot	238	80.940	**16830.345**	189.04	1.1	ng/L
└>	U233	233	4307.687				ng/L
	U233 IS	233	4307.687	**92.482**	0.83	0.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474213dX df4 D JR 11/17/11

Sample Date/Time: Thursday, November 10, 2011 12:48:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474213dX df4.281
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	17	12.010	0.000	
U	235	1348	1.820	0.000	
U	238	366500	0.190	0.000	
U 232	232	84	18.836	0.000	
U 236	236	72	8.448	0.000	
U-tot	238	367866	0.182	0.000	
U233	233	4379	1.969	0.000	
U233 IS	233	4379	1.969	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	17.333				ng/L
U	235	1348.433				ng/L
U	238	366500.449				ng/L
U 232	232	84.334				ng/L
U 236	236	72.000				ng/L
U-tot	238	84.034	**17473.921**	353.61	2.0	ng/L
U233	233	4378.721				ng/L
U233 IS	233	4378.721	**94.007**	1.85	2.0	%R

D JR 11/17/11
√

Quantitative Analysis - Summary Report

Sample ID: 474214dX

Sample Date/Time: Thursday, November 10, 2011 12:51:17
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474214dX.282
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	32	9.375	0.000	
	U	235	2134	2.054	0.000	
	U	238	552910	0.289	0.000	
	U 232	232	341	2.993	0.000	
	U 236	236	94	8.013	0.000	
┌	U-tot	238	555075	0.279	0.000	
└>	U233	233	3922	1.200	0.000	
	U233 IS	233	3922	1.200	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	32.000				ng/L
	U	235	2133.917				ng/L
	U	238	552909.520				ng/L
	U 232	232	341.340				ng/L
	U 236	236	93.667				ng/L
┌	U-tot	238	141.560	**29436.684**	362.98	1.2	ng/L
└>	U233	233	3921.512				ng/L
	U233 IS	233	3921.512	**84.191**	1.01	1.2	%R

Quantitative Analysis - Summary Report

Sample ID: 474214dXD

Sample Date/Time: Thursday, November 10, 2011 12:53:35
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474214dXD.283
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	29	12.907	0.000	
	U	235	2395	0.364	0.000	
	U	238	601119	0.903	0.000	
	U 232	232	528	5.670	0.000	
	U 236	236	98	10.657	0.000	
┌	U-tot	238	603543	0.898	0.000	
└>	U233	233	4264	2.828	0.000	
	U233 IS	233	4264	2.828	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	Conc. Mean	Conc. SD	Conc. RSD	Sample Unit
	U	234	29.333				ng/L
	U	235	2395.316				ng/L
	U	238	601118.503				ng/L
	U 232	232	528.349				ng/L
	U 236	236	97.667				ng/L
┌	U-tot	238	141.622	**29449.529**	774.75	2.6	ng/L
└>	U233	233	4263.667				ng/L
	U233 IS	233	4263.667	**91.537**	2.59	2.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474221dX df4

Sample Date/Time: Thursday, November 10, 2011 12:55:54
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474221dX df4.284
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	16	19.500	0.000	
	U	235	1168	3.091	0.000	
	U	238	306382	0.779	0.000	
	U 232	232	139	1.815	0.000	
	U 236	236	54	6.968	0.000	
⌈	U-tot	238	307566	0.773	0.000	
↳	U233	233	4472	3.672	0.000	
	U233 IS	233	4472	3.672	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	15.667				ng/L
	U	235	1168.408				ng/L
	U	238	306381.815				ng/L
	U 232	232	138.668				ng/L
	U 236	236	54.333				ng/L
⌈	U-tot	238	68.854	**14317.072**	636.85	4.4	ng/L
↳	U233	233	4471.767				ng/L
	U233 IS	233	4471.767	**96.005**	3.53	3.7	%R

Quantitative Analysis - Summary Report

Sample ID: 474221dXD df4

Sample Date/Time: Thursday, November 10, 2011 12:58:13
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474221dXD df4.285
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	19	5.263	0.000	
	U	235	1085	4.314	0.000	
	U	238	290239	0.177	0.000	
	U 232	232	135	13.598	0.000	
	U 236	236	58	5.511	0.000	
┌	U-tot	238	291343	0.161	0.000	
└>	U233	233	4551	2.705	0.000	
	U233 IS	233	4551	2.705	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	19.000				ng/L
	U	235	1085.398				ng/L
	U	238	290238.662				ng/L
	U 232	232	135.001				ng/L
	U 236	236	58.334				ng/L
┌	U-tot	238	64.053	**13318.572**	375.57	2.8	ng/L
└>	U233	233	4550.806				ng/L
	U233 IS	233	4550.806	**97.702**	2.64	2.7	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Thursday, November 10, 2011 13:00:34
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\zzz.286
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	9	13.323	0.000	
U	235	7	37.749	0.000	
U	238	104	22.052	0.000	
U 232	232	10	43.589	0.000	
U 236	236	2	124.900	0.000	
U-tot	238	120	17.214	0.000	
U233	233	4842	0.648	0.000	
U233 IS	233	4842	0.648	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	8.667				ng/L
U	235	6.667				ng/L
U	238	104.334				ng/L
U 232	232	10.000				ng/L
U 236	236	1.667				ng/L
U-tot	238	0.025	**3.565**	0.91	25.5	ng/L
U233	233	4841.956				ng/L
U233 IS	233	4841.956	**103.952**	0.67	0.6	%R

Quantitative Analysis - Summary Report

Sample ID: critotU
Sample Date/Time: Thursday, November 10, 2011 13:02:56
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\critotU.287
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	10	11.945	0.000	
	U	235	10	30.000	0.000	
	U	238	913	2.640	0.000	
	U 232	232	11	10.189	0.000	
	U 236	236	4	68.635	0.000	
┌	U-tot	238	933	2.351	0.000	
└>	U233	233	4635	1.058	0.000	
	U233 IS	233	4635	1.058	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	9.667				ng/L
	U	235	10.000				ng/L
	U	238	913.379				ng/L
	U 232	232	11.333				ng/L
	U 236	236	3.667				ng/L
┌	U-tot	238	0.201	**40.299**	1.42	3.5	ng/L
└>	U233	233	4634.514				ng/L
	U233 IS	233	4634.514	**99.499**	1.05	1.1	%R

Quantitative Analysis - Summary Report

Sample ID: ccv
Sample Date/Time: Thursday, November 10, 2011 13:05:19
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\ccv.288
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	26.357	0.000	
	U	235	1309	1.653	0.000	
	U	238	174121	0.428	0.000	
	U 232	232	8	15.061	0.000	
	U 236	236	109	8.408	0.000	
┌	U-tot	238	175445	0.433	0.000	
└>	U233	233	4670	1.983	0.000	
	U233 IS	233	4670	1.983	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	15.333				ng/L
	U	235	1309.094				ng/L
	U	238	174121.033				ng/L
	U 232	232	7.667				ng/L
	U 236	236	109.001				ng/L
┌	U-tot	238	37.582	**7813.757**	187.65	2.4	ng/L
└>	U233	233	4669.866				ng/L
	U233 IS	233	4669.866	**100.258**	1.99	2.0	%R

Quantitative Analysis - Summary Report

Sample ID: ccb

Sample Date/Time: Thursday, November 10, 2011 13:07:44
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\ccb.289
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	8	19.924	0.000	
	U	235	4	35.251	0.000	
	U	238	48	12.293	0.000	
	U 232	232	12	35.686	0.000	
	U 236	236	2	98.974	0.000	
┌	U-tot	238	60	14.254	0.000	
└>	U233	233	4702	1.347	0.000	
	U233 IS	233	4702	1.347	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	7.667				ng/L
	U	235	4.333				ng/L
	U	238	47.667				ng/L
	U 232	232	11.667				ng/L
	U 236	236	2.333				ng/L
┌	U-tot	238	0.013	**1.064**	0.41	38.3	ng/L
└>	U233	233	4702.216				ng/L
	U233 IS	233	4702.216	**100.952**	1.36	1.3	%R

Quantitative Analysis - Summary Report

Sample ID: 474222dX df4

Sample Date/Time: Thursday, November 10, 2011 13:10:06
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474222dX df4.290
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	16	12.745	0.000	
U	235	708	7.160	0.000	
U	238	191886	0.748	0.000	
U 232	232	224	12.380	0.000	
U 236	236	33	10.497	0.000	
U-tot	238	192610	0.751	0.000	
U233	233	4510	1.519	0.000	
U233 IS	233	4510	1.519	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	16.333				ng/L
U	235	708.361				ng/L
U	238	191885.697				ng/L
U 232	232	224.003				ng/L
U 236	236	33.000				ng/L
U-tot	238	42.710	**8880.225**	80.71	0.9	ng/L
U233	233	4510.119				ng/L
U233 IS	233	4510.119	**96.828**	1.47	1.5	%R

Quantitative Analysis - Summary Report

Sample ID: 474222dXD df4

Sample Date/Time: Thursday, November 10, 2011 13:12:26
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474222dXD df4.291
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	13	26.339	0.000	
	U	235	826	3.070	0.000	
	U	238	222970	0.924	0.000	
	U 232	232	304	31.188	0.000	
	U 236	236	41	9.938	0.000	
⌈	U-tot	238	223809	0.929	0.000	
L>	U233	233	4456	1.705	0.000	
	U233 IS	233	4456	1.705	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	13.333				ng/L
	U	235	826.038				ng/L
	U	238	222969.709				ng/L
	U 232	232	303.672				ng/L
	U 236	236	40.667				ng/L
⌈	U-tot	238	50.231	**10444.202**	189.59	1.8	ng/L
L>	U233	233	4456.426				ng/L
	U233 IS	233	4456.426	**95.675**	1.63	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: 474340dX

Sample Date/Time: Thursday, November 10, 2011 13:14:47
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474340dX.292
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	11	27.273	0.000	
U	235	280	4.326	0.000	
U	238	71556	0.837	0.000	
U 232	232	984	4.092	0.000	
U 236	236	12	52.755	0.000	
U-tot	238	71847	0.838	0.000	
U233	233	4347	1.812	0.000	
U233 IS	233	4347	1.812	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	11.000				ng/L
U	235	279.671				ng/L
U	238	71556.192				ng/L
U 232	232	984.053				ng/L
U 236	236	12.333				ng/L
U-tot	238	16.530	**3436.012**	49.64	1.4	ng/L
U233	233	4347.039				ng/L
U233 IS	233	4347.039	**93.327**	1.69	1.8	%R

Quantitative Analysis - Summary Report

Sample ID: 474340dXL df5

Sample Date/Time: Thursday, November 10, 2011 13:17:08
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474340dXL df5.293
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	14	4.225	0.000	
U	235	69	5.020	0.000	
U	238	15299	0.928	0.000	
U 232	232	237	5.611	0.000	
U 236	236	5	21.651	0.000	
U-tot	238	15381	0.927	0.000	
U233	233	4678	2.888	0.000	
U233 IS	233	4678	2.888	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	13.667				ng/L
U	235	69.000				ng/L
U	238	15298.529				ng/L
U 232	232	236.670				ng/L
U 236	236	5.333				ng/L
U-tot	238	3.289	**682.494**	16.08	2.4	ng/L
U233	233	4677.871				ng/L
U233 IS	233	4677.871	**100.430**	2.90	2.9	%R

Quantitative Analysis - Summary Report

Sample ID: 474340dXD
Sample Date/Time: Thursday, November 10, 2011 13:19:30
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474340dXD.294
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	16	14.741	0.000	
U	235	315	3.849	0.000	
U	238	76445	0.482	0.000	
U 232	232	1005	4.481	0.000	
U 236	236	14	32.733	0.000	
U-tot	238	76776	0.473	0.000	
U233	233	4572	1.782	0.000	
U233 IS	233	4572	1.782	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	15.667				ng/L
U	235	315.005				ng/L
U	238	76445.407				ng/L
U 232	232	1005.056				ng/L
U 236	236	14.000				ng/L
U-tot	238	16.795	**3490.964**	66.71	1.9	ng/L
U233	233	4572.463				ng/L
U233 IS	233	4572.483	**98.167**	1.75	1.8	%R

010396

Quantitative Analysis - Summary Report

Sample ID: 474340dXAS

Sample Date/Time: Thursday, November 10, 2011 13:21:52
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

spiked 20uL 1° natural uranium @ df 100 (075-Rad-S
11-064-06)
in 10mL

TV = 20,462 ng/L

11/11/11 NS

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\474340dXAS.295
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	42	27.276	0.000	
U	235	3623	2.740	0.000	
U	238	525920	0.419	0.000	
U 232	232	1074	11.031	0.000	
U 236	236	17	20.377	0.000	
U-tot	238	529585	0.429	0.000	
U233	233	4547	1.658	0.000	
U233 IS	233	4547	1.658	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	42.333				ng/L
U	235	3623.389				ng/L
U	238	525919.703				ng/L
U 232	232	1074.397				ng/L
U 236	236	17.000				ng/L
U-tot	238	116.498	**24224.866**	453.67	1.9	ng/L
U233	233	4546.804				ng/L
U233 IS	233	4546.804	**97.616**	1.62	1.7	%R

Quantitative Analysis - Summary Report

Sample ID: zzz

Sample Date/Time: Thursday, November 10, 2011 13:24:14
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\zzz.296
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	11	28.364	0.000	
	U	235	8	33.072	0.000	
	U	238	220	4.336	0.000	
	U 232	232	20	15.025	0.000	
	U 236	236	2	124.900	0.000	
┌	U-tot	238	239	3.745	0.000	
└>	U233	233	4846	3.666	0.000	
	U233 IS	233	4846	3.666	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	11.333				ng/L
	U	235	8.000				ng/L
	U	238	220.003				ng/L
	U 232	232	20.333				ng/L
	U 236	236	1.667				ng/L
┌	U-tot	238	0.049	**8.692**	0.02	0.2	ng/L
└>	U233	233	4846.293				ng/L
	U233 IS	233	4846.293	**104.045**	3.81	3.7	%R

Quantitative Analysis - Summary Report

Sample ID: critotU

Sample Date/Time: Thursday, November 10, 2011 13:26:36
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\critotU.297
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	15	19.924	0.000	
	U	235	16	12.500	0.000	
	U	238	933	2.437	0.000	
	U 232	232	17	17.625	0.000	
	U 236	236	7	34.317	0.000	
[	U-tot	238	965	2.330	0.000	
L>	U233	233	4836	2.427	0.000	
	U233 IS	233	4836	2.427	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	15.333				ng/L
	U	235	16.000				ng/L
	U	238	933.381				ng/L
	U 232	232	17.333				ng/L
	U 236	236	7.333				ng/L
[	U-tot	238	0.199	**39.909**	0.40	1.0	ng/L
L>	U233	233	4835.953				ng/L
	U233 IS	233	4835.953	**103.823**	2.52	2.4	%R

Quantitative Analysis - Summary Report

Sample ID: ccv

Sample Date/Time: Thursday, November 10, 2011 13:28:59
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\ccv.298
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

	Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
	U	234	30	13.623	0.000	
	U	235	1312	2.832	0.000	
	U	238	175785	0.673	0.000	
	U 232	232	19	23.890	0.000	
	U 236	236	126	7.521	0.000	
[	U-tot	238	177127	0.647	0.000	
L>	U233	233	4650	0.657	0.000	
	U233 IS	233	4650	0.657	0.000	

Concentration Results

	Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	U	234	29.667				ng/L
	U	235	1312.428				ng/L
	U	238	175784.622				ng/L
	U 232	232	19.333				ng/L
	U 236	236	125.668				ng/L
[	U-tot	238	38.096	**7920.815**	60.16	0.8	ng/L
L>	U233	233	4649.522				ng/L
	U233 IS	233	4649.522	**99.821**	0.66	0.7	%R

Quantitative Analysis - Summary Report

Sample ID: ccb
Sample Date/Time: Thursday, November 10, 2011 13:31:23
Sample Description:
Solution Type: Sample
Blank File:
Number of Replicates: 3
Peak Processing Mode: Average
Signal Profile Processing Mode: Average
Dual Detector Mode: Dual
Dead Time (ns): 55

Sample File: C:\Elandata\Sample\Fluor_leach_totU_rerun.sam
Method File: C:\Elandata\Method\swri\total u only u233 is.mth
Dataset File: C:\Elandata\DataSet\11 Nov 1\ccb.299
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Calibration File:
Calibration Type: External Calibration

Summary

Intensities

Analyte	Mass	Meas. Intens. Mean	Meas. Intens. RSD	Blank Intensity	Blank Intens. RSD
U	234	39	13.568	0.000	
U	235	47	10.786	0.000	
U	238	73	7.579	0.000	
U 232	232	38	29.667	0.000	
U 236	236	37	36.564	0.000	
┌ U-tot	238	158	2.553	0.000	
└> U233	233	4750	1.362	0.000	
U233 IS	233	4750	1.362	0.000	

Concentration Results

Analyte	Mass	Net Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
U	234	39.000				ng/L
U	235	46.667				ng/L
U	238	72.667				ng/L
U 232	232	38.333				ng/L
U 236	236	37.333				ng/L
┌ U-tot	238	0.033	**5.355**	0.18	3.4	ng/L
└> U233	233	4749.574				ng/L
U233 IS	233	4749.574	**101.969**	1.39	1.4	%R

Standard Logs and Certificates of Analysis

ERA

A Waters Company

Certificate of Analysis

Lot No. S159-779

PotableWatR™ pH

Catalog No. 779
Issue Date: January 6, 2010
Revision Date: Original

Certification

Parameter	Certified Value [1] (s.u.)	Uncertainty [2]	QC PALs™ [3] (s.u.)	PT PALs™ [4] (s.u.)
pH	7.97	1.6%	7.83 - 8.11	7.77 - 8.17

Analytical Verification

	Round Robin Data [5]			NIST Traceability	
Parameter	Mean (s.u.)	Recovery (%)	n	SRM Number	Recovery (%)
pH	7.97	100%	123	SRM 187e	100%

Please see footnotes on back

INORGANIC LABS/RADCHEM LABS
DATE RECEIVED: 10/05/09
DATE EXPIRED: 02/01/13
DATE OPENED: 07/01/10 JSW
INORG: 8294 PO: PE Sample

ERA
A Waters Company

1. The **Certified Value** is the actual "made-to" concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor which is equal to the Student t factor at a 95% confidence interval at n-1 degrees of freedom. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The **QC PALs™** reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the **QC PALs™** to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the **PT PALs™** when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **Analytical Verification** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. This standard **expires 2/2013.** The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com.

Certifying Officer: Tom Widera

ERA
A Waters Company

Certificate of Analysis

Lot No. S147-779

PotableWatR™ pH

Catalog No. 779
Issue Date: January 19, 2009
Revision Date: Original

Certification

Parameter	Certified Value[1] (s.u.)	Uncertainty[2]	QC PALs™[3] (s.u.)	PT PALs™[4] (s.u.)
pH	7.52	1.0%	7.43 - 7.61	7.32 - 7.72

Analytical Verification

	Round Robin Data[5]			NIST Traceability	
Parameter	Mean (s.u.)	Recovery (%)	n	SRM Number	Recovery (%)
pH	7.52	100%	118	SRM 187e	100%

Please see footnotes on back

INORGANIC LABS/RADCHEM LABS
DATE RECEIVED: 01/19/09
DATE EXPIRED: 02/01/2012
DATE OPENED: 07/01/10 JGM
INORG: 8325 PO: [illegible] PE

ERA
A Waters Company

1. The **Certified Value** is the actual "made-to" concentration confirmed by ERA analytical verification.

2. The stated **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, times a coverage factor which is equal to the student t factor at a 95% confidence interval at n-1 degrees of freedom.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The **QC PALs™** reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the **QC PALs™** to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the **PT PALs™** when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **Analytical Verification** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. This standard **expires 2/2012.** The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or email to info@eraqc.com.

Certifying Officer: Tom Widera

BOOK / PAGE__03 0038__________ Book I.D:_10-0406-017____

Southwest Research Institute®
6220 Culebra Rd.
San Antonio, Texas 78238

Radioactive Standards Log

Standard : 038RadSOL3

Vendor(s) : NIST

Radionuclide(s) : Tc99

Source I.D. : SRM4288a
034RadSOL1

Dilution : Secondary

Procedure :

20mL of 034RadSOL1 was diluted to a final volume of 200mL with 2.5% nitric acid (Inorg #9052, exp: 11/2013).

$$\frac{20\text{mL} \times 9993.1\text{ pCi/mL}}{200\text{mL}} = 999.31\text{ pCi/mL}$$

WAN 07/07/11

Final Activity :	999.31 pCi/mL	Reference Date :	08/27/2004
Date Prepared :	07/07/11	Certification Date :	07/08/11
Prepared By :	WAN	Re-Certification Date :	07/08/12
Reviewed By :		Date:	07/11/11

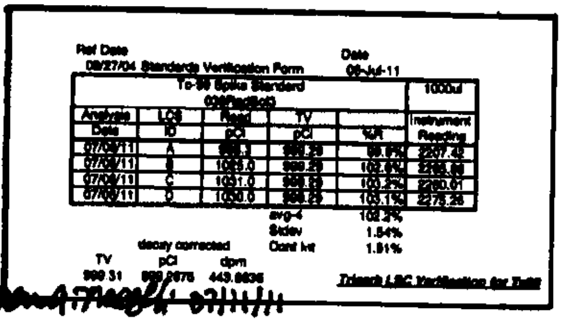
FRM-059 (Rev 1/Apr 10)

BOOK / PAGE__03 0039__________ **Book I.D:_10-0406-017____**

Southwest Research Institute®
6220 Culebra Rd.
San Antonio, Texas 78238

Radioactive Standards Log

Standard Verification(s) :



Ref Date
09/27/04 Standards Verification Form

Date
08-Jul-11

Tc-99 Spike Standard 006RadSd3					1000ul
Analysis Date	LCS ID	Read pCi	TV pCi	%R	Instrument Reading
07/08/11	A	998.1	999.29	99.9%	2207.42
07/08/11	B	1026.0	999.29	102.6%	2265.89
07/08/11	C	1031.0	999.29	103.2%	2280.01
07/08/11	D	1030.0	999.29	103.1%	2275.26

avg-4 102.2%
Stdev 1.54%
Conf lvl 1.91%

decay corrected

TV	pCi	dpm
999.31	999.2675	443.8636

Tricarb LSC Verification for Tc99

07/11/11

WAN 07/11/11

010408

for 034-Rad-Sol1

01 035

Calculations: 32.61 KBq/g -09/01/1996
3.261x10^1 KBq/g = 3.261x10^4 Bq/g x27 =
dilution = 8.80470^5 pCi/g x 1.135g
100ml
= 9993.3pCi/g 9/1/1996
= 9993.1pCi/g 8/27/2004

Final activity after dilution: 9993.1pCi/g **Reference Date:** 8/27/04
-9993pCi/g SigFig

Comments: Date Correction Decay
Tc-99 T½ = 2.111e5y
=0.5^((8/27/04-9/1/1996)/(2.111e5*365.25))
=0.999974 (Decay Correction factor)
=0.999974 x 9993.3pCi/g

Date Prepared: 8/27/04 **Expires:** 9/01/2006

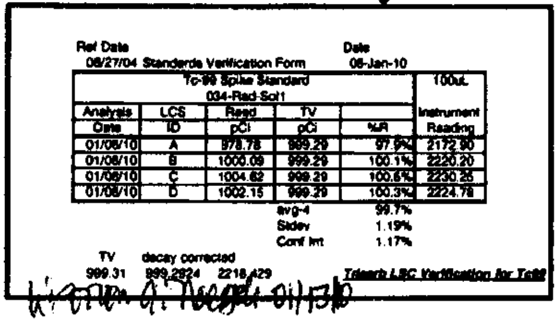
Prepared By: T.

secondary recert 038RadSol3
07/06/11

Reviewed By: **Date:** 8-27-2004

secondary recert 012RadSol3 05/20/10

06/07/11



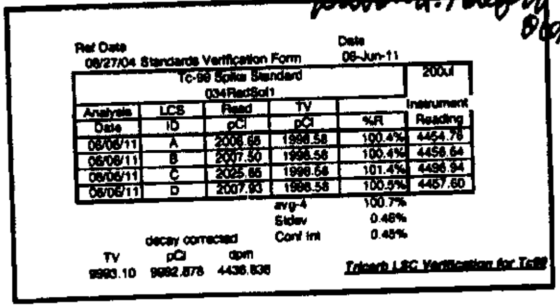
Ref Date 08/27/04 Standards Verification Form | Date 08-Jan-10

Tc-99 Spike Standard 034-Rad-Sol1					100uL
Analysis Date	LCS ID	Read pCi	TV pCi	%R	Instrument Reading
01/08/10	A	978.78	999.29	97.9%	2172.90
01/08/10	B	1000.09	999.29	100.1%	2220.20
01/08/10	C	1004.62	999.29	100.6%	2230.25
01/08/10	D	1002.15	999.29	100.3%	2224.78
			avg-4	99.7%	
			Stdev	1.19%	
			Conf Int	1.17%	

TV decay corrected
999.31 999.2824 2218.429

Tricarb LSC Verification for Tc99

01/13/10



Ref Date 08/27/04 Standards Verification Form | Date 06-Jun-11

Tc-99 Spike Standard 034RadSol1					200ul
Analysis Date	LCS ID	Read pCi	TV pCi	%R	Instrument Reading
06/06/11	A	2006.66	1998.58	100.4%	4454.76
06/06/11	B	2007.50	1998.58	100.4%	4456.64
06/06/11	C	2025.65	1998.58	101.4%	4496.94
06/06/11	D	2007.93	1998.58	100.5%	4457.60
			avg-4	100.7%	
			Stdev	0.46%	
			Conf Int	0.45%	

decay corrected
TV pCi dpm
9993.10 9992.878 4436.636

Tricarb LSC Verification for Tc99

010409

01 034

Southwest Research Institute
San Antonio, TX 78288-0510

Radioactive Standards Logbook

Solution# 034-Rad-Sol1

Radionuclide: Tc-99

Vendor name: Nist
SRM# 4288A
Primary Solution# Inorg#3082

Dilution#

~~**Porcedure:**~~
Procedure:

1) Weighed 1.135g of Tc-99 Inorg#3082 into 125ml Nalgene
2) Added ~50ml Di H_2O followed by 10mls Conc HNO_3 (*)
3) Diluted to ~~F.V~~ TOB 8/27/04, Final weigh 105.1g w/ Di H_2O.

Note: 10% HNO_3 in Di H_2O = 105g

TOB 8/27/04

010410

National Institute of Standards & Technology

Certificate

Standard Reference Material 4288A
Technetium-99 Radioactivity Standard

DATE RECEIVED: 9/25/01
DATE EXPIRED: Sept 2006
DATE OPENED: 10/17/01
INMFG: 3082 PO: Clin Supply

This Standard Reference Material (SRM) consists of radioactive technetium-99, as potassium pertechnetate, and potassium hydroxide dissolved in 5 mL of distilled water. The solution is contained in a flame-sealed NIST borosilicate-glass ampoule. The SRM is intended for the calibration of beta-particle counting instruments and for the monitoring of radiochemical procedures.

Radiological Hazard

The SRM ampoule contains technetium-99 with a total activity of approximately 160 kBq. Technetium-99 decays by beta-particle emission. None of the beta particles escape from the SRM ampoule. During the decay process no photons are emitted. Approximate unshielded dose rates at several distances (as of the reference time) are given in note [a]*. There is no detectable external radiation. The SRM should be used only by persons qualified to handle radioactive material.

Chemical Hazard

The SRM ampoule contains potassium hydroxide (KOH) with a concentration of 0.001 moles per liter of water. The solution is mildly corrosive and could represent a health hazard if it comes in contact with eyes or skin. If the ampoule is to be opened to transfer the solution, the recommended procedure is given on page 2.

Storage and Handling

The SRM should be stored and used at a temperature between 5 and 65 °C. The solution in an unopened ampoule should remain stable and homogeneous until at least September 2006.

The ampoule (or any subsequent container) should always be clearly marked as containing radioactive material. If the ampoule is transported it should be packed, marked, labeled, and shipped in accordance with the applicable national, international, and carrier regulations. The solution in the ampoule is a dangerous good (hazardous material) because of the radioactivity.

Preparation

This Standard Reference Material was prepared in the Physics Laboratory, Ionizing Radiation Division, Radioactivity Group, J.M.R. Hutchinson, Group Leader. The overall technical direction and physical measurements leading to certification were provided by L.L. Lucas of the Radioactivity Group.

The support aspects involved in the preparation, certification, and issuance of this SRM were coordinated through the Standard Reference Materials Program by N.M. Trahey.

Gaithersburg, Maryland 20899
October 1996 (Text only revised November 1997)

Thomas E. Gills, Chief
Standard Reference Materials Program

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*Notes and references are on pages 5 and 6.

Recommended Procedure for Opening the SRM Ampoule

1) If the SRM solution is to be diluted, it is recommended that the diluting solution have a composition comparable to that of the SRM solution.

2) Wear eye protection, gloves, and protective clothing and work over a tray with absorbent paper in it.

3) Shake the ampoule to wet all of the inside surface of the ampoule. Return the ampoule to the upright position.

4) Check that all of the liquid has drained out of the neck of the ampoule. If necessary, gently tap the neck to speed the process.

5) Holding the ampoule upright, score the narrowest part of the neck with a scribe or diamond pencil.

6) Lightly wet the scored line. This reduces the crack propagation velocity and makes for a cleaner break.

7) Hold the ampoule upright with a paper towel, a wiper, or a support jig. Position the scored line away from you. Using a paper towel or wiper to avoid contamination, snap off the top of the ampoule by pressing the narrowest part of the neck away from you while pulling the tip of the ampoule towards you.

8) Transfer the solution from the ampoule using a pycnometer or a pipet with dispenser handle. NEVER PIPETTE BY MOUTH.

9) Seal any unused SRM solution in a flame-sealed glass ampoule, if possible, to minimize the evaporation loss. See also reference [4]*.

*Notes and references are on pages 5 and 6.

PROPERTIES OF SRM 4288A
(Certified values are shown in bold type)

Source identification number	**NIST SRM 4288A**		
Physical Properties:			
Source description	Liquid in flame-sealed NIST borosilicate-glass ampoule		
Ampoule specifications	Body outside diameter Wall Thickness Barium content Lead-oxide content Other heavy elements	(16.5 ± 0.5) mm (0.60 ± 0.04) mm Less than 2.5% Less than 0.02% Trace quantities	
Solution density	(0.998 ± 0.002) g·mL^{-1} at 21 °C [b]*		
Solution mass	(4.998 ± 0.002) g [b]		
Chemical Properties:			
Solution composition	Chemical Formula	Concentration (mol·L^{-1})	Mass Fraction (g·g^{-1})
	H_2O	55	1.00
	KOH	0.001	0.00006
	$K^{99}TcO_4$	0.0005	0.0001
Radiological Properties:			
Radionuclide	**Technetium-99**		
Reference time	**1200 EST, 1 September 1996**		
Massic activity of the solution [c]	**32.61 kBq·g^{-1}**		
Relative expanded uncertainty (k=2)	**1.14% [d] [e]**		
Photon-emitting impurities	**None detected [f]**		
Half lives used in the decay corrections	Cobalt-60: (5.2714 ± 0.0005) a [g] Technetium-99: (2.111 ± 0.012) × 10^5 a [g]		
Measuring instrument	NIST 4πβ(LS)-γ-anticoincidence counting system using cobalt-60 as the efficiency-tracing radionuclide. The efficiency was varied electronically from 50 to 93 percent.		

SRM 4288A, page 3 of 6

*Notes and references are on pages 5 and 6.

010413

EVALUATION OF THE UNCERTAINTY OF THE MASSIC ACTIVITY [d]*

Input Quantity x_i, the source of uncertainty (and individual uncertainty components where appropriate)	Method Used To Evaluate $u(x_i)$, the standard uncertainty of x_i (A) denotes evaluation by statistical methods (B) denotes evaluation by other methods	Relative Uncertainty Of Input Quantity, $u(x_i)/x_i$, (%) [h]	Relative Sensitivity Factor, $\lvert\partial y/\partial x_i\rvert \cdot (x_i/y)$ [i]	Relative Uncertainty Of Output Quantity, $u_i(y)/y$, (%) [j]
Extrapolated massic liquid-scintillation count rate of the Tc-99 solution, corrected for background, Co-60 tracer count rate, and decay.	Standard deviation of the mean for 4 sets of repeated measurements on each of 3 samples (A)	0.10	1.0	0.10
Half life of Co-60 Half life of Tc-99	Standard uncertainty of the half life (A)	0.01 [k] 0.6 [k]	0.01 [m] 0.000005	0.0001 0.000003
Decay scheme data	Standard uncertainty of the probability of decay by beta-particle emission (A)	0.01	1.0	0.01
Extrapolation of the beta-particle-count-rate versus anticoincidence-gamma-ray-count-rate to zero anticoincidence-gamma-ray-count-rate	Estimated (B)	0.40	1.0	0.40
Calibration of the Co-60 tracer solution using the 4πβ(LS)-γ-anticoincidence counting system	Standard uncertainty of the extrapolated massic count rate (B)	0.25	1.0	0.25
Gravimetric measurements	Estimated (B)	0.20	1.0	0.20
Live time [n]	Estimated (B)	0.10	1.0	0.10
Variability between ampoules	Estimated (B)	0.20	1.0	0.20
Photon-emitting impurities	Limit of detection (B) [p]	100.	0.00004	0.004

Relative Combined Standard Uncertainty of the Output Quantity, $u_c(y)/y$, (%)	0.57
Coverage Factor, k	x2
Relative Expanded Uncertainty of the Output Quantity, U/y, (%)	1.14

*Notes and references are on pages 5 and 6.

NOTES

[a] The Sievert is the SI unit for dose equivalent. See reference [1]. One μSv is equal to 0.1 mrem.

Distance from Ampoule (cm):	1	30	100
Approximate Dose Rate (μSv/h):	<0.1		(Not detectable)

[b] The stated uncertainty is two times the standard uncertainty.

[c] Massic activity is the preferred name for the quantity activity divided by the total mass of the sample. See reference [1].

[d] The reported value, y, of massic activity (activity per unit mass) at the reference time was not measured directly but was derived from measurements and calculations of other quantities. This can be expressed as $y = f(x_1, x_2, x_3, \ldots x_n)$, where f is a mathematical function derived from the assumed model of the measurement process.

The value, x_i, used for each input quantity i has a standard uncertainty, $u(x_i)$, that generates a corresponding uncertainty in y, $u_i(y) = |\partial y/\partial x_i| \cdot u(x_i)$, called a component of combined standard uncertainty of y.

The combined standard uncertainty of y, $u_c(y)$, is the positive square root of the sum of the squares of the components of combined standard uncertainty.

The combined standard uncertainty is multiplied by a coverage factor of $k = 2$ to obtain U, the expanded uncertainty of y.

Since it can be assumed that the possible estimated values of the massic activity are approximately normally distributed with approximate standard deviation $u_c(y)$, the unknown value of the massic activity is believed to lie in the interval $y \pm U$ with a level of confidence of approximately 95 percent.

For further information on the expression of uncertainties, see references [2] and [3].

[e] The value of each standard uncertainty component, and hence the value of the expanded uncertainty itself, is a best estimate based upon all available information, but is only approximately known. That is to say, the "uncertainty of the uncertainty" is large and not well known. This is true for uncertainties evaluated by statistical methods (e.g., the relative standard deviation of the standard deviation of the mean for the liquid-scintillation counting is approximately 30%) and for uncertainties evaluated by other methods (which could easily be over estimated or under estimated by substantial amounts). The unknown value of the expanded uncertainty is believed to lie in the interval $U/2$ to $2U$ (i.e., within a factor of 2 of the estimated value).

[f] Estimated limits of detection for photon-emitting impurities are:
$2 \times 10^{-4}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 20 and 85 keV,
$2 \times 10^{-5}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 93 and 503 keV,
$1 \times 10^{-5}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 519 and 1457 keV, and
$5 \times 10^{-4}\ \gamma \cdot s^{-1} \cdot g^{-1}$ for energies between 1465 and 3250 keV.

[g] The stated uncertainty is the standard uncertainty. See reference [5].

[h] Relative standard uncertainty of the input quantity x_i.

[i] The relative change in the output quantity y divided by the relative change in the input quantity x_i. If $|\partial y/\partial x_i| \cdot (x_i/y) = 1.0$, then a 1% change in x_i results in a 1% change in y. If $|\partial y/\partial x_i| \cdot (x_i/y) = 0.05$, then a 1% change in x_i results in a 0.05% change in y.

[j] Relative component of combined standard uncertainty of output quantity y, rounded to two significant figures or less. The relative component of combined standard uncertainty of y is given by $u_i(y)/y = |\partial y/\partial x_i| \cdot u(x_i)/y = |\partial y/\partial x_i| \cdot (x_i/y) \cdot u(x_i)/x_i$. The numerical values of $u(x_i)/x_i$, $|\partial y/\partial x_i| \cdot (x_i/y)$, and $u_i(y)/y$, all dimensionless quantities, are listed in columns 3, 4, and 5, respectively. Thus, the value in column 5 is equal to the value in column 4 multiplied by the value in column 3. The input quantities are independent, or very nearly so. Hence the covariances are zero or negligible.

[k] The relative standard uncertainty of $\lambda \cdot t$ is determined by the relative standard uncertainty of λ (i.e., of the half life). The relative standard uncertainty of t is negligible.

[m] $|\partial y/\partial x_i| \cdot (x_i/y) = |\lambda \cdot t|$, multiplied by other sensitivity factors where appropriate.

[n] The live time is determined by counting the pulses from a gated crystal-controlled oscillator.

[p] The standard uncertainty for each undetected impurity that might reasonably be expected to be present is estimated to be equal to the estimated limit of detection for that impurity, i.e. $u(x_i)/x_i$ = 100%. $|\partial y/\partial x_i| \cdot (x_i/y)$ = {(response per Bq of impurity)/(response per Bq of Tc-99)}·{(Bq of impurity)/(Bq of Tc-99)}. Thus $u_i(y)/y$ is the relative change in y if the impurity were present with a massic activity equal to the estimated limit of detection.

REFERENCES

[1] International Organization for Standardization (ISO), *ISO Standards Handbook - Quantities and Units*, 1993. Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036, U.S.A. 1-212-642-4900.

[2] International Organization for Standardization (ISO), *Guide to the Expression of Uncertainty in Measurement*, 1993. Available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036, U.S.A. 1-212-642-4900. (Listed under ISO miscellaneous publications as "ISO Guide to the Expression 1993".)

[3] B. N. Taylor and C. E. Kuyatt, *Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results*, NIST Technical Note 1297, 1994. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20407, U.S.A.

[4] National Council on Radiation Protection and Measurements Report No. 58, *A Handbook of Radioactivity Measurements Procedures*, Second Edition, 1985. Available from the National Council on Radiation Protection and Measurements, 7910 Woodmont Avenue, Bethesda, MD 20814 U.S.A.

[5] Evaluated Nuclear Structure Data File (ENSDF), September 1996.

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MINERALOGY REPORT FOR FLUOR-B&W PORTSMOUTH LLC
PREPARED BY SOUTHWEST RESEARCH INSTITUTE
SWRI PROJECT #: 16526.05.00X

Mineralogy Report

Analytical Report
Southwest Research Institute

Prepared by
Mike Dammann
Radonna Spies

Prepared for
Fluor-B&W Portsmouth LLC
SOW FXP02234L04

SwRI Project #: 16526.05.00X
SwRI TO#s: 111109-3 and 111213-14

INTRODUCTION

Four soil (SO) and six bedrock (BR) samples received under SOW FXP02234L04 were selected for additional analyses defined in Fluor Change Order No. 5, 6 and 7. Upon receipt, the samples were initially logged into SwRI's Laboratory Information Management System (LIMS) and were assigned to multiple sample receipt reports (SRR). The additional tests were assigned to two task orders (TO). Table 1 contains the sample information.

Table 1 Sample Information

SwRI System ID	Customer Sample ID	Date Received	SRR No.	TO No.	Matrix
473043	WDSB21-07-19.5	08/12/2011	45412	111213-14	SO
473757	WDSB02-07-24.5	08/25/2011	45511	111109-3	SO
474302	WDSB29-07-4.5	08/31/2011	45562	111109-3	SO
474340	WDSB31-07-2.0	09/01/2011	45570	111213-14	SO
475582	WDMW03B-07-BE10	09/13/2011	45629	111109-3	BR
475583	WDMW03B-07-CU10	09/13/2011	45629	111109-3	BR
475584	WDMW03B-07-SU10	09/13/2011	45629	111109-3	BR
475304	WDMW04B-07-BE10	09/20/2011	45690	111109-3	BR
475305	WDMW04B-07-CU10	09/20/2011	45690	111109-3	BR
475306	WDMW04B-07-SU10	09/20/2011	45690	111109-3	BR

EXPERIMENTAL

Whole Rock including LOI Majors

The samples were readied for analysis using three techniques. The first technique was a closed vessel digestion using concentrated nitric, hydrochloric and hydrofluoric acids (Prep Method "Rock"). Boron was reported from this digestion. The second technique was a lithium metaborate/tetraborate fusion (Prep Method "80/20 Fusion"). Aluminum, barium, calcium, chromium, iron, magnesium, manganese, silicon, titanium, vanadium (for samples on SwRI Task Order 111213-14), and zirconium were reported from this fusion technique. Some of the resulting fusion solutions contained residue. The residues were separated, dried, and fused with a mixture of lithium metaborate/tetraborate. Both preps were analyzed. Zirconium was detected in the initial 80/20 Fusion preps and in the 80/20 Fusion residue preps for one or more of the samples. Therefore, those reported results are the combinations (or sums) of the results obtained from both preps, and are identified as "Combined" in the Prep Method and Date Analyzed columns of the Sample Analysis Data Sheets. The third technique (Prep Method "Teflon") was performed using concentrated nitric, perchloric, hydrofluoric and hydrochloric acids in an open vessel. The resulting digestates contained residue. The residues were separated, dried, and fused with a lithium metaborate/tetraborate mixture. Both preps were analyzed. The remaining metals (plus vanadium for samples on SwRI Task Order 111109-3) were reported from either the Teflon digestion only or the combination of the two. Lanthanum, molybdenum, nickel, phosphorus, potassium, sodium, strontium, vanadium, yttrium, and zinc were detected in both the Teflon digestates and the Teflon residue fusions for one or more of the samples. Therefore, those reported results are the combinations (or sums) of the results obtained from both preps, and are identified as “Combined” in the Prep Method and Date Analyzed columns of the Sample Analysis Data Sheets which are located in Appendix A.

TIC/TOC (SW 846 9060M)

The samples were analyzed for total organic carbon (TOC) and total inorganic carbon (TIC) using a carbon analyzer following a modified SW 846 Method 9060. The analyzer combusts the sample in an oxygen atmosphere and converts the carbon to CO2 which is detected by non-dispersive infrared (NDIR). Initially, the sample is for total carbon (TC), which includes both TIC and TOC. Another fraction of the sample is treated with sulfurous acid to remove the TIC present and combusted to determine the amount of TOC. The amount of TIC is then determined by subtracting the TOC result from the TC result. Results can be found on the Sample Analysis Data Sheets in Appendix B.

Bulk Density and Particle Density

The bulk density and particle density were only determined on the four soil samples (SO). The Fluor project manager concurred that the bulk density and the particle density of the bedrocks could be calculated from the core data obtained during the sampling activities. The bulk density of the samples was determined from a direct mass per volume ratio using MOSA Chapter 13 as guidance, and the particle density was determined using the Pycnometer method as described in Chapter 14. Results can be found on the Sample Analysis Data Sheets in Appendix B.

Surface area

The surface area was determined using an automated analyzer utilizing the volumetric nitrogen sorption technique (BET) described in MOSA Chapter 16. Two of the bedrock sample appeared to be oil shale and had to be heated to 600 ^{o}C for several hours prior to the surface area analysis. Results can be found on the Sample Analysis Data Sheets in Appendix B.

Particle size

Particle size analysis was only conducted on the four soil samples (SO). The Fluor project manager concurred that particle size was not applicable to the bedrocks since they were received as core samples. Particle size analysis was performed using a laser diffraction particle size analyzer according to ASTM B822 *Standard Test Method for Particle Size Distribution of Metal Powders and Related Compounds by Light Scattering*. Due to the maximum particle size limitation of the instrument, the samples were sieved prior to the instrumental analysis. The sieves used were: 3/8 in, No. 4, No. 10 and No. 20 which correspond to 9525, 4750, 2000 and 850 micron. The fraction passing the No. 20 sieve was then analyzed by laser diffraction. The results from the particle size analyzer were corrected for the fraction passing the No. 20 and combined with the weight retained on each sieve to construct the particle size distribution graphs located in Appendix C.

Clay Mineralogy

Clay minerals were determined via X-ray diffraction (XRD) according to *Methods of Soil Analysis* (MOSA) Chapter 12. The samples were pretreated according to Chapter 5 to remove soluble salts, carbonates, organic matter, and free iron oxides prior to particle size separation. The clay fraction (<2 μm) was separated using the centrifugation. The clay fractions were exchange-saturated with magnesium (Mg) and potassium (K) prior to preparing glass plate oriented aggregate mounts for XRD analysis. To further aid in the identifications, the Mg-saturated clays were solvated with glycerol and the K-saturated mounts were heated to 550 ^{o}C for 2 hours then submitted for additional XRD analysis. In the Mg-saturated mounts, most of the samples showed peaks at d-spacings of approximately 14, 10 and 7.2 angstroms. These peaks correspond to Smectite, Vermiculite, Chlorite, Mica, Halloysite, Metahalloysite and Serpentine. Using the XRD criteria found in Table 12-1 and Figure 12-5 in MOSA Chapter 12, the process of elimination based on the d-spacing in the Mg-saturated mount in conjunction to the presence/absence or shifting of the peak in the Mg-saturated glycerol solvated, K-saturated, and heated K-saturated mounts was used to identify the clays present.

The peak at a d-spacing of 14 angstroms in the Mg saturated mount could be caused by Chlorite, Vermiculite, or Smectite. If the peak is due to Smectite, the peak shifts to 18 angstroms in the glycerol solvated Mg-saturated mount and 12 angstroms in the K-saturated mount. If the peak is due to Chlorite, it will neither shift in the Mg and K-saturated mounts. Lastly, the Vermiculite will not shift in the Mg-saturated mount but will shift to 10 angstroms in the K-saturated mount. The peak at a d-spacing of 10 angstroms in the Mg saturated mount could be caused by Halloysite or Mica (Illite). Halloysite is eliminated from consideration when the peak in the glycerol solvated Mg-saturated sample does not shift and the peak is still present in the K-saturated, 550^{o} C heated sample, indicative of Mica (Illite). The third diagnostic peak in the 7.1-7.5 angstrom region in the Mg-saturated mount could be caused by Serpentine, Kaolinite, Metahalloysite, or a second order peak from Chlorite. Metahalloysite is eliminated by the close agreement of the d-spacing to Kaolinite at 7.15 angstroms not closer to 7.5 angstroms for Metahalloysite in the Mg-saturated, glycerol solvated Mg and K-saturated sample mounts. Serpentine and Chlorite are eliminated from consideration by the fact that the peak disappears in the potassium saturated, 550^{o} C heated sample, indicative of Kaolinite not Serpentine or second order Chlorite.

Relative abundances of the identified clay minerals were calculated using the ratio of their respective peak heights from the Mg-saturated oriented mounts. Table 2 contains the approximate relative composition of each clay mineral. The individual oriented mount XRD patterns can be found in Appendix D.

Petrology (XRD/XRF/Microscopy)

To aid in the petrographic description of the samples, several techniques were used including: x-ray diffraction (XRD), energy dispersive spectrometry x-ray fluorescence (EDS-XRF) using a scanning electron microscope (SEM) and optical microscopy.

The bulk elemental composition of the samples was determined by EDS-XRF. The analysis limited to the first 10 to 100 micron depth of the material. The XRF only quantitates elements of atomic numbers greater than 11 (sodium and higher) and is normalized to 100% on a weight basis. The energy dispersive spectra with the quantitation table for each sample are located in Appendix E.

Bulk minerals and silt fraction minerals (5-200 μm) were determined via random mount x-ray diffraction (XRD). A small amount of each sample was carefully ground to a nominal 100-mesh particle size and analyzed utilizing a random mount orientation. The XRD spectrum obtained for each sample and XRD library pattern matches for the material are presented in Appendices F and G for the bulk sample and silt fractions, respectively. Table 2 contains approximate mineral composition of each fraction.

A petrographic microscope was used for the examination of the minerals present in the sand and silt fractions of each sample using MOSA Chapter 8 as guidance. The sand fraction consisted of particles greater than 200 mesh (74 micron) and the silt fraction consisted of the particles from 5 to 74 micron. Although the sample was fractionated into the sand and the silt, each fraction contained agglomerations of smaller particles. The grains were mounted onto glass slides using Canada Balsam and examined under crossed polarized light. A gypsum compensator plate was also inserted to aid in the identification. See Appendix H for the photomicrographs of the samples and Table 3 for a table of the primary minerals identified.

Table 2 Approximate Composition of Bulk, Silt and Clay Fractions

SwRI ID	Customer ID	Approximate Composition		
		Bulk	Silt	Clay
473757	WDSB02-07-24.5	93% Quartz 5% Siderite (Calcite) 2% Feldspar	90% Quartz 4% Feldspar 2% Mica 2% Siderite (Calcite) 2% Pyrope	68% Mica 27% Metahalloysite 3% Chlorite 2% Vermiculite
474302	WDSB29-07-4.5	87% Quartz 5% Mica 4% Feldspar 2% Zeolite 2% Smectite	89% Quartz 5% Mica 4% Feldspar 2% Pyrope (Garnet) trace of Siderite (Calcite)	64% Mica 36% Metahalloysite
475304	WDMW04B-07-BE10	94% Quartz 4% Feldspar 2% Dolomite mineral	93% Quartz 7% Feldspar trace Pyrope	53% Metahalloysite 45% Mica 2% Vermiculite
475305	WDMW04B-07-CU10	82% Quartz 10% Siderite (Calcite) 4% Mica 2% Zeolite 2% Kaolinite	94% Quartz 2% Feldspar 2% Pyrope 2% Siderite (Calcite) trace Mica	58% Mica 38% Metahalloysite 3% Chlorite 1% Vermiculite
475306	WDMW04B-07-SU10	79% Quartz 10% Feldspar 7% Mica 2% Pyrite 2% Chlorite	91% Quartz 5% Mica 4% Feldspar trace Pyrope	88% Mica 11% Metahalloysite 2% Vermiculite
475582	WDMW03B-07-BE10	94% Quartz 4% Feldspar 2% Dolomite mineral	96% Quartz 4% Feldspar trace Diopside	54% Mica 31% Metahalloysite 12% Serpentine
475583	WDMW03B-07-CU10	94% Quartz 4% Mica 2% Feldspar 2% Chlorite	92% Quartz 4% Feldspar 2% Mica 2% Serpentine trace Pyrope and Siderite	59% Mica 39% Metahalloysite 2% Vermiculite
475584	WDMW03B-07-SU10	92% Quartz 4% Mica 2% Feldspar 2% Pyrite	86% Quartz 5% Mica 5% Pyrope 4% Feldspar trace Kaliophilite	89% Mica 11% Metahalloysite
473043	WDSB21-07-19.5	93% Quartz 5% Mica 2% Feldspar	94% Quartz 2% Mica 2% Feldspar 2% Pyrope	96% Mica 4% Metahalloysite
474340	WDSB31-07-2.0	94% Quartz 4% Feldspar 2% Mica	92% Quartz 4% Feldspar 2% Mica 2% Pyrope	57% Mica 36% Metahalloysite 7% Vermiculite

Table 3 Petrographic Description from Microscopic Evaluation

Customer ID	Sand Fraction	Silt Fraction
WDSB02-07-24.5	Predominately quartz with 5-10% of a carbonate mineral (high birefringence). Agglomeration of irregular shaped quartz. Brown material coating agglomerates appear to be organic matter, however does not appear to be the "cement" in the agglomerated quartz.	Primarily quartz. Small amount of carbonate mineral (high birefringence). Also, some organic material coating particles and small agglomerates.
WDSB29-07-4.5	Primarily quartz with a small amount of garnet (pyrope)	Primarily small or irregular shaped quartz with a small amount of garnet (pyrope)
WDMW04B-07-BE10	Primarily large particle of smoother quartz, small amount of carbonate mineral.	Primarily large particle of smoother quartz with carbonate mineral.
WDMW04B-07-CU10	Mainly quartz. Some larger agglomerates made up of fine quartz particles. Organic materials coating some particles and agglomerates. Organic material also appears to be the binder in the agglomerates. Small amount of pyrope (isotropic) and carbonate mineral.	Primarily quartz. Small amount of pyrope (isotropic).
WDMW04B-07-SU10	Mainly Quartz. Large agglomerations of fine particles cemented with organic material.	Again, agglomeration of fine particles cemented with organic material. Bulk of particles is quartz but other material appears to be micas.
WDMW03B-07-BE10	Mainly quartz. Moderate amount of large flat carbonate minerals.	Primarily quartz with a small amount of a carbonate mineral.
WDMW03B-07-CU10	Mainly fine quartz particles with large agglomerates covered in organic material. Organic material appears to "glue" agglomerates	Predominately quartz with some agglomerates with an organic binder material
WDMW03B-07-SU10	Irregular shaped quartz with a significant amount of organic material binding agglomerates together.	Irregular shaped quartz. Also, a significant amount of agglomerates "cemented" by organic material.
WDSB31-07-2	Irregular shaped quartz. Flat plates of agglomerated quartz.	Irregular shaped quartz. Moderate amount of mica.
WDSB21-07-19.5	Mainly irregular shaped quartz and agglomerates of quartz particles.	Primarily quartz.

Appendix A

Metals Results

Client: Fluor - B&W Portsmouth LLC
SDG: 473757
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 111109-3, 111213-14

METALS ANALYSIS

The samples were readied for analysis using three techniques. The first technique was a closed vessel digestion using concentrated nitric, hydrochloric and hydrofluoric acids (Prep Method "Rock"). Boron was reported from this digestion.

The second technique was a lithium metaborate/tetraborate fusion (Prep Method "80/20 Fusion"). Aluminum, barium, calcium, chromium, iron, magnesium, manganese, silicon, titanium, vanadium (for samples on SwRI Task Order 111213-14), and zirconium were reported from this fusion technique. Some of the resulting fusion solutions contained residue. The residues were separated, dried, and fused with a mixture of lithium metaborate/tetraborate. Both preps were analyzed. Zirconium was detected in the initial 80/20 Fusion preps and in the 80/20 Fusion residue preps for one or more of the samples. Therefore, those reported results are the combinations (or sums) of the results obtained from both preps, and are identified as "Combined" in the Prep Method and Date Analyzed columns of the Sample Analysis Data Sheets.

The third technique (Prep Method "Teflon") was performed using concentrated nitric, perchloric, hydrofluoric and hydrochloric acids in an open vessel. The resulting digestates contained residue. The residues were separated, dried, and fused with a lithium metaborate/tetraborate mixture. Both preps were analyzed. The remaining metals (plus vanadium for samples on SwRI Task Order 111109-3) were reported from either the Teflon digestion only or the combination of the two. Lanthanum, molybdenum, nickel, phosphorus, potassium, sodium, strontium, vanadium, yttrium, and zinc were detected in both the Teflon digestates and the Teflon residue fusions for one or more of the samples. Therefore, those reported results are the combinations (or sums) of the results obtained from both preps, and are identified as "Combined" in the Prep Method and Date Analyzed columns of the Sample Analysis Data Sheets.

All analytes were determined by ICP SW-846 Method 6010B. Also, any analyte sample concentration greater than 0.05% was converted and reported as an oxide. Loss on ignition (LOI) at 1000°C was determined. The reported "SUM" was calculated by adding any oxide concentrations and the LOI.

All instrument QC criteria were met. The percent recoveries were within 90-110% for the initial and continuing calibration verifications. No analytes were detected above SwRI's reporting limits in the initial and continuing calibration blanks. The CRDL standard recoveries for the spiked analytes were within 50-150%. The percent recoveries for the spiked analytes in the interference check samples ICSAB were within 80-120%.

Description of "Qualifier": "U" indicates that an analyte was not detected above SwRI's reporting limit. "N" indicates that the matrix spike and/or matrix spike duplicate recovery was not within 75-125%.

No analytes were detected in the Prep Blanks above SwRI's reporting limits. Two solid laboratory control samples (NIST SRM 278 Obsidian Rock and NIST SRM 688 Basalt Rock) were utilized

Client: Fluor - B&W Portsmouth LLC
SDG: 473757
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 111109-3, 111213-14

during the sample preparation techniques. The recoveries were within 80-120% for analytes with certified values with the exceptions of potassium (for Lab Control 2 – SRM 278 and Lab Control 8 – SRM 278), and lead (for Lab Control 3 – SRM 278). Please note that the lead SRM certified value is not greater than 10 times the reporting limit for Pb in the associated prep. For potassium, both SRM 278 Lab Controls were prepared with Teflon residue fusion batches. Since the residues are fused in their entirety, none remained to re-prepare. Aqueous laboratory control samples (Sample IDs: Lab Control, Lab Control 2, Lab Control 3) were also digested during the "Teflon" Prep Methods. The recoveries were within 80-120% for the spiked analytes.

SwRI system id 475584 was QC'd. The duplicate RPDs were less than 20%. Due to the nature of the sample preparation techniques utilized, matrix spikes were prepared during the "Teflon" Prep Methods only. The results are "N" flagged for arsenic, beryllium, cadmium, lead, selenium, silver, sodium, and zinc due to the MS and/or MSD recoveries not being within 75-125%. The MS/MSD recoveries were not within 75-125% for potassium and vanadium. However, the original sample results were greater than 4 times the spike added amounts, and are therefore not "N" flagged for K and V. Analytical spikes were performed and reported. The recoveries were within 75-125% for the spiked analytes.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."

10/2/12

Group Leader **Date**

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDSB02-07-24.5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 08/25/11

Task Order #: 111109-3

SRR #: 45511

Lab System ID: 473757

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Oxide	Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	37200		471	Al2O	7.025%	80/20 Fusion	ICP 6010B	01/17/12
Antimony	7.33	U	7.33			Teflon	ICP 6010B	11/30/11
Arsenic	14.7	N	0.489			Teflon	ICP 6010B	11/30/11
Barium	293		47.1	BaO	0.0327%	80/20 Fusion	ICP 6010B	01/17/12
Beryllium	1.08	N	0.244			Teflon	ICP 6010B	11/30/11
Bismuth	9.77	U	9.77			Teflon	ICP 6010B	11/30/11
Boron	307	U	307			Rock	ICP 6010B	12/01/11
Cadmium	1.54	N	0.244			Teflon	ICP 6010B	11/30/11
Calcium	5960		471	CaO	0.835%	80/20 Fusion	ICP 6010B	01/17/12
Chromium	54.3		36.5			80/20 Fusion	ICP 6010B	12/02/11
Cobalt	15.7		2.44			Teflon	ICP 6010B	11/30/11
Copper	16.8		2.44			Teflon	ICP 6010B	11/30/11
Iron	89200		471	Fe2O3	12.749%	80/20 Fusion	ICP 6010B	01/17/12
Lanthanum	21.9		2.69			Combined	ICP 6010B	Combined
Lead	19.8	N	0.489			Teflon	ICP 6010B	11/30/11
Lithium	24.5		0.489			Teflon	ICP 6010B	11/30/11
Magnesium	3130		471	MgO	0.520%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	1530		47.1	MnO	0.198%	80/20 Fusion	ICP 6010B	01/17/12
Molybdenum	7.96		0.244			Teflon	ICP 6010B	11/30/11
Nickel	40.5		2.69			Combined	ICP 6010B	Combined
Palladium	12.2	U	12.2			Teflon	ICP 6010B	11/30/11
Phosphorus	237		9.77	P2O5	0.0544%	Teflon	ICP 6010B	11/30/11
Potassium	11700		440	K2O	1.409%	Combined	ICP 6010B	Combined
Selenium	2.02	N	0.489			Teflon	ICP 6010B	11/30/11
Silicon	311000		1890	SiO2	66.515%	80/20 Fusion	ICP 6010B	01/17/12
Silver	0.489	UN	0.489			Teflon	ICP 6010B	11/30/11
Sodium	1870	N	366	Na2O	0.252%	Combined	ICP 6010B	Combined
Strontium	40.0		2.69			Combined	ICP 6010B	Combined
Sulfur	3080		12.2			Teflon	ICP 6010B	11/30/11
Thallium	12.2	U	12.2			Teflon	ICP 6010B	11/30/11
Thorium	24.4	U	24.4			Teflon	ICP 6010B	11/30/11
Tin	4.89	U	4.89			Teflon	ICP 6010B	11/30/11
Titanium	3250		47.1	TiO2	0.541%	80/20 Fusion	ICP 6010B	01/17/12
Tungsten	1.59		0.489			Teflon	ICP 6010B	11/30/11
Uranium	48.9	U	48.9			Teflon	ICP 6010B	11/30/11
Vanadium	96.8		7.33	V2O5	0.0173%	Combined	ICP 6010B	Combined
Yttrium	20.0		2.69			Combined	ICP 6010B	Combined
Zinc	110	N	0.489			Teflon	ICP 6010B	11/30/11
Zirconium	285		36.5	ZrO2	0.0385%	80/20 Fusion	ICP 6010B	12/02/11
LOI @ 1000^{o}C	10.08%			SUM	100.27%			

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

Sample ID
WDSB29-07-4.5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 08/31/11

Task Order #: 111109-3

SRR #: 45562

Lab System ID: 474302

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Oxide	Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	85200		4510	Al2O3	16.102%	80/20 Fusion	ICP 6010B	02/09/12
Antimony	7.43	U	7.43			Teflon	ICP 6010B	11/30/11
Arsenic	23.6	N	0.495			Teflon	ICP 6010B	11/30/11
Barium	553		45.1	BaO	0.0618%	80/20 Fusion	ICP 6010B	02/09/12
Beryllium	2.32	N	0.248			Teflon	ICP 6010B	11/30/11
Bismuth	9.91	U	9.91			Teflon	ICP 6010B	11/30/11
Boron	394	U	394			Rock	ICP 6010B	12/01/11
Cadmium	0.248	UN	0.248			Teflon	ICP 6010B	11/30/11
Calcium	1160		451	CaO	0.162%	80/20 Fusion	ICP 6010B	02/09/12
Chromium	86.1		48.2			80/20 Fusion	ICP 6010B	12/02/11
Cobalt	17.0		2.48			Teflon	ICP 6010B	11/30/11
Copper	24.4		2.48			Teflon	ICP 6010B	11/30/11
Iron	39100		451	Fe2O3	5.593%	80/20 Fusion	ICP 6010B	02/09/12
Lanthanum	32.6		0.248			Teflon	ICP 6010B	11/30/11
Lead	17.7	N	0.495			Teflon	ICP 6010B	11/30/11
Lithium	124		0.495			Teflon	ICP 6010B	11/30/11
Magnesium	5370		451	MgO	0.891%	80/20 Fusion	ICP 6010B	02/09/12
Manganese	293		45.1	MnO	0.0378%	80/20 Fusion	ICP 6010B	02/09/12
Molybdenum	0.248	U	0.248			Teflon	ICP 6010B	11/30/11
Nickel	44.9		2.72			Combined	ICP 6010B	Combined
Palladium	12.4	U	12.4			Teflon	ICP 6010B	11/30/11
Phosphorus	233		9.91	P2O5	0.0535%	Teflon	ICP 6010B	11/30/11
Potassium	27000		446	K2O	3.250%	Combined	ICP 6010B	Combined
Selenium	0.978	N	0.495			Teflon	ICP 6010B	11/30/11
Silicon	256000		1810	SiO2	54.778%	80/20 Fusion	ICP 6010B	02/09/12
Silver	0.495	UN	0.495			Teflon	ICP 6010B	11/30/11
Sodium	2700	N	372	Na2O	0.364%	Combined	ICP 6010B	Combined
Strontium	79.2		2.72			Combined	ICP 6010B	Combined
Sulfur	47.6		12.4			Teflon	ICP 6010B	11/30/11
Thallium	12.4	U	12.4			Teflon	ICP 6010B	11/30/11
Thorium	24.8	U	24.8			Teflon	ICP 6010B	11/30/11
Tin	4.95	U	4.95			Teflon	ICP 6010B	11/30/11
Titanium	5100		45.1	TiO2	0.850%	80/20 Fusion	ICP 6010B	02/09/12
Tungsten	0.790		0.495			Teflon	ICP 6010B	11/30/11
Uranium	49.5	U	49.5			Teflon	ICP 6010B	11/30/11
Vanadium	166		7.43	V2O5	0.0297%	Combined	ICP 6010B	Combined
Yttrium	26.6		2.72			Combined	ICP 6010B	Combined
Zinc	73.4	N	0.495			Teflon	ICP 6010B	11/30/11
Zirconium	175		45.1	ZrO2	0.0236%	80/20 Fusion	ICP 6010B	02/09/12
LOI @ 1000^{o}C	18.47%			SUM	100.67%			

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW04B-07-BE10

Lab Name: Southwest Research Institute	Client: Fluor-B&W Portsmouth LLC
Lab Code: SwRI	Project No.: 16526.05.00X
Matrix: BR	Date Received: 09/20/11
Task Order #: 111109-3	SRR #: 45690
Lab System ID: 475304	

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Oxide	Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	20500		497	Al2O	3.864%	80/20 Fusion	ICP 6010B	11/30/11
Antimony	6.67	U	6.67			Teflon	ICP 6010B	01/17/12
Arsenic	9.59	N	0.444			Teflon	ICP 6010B	11/30/11
Barium	149		49.7	BaO	0.0167%	80/20 Fusion	ICP 6010B	12/01/11
Beryllium	0.370	N	0.222			Teflon	ICP 6010B	01/17/12
Bismuth	8.89	U	8.89			Teflon	ICP 6010B	11/30/11
Boron	334	U	334			Rock	ICP 6010B	11/30/11
Cadmium	0.222	UN	0.222			Teflon	ICP 6010B	01/17/12
Calcium	9400		497	CaO	1.315%	80/20 Fusion	ICP 6010B	11/30/11
Chromium	48.3	U	48.3			80/20 Fusion	ICP 6010B	11/30/11
Cobalt	4.16		2.22			Teflon	ICP 6010B	12/02/11
Copper	5.18		2.22			Teflon	ICP 6010B	11/30/11
Iron	12100		497	Fe2O3	1.731%	80/20 Fusion	ICP 6010B	01/17/12
Lanthanum	16.2		0.222			Teflon	ICP 6010B	11/30/11
Lead	8.59	N	0.444			Teflon	ICP 6010B	11/30/11
Lithium	8.16		0.444			Teflon	ICP 6010B	11/30/11
Magnesium	3060		497	MgO	0.507%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	208		49.7	MnO	0.0269%	80/20 Fusion	ICP 6010B	01/17/12
Molybdenum	0.222	U	0.222			Teflon	ICP 6010B	11/30/11
Nickel	12.0		2.44			Combined	ICP 6010B	Combined
Palladium	11.1	U	11.1			Teflon	ICP 6010B	11/30/11
Phosphorus	135		8.89	P2O5	0.0310%	Teflon	ICP 6010B	11/30/11
Potassium	8070		400	K2O	0.972%	Combined	ICP 6010B	Combined
Selenium	0.603	N	0.444			Teflon	ICP 6010B	11/30/11
Silicon	377000		1990	SiO2	80.738%	80/20 Fusion	ICP 6010B	11/30/11
Silver	0.444	UN	0.444			Teflon	ICP 6010B	11/30/11
Sodium	4400	N	333	Na2O	0.593%	Combined	ICP 6010B	Combined
Strontium	40.0		2.44			Combined	ICP 6010B	Combined
Sulfur	4390		11.1			Teflon	ICP 6010B	11/30/11
Thallium	11.1	U	11.1			Teflon	ICP 6010B	11/30/11
Thorium	22.2	U	22.2			Teflon	ICP 6010B	11/30/11
Tin	4.44	U	4.44			Teflon	ICP 6010B	01/17/12
Titanium	2530		49.7	TiO2	0.423%	80/20 Fusion	ICP 6010B	11/30/11
Tungsten	0.580		0.444			Teflon	ICP 6010B	11/30/11
Uranium	44.4	U	44.4			Teflon	ICP 6010B	11/30/11
Vanadium	25.3		2.22	V2O5	0.0045%	Teflon	ICP 6010B	11/30/11
Yttrium	16.0		2.44			Combined	ICP 6010B	Combined
Zinc	8.65	N	0.444			Teflon	ICP 6010B	11/30/11
Zirconium	396		48.3	ZrO2	0.0535%	80/20 Fusion	ICP 6010B	12/02/11
LOI @ 1000^{o}C	9.72%			SUM	100.00%			

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW04B-07-CU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/20/11

Task Order #: 111109-3

SRR #: 45690

Lab System ID: 475305

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Oxide	Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	95900		486	Al2O	18.127%	80/20 Fusion	ICP 6010B	01/17/12
Antimony	6.75	U	6.75			Teflon	ICP 6010B	11/30/11
Arsenic	20.8	N	0.45			Teflon	ICP 6010B	11/30/11
Barium	633		48.6	BaO	0.0707%	80/20 Fusion	ICP 6010B	01/17/12
Beryllium	2.66	N	0.225			Teflon	ICP 6010B	11/30/11
Bismuth	9.00	U	9			Teflon	ICP 6010B	11/30/11
Boron	391	U	391			Rock	ICP 6010B	12/01/11
Cadmium	0.225	UN	0.225			Teflon	ICP 6010B	11/30/11
Calcium	2740		486	CaO	0.384%	80/20 Fusion	ICP 6010B	01/17/12
Chromium	98.3		41.7			80/20 Fusion	ICP 6010B	12/02/11
Cobalt	16.6		2.25			Teflon	ICP 6010B	11/30/11
Copper	28.4		2.25			Teflon	ICP 6010B	11/30/11
Iron	43600		486	Fe2O3	6.236%	80/20 Fusion	ICP 6010B	01/17/12
Lanthanum	40.1		2.48			Combined	ICP 6010B	Combined
Lead	20.2	N	0.45			Teflon	ICP 6010B	11/30/11
Lithium	142		0.45			Teflon	ICP 6010B	11/30/11
Magnesium	8650		486	MgO	1.434%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	521		48.6	MnO	0.0673%	80/20 Fusion	ICP 6010B	01/17/12
Molybdenum	0.225	U	0.225			Teflon	ICP 6010B	11/30/11
Nickel	46.5		2.48			Combined	ICP 6010B	Combined
Palladium	11.3	U	11.3			Teflon	ICP 6010B	11/30/11
Phosphorus	1100		99.0	P2O5	0.251%	Combined	ICP 6010B	Combined
Potassium	29800		405	K2O	3.594%	Combined	ICP 6010B	Combined
Selenium	0.611	N	0.45			Teflon	ICP 6010B	11/30/11
Silicon	278000		1950	SiO2	59.468%	80/20 Fusion	ICP 6010B	01/17/12
Silver	0.450	UN	0.45			Teflon	ICP 6010B	11/30/11
Sodium	3570	N	338	Na2O	0.481%	Combined	ICP 6010B	Combined
Strontium	128		2.48			Combined	ICP 6010B	Combined
Sulfur	2630		11.3			Teflon	ICP 6010B	11/30/11
Thallium	11.3	U	11.3			Teflon	ICP 6010B	11/30/11
Thorium	22.5	U	22.5			Teflon	ICP 6010B	11/30/11
Tin	4.69		4.5			Teflon	ICP 6010B	11/30/11
Titanium	5830		48.6	TiO2	0.972%	80/20 Fusion	ICP 6010B	01/17/12
Tungsten	1.81		0.45			Teflon	ICP 6010B	11/30/11
Uranium	45.0	U	45			Teflon	ICP 6010B	11/30/11
Vanadium	163		6.75	V2O5	0.0290%	Combined	ICP 6010B	Combined
Yttrium	38.6		2.48			Combined	ICP 6010B	Combined
Zinc	73.4	N	0.45			Teflon	ICP 6010B	11/30/11
Zirconium	181		41.7	ZrO2	0.0244%	80/20 Fusion	ICP 6010B	12/02/11
LOI @ 1000°C	10.50%			SUM	101.64%			

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW04B-07-SU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/20/11

Task Order #: 111109-3

SRR #: 45690

Lab System ID: 475306

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Oxide	Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	83400		468	Al2O	15.759%	80/20 Fusion	ICP 6010B	01/17/12
Antimony	8.38		7.19			Teflon	ICP 6010B	11/30/11
Arsenic	35.8	N	0.479			Teflon	ICP 6010B	11/30/11
Barium	481		46.8	BaO	0.0537%	80/20 Fusion	ICP 6010B	01/17/12
Beryllium	2.71	N	0.24			Teflon	ICP 6010B	11/30/11
Bismuth	9.58	U	9.58			Teflon	ICP 6010B	11/30/11
Boron	322	U	322			Rock	ICP 6010B	12/01/11
Cadmium	7.01	N	0.24			Teflon	ICP 6010B	11/30/11
Calcium	2330		468	CaO	0.326%	80/20 Fusion	ICP 6010B	01/17/12
Chromium	126		47.4			80/20 Fusion	ICP 6010B	12/02/11
Cobalt	14.8		2.4			Teflon	ICP 6010B	11/30/11
Copper	97.4		2.4			Teflon	ICP 6010B	11/30/11
Iron	43700		468	Fe2O3	6.242%	80/20 Fusion	ICP 6010B	01/17/12
Lanthanum	25.7		2.63			Combined	ICP 6010B	Combined
Lead	33.1	N	0.479			Teflon	ICP 6010B	11/30/11
Lithium	45.6		0.479			Teflon	ICP 6010B	11/30/11
Magnesium	9270		468	MgO	1.537%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	178		46.8	MnO	0.0229%	80/20 Fusion	ICP 6010B	01/17/12
Molybdenum	158		0.24			Teflon	ICP 6010B	11/30/11
Nickel	174		2.63			Combined	ICP 6010B	Combined
Palladium	12.0	U	12			Teflon	ICP 6010B	11/30/11
Phosphorus	286		9.58	P2O5	0.0656%	Teflon	ICP 6010B	11/30/11
Potassium	32000		431	K2O	3.858%	Combined	ICP 6010B	Combined
Selenium	9.51	N	0.479			Teflon	ICP 6010B	11/30/11
Silicon	237000		1870	SiO2	50.724%	80/20 Fusion	ICP 6010B	01/17/12
Silver	1.18	N	0.479			Teflon	ICP 6010B	11/30/11
Sodium	2950	N	359	Na2O	0.398%	Combined	ICP 6010B	Combined
Strontium	124		2.63			Combined	ICP 6010B	Combined
Sulfur	22000		12			Teflon	ICP 6010B	11/30/11
Thallium	12.0	U	12			Teflon	ICP 6010B	11/30/11
Thorium	24.0	U	24			Teflon	ICP 6010B	11/30/11
Tin	4.79	U	4.79			Teflon	ICP 6010B	11/30/11
Titanium	4120		46.8	TiO2	0.687%	80/20 Fusion	ICP 6010B	01/17/12
Tungsten	5.23		0.479			Teflon	ICP 6010B	11/30/11
Uranium	47.9	U	47.9			Teflon	ICP 6010B	11/30/11
Vanadium	746		7.19	V2O5	0.133%	Combined	ICP 6010B	Combined
Yttrium	25.0		2.63			Combined	ICP 6010B	Combined
Zinc	417	N	0.24			Combined	ICP 6010B	Combined
Zirconium	137		47.4	ZrO2	0.0185%	80/20 Fusion	ICP 6010B	12/02/11
LOI @ 1000^{o}C	20.79%			SUM	100.62%			

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW03B-07-BE10

Lab Name: Southwest Research Institute	Client: Fluor-B&W Portsmouth LLC
Lab Code: SwRI	Project No.: 16526.05.00X
Matrix: BR	Date Received: 09/13/11
Task Order #: 111109-3	SRR #: 45629
Lab System ID: 475582	

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Oxide	Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	17900		463	Al2O	3.382%	80/20 Fusion	ICP 6010B	01/17/12
Antimony	7.10	U	7.1			Teflon	ICP 6010B	12/15/11
Arsenic	23.2	N	0.473			Teflon	ICP 6010B	12/15/11
Barium	147		46.3	BaO	0.0164%	80/20 Fusion	ICP 6010B	01/17/12
Beryllium	0.376	N	0.237			Teflon	ICP 6010B	12/15/11
Bismuth	9.46	U	9.46			Teflon	ICP 6010B	12/15/11
Boron	342	U	342			Rock	ICP 6010B	12/15/11
Cadmium	0.237	UN	0.237			Teflon	ICP 6010B	12/15/11
Calcium	14800		463	CaO	2.068%	80/20 Fusion	ICP 6010B	01/17/12
Chromium	68.7		48			80/20 Fusion	ICP 6010B	01/09/12
Cobalt	6.09		2.37			Teflon	ICP 6010B	12/15/11
Copper	6.35		2.37			Teflon	ICP 6010B	12/15/11
Iron	18000		463	Fe2O3	2.568%	80/20 Fusion	ICP 6010B	01/17/12
Lanthanum	48.5		0.237			Teflon	ICP 6010B	12/15/11
Lead	9.83	N	0.473			Teflon	ICP 6010B	12/15/11
Lithium	9.01		0.473			Teflon	ICP 6010B	12/15/11
Magnesium	4260		463	MgO	0.707%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	303		46.3	MnO	0.0392%	80/20 Fusion	ICP 6010B	01/17/12
Molybdenum	2.51		0.237			Teflon	ICP 6010B	12/15/11
Nickel	11.8		2.37			Teflon	ICP 6010B	12/15/11
Palladium	11.8	U	11.8			Teflon	ICP 6010B	12/15/11
Phosphorus	180		9.46	P2O5	0.0412%	Teflon	ICP 6010B	12/15/11
Potassium	7330		284	K2O	0.883%	Combined	ICP 6010B	Combined
Selenium	0.641	N	0.473			Teflon	ICP 6010B	12/15/11
Silicon	372000		1850	SiO2	79.640%	80/20 Fusion	ICP 6010B	01/17/12
Silver	0.710	UN	0.71			Teflon	ICP 6010B	12/15/11
Sodium	3200	N	237	Na2O	0.431%	Combined	ICP 6010B	Combined
Strontium	40.8		2.37			Teflon	ICP 6010B	12/15/11
Sulfur	6510		11.8			Teflon	ICP 6010B	12/15/11
Thallium	11.8	U	11.8			Teflon	ICP 6010B	12/15/11
Thorium	23.7	U	23.7			Teflon	ICP 6010B	12/15/11
Tin	4.73	U	4.73			Teflon	ICP 6010B	12/15/11
Titanium	3490		46.3	TiO2	0.582%	80/20 Fusion	ICP 6010B	01/17/12
Tungsten	0.766		0.473			Teflon	ICP 6010B	12/20/11
Uranium	47.3	U	47.3			Teflon	ICP 6010B	12/15/11
Vanadium	30.9		0.237	V2O5	0.0055%	Teflon	ICP 6010B	12/15/11
Yttrium	41.2		2.60			Combined	ICP 6010B	Combined
Zinc	8.86	N	0.473			Teflon	ICP 6010B	12/15/11
Zirconium	2310		48	ZrO2	0.312%	80/20 Fusion	ICP 6010B	01/09/12
LOI @ 1000°C	10.19%			SUM	100.87%			

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW03B-07-CU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/13/11

Task Order #: 111109-3

SRR #: 45629

Lab System ID: 475583

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Oxide	Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	98100		472	Al2O	18.537%	80/20 Fusion	ICP 6010B	01/17/12
Antimony	7.26	U	7.26			Teflon	ICP 6010B	12/15/11
Arsenic	15.5	N	0.484			Teflon	ICP 6010B	12/15/11
Barium	649		47.2	BaO	0.0725%	80/20 Fusion	ICP 6010B	01/17/12
Beryllium	2.90	N	0.242			Teflon	ICP 6010B	12/15/11
Bismuth	9.68	U	9.68			Teflon	ICP 6010B	12/15/11
Boron	391	U	391			Rock	ICP 6010B	12/15/11
Cadmium	0.242	UN	0.242			Teflon	ICP 6010B	12/15/11
Calcium	787		472	CaO	0.110%	80/20 Fusion	ICP 6010B	01/17/12
Chromium	125		43			80/20 Fusion	ICP 6010B	01/09/12
Cobalt	18.0		2.42			Teflon	ICP 6010B	12/15/11
Copper	26.1		2.42			Teflon	ICP 6010B	12/15/11
Iron	30800		472	Fe2O3	4.404%	80/20 Fusion	ICP 6010B	01/17/12
Lanthanum	39.1		5.08			Combined	ICP 6010B	Combined
Lead	15.8	N	0.484			Teflon	ICP 6010B	12/15/11
Lithium	148		0.484			Teflon	ICP 6010B	12/15/11
Magnesium	7960		472	MgO	1.320%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	235		47.2	MnO	0.0303%	80/20 Fusion	ICP 6010B	01/17/12
Molybdenum	2.35		0.242			Teflon	ICP 6010B	12/15/11
Nickel	39.9		2.42			Teflon	ICP 6010B	12/15/11
Palladium	12.1	U	12.1			Teflon	ICP 6010B	12/15/11
Phosphorus	187		9.68	P2O5	0.0429%	Teflon	ICP 6010B	12/15/11
Potassium	28100		290	K2O	3.386%	Combined	ICP 6010B	Combined
Selenium	0.786	N	0.484			Teflon	ICP 6010B	12/15/11
Silicon	284000		1890	SiO2	60.738%	80/20 Fusion	ICP 6010B	01/17/12
Silver	0.484	UN	0.484			Teflon	ICP 6010B	12/15/11
Sodium	2880	N	121	Na2O	0.388%	Teflon	ICP 6010B	12/15/11
Strontium	93.1		4.84			Combined	ICP 6010B	Combined
Sulfur	1100		12.1			Teflon	ICP 6010B	12/15/11
Thallium	12.1	U	12.1			Teflon	ICP 6010B	12/15/11
Thorium	24.2	U	24.2			Teflon	ICP 6010B	12/15/11
Tin	4.84	U	4.84			Teflon	ICP 6010B	12/15/11
Titanium	6230		47.2	TiO2	1.040%	80/20 Fusion	ICP 6010B	01/17/12
Tungsten	2.21		0.484			Teflon	ICP 6010B	12/20/11
Uranium	48.4	U	48.4			Teflon	ICP 6010B	12/15/11
Vanadium	188		2.66	V2O5	0.0335%	Combined	ICP 6010B	Combined
Yttrium	27.3		2.66			Combined	ICP 6010B	Combined
Zinc	106	N	0.484			Teflon	ICP 6010B	12/15/11
Zirconium	331		64.5	ZrO2	0.0448%	Combined	ICP 6010B	Combined
LOI @ 1000°C	10.81%			SUM	100.96%			

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW03B-07-SU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/13/11

Task Order #: 111109-3

SRR #: 45629

Lab System ID: 475584

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Oxide	Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	79900		486	Al2O	15.105%	80/20 Fusion	ICP 6010B	01/17/12
Antimony	7.32	U	7.32			Teflon	ICP 6010B	12/15/11
Arsenic	13.5	N	0.488			Teflon	ICP 6010B	12/15/11
Barium	478		48.6	BaO	0.0533%	80/20 Fusion	ICP 6010B	01/17/12
Beryllium	2.64	N	0.244			Teflon	ICP 6010B	12/15/11
Bismuth	9.76	U	9.76			Teflon	ICP 6010B	12/15/11
Boron	395	U	395			Rock	ICP 6010B	12/15/11
Cadmium	0.763	N	0.244			Teflon	ICP 6010B	12/15/11
Calcium	1950		486	CaO	0.273%	80/20 Fusion	ICP 6010B	01/17/12
Chromium	84.9		43.1			80/20 Fusion	ICP 6010B	01/09/12
Cobalt	20.3		2.44			Teflon	ICP 6010B	12/15/11
Copper	67.1		2.44			Teflon	ICP 6010B	12/15/11
Iron	45800		486	Fe2O3	6.552%	80/20 Fusion	ICP 6010B	01/17/12
Lanthanum	31.8		5.12			Combined	ICP 6010B	Combined
Lead	18.1	N	0.488			Teflon	ICP 6010B	12/15/11
Lithium	45.5		0.488			Teflon	ICP 6010B	12/15/11
Magnesium	9150		486	MgO	1.518%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	187		48.6	MnO	0.0242%	80/20 Fusion	ICP 6010B	01/17/12
Molybdenum	46.1		0.244			Teflon	ICP 6010B	12/15/11
Nickel	94.9		2.44			Teflon	ICP 6010B	12/15/11
Palladium	12.2	U	12.2			Teflon	ICP 6010B	12/15/11
Phosphorus	271		9.76	P2O5	0.0621%	Teflon	ICP 6010B	12/15/11
Potassium	28100		293	K2O	3.387%	Combined	ICP 6010B	Combined
Selenium	3.95	N	0.488			Teflon	ICP 6010B	12/15/11
Silicon	238000		1950	SiO2	50.913%	80/20 Fusion	ICP 6010B	01/17/12
Silver	0.488	UN	0.488			Teflon	ICP 6010B	12/15/11
Sodium	2760	N	122	Na2O	0.372%	Teflon	ICP 6010B	12/15/11
Strontium	126		4.88			Combined	ICP 6010B	Combined
Sulfur	26000		122			Teflon	ICP 6010B	01/09/12
Thallium	12.2	U	12.2			Teflon	ICP 6010B	12/15/11
Thorium	24.4	U	24.4			Teflon	ICP 6010B	12/15/11
Tin	4.88	U	4.88			Teflon	ICP 6010B	12/15/11
Titanium	3920		48.6	TiO2	0.654%	80/20 Fusion	ICP 6010B	01/17/12
Tungsten	3.56		0.488			Teflon	ICP 6010B	12/20/11
Uranium	48.8	U	48.8			Teflon	ICP 6010B	12/15/11
Vanadium	243		2.68	V2O5	0.0433%	Combined	ICP 6010B	Combined
Yttrium	31.4		2.68			Combined	ICP 6010B	Combined
Zinc	91.7	N	0.488			Teflon	ICP 6010B	12/15/11
Zirconium	98.6		43.1	ZrO2	0.0133%	80/20 Fusion	ICP 6010B	01/09/12
LOI @ 1000°C	21.87%			SUM	100.84%			

SOUTHWEST RESEARCH INSTITUTE
DUPLICATE SUMMARY

Sample ID
WDMW03B-07-SU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/13/11

Task Order #: 111109-3

SRR #: 45629

Lab System ID: 475584D

Analysis	Duplicate Result (mg/Kg)	Qualifier	RPD	Oxide	Duplicate Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	79900		0.00%	Al2O	15.106%	80/20 Fusion	ICP 6010B	01/17/12
Antimony	6.29	U	0.00%			Teflon	ICP 6010B	12/15/11
Arsenic	12.9		4.55%			Teflon	ICP 6010B	12/15/11
Barium	481		0.63%	BaO	0.0537%	80/20 Fusion	ICP 6010B	01/17/12
Beryllium	2.61		1.14%			Teflon	ICP 6010B	12/15/11
Bismuth	8.39	U	0.00%			Teflon	ICP 6010B	12/15/11
Boron	370	U	0.00%			Rock	ICP 6010B	12/15/11
Cadmium	0.871		13.2%			Teflon	ICP 6010B	12/15/11
Calcium	1960		0.51%	CaO	0.275%	80/20 Fusion	ICP 6010B	01/17/12
Chromium	85.4		0.59%			80/20 Fusion	ICP 6010B	01/09/12
Cobalt	20.3		0.00%			Teflon	ICP 6010B	12/15/11
Copper	68.5		2.06%			Teflon	ICP 6010B	12/15/11
Iron	45400		0.88%	Fe2O3	6.493%	80/20 Fusion	ICP 6010B	01/17/12
Lanthanum	33.1		4.01%			Combined	ICP 6010B	Combined
Lead	18.1		0.00%			Teflon	ICP 6010B	12/15/11
Lithium	45.6		0.22%			Teflon	ICP 6010B	12/15/11
Magnesium	9170		0.22%	MgO	1.521%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	184		1.62%	MnO	0.0238%	80/20 Fusion	ICP 6010B	01/17/12
Molybdenum	45.5		1.31%			Teflon	ICP 6010B	12/15/11
Nickel	96.0		1.15%			Teflon	ICP 6010B	12/15/11
Palladium	10.5	U	0.00%			Teflon	ICP 6010B	12/15/11
Phosphorus	269		0.74%	P2O5	0.0618%	Teflon	ICP 6010B	12/15/11
Potassium	27800		1.07%	K2O	3.350%	Combined	ICP 6010B	Combined
Selenium	3.69		6.81%			Teflon	ICP 6010B	12/15/11
Silicon	234000		1.69%	SiO2	50.135%	80/20 Fusion	ICP 6010B	01/17/12
Silver	0.420	U	0.00%			Teflon	ICP 6010B	12/15/11
Sodium	2750		0.36%	Na2O	0.370%	Teflon	ICP 6010B	12/15/11
Strontium	122		3.23%			Combined	ICP 6010B	Combined
Sulfur	25700		1.16%			Teflon	ICP 6010B	01/09/12
Thallium	10.5	U	0.00%			Teflon	ICP 6010B	12/15/11
Thorium	21.0	U	0.00%			Teflon	ICP 6010B	12/15/11
Tin	4.20	U	0.00%			Teflon	ICP 6010B	12/15/11
Titanium	3920		0.00%	TiO2	0.654%	80/20 Fusion	ICP 6010B	01/17/12
Tungsten	3.15		12.2%			Teflon	ICP 6010B	12/20/11
Uranium	42.0	U	0.00%			Teflon	ICP 6010B	12/15/11
Vanadium	245		0.82%	V2O5	0.0437%	Combined	ICP 6010B	Combined
Yttrium	31.4		0.00%			Combined	ICP 6010B	Combined
Zinc	93.0		1.41%			Teflon	ICP 6010B	12/15/11
Zirconium	97.3		1.33%	ZrO2	0.0131%	80/20 Fusion	ICP 6010B	01/09/12
LOI @ 1000°C	21.82%			SUM	99.92%			

SOUTHWEST RESEARCH INSTITUTE

MATRIX SPIKE SUMMARY

Sample ID
WDMW03B-07-SU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/13/11

Task Order #: 111109-3

SRR #: 45629

Lab System ID: 475584S

Analysis	Spike Result (mg/Kg)	Qualifier	Spike Added (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Antimony	26.0		24.5	106.1%	Teflon	ICP 6010B	12/15/11
Arsenic	115		97.8	103.8%	Teflon	ICP 6010B	12/15/11
Beryllium	5.17		2.45	103.3%	Teflon	ICP 6010B	12/15/11
Bismuth	9.78	U	NA	NA	Teflon	ICP 6010B	12/15/11
Cadmium	3.21		2.45	99.9%	Teflon	ICP 6010B	12/15/11
Cobalt	44.1		24.5	97.1%	Teflon	ICP 6010B	12/15/11
Copper	80.8		12.2	112.3%	Teflon	ICP 6010B	12/15/11
Lanthanum	32.2		NA	NA	Combined	ICP 6010B	Combined
Lead	40.2		24.5	90.2%	Teflon	ICP 6010B	12/15/11
Lithium	47.1		NA	NA	Teflon	ICP 6010B	12/15/11
Molybdenum	46.9		NA	NA	Teflon	ICP 6010B	12/15/11
Nickel	120		24.5	102.4%	Teflon	ICP 6010B	12/15/11
Palladium	12.2	U	NA	NA	Teflon	ICP 6010B	12/15/11
Phosphorus	278		NA	NA	Teflon	ICP 6010B	12/15/11
Potassium	32300		978	429.4%	Combined	ICP 6010B	Combined
Selenium	105		97.8	103.3%	Teflon	ICP 6010B	12/15/11
Silver	2.33		2.45	95.1%	Teflon	ICP 6010B	12/15/11
Sodium	4090	N	978	136.0%	Teflon	ICP 6010B	12/15/11
Strontium	126		NA	NA	Combined	ICP 6010B	Combined
Sulfur	25300		NA	NA	Teflon	ICP 6010B	01/09/12
Thallium	99.8		97.8	102.0%	Teflon	ICP 6010B	12/15/11
Thorium	24.5	U	NA	NA	Teflon	ICP 6010B	12/15/11
Tin	4.89	U	NA	NA	Teflon	ICP 6010B	12/15/11
Tungsten	3.23		NA	NA	Teflon	ICP 6010B	12/20/11
Uranium	48.9	U	NA	NA	Teflon	ICP 6010B	12/15/11
Vanadium	274		24.5	126.5%	Combined	ICP 6010B	Combined
Yttrium	31.9		NA	NA	Combined	ICP 6010B	Combined
Zinc	109	N	24.5	70.6%	Teflon	ICP 6010B	12/15/11

NA - Not Applicable

SOUTHWEST RESEARCH INSTITUTE

MATRIX SPIKE DUPLICATE SUMMARY

Sample ID
WDMW03B-07-SU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/13/11

Task Order #: 111109-3

SRR #: 45629

Lab System ID: 475584SD

Analysis	Spike Result (mg/Kg)	Qualifier	Spike Added (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Antimony	27.6		24.9	110.8%	Teflon	ICP 6010B	12/15/11
Arsenic	150	N	99.7	136.9%	Teflon	ICP 6010B	12/15/11
Beryllium	6.75	N	2.49	165.1%	Teflon	ICP 6010B	12/15/11
Bismuth	9.97	U	NA	NA	Teflon	ICP 6010B	12/15/11
Cadmium	4.16	N	2.49	136.4%	Teflon	ICP 6010B	12/15/11
Cobalt	44.1		24.9	95.6%	Teflon	ICP 6010B	12/15/11
Copper	81.7		12.5	116.8%	Teflon	ICP 6010B	12/15/11
Lanthanum	37.2		NA	NA	Combined	ICP 6010B	Combined
Lead	52.3	N	24.9	137.3%	Teflon	ICP 6010B	12/15/11
Lithium	60.3		NA	NA	Teflon	ICP 6010B	12/15/11
Molybdenum	60.3		NA	NA	Teflon	ICP 6010B	12/15/11
Nickel	121		24.9	104.8%	Teflon	ICP 6010B	12/15/11
Palladium	12.5	U	NA	NA	Teflon	ICP 6010B	12/15/11
Phosphorus	351		NA	NA	Teflon	ICP 6010B	12/15/11
Potassium	29600		997	150.5%	Combined	ICP 6010B	Combined
Selenium	136	N	99.7	132.4%	Teflon	ICP 6010B	12/15/11
Silver	3.17	N	2.49	127.3%	Teflon	ICP 6010B	12/15/11
Sodium	3740		997	98.3%	Teflon	ICP 6010B	12/15/11
Strontium	126		NA	NA	Combined	ICP 6010B	Combined
Sulfur	26400		NA	NA	Teflon	ICP 6010B	01/09/12
Thallium	98.4		99.7	98.7%	Teflon	ICP 6010B	12/15/11
Thorium	24.9	U	NA	NA	Teflon	ICP 6010B	12/15/11
Tin	4.98	U	NA	NA	Teflon	ICP 6010B	12/15/11
Tungsten	3.88		NA	NA	Teflon	ICP 6010B	12/20/11
Uranium	49.8	U	NA	NA	Teflon	ICP 6010B	12/15/11
Vanadium	354		24.9	445.8%	Combined	ICP 6010B	Combined
Yttrium	36.8		NA	NA	Combined	ICP 6010B	Combined
Zinc	148	N	24.9	226.1%	Teflon	ICP 6010B	12/15/11

NA - Not Applicable

SOUTHWEST RESEARCH INSTITUTE

ANALYTICAL SPIKE SUMMARY

Sample ID
WDMW03B-07-SU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/13/11

Task Order #: 111109-3

SRR #: 45629

Lab System ID: 475584A

Analysis	Spike Result (mg/Kg)	Qualifier	Spike Added (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Aluminum	101000		19500	108.2%	80/20 Fusion	ICP 6010B	01/17/12
Antimony	249		244	102.0%	Teflon	ICP 6010B	12/15/11
Arsenic	114		97.6	103.0%	Teflon	ICP 6010B	12/15/11
Barium	20600		19500	103.2%	80/20 Fusion	ICP 6010B	01/17/12
Beryllium	5.04		2.44	98.4%	Teflon	ICP 6010B	12/15/11
Bismuth	9.76	U	NA	NA	Teflon	ICP 6010B	12/15/11
Boron	395	U	NA	NA	Rock	ICP 6010B	12/15/11
Cadmium	3.21		2.44	100.3%	Teflon	ICP 6010B	12/15/11
Calcium	208000		195000	105.7%	80/20 Fusion	ICP 6010B	01/17/12
Chromium	1840		1720	102.0%	80/20 Fusion	ICP 6010B	01/09/12
Cobalt	267		244	101.1%	Teflon	ICP 6010B	12/15/11
Copper	194		122	104.0%	Teflon	ICP 6010B	12/15/11
Iron	56200		9730	106.9%	80/20 Fusion	ICP 6010B	01/17/12
Lanthanum	31.5		NA	NA	Combined	ICP 6010B	Combined
Lead	41.4		24.4	95.5%	Teflon	ICP 6010B	12/15/11
Lithium	45.3		NA	NA	Teflon	ICP 6010B	12/15/11
Magnesium	211000		195000	103.5%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	5490		4860	109.1%	80/20 Fusion	ICP 6010B	01/17/12
Molybdenum	45.0		NA	NA	Teflon	ICP 6010B	12/15/11
Nickel	339		244	100.0%	Teflon	ICP 6010B	12/15/11
Palladium	12.2	U	NA	NA	Teflon	ICP 6010B	12/15/11
Phosphorus	267		NA	NA	Teflon	ICP 6010B	12/15/11
Potassium	48700		19520	105.5%	Combined	ICP 6010B	Combined
Selenium	103		97.6	101.5%	Teflon	ICP 6010B	12/15/11
Silicon	241000		NA	NA	80/20 Fusion	ICP 6010B	01/17/12
Silver	2.26		2.44	92.6%	Teflon	ICP 6010B	12/15/11
Sodium	12800		9760	102.9%	Teflon	ICP 6010B	12/15/11
Strontium	129		NA	NA	Combined	ICP 6010B	Combined
Sulfur	26300		NA	NA	Teflon	ICP 6010B	01/09/12
Thallium	1010		976	103.5%	Teflon	ICP 6010B	12/15/11
Thorium	24.4	U	NA	NA	Teflon	ICP 6010B	12/15/11
Tin	4.88	U	NA	NA	Teflon	ICP 6010B	12/15/11
Titanium	3970		NA	NA	80/20 Fusion	ICP 6010B	01/17/12
Tungsten	3.62		NA	NA	Teflon	ICP 6010B	12/20/11
Uranium	48.8	U	NA	NA	Teflon	ICP 6010B	12/15/11
Vanadium	514		268.4	101.0%	Combined	ICP 6010B	Combined
Yttrium	31.0		NA	NA	Combined	ICP 6010B	Combined
Zinc	114		24.4	91.4%	Teflon	ICP 6010B	12/15/11
Zirconium	124		NA	NA	80/20 Fusion	ICP 6010B	01/09/12

NA - Not Applicable

SOUTHWEST RESEARCH INSTITUTE

BLANK SUMMARY

Sample ID
Prep Blank

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: PB11L22DG1 / 11L21DG2 / 11L28DG1 / 12A17KE1

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Prep Method	Instrument	Date Analyzed
Aluminum	500	U	500	80/20 Fusion	ICP 6010B	01/17/12
Antimony	0.750	U	0.750	Teflon	ICP 6010B	11/30/11
Arsenic	0.500	U	0.500	Teflon	ICP 6010B	11/30/11
Barium	50.0	U	50.0	80/20 Fusion	ICP 6010B	01/17/12
Beryllium	0.250	U	0.250	Teflon	ICP 6010B	11/30/11
Bismuth	1.00	U	1.00	Teflon	ICP 6010B	11/30/11
Boron	400	U	400	Rock	ICP 6010B	12/01/11
Cadmium	0.250	U	0.250	Teflon	ICP 6010B	11/30/11
Calcium	500	U	500	80/20 Fusion	ICP 6010B	01/17/12
Chromium	50.0	U	50.0	80/20 Fusion	ICP 6010B	12/02/11
Cobalt	0.250	U	0.250	Teflon	ICP 6010B	11/30/11
Copper	0.250	U	0.250	Teflon	ICP 6010B	11/30/11
Iron	500	U	500	80/20 Fusion	ICP 6010B	01/17/12
Lanthanum	0.250	U	0.250	Teflon	ICP 6010B	11/30/11
Lead	0.500	U	0.500	Teflon	ICP 6010B	11/30/11
Lithium	0.500	U	0.500	Teflon	ICP 6010B	11/30/11
Magnesium	500	U	500	80/20 Fusion	ICP 6010B	01/17/12
Manganese	50.0	U	50.0	80/20 Fusion	ICP 6010B	01/17/12
Molybdenum	0.250	U	0.250	Teflon	ICP 6010B	11/30/11
Nickel	0.250	U	0.250	Teflon	ICP 6010B	11/30/11
Palladium	1.25	U	1.25	Teflon	ICP 6010B	11/30/11
Phosphorus	10.0	U	10.0	Teflon	ICP 6010B	11/30/11
Potassium	15.0	U	15.0	Teflon	ICP 6010B	12/01/11
Selenium	0.500	U	0.500	Teflon	ICP 6010B	11/30/11
Silicon	2000	U	2000	80/20 Fusion	ICP 6010B	01/17/12
Silver	0.500	U	0.500	Teflon	ICP 6010B	11/30/11
Sodium	12.5	U	12.5	Teflon	ICP 6010B	12/01/11
Strontium	0.250	U	0.250	Teflon	ICP 6010B	11/30/11
Sulfur	12.5	U	12.5	Teflon	ICP 6010B	11/30/11
Thallium	1.25	U	1.25	Teflon	ICP 6010B	11/30/11
Thorium	2.50	U	2.50	Teflon	ICP 6010B	11/30/11
Tin	0.500	U	0.500	Teflon	ICP 6010B	11/30/11
Titanium	50.0	U	50.0	80/20 Fusion	ICP 6010B	01/17/12
Tungsten	0.500	U	0.500	Teflon	ICP 6010B	11/30/11
Uranium	5.00	U	5.00	Teflon	ICP 6010B	11/30/11
Vanadium	0.250	U	0.250	Teflon	ICP 6010B	11/30/11
Yttrium	0.250	U	0.250	Teflon	ICP 6010B	11/30/11
Zinc	0.500	U	0.500	Teflon	ICP 6010B	11/30/11
Zirconium	50.0	U	50.0	80/20 Fusion	ICP 6010B	12/02/11

NA - Not Applicable
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE

BLANK SUMMARY

Sample ID
Prep Blank 2

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: PB11M02DG1TF / 12B08KE1 / 11M02DG1RK

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Prep Method	Instrument	Date Analyzed
Aluminum	500	U	500	80/20 Fusion	ICP 6010B	02/09/12
Antimony	0.750	U	0.750	Teflon	ICP 6010B	12/15/11
Arsenic	0.500	U	0.500	Teflon	ICP 6010B	12/15/11
Barium	50.0	U	50.0	80/20 Fusion	ICP 6010B	02/09/12
Beryllium	0.250	U	0.250	Teflon	ICP 6010B	12/15/11
Bismuth	1.00	U	1.00	Teflon	ICP 6010B	12/15/11
Boron	400	U	400	Rock	ICP 6010B	12/15/11
Cadmium	0.250	U	0.250	Teflon	ICP 6010B	12/15/11
Calcium	500	U	500	80/20 Fusion	ICP 6010B	02/09/12
Cobalt	0.250	U	0.250	Teflon	ICP 6010B	12/15/11
Copper	0.250	U	0.250	Teflon	ICP 6010B	12/15/11
Iron	500	U	500	80/20 Fusion	ICP 6010B	02/09/12
Lanthanum	0.250	U	0.250	Teflon	ICP 6010B	12/15/11
Lead	0.500	U	0.500	Teflon	ICP 6010B	12/15/11
Lithium	0.500	U	0.500	Teflon	ICP 6010B	12/15/11
Magnesium	500	U	500	80/20 Fusion	ICP 6010B	02/09/12
Manganese	50.0	U	50.0	80/20 Fusion	ICP 6010B	02/09/12
Molybdenum	0.250	U	0.250	Teflon	ICP 6010B	12/15/11
Nickel	0.250	U	0.250	Teflon	ICP 6010B	12/15/11
Palladium	1.25	U	1.25	Teflon	ICP 6010B	12/15/11
Phosphorus	10.0	U	10.0	Teflon	ICP 6010B	12/15/11
Potassium	15.0	U	15.0	Teflon	ICP 6010B	12/15/11
Selenium	0.500	U	0.500	Teflon	ICP 6010B	12/15/11
Silicon	2000	U	2000	80/20 Fusion	ICP 6010B	02/09/12
Silver	0.500	U	0.500	Teflon	ICP 6010B	12/15/11
Sodium	12.5	U	12.5	Teflon	ICP 6010B	12/15/11
Strontium	0.250	U	0.250	Teflon	ICP 6010B	12/15/11
Sulfur	12.5	U	12.5	Teflon	ICP 6010B	12/15/11
Thallium	1.25	U	1.25	Teflon	ICP 6010B	12/15/11
Thorium	2.50	U	2.50	Teflon	ICP 6010B	12/15/11
Tin	0.500	U	0.500	Teflon	ICP 6010B	12/15/11
Titanium	50.0	U	50.0	80/20 Fusion	ICP 6010B	02/09/12
Tungsten	0.500	U	0.500	Teflon	ICP 6010B	01/16/12
Uranium	5.00	U	5.00	Teflon	ICP 6010B	12/15/11
Vanadium	0.250	U	0.250	Teflon	ICP 6010B	12/15/11
Yttrium	0.250	U	0.250	Teflon	ICP 6010B	12/15/11
Zinc	0.500	U	0.500	Teflon	ICP 6010B	12/15/11
Zirconium	50.0	U	50.0	80/20 Fusion	ICP 6010B	02/09/12

NA - Not Applicable
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE

BLANK SUMMARY

Sample ID
Prep Blank 3

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: PB11M06DG2

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Prep Method	Instrument	Date Analyzed
Lanthanum	5.00	U	5.00	Teflon Res	ICP 6010B	01/09/12
Potassium	150	U	150	Teflon Res	ICP 6010B	01/09/12
Sodium	125	U	125	Teflon Res	ICP 6010B	01/09/12
Strontium	2.50	U	2.50	Teflon Res	ICP 6010B	01/09/12
Vanadium	2.50	U	2.50	Teflon Res	ICP 6010B	01/09/12
Yttrium	2.50	U	2.50	Teflon Res	ICP 6010B	01/09/12
Zirconium	25.0	U	25.0	80/20 Fus Res	ICP 6010B	01/16/12

NA - Not Applicable
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE
BLANK SUMMARY

Sample ID
Prep Blank 4

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: PB12A07KE3

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Prep Method	Instrument	Date Analyzed
Chromium	50.0	U	50.0	80/20 Fusion	ICP 6010B	01/09/12
Zirconium	50.0	U	50.0	80/20 Fusion	ICP 6010B	01/09/12

NA - Not Applicable
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE

BLANK SUMMARY

Sample ID
Prep Blank 5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: PB11M02DG2

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Prep Method	Instrument	Date Analyzed
Chromium	50.0	U	50.0	80/20 Fusion	ICP 6010B	01/09/12
Zirconium	50.0	U	50.0	80/20 Fusion	ICP 6010B	01/09/12

NA - Not Applicable
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE

BLANK SUMMARY

Sample ID
Prep Blank 6

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: PB11L29DG1

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Prep Method	Instrument	Date Analyzed
Lanthanum	2.50	U	2.50	Teflon Res	ICP 6010B	12/01/11
Nickel	2.50	U	2.50	Teflon Res	ICP 6010B	12/01/11
Phosphorus	100	U	100	Teflon Res	ICP 6010B	12/01/11
Potassium	1500	U	1500	Teflon Res	ICP 6010B	01/09/12
Sodium	1250	U	1250	Teflon Res	ICP 6010B	01/09/12
Strontium	2.50	U	2.50	Teflon Res	ICP 6010B	12/01/11
Vanadium	5.00	U	5.00	Teflon Res	ICP 6010B	12/01/11
Yttrium	2.50	U	2.50	Teflon Res	ICP 6010B	12/01/11
Zinc	5.00	U	5.00	Teflon Res	ICP 6010B	12/01/11

NA - Not Applicable
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: LCS11L22DG1TF

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Antimony	51.6		50.0	103.2%	Teflon	ICP 6010B	11/30/11
Arsenic	203		200	101.5%	Teflon	ICP 6010B	11/30/11
Beryllium	5.16		5.00	103.2%	Teflon	ICP 6010B	11/30/11
Bismuth	1.00	U	NA	NA	Teflon	ICP 6010B	11/30/11
Cadmium	5.08		5.00	101.6%	Teflon	ICP 6010B	11/30/11
Cobalt	48.4		50.0	96.8%	Teflon	ICP 6010B	11/30/11
Copper	25.1		25.0	100.4%	Teflon	ICP 6010B	11/30/11
Lanthanum	0.250	U	NA	NA	Teflon	ICP 6010B	11/30/11
Lead	48.8		50.0	97.6%	Teflon	ICP 6010B	11/30/11
Lithium	0.500	U	NA	NA	Teflon	ICP 6010B	11/30/11
Molybdenum	0.250	U	NA	NA	Teflon	ICP 6010B	11/30/11
Nickel	48.7		50.0	97.4%	Teflon	ICP 6010B	11/30/11
Palladium	1.25	U	NA	NA	Teflon	ICP 6010B	11/30/11
Phosphorus	10.0	U	NA	NA	Teflon	ICP 6010B	11/30/11
Potassium	997		1000	99.7%	Teflon	ICP 6010B	12/01/11
Selenium	211		200	105.5%	Teflon	ICP 6010B	11/30/11
Silver	5.01		5.00	100.2%	Teflon	ICP 6010B	11/30/11
Sodium	1030		1000	103.0%	Teflon	ICP 6010B	12/01/11
Strontium	0.250	U	NA	NA	Teflon	ICP 6010B	11/30/11
Sulfur	12.5	U	NA	NA	Teflon	ICP 6010B	11/30/11
Thallium	210		200	105.0%	Teflon	ICP 6010B	11/30/11
Thorium	2.50	U	NA	NA	Teflon	ICP 6010B	11/30/11
Tin	0.500	U	NA	NA	Teflon	ICP 6010B	11/30/11
Tungsten	0.500	U	NA	NA	Teflon	ICP 6010B	11/30/11
Uranium	5.00	U	NA	NA	Teflon	ICP 6010B	11/30/11
Vanadium	49.4		50.0	98.8%	Teflon	ICP 6010B	11/30/11
Yttrium	0.250	U	NA	NA	Teflon	ICP 6010B	11/30/11
Zinc	50.2		50.0	100.4%	Teflon	ICP 6010B	11/30/11

NA - Not Applicable

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 2

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: LCS11M02DG1TF

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Antimony	49.9		50.0	99.8%	Teflon	ICP 6010B	12/15/11
Arsenic	202		200	101.0%	Teflon	ICP 6010B	12/15/11
Beryllium	5.00		5.00	100.0%	Teflon	ICP 6010B	12/15/11
Bismuth	1.00	U	NA	NA	Teflon	ICP 6010B	12/15/11
Cadmium	5.13		5.00	102.6%	Teflon	ICP 6010B	12/15/11
Cobalt	49.7		50.0	99.4%	Teflon	ICP 6010B	12/15/11
Copper	24.1		25.0	96.4%	Teflon	ICP 6010B	12/15/11
Lanthanum	0.250	U	NA	NA	Teflon	ICP 6010B	12/15/11
Lead	48.6		50.0	97.2%	Teflon	ICP 6010B	12/15/11
Lithium	0.500	U	NA	NA	Teflon	ICP 6010B	12/15/11
Molybdenum	0.250	U	NA	NA	Teflon	ICP 6010B	12/15/11
Nickel	49.2		50.0	98.4%	Teflon	ICP 6010B	12/15/11
Palladium	1.25	U	NA	NA	Teflon	ICP 6010B	12/15/11
Phosphorus	10.0	U	NA	NA	Teflon	ICP 6010B	12/15/11
Potassium	961		1000	96.1%	Teflon	ICP 6010B	12/15/11
Selenium	204		200	102.0%	Teflon	ICP 6010B	12/15/11
Silver	4.91		5.00	98.2%	Teflon	ICP 6010B	12/15/11
Sodium	1000		1000	100.0%	Teflon	ICP 6010B	12/15/11
Strontium	0.250	U	NA	NA	Teflon	ICP 6010B	12/15/11
Sulfur	12.5	U	NA	NA	Teflon	ICP 6010B	12/15/11
Thallium	204		200	102.0%	Teflon	ICP 6010B	12/15/11
Thorium	2.50	U	NA	NA	Teflon	ICP 6010B	12/15/11
Tin	0.500	U	NA	NA	Teflon	ICP 6010B	12/15/11
Tungsten	0.500	U	NA	NA	Teflon	ICP 6010B	01/16/12
Uranium	5.00	U	NA	NA	Teflon	ICP 6010B	12/15/11
Vanadium	49.3		50.0	98.6%	Teflon	ICP 6010B	12/15/11
Yttrium	0.250	U	NA	NA	Teflon	ICP 6010B	12/15/11
Zinc	52.3		50.0	104.6%	Teflon	ICP 6010B	12/15/11

NA - Not Applicable

SOUTHWEST RESEARCH INSTITUTE

LABORATORY CONTROL SAMPLE

Sample ID
Lab Control - SRM 278

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 278 - Obsidian Rock - LCS11L21DG2RK / 11L22DG2TF / 11L28DG1

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Antimony - xx	6.35	U	1.5	NA	Teflon	ICP 6010B	11/30/11
Arsenic - xx	4.23	U	4.5	NA	Teflon	ICP 6010B	11/30/11
Beryllium - xx	2.67		2	133.5%	Teflon	ICP 6010B	11/30/11
Bismuth	8.47	U	NA	NA	Teflon	ICP 6010B	11/30/11
Boron - xx	351	U	25	NA	Rock	ICP 6010B	12/01/11
Cadmium - xx	2.12	U	0.18	NA	Teflon	ICP 6010B	11/30/11
Chromium - xx	48.8	U	6.1	NA	80/20 Fusion	ICP 6010B	12/02/11
Cobalt - xx	2.12		1.5	141.3%	Teflon	ICP 6010B	11/30/11
Copper	6.61		5.9	112.0%	Teflon	ICP 6010B	11/30/11
Lanthanum - xx	29.2		33	88.5%	Teflon	ICP 6010B	11/30/11
Lead	13.5		16.4	82.3%	Teflon	ICP 6010B	11/30/11
Lithium - xx	46.0		47	97.9%	Teflon	ICP 6010B	11/30/11
Molybdenum - xx	4.54		3	151.3%	Teflon	ICP 6010B	11/30/11
Nickel	3.01		3.6	83.6%	Teflon	ICP 6010B	11/30/11
Palladium	10.6	U	NA	NA	Teflon	ICP 6010B	11/30/11
Phosphorus	162		157	103.2%	Teflon	ICP 6010B	11/30/11
Potassium	36500		34500	105.8%	Teflon	ICP 6010B	12/01/11
Selenium	4.23	U	NA	NA	Teflon	ICP 6010B	11/30/11
Silver	4.23	U	NA	NA	Teflon	ICP 6010B	11/30/11
Sodium	38700		35900	107.8%	Teflon	ICP 6010B	12/01/11
Strontium	66.9		63.5	105.4%	Teflon	ICP 6010B	11/30/11
Sulfur - xx	106	U	18	NA	Teflon	ICP 6010B	11/30/11
Thallium	10.6	U	0.54	NA	Teflon	ICP 6010B	11/30/11
Thorium	21.2	U	12.4	NA	Teflon	ICP 6010B	11/30/11
Tin	42.3	U	NA	NA	Teflon	ICP 6010B	11/30/11
Tungsten	4.23	U	NA	NA	Teflon	ICP 6010B	11/30/11
Uranium	42.3	U	4.58	NA	Teflon	ICP 6010B	11/30/11
Vanadium - xx	6.78		15	45.2%	Teflon	ICP 6010B	11/30/11
Yttrium - xx	36.8		41	89.8%	Teflon	ICP 6010B	11/30/11
Zinc - xx	49.3		55	89.6%	Teflon	ICP 6010B	11/30/11
Zirconium - xx	267		295	90.5%	80/20 Fusion	ICP 6010B	12/02/11

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control - SRM 688

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 688 - Basalt Rock - LCS11L21DG3RK / 11L22DG3TF / LCS11L28DG2

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Antimony - xx	7.26	U	0.3	NA	Teflon	ICP 6010B	11/30/11
Arsenic - xx	4.84	U	2.5	NA	Teflon	ICP 6010B	11/30/11
Beryllium - xx	2.42	U	0.7	NA	Teflon	ICP 6010B	11/30/11
Bismuth	9.68	U	NA	NA	Teflon	ICP 6010B	11/30/11
Boron - xx	368	U	1.3	NA	Rock	ICP 6010B	12/01/11
Cadmium	2.42	U	NA	NA	Teflon	ICP 6010B	11/30/11
Chromium	353		332	106.3%	80/20 Fusion	ICP 6010B	12/02/11
Cobalt - xx	44.5		49.7	89.5%	Teflon	ICP 6010B	11/30/11
Copper - xx	97.5		96	101.6%	Teflon	ICP 6010B	11/30/11
Lanthanum - xx	4.79		5.3	90.4%	Teflon	ICP 6010B	11/30/11
Lead	4.84	U	3.3	NA	Teflon	ICP 6010B	11/30/11
Lithium - xx	8.18		7	116.9%	Teflon	ICP 6010B	11/30/11
Molybdenum	2.42	U	NA	NA	Teflon	ICP 6010B	11/30/11
Nickel - xx	150		150	100.0%	Teflon	ICP 6010B	11/30/11
Palladium	12.1	U	NA	NA	Teflon	ICP 6010B	11/30/11
Phosphorus	624		585	106.7%	Teflon	ICP 6010B	11/30/11
Potassium	2900	U	1550	NA	Teflon	ICP 6010B	12/01/11
Selenium	4.84	U	NA	NA	Teflon	ICP 6010B	11/30/11
Silver	4.84	U	NA	NA	Teflon	ICP 6010B	11/30/11
Sodium	16500		15900	103.8%	Teflon	ICP 6010B	12/01/11
Strontium	182		169	107.7%	Teflon	ICP 6010B	11/30/11
Sulfur - xx	138		117	117.9%	Teflon	ICP 6010B	11/30/11
Thallium	12.1	U	NA	NA	Teflon	ICP 6010B	11/30/11
Thorium	24.2	U	0.33	NA	Teflon	ICP 6010B	11/30/11
Tin	48.4	U	NA	NA	Teflon	ICP 6010B	11/30/11
Tungsten	4.84	U	NA	NA	Teflon	ICP 6010B	11/30/11
Uranium - xx	48.4	U	0.37	NA	Teflon	ICP 6010B	11/30/11
Vanadium - xx	254		250	101.6%	Teflon	ICP 6010B	11/30/11
Yttrium - xx	18.6		17	109.4%	Teflon	ICP 6010B	11/30/11
Zinc - xx	73.3		58	126.4%	Teflon	ICP 6010B	11/30/11
Zirconium - xx	59.4		61	97.4%	80/20 Fusion	ICP 6010B	12/02/11

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 2 - SRM 278

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 278 - Obsidian Rock - LCS11L29DG1TFF

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Lanthanum - xx	45.0	U	33	NA	Teflon Res	ICP 6010B	12/01/11
Nickel	45.0	U	3.6	NA	Teflon Res	ICP 6010B	12/01/11
Phosphorus	1800	U	157	NA	Teflon Res	ICP 6010B	12/01/11
Potassium	21700		34500	62.9%	Teflon Res	ICP 6010B	01/09/12
Sodium	31100		35900	86.6%	Teflon Res	ICP 6010B	01/09/12
Strontium	73.7		63.5	116.1%	Teflon Res	ICP 6010B	12/01/11
Vanadium - xx	89.9	U	15	NA	Teflon Res	ICP 6010B	12/01/11
Yttrium - xx	45.0	U	41	NA	Teflon Res	ICP 6010B	12/01/11
Zinc - xx	89.9	U	55	NA	Teflon Res	ICP 6010B	12/01/11

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 2 - SRM 688

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 688 - Basalt Rock - LCS11L29DG2TFF

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Lanthanum - xx	41.8	U	5.3	NA	Teflon Res	ICP 6010B	12/01/11
Nickel - xx	197		150	131.3%	Teflon Res	ICP 6010B	12/01/11
Phosphorus	1670	U	585	NA	Teflon Res	ICP 6010B	12/01/11
Potassium	2510	U	1550	NA	Teflon Res	ICP 6010B	01/09/12
Sodium	15300		16000	95.6%	Teflon Res	ICP 6010B	01/09/12
Strontium	189		169	111.8%	Teflon Res	ICP 6010B	12/01/11
Vanadium - xx	274		250	109.6%	Teflon Res	ICP 6010B	12/01/11
Yttrium - xx	41.8	U	17	NA	Teflon Res	ICP 6010B	12/01/11
Zinc - xx	83.6	U	58	NA	Teflon Res	ICP 6010B	12/01/11

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 3 - SRM 278

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 278 - Obsidian Rock - LCS11M02DG2TF / 11M02DG4 / 11M02DG1RK

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Antimony - xx	7.35	U	1.5	NA	Teflon	ICP 6010B	12/15/11
Arsenic - xx	4.90	U	4.5	NA	Teflon	ICP 6010B	12/15/11
Beryllium - xx	2.49		2	124.5%	Teflon	ICP 6010B	12/15/11
Bismuth	9.80	U	NA	NA	Teflon	ICP 6010B	12/15/11
Boron - xx	352	U	NA	NA	Rock	ICP 6010B	12/15/11
Cadmium - xx	2.45	U	0.18	NA	Teflon	ICP 6010B	12/15/11
Chromium - xx	41.8	U	6.1	NA	80/20 Fusion	ICP 6010B	01/09/12
Cobalt - xx	2.45	U	1.5	NA	Teflon	ICP 6010B	12/15/11
Copper	5.31		5.9	90.0%	Teflon	ICP 6010B	12/15/11
Lanthanum - xx	24.8		33	75.2%	Teflon	ICP 6010B	12/15/11
Lead	12.0		16.4	73.2%	Teflon	ICP 6010B	12/15/11
Lithium - xx	41.9		47	89.1%	Teflon	ICP 6010B	12/15/11
Molybdenum - xx	3.56		3	118.7%	Teflon	ICP 6010B	12/15/11
Nickel	3.73		3.6	103.6%	Teflon	ICP 6010B	12/15/11
Palladium	12.3	U	NA	NA	Teflon	ICP 6010B	12/15/11
Phosphorus	138		157	87.9%	Teflon	ICP 6010B	12/15/11
Potassium	30000		34500	87.0%	Teflon	ICP 6010B	12/15/11
Selenium	4.90	U	NA	NA	Teflon	ICP 6010B	12/15/11
Silver	4.90	U	NA	NA	Teflon	ICP 6010B	12/15/11
Sodium	32400		35900	90.3%	Teflon	ICP 6010B	12/15/11
Strontium	58.3		63.5	91.8%	Teflon	ICP 6010B	12/15/11
Sulfur - xx	123	U	18	NA	Teflon	ICP 6010B	12/15/11
Thallium	12.3	U	0.54	NA	Teflon	ICP 6010B	12/15/11
Thorium	24.5	U	12.4	NA	Teflon	ICP 6010B	12/15/11
Tin	4.90	U	NA	NA	Teflon	ICP 6010B	12/15/11
Tungsten	4.90	U	NA	NA	Teflon	ICP 6010B	12/20/11
Uranium	49.0	U	4.58	NA	Teflon	ICP 6010B	12/15/11
Vanadium - xx	5.92		15	39.5%	Teflon	ICP 6010B	12/15/11
Yttrium - xx	32.7		41	79.8%	Teflon	ICP 6010B	12/15/11
Zinc - xx	44.2		55	80.4%	Teflon	ICP 6010B	12/15/11
Zirconium - xx	259		295	87.8%	80/20 Fusion	ICP 6010B	01/09/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 3 - SRM 688

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 688 - Basalt Rock - LCS11M02DG3TF / 11M02DG5 / 11M02DG2RK

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Antimony - xx	6.19	U	0.3	NA	Teflon	ICP 6010B	12/15/11
Arsenic - xx	4.13	U	2.5	NA	Teflon	ICP 6010B	12/15/11
Beryllium - xx	2.06	U	0.7	NA	Teflon	ICP 6010B	12/15/11
Bismuth	8.26	U	NA	NA	Teflon	ICP 6010B	12/15/11
Boron - xx	331	U	1.3	NA	Rock	ICP 6010B	12/15/11
Cadmium	2.06	U	NA	NA	Teflon	ICP 6010B	12/15/11
Chromium	375		332	113.0%	80/20 Fusion	ICP 6010B	01/09/12
Cobalt - xx	44.3		49.7	89.1%	Teflon	ICP 6010B	12/15/11
Copper - xx	93.8		96	97.7%	Teflon	ICP 6010B	12/15/11
Lanthanum - xx	4.33		5.3	81.7%	Teflon	ICP 6010B	12/15/11
Lead	4.13	U	3.3	NA	Teflon	ICP 6010B	12/15/11
Lithium - xx	11.2		7	160.0%	Teflon	ICP 6010B	12/15/11
Molybdenum	2.06	U	NA	NA	Teflon	ICP 6010B	12/15/11
Nickel - xx	147		150	98.0%	Teflon	ICP 6010B	12/15/11
Palladium	10.3	U	NA	NA	Teflon	ICP 6010B	12/15/11
Phosphorus	584		585	99.8%	Teflon	ICP 6010B	12/15/11
Potassium	1740		1550	112.3%	Teflon	ICP 6010B	12/15/11
Selenium	4.13	U	NA	NA	Teflon	ICP 6010B	12/15/11
Silver	4.13	U	NA	NA	Teflon	ICP 6010B	12/15/11
Sodium	17000		15900	106.9%	Teflon	ICP 6010B	12/15/11
Strontium	178		169	105.3%	Teflon	ICP 6010B	12/15/11
Sulfur - xx	155		117	132.5%	Teflon	ICP 6010B	12/15/11
Thallium	10.3	U	NA	NA	Teflon	ICP 6010B	12/15/11
Thorium	20.6	U	0.33	NA	Teflon	ICP 6010B	12/15/11
Tin	4.13	U	NA	NA	Teflon	ICP 6010B	12/15/11
Tungsten	4.13	U	NA	NA	Teflon	ICP 6010B	12/20/11
Uranium - xx	41.3	U	0.37	NA	Teflon	ICP 6010B	12/15/11
Vanadium - xx	247		250	98.8%	Teflon	ICP 6010B	12/15/11
Yttrium - xx	17.6		17	103.5%	Teflon	ICP 6010B	12/15/11
Zinc - xx	70.5		58	121.6%	Teflon	ICP 6010B	12/15/11
Zirconium - xx	45.5	U	61	NA	80/20 Fusion	ICP 6010B	01/09/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 4 - SRM 278

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 278 - Obsidian Rock - LCS11M06DG2

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Lanthanum - xx	91.9	U	33	NA	Teflon Res	ICP 6010B	01/09/12
Potassium	29200		34500	84.6%	Teflon Res	ICP 6010B	01/09/12
Sodium	36800		35900	102.5%	Teflon Res	ICP 6010B	01/09/12
Strontium	73.8		63.5	116.2%	Teflon Res	ICP 6010B	01/09/12
Vanadium - xx	46.0	U	15	NA	Teflon Res	ICP 6010B	01/09/12
Yttrium - xx	46.0	U	41	NA	Teflon Res	ICP 6010B	01/09/12
Zirconium - xx	183		295	62.0%	80/20 Fus Res	ICP 6010B	01/16/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 4 - SRM 688

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 688 - Basalt Rock - LCS11M06DG3

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Lanthanum - xx	95.6	U	5.3	NA	Teflon Res	ICP 6010B	01/09/12
Potassium	2870	U	1550	NA	Teflon Res	ICP 6010B	01/09/12
Sodium	16500		15900	103.8%	Teflon Res	ICP 6010B	01/09/12
Strontium	180		169	106.5%	Teflon Res	ICP 6010B	01/09/12
Vanadium - xx	269		250	107.6%	Teflon Res	ICP 6010B	01/09/12
Yttrium - xx	47.8	U	17	NA	Teflon Res	ICP 6010B	01/09/12
Zirconium - xx	44.0		61	72.1%	80/20 Fus Res	ICP 6010B	01/16/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 5 - SRM 278

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 278 - Obsidian Rock - LCS12A17KE1 / 12A07KE3

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Aluminum	73800		74900	98.5%	80/20 Fusion	ICP 6010B	01/17/12
Barium - xx	918		1140	80.5%	80/20 Fusion	ICP 6010B	01/17/12
Calcium	7440		7030	105.8%	80/20 Fusion	ICP 6010B	01/17/12
Chromium - xx	48.3	U	6.1	NA	80/20 Fusion	ICP 6010B	01/09/12
Iron	14900		14300	104.2%	80/20 Fusion	ICP 6010B	01/17/12
Magnesium - xx	1520		1390	109.4%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	414		403	102.7%	80/20 Fusion	ICP 6010B	01/17/12
Silicon	343000		341000	100.6%	80/20 Fusion	ICP 6010B	01/17/12
Titanium	1400		1450	96.6%	80/20 Fusion	ICP 6010B	01/17/12
Zirconium - xx	250		295	84.7%	80/20 Fusion	ICP 6010B	01/09/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE

LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 5 - SRM 688

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 688 - Basalt Rock - LCS12A17KE2 / 12A07KE4

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Aluminum	92400		91900	100.5%	80/20 Fusion	ICP 6010B	01/17/12
Barium - xx	185		200	92.5%	80/20 Fusion	ICP 6010B	01/17/12
Calcium - xx	90800		87000	104.4%	80/20 Fusion	ICP 6010B	01/17/12
Chromium	328		332	98.8%	80/20 Fusion	ICP 6010B	01/09/12
Iron	74400		72400	102.8%	80/20 Fusion	ICP 6010B	01/17/12
Magnesium - xx	52000		50700	102.6%	80/20 Fusion	ICP 6010B	01/17/12
Manganese	1350		1290	104.7%	80/20 Fusion	ICP 6010B	01/17/12
Silicon	229000		226000	101.3%	80/20 Fusion	ICP 6010B	01/17/12
Titanium	6970		6930	100.6%	80/20 Fusion	ICP 6010B	01/17/12
Zirconium - xx	49.4	U	61	NA	80/20 Fusion	ICP 6010B	01/09/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 6 - SRM 278

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111109-3

SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 278 - Obsidian Rock - LCS12B08KE1

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Aluminum	75700		74900	101.1%	80/20 Fusion	ICP 6010B	02/09/12
Barium - xx	877		1140	76.9%	80/20 Fusion	ICP 6010B	02/09/12
Calcium	6810		7030	96.9%	80/20 Fusion	ICP 6010B	02/09/12
Iron	13800		14300	96.5%	80/20 Fusion	ICP 6010B	02/09/12
Magnesium - xx	1380		1390	99.3%	80/20 Fusion	ICP 6010B	02/09/12
Manganese	394		403	97.8%	80/20 Fusion	ICP 6010B	02/09/12
Silicon	334000		341000	97.9%	80/20 Fusion	ICP 6010B	02/09/12
Titanium	1400		1450	96.6%	80/20 Fusion	ICP 6010B	02/09/12
Zirconium - xx	253		295	85.8%	80/20 Fusion	ICP 6010B	02/09/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 6 - SRM 688

Lab Name: Southwest Research Institute	Client: Fluor-B&W Portsmouth LLC
Lab Code: SwRI	Project No.: 16526.05.00X
Matrix: Solid	Date Received: NA
Task Order #: 111109-3	SRR #: 45511, 45562, 45629, 45690

Lab System ID: SRM 688 - Basalt Rock - LCS12B08KE2

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Aluminum	93500		91900	101.7%	80/20 Fusion	ICP 6010B	02/09/12
Barium - xx	167		200	83.5%	80/20 Fusion	ICP 6010B	02/09/12
Calcium - xx	83300		87000	95.7%	80/20 Fusion	ICP 6010B	02/09/12
Iron	69600		72400	96.1%	80/20 Fusion	ICP 6010B	02/09/12
Magnesium - xx	48500		50700	95.7%	80/20 Fusion	ICP 6010B	02/09/12
Manganese	1280		1290	99.2%	80/20 Fusion	ICP 6010B	02/09/12
Silicon	225000		226000	99.6%	80/20 Fusion	ICP 6010B	02/09/12
Titanium	6970		6930	100.6%	80/20 Fusion	ICP 6010B	02/09/12
Zirconium - xx	48.4	U	61	NA	80/20 Fusion	ICP 6010B	02/09/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDSB21-07-19.5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO

Date Received: 08/12/11

Task Order #: 111213-14

SRR #: 45412

Lab System ID: 473043

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Oxide	Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	91100		4780	Al2O3	17.217%	80/20 Fusion	ICP 6010B	02/09/12
Antimony	45.4		0.743			Teflon	ICP 6010B	01/26/12
Arsenic	110	N	0.495			Teflon	ICP 6010B	01/29/12
Barium	498		47.8	BaO	0.0556%	80/20 Fusion	ICP 6010B	02/09/12
Beryllium	0.931	N	0.248			Teflon	ICP 6010B	01/29/12
Bismuth	9.90	U	9.9			Teflon	ICP 6010B	02/08/12
Boron	179	U	179			rock	ICP 6010B	01/29/12
Cadmium	1.90	N	0.248			Teflon	ICP 6010B	01/29/12
Calcium	2190		478	CaO	0.306%	80/20 Fusion	ICP 6010B	02/09/12
Chromium	136		47.8			80/20 Fusion	ICP 6010B	02/09/12
Cobalt	1.36		0.248			Teflon	ICP 6010B	01/26/12
Copper	66.1		2.48			Teflon	ICP 6010B	01/26/12
Iron	64000		478	Fe2O3	9.156%	80/20 Fusion	ICP 6010B	02/09/12
Lanthanum	10.2		0.248			Teflon	ICP 6010B	01/29/12
Lead	28.0	N	0.495			Teflon	ICP 6010B	01/29/12
Lithium	31.2		0.495			Teflon	ICP 6010B	01/27/12
Magnesium	7420		478	MgO	1.231%	80/20 Fusion	ICP 6010B	02/09/12
Manganese	58.4		47.8	MnO	0.0075%	80/20 Fusion	ICP 6010B	02/09/12
Molybdenum	520		7.43	MoO3	0.0780%	Combined	ICP 6010B	Combined
Nickel	23.9		2.48			Teflon	ICP 6010B	01/26/12
Palladium	12.4	U	12.4			Teflon	ICP 6010B	01/26/12
Phosphorus	220		99	P2O5	0.0504%	Teflon	ICP 6010B	01/26/12
Potassium	32400		297	K2O	3.902%	Combined	ICP 6010B	Combined
Selenium	11.5	N	0.495			Teflon	ICP 6010B	01/26/12
Silicon	272000		1910	SiO2	58.241%	80/20 Fusion	ICP 6010B	02/09/12
Silver	1.65	N	0.495			Teflon	ICP 6010B	01/29/12
Sodium	1360	N	136	Na2O	0.184%	Combined	ICP 6010B	Combined
Strontium	82.0		4.95			Combined	ICP 6010B	Combined
Sulfur	199		1.24			Teflon	ICP 6010B	01/26/12
Thallium	12.4	U	12.4			Teflon	ICP 6010B	01/26/12
Thorium	32.2	U	32.2			Teflon	ICP 6010B	01/26/12
Tin	6.15		0.495			Teflon	ICP 6010B	01/29/12
Titanium	4530		47.8	TiO2	0.755%	80/20 Fusion	ICP 6010B	02/09/12
Tungsten	2.48	U	2.48			Teflon	ICP 6010B	01/29/12
Uranium	49.5	U	49.5			Teflon	ICP 6010B	02/08/12
Vanadium	1800		47.8	V2O5	0.321%	80/20 Fusion	ICP 6010B	02/09/12
Yttrium	25.8		2.72			Combined	ICP 6010B	Combined
Zinc	107	N	7.43			Teflon	ICP 6010B	01/26/12
Zirconium	107		47.8	ZrO2	0.0145%	80/20 Fusion	ICP 6010B	02/09/12
LOI @ 1000^{o}C	8.61%			SUM	100.13%			

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDSB31-07-2.0

Lab Name: Southwest Research Institute
Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI
Project No.: 16526.05.00X

Matrix: SO
Date Received: 09/01/11

Task Order #: 111213-14
SRR #: 45570

Lab System ID: 474340

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Oxide	Concentration	Prep Method	Instrument	Date Analyzed
Aluminum	69000		4830	Al2O3	13.034%	80/20 Fusion	ICP 6010B	02/09/12
Antimony	1.05		0.747			Teflon	ICP 6010B	01/27/12
Arsenic	17.3	N	0.498			Teflon	ICP 6010B	01/29/12
Barium	450		48.3	BaO	0.0503%	80/20 Fusion	ICP 6010B	02/09/12
Beryllium	1.16	N	0.249			Teflon	ICP 6010B	01/29/12
Bismuth	9.96	U	9.96			Teflon	ICP 6010B	02/08/12
Boron	192	U	192			rock	ICP 6010B	01/29/12
Cadmium	0.249	UN	0.249			Teflon	ICP 6010B	01/29/12
Calcium	854		483	CaO	0.120%	80/20 Fusion	ICP 6010B	02/09/12
Chromium	99.2		48.3			80/20 Fusion	ICP 6010B	02/09/12
Cobalt	6.23		0.249			Teflon	ICP 6010B	01/27/12
Copper	19.7		2.49			Teflon	ICP 6010B	01/26/12
Iron	35600		483	Fe2O3	5.083%	80/20 Fusion	ICP 6010B	02/09/12
Lanthanum	7.92		0.249			Teflon	ICP 6010B	01/29/12
Lead	19.4	N	0.498			Teflon	ICP 6010B	01/29/12
Lithium	67.4		0.498			Teflon	ICP 6010B	01/27/12
Magnesium	3720		483	MgO	0.617%	80/20 Fusion	ICP 6010B	02/09/12
Manganese	202		48.3	MnO	0.0261%	80/20 Fusion	ICP 6010B	02/09/12
Molybdenum	16.0		2.49			Teflon	ICP 6010B	01/26/12
Nickel	20.7		2.49			Teflon	ICP 6010B	01/26/12
Palladium	12.5	U	12.5			Teflon	ICP 6010B	01/26/12
Phosphorus	181		99.6	P2O5	0.0414%	Teflon	ICP 6010B	01/26/12
Potassium	17500		299	K2O	2.103%	Combined	ICP 6010B	Combined
Selenium	2.53	N	0.498			Teflon	ICP 6010B	01/27/12
Silicon	332000		1930	SiO2	71.064%	80/20 Fusion	ICP 6010B	02/09/12
Silver	0.498	UN	0.498			Teflon	ICP 6010B	01/29/12
Sodium	3400	N	137	Na2O	0.459%	Combined	ICP 6010B	Combined
Strontium	69.6		4.98			Combined	ICP 6010B	Combined
Sulfur	69.5		1.25			Teflon	ICP 6010B	01/27/12
Thallium	12.5	U	12.5			Teflon	ICP 6010B	01/26/12
Thorium	32.4	U	32.4			Teflon	ICP 6010B	01/26/12
Tin	8.54		0.498			Teflon	ICP 6010B	01/29/12
Titanium	5950		48.3	TiO2	0.992%	80/20 Fusion	ICP 6010B	02/09/12
Tungsten	2.49	U	2.49			Teflon	ICP 6010B	01/29/12
Uranium	49.8	U	49.8			Teflon	ICP 6010B	02/08/12
Vanadium	144		48.3	V2O5	0.0258%	80/20 Fusion	ICP 6010B	02/09/12
Yttrium	25.0		2.74			Combined	ICP 6010B	Combined
Zinc	57.5	N	7.47			Teflon	ICP 6010B	01/26/12
Zirconium	335		48.3	ZrO2	0.0453%	80/20 Fusion	ICP 6010B	02/09/12
LOI @ 1000°C	6.38%			SUM	100.04%			

SOUTHWEST RESEARCH INSTITUTE
BLANK SUMMARY

Sample ID
Prep Blank 7

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111213-14

SRR #: 45412, 45570

Lab System ID: PB11M14DG1TF / 12B08KE1 / 11M14DG1RK

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Prep Method	Instrument	Date Analyzed
Aluminum	5000	U	5000	80/20 Fusion	ICP 6010B	02/09/12
Antimony	0.750	U	0.750	Teflon	ICP 6010B	01/26/12
Arsenic	0.500	U	0.500	Teflon	ICP 6010B	01/29/12
Barium	50.0	U	50.0	80/20 Fusion	ICP 6010B	02/09/12
Beryllium	0.250	U	0.250	Teflon	ICP 6010B	01/29/12
Bismuth	1.00	U	1.00	Teflon	ICP 6010B	02/08/12
Boron	200	U	200	rock	ICP 6010B	01/29/12
Cadmium	0.250	U	0.250	Teflon	ICP 6010B	01/29/12
Calcium	500	U	500	80/20 Fusion	ICP 6010B	02/09/12
Chromium	50.0	U	50.0	80/20 Fusion	ICP 6010B	02/09/12
Cobalt	0.250	U	0.250	Teflon	ICP 6010B	01/26/12
Copper	0.250	U	0.250	Teflon	ICP 6010B	01/26/12
Iron	500	U	500	80/20 Fusion	ICP 6010B	02/09/12
Lanthanum	0.250	U	0.250	Teflon	ICP 6010B	01/29/12
Lead	0.500	U	0.500	Teflon	ICP 6010B	01/29/12
Lithium	0.500	U	0.500	Teflon	ICP 6010B	01/27/12
Magnesium	500	U	500	80/20 Fusion	ICP 6010B	02/09/12
Manganese	50.0	U	50.0	80/20 Fusion	ICP 6010B	02/09/12
Molybdenum	0.250	U	0.250	Teflon	ICP 6010B	01/26/12
Nickel	0.250	U	0.250	Teflon	ICP 6010B	01/26/12
Palladium	1.25	U	1.25	Teflon	ICP 6010B	01/26/12
Phosphorus	10.0	U	10.0	Teflon	ICP 6010B	01/26/12
Potassium	15.0	U	15.0	Teflon	ICP 6010B	02/09/12
Selenium	0.500	U	0.500	Teflon	ICP 6010B	01/26/12
Silicon	2000	U	2000	80/20 Fusion	ICP 6010B	02/09/12
Silver	0.500	U	0.500	Teflon	ICP 6010B	01/29/12
Sodium	12.5	U	12.5	Teflon	ICP 6010B	01/27/12
Strontium	0.250	U	0.250	Teflon	ICP 6010B	01/26/12
Sulfur	1.25	U	1.25	Teflon	ICP 6010B	01/26/12
Thallium	1.25	U	1.25	Teflon	ICP 6010B	01/26/12
Thorium	3.25	U	3.25	Teflon	ICP 6010B	01/26/12
Tin	0.500	U	0.500	Teflon	ICP 6010B	01/29/12
Titanium	50.0	U	50.0	80/20 Fusion	ICP 6010B	02/09/12
Tungsten	2.50	U	2.50	Teflon	ICP 6010B	01/29/12
Uranium	5.00	U	5.00	Teflon	ICP 6010B	02/08/12
Vanadium	50.0	U	50.0	80/20 Fusion	ICP 6010B	02/09/12
Yttrium	0.250	U	0.250	Teflon	ICP 6010B	01/26/12
Zinc	0.750	U	0.750	Teflon	ICP 6010B	01/26/12
Zirconium	50.0	U	50.0	80/20 Fusion	ICP 6010B	02/09/12

NA - Not Applicable
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE

BLANK SUMMARY

Sample ID
Prep Blank 8

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111213-14

SRR #: 45412, 45570

Lab System ID: PB11M15DG2

Analysis	Sample Result (mg/Kg)	Qualifier	Reporting Limit (mg/Kg)	Prep Method	Instrument	Date Analyzed
Molybdenum	5.00	U	5.00	Teflon Res	ICP 6010B	01/27/12
Potassium	150	U	150	Teflon Res	ICP 6010B	02/09/12
Sodium	125	U	125	Teflon Res	ICP 6010B	01/27/12
Strontium	2.50	U	2.50	Teflon Res	ICP 6010B	01/27/12
Yttrium	2.50	U	2.50	Teflon Res	ICP 6010B	01/27/12

NA - Not Applicable
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 3

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111213-14

SRR #: 45412, 45570

Lab System ID: LCS11M14DG1

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Antimony	45.8		50.0	91.6%	Teflon	ICP 6010B	01/26/12
Arsenic	185		200	92.5%	Teflon	ICP 6010B	01/29/12
Beryllium	4.50		5.00	90.0%	Teflon	ICP 6010B	01/29/12
Bismuth	1.00	U	NA	NA	Teflon	ICP 6010B	02/08/12
Cadmium	4.57		5.00	91.4%	Teflon	ICP 6010B	01/29/12
Cobalt	44.6		50.0	89.2%	Teflon	ICP 6010B	01/26/12
Copper	21.7		25.0	86.8%	Teflon	ICP 6010B	01/26/12
Lanthanum	0.250	U	NA	NA	Teflon	ICP 6010B	01/29/12
Lead	42.6		50.0	85.2%	Teflon	ICP 6010B	01/29/12
Lithium	0.500	U	NA	NA	Teflon	ICP 6010B	01/27/12
Molybdenum	0.250	U	NA	NA	Teflon	ICP 6010B	01/26/12
Nickel	44.0		50.0	88.0%	Teflon	ICP 6010B	01/26/12
Palladium	1.25	U	NA	NA	Teflon	ICP 6010B	01/26/12
Phosphorus	10.0	U	NA	NA	Teflon	ICP 6010B	01/26/12
Potassium	886		1000	88.6%	Teflon	ICP 6010B	02/09/12
Selenium	191		200	95.5%	Teflon	ICP 6010B	01/26/12
Silver	4.67		5.00	93.4%	Teflon	ICP 6010B	01/29/12
Sodium	934		1000	93.4%	Teflon	ICP 6010B	01/27/12
Strontium	0.250	U	NA	NA	Teflon	ICP 6010B	01/26/12
Sulfur	2.76		NA	NA	Teflon	ICP 6010B	01/26/12
Thallium	185		200	92.5%	Teflon	ICP 6010B	01/26/12
Thorium	3.25	U	NA	NA	Teflon	ICP 6010B	01/26/12
Tin	0.500	U	NA	NA	Teflon	ICP 6010B	01/29/12
Tungsten	2.50	U	NA	NA	Teflon	ICP 6010B	01/29/12
Uranium	5.00	U	NA	NA	Teflon	ICP 6010B	02/08/12
Yttrium	0.250	U	NA	NA	Teflon	ICP 6010B	01/26/12
Zinc	47.3		50.0	94.6%	Teflon	ICP 6010B	01/26/12

NA - Not Applicable

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 7 - SRM 278

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111213-14

SRR #: 45412, 45570

Lab System ID: SRM 278 - Obsidian Rock - LCS11M14DG1 / 11M14DG2 / 12B08KE1

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Aluminum	75700		74900	101.1%	80/20 Fusion	ICP 6010B	02/09/12
Antimony - xx	6.44	U	1.5	NA	Teflon	ICP 6010B	01/26/12
Arsenic - xx	4.29	U	4.5	NA	Teflon	ICP 6010B	01/29/12
Barium - xx	877		1140	76.9%	80/20 Fusion	ICP 6010B	02/09/12
Beryllium - xx	2.20		2	NA	Teflon	ICP 6010B	01/29/12
Bismuth	8.58	U	NA	NA	Teflon	ICP 6010B	02/08/12
Boron - xx	194	U	NA	NA	rock	ICP 6010B	01/29/12
Cadmium - xx	2.15	U	0.18	NA	Teflon	ICP 6010B	01/29/12
Calcium	6810		7030	96.9%	80/20 Fusion	ICP 6010B	02/09/12
Chromium - xx	48.6	U	6.1	NA	80/20 Fusion	ICP 6010B	02/09/12
Cobalt - xx	2.15	U	1.5	NA	Teflon	ICP 6010B	01/26/12
Copper	5.22		5.9	88.5%	Teflon	ICP 6010B	01/26/12
Iron	13800		14300	96.5%	80/20 Fusion	ICP 6010B	02/09/12
Lanthanum - xx	26.3		33	79.7%	Teflon	ICP 6010B	01/29/12
Lead	14.8		16.4	90.2%	Teflon	ICP 6010B	01/29/12
Lithium - xx	44.0		47	93.6%	Teflon	ICP 6010B	01/27/12
Magnesium - xx	1380		1390	99.3%	80/20 Fusion	ICP 6010B	02/09/12
Manganese	394		403	97.8%	80/20 Fusion	ICP 6010B	02/09/12
Molybdenum - xx	3.60		3	120.0%	Teflon	ICP 6010B	01/26/12
Nickel	3.96		3.6	110.0%	Teflon	ICP 6010B	01/26/12
Palladium	10.7	U	NA	NA	Teflon	ICP 6010B	01/26/12
Phosphorus	144		157	91.7%	Teflon	ICP 6010B	01/26/12
Potassium	29900		34500	86.7%	Teflon	ICP 6010B	02/09/12
Selenium	4.29	U	NA	NA	Teflon	ICP 6010B	01/26/12
Silicon	334000		341000	97.9%	80/20 Fusion	ICP 6010B	02/09/12
Silver	4.29	U	NA	NA	Teflon	ICP 6010B	01/29/12
Sodium	31400		35900	87.5%	Teflon	ICP 6010B	01/27/12
Strontium	65.4		63.5	103.0%	Teflon	ICP 6010B	01/26/12
Sulfur - xx	23.7		18	131.7%	Teflon	ICP 6010B	01/26/12
Thallium	10.7	U	0.54	NA	Teflon	ICP 6010B	01/26/12
Thorium	27.9	U	12.4	NA	Teflon	ICP 6010B	01/26/12
Tin	4.29	U	NA	NA	Teflon	ICP 6010B	01/29/12
Titanium	1400		1450	96.6%	80/20 Fusion	ICP 6010B	02/09/12
Tungsten	21.5	U	NA	NA	Teflon	ICP 6010B	01/29/12
Uranium	42.9	U	4.58	NA	Teflon	ICP 6010B	02/08/12
Vanadium - xx	48.6	U	15	NA	80/20 Fusion	ICP 6010B	02/09/12
Yttrium - xx	32.9		41	80.2%	Teflon	ICP 6010B	01/26/12
Zinc - xx	51.0		55	92.7%	Teflon	ICP 6010B	01/26/12
Zirconium - xx	253		295	85.8%	80/20 Fusion	ICP 6010B	02/09/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 7 - SRM 688

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111213-14

SRR #: 45412, 45570

Lab System ID: SRM 688 - Basalt Rock - LCS11M14DG2 / 11M14DG3 / 12B08KE2

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Aluminum	93500		91900	101.7%	80/20 Fusion	ICP 6010B	02/09/12
Antimony - xx	7.12	U	0.3	NA	Teflon	ICP 6010B	01/26/12
Arsenic - xx	4.74	U	2.5	NA	Teflon	ICP 6010B	01/29/12
Barium - xx	167		200	83.5%	80/20 Fusion	ICP 6010B	02/09/12
Beryllium - xx	2.37	U	0.7	NA	Teflon	ICP 6010B	01/29/12
Bismuth	9.49	U	NA	NA	Teflon	ICP 6010B	02/08/12
Boron - xx	173	U	25	NA	rock	ICP 6010B	01/29/12
Cadmium	2.37	U	NA	NA	Teflon	ICP 6010B	01/29/12
Calcium - xx	83300		87000	95.7%	80/20 Fusion	ICP 6010B	02/09/12
Chromium	341		332	102.7%	80/20 Fusion	ICP 6010B	02/09/12
Cobalt - xx	42.9		49.7	86.3%	Teflon	ICP 6010B	01/26/12
Copper - xx	85.4		96	89.0%	Teflon	ICP 6010B	01/26/12
Iron	69600		72400	96.1%	80/20 Fusion	ICP 6010B	02/09/12
Lanthanum - xx	5.34		5.3	100.8%	Teflon	ICP 6010B	01/29/12
Lead	4.74	U	3.3	NA	Teflon	ICP 6010B	01/29/12
Lithium - xx	11.1		7	158.6%	Teflon	ICP 6010B	01/27/12
Magnesium - xx	48500		50700	95.7%	80/20 Fusion	ICP 6010B	02/09/12
Manganese	1280		1290	99.2%	80/20 Fusion	ICP 6010B	02/09/12
Molybdenum	2.37	U	NA	NA	Teflon	ICP 6010B	01/26/12
Nickel - xx	149		150	99.3%	Teflon	ICP 6010B	01/26/12
Palladium	11.9	U	NA	NA	Teflon	ICP 6010B	01/26/12
Phosphorus	556		585	95.0%	Teflon	ICP 6010B	01/26/12
Potassium	1360		1550	87.7%	Teflon	ICP 6010B	02/09/12
Selenium	4.74	U	NA	NA	Teflon	ICP 6010B	01/26/12
Silicon	225000		226000	99.6%	80/20 Fusion	ICP 6010B	02/09/12
Silver	4.74	U	NA	NA	Teflon	ICP 6010B	01/29/12
Sodium	14200		15900	89.3%	Teflon	ICP 6010B	01/27/12
Strontium	175		169	103.6%	Teflon	ICP 6010B	01/26/12
Sulfur - xx	119		117	101.7%	Teflon	ICP 6010B	01/26/12
Thallium	11.9	U	NA	NA	Teflon	ICP 6010B	01/26/12
Thorium	30.8	U	0.33	NA	Teflon	ICP 6010B	01/26/12
Tin	7.56		NA	NA	Teflon	ICP 6010B	01/29/12
Titanium	6970		6930	100.6%	80/20 Fusion	ICP 6010B	02/09/12
Tungsten	23.7	U	NA	NA	Teflon	ICP 6010B	01/29/12
Uranium - xx	47.4	U	0.37	NA	Teflon	ICP 6010B	02/08/12
Vanadium - xx	256		250	102.4%	80/20 Fusion	ICP 6010B	02/09/12
Yttrium - xx	16.6		17	97.6%	Teflon	ICP 6010B	01/26/12
Zinc - xx	71.3		58	122.9%	Teflon	ICP 6010B	01/26/12
Zirconium - xx	48.4	U	61	NA	80/20 Fusion	ICP 6010B	02/09/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 8 - SRM 278

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111213-14

SRR #: 45412, 45570

Lab System ID: SRM 278 - Obsidian Rock - LCS11M15DG3

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Molybdenum - xx	97.5	U	3	NA	Teflon Res	ICP 6010B	01/27/12
Potassium	27100		34500	78.6%	Teflon Res	ICP 6010B	02/09/12
Sodium	32700		35900	91.1%	Teflon Res	ICP 6010B	01/27/12
Strontium	72.4		63.5	114.0%	Teflon Res	ICP 6010B	01/27/12
Yttrium - xx	48.7	U	41	NA	Teflon Res	ICP 6010B	01/27/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 8 - SRM 688

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: Solid

Date Received: NA

Task Order #: 111213-14

SRR #: 45412, 45570

Lab System ID: SRM 688 - Basalt Rock - LCS11M15DG4

Analysis	Sample Result (mg/Kg)	Qualifier	True Value (mg/Kg)	Recovery	Prep Method	Instrument	Date Analyzed
Molybdenum	91.6	U	NA	NA	Teflon Res	ICP 6010B	01/27/12
Potassium	2750	U	1550	NA	Teflon Res	ICP 6010B	02/09/12
Sodium	14800		15900	93.1%	Teflon Res	ICP 6010B	01/27/12
Strontium	181		169	107.1%	Teflon Res	ICP 6010B	01/27/12
Yttrium - xx	45.8	U	17	NA	Teflon Res	ICP 6010B	01/27/12

NA - Not Applicable
xx - True Values listed are reference values only - not certified values.

Appendix B

TIC/TOC, Bulk & Particle Density and Surface Area Results

Client: Fluor-B&W Portsmouth LLC
SDG: 473757
SwRI Project Number: 16526.05.00X
SwRI Task Order Number: 111109-3, 111213-14

Samples were analyzed for the following:

TIC/TOC – SW 846 9060M
Particle Density – MOSA Chapter 14M
Bulk Density – MOSA Chapter 13
BET Surface Area – MOSA Chapter 16

QC:

All applicable procedure blanks were less than the reporting limit, and all laboratory control samples were within 80-120%. Sample duplicate RPDs were within 20% with the exception of the TIC. The TIC's 200% RPD resulted from one result being less than the reporting limit and the other result was two times higher than the reporting limit. Matrix spike is only applicable to the TOC analysis; the recovery was 127%.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature. This report shall not be reproduced except in full without the written approval of SwRI."

Group Leader

09/25/12
Date

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDSB02-07-24.5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO

Date Received: 08/25/11

Task Order #: 111109-3

SRR #: 45511

Lab System ID: 473757

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	1233	U	1233	mg/kg	12/14/11	SW846 9060M
TOC	24300		1102	mg/kg	12/14/11	SW846 9060M
Particle Density	2.51		---	g/mL	01/10/12	MOSA Ch14-3.2
Bulk Density	1.682		---	g/mL	01/10/12	MOSA Ch13M
BET Surface Area	8.398		---	m^2/g	12/19/11	MOSA Ch16

SOUTHWEST RESEARCH INSTITUTE

DUPLICATE SUMMARY

Sample ID
WDSB02-07-24.5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO

Date Received: 08/25/11

Task Order #: 111109-3

SRR #: 45511

Lab System ID: 473757D

Analysis	Duplicate Result	Q	RPD	Units	Date Analyzed	Method
TIC	2350		200%	mg/kg	03/02/12	SW846 9060M
TOC	22500		7.69%	mg/kg	12/14/11	SW846 9060M

SOUTHWEST RESEARCH INSTITUTE

MATRIX SPIKE SUMMARY

Sample ID
WDSB02-07-24.5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO

Date Received: 08/25/11

Task Order #: 111109-3

SRR #: 45511

Lab System ID: 473757S

Analysis	Spike Result	Q	Spike Added	Recovery	Units	Date Analyzed	Method
TIC	NA		NA	NA	NA	NA	NA
TOC	40300		12600	127%	mg/kg	12/14/11	SW846 9060M

NA - Not Applicable.

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDSB29-07-4.5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO

Date Received: 08/31/11

Task Order #: 111109-3

SRR #: 45562

Lab System ID: 474302

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	385	U	385	mg/kg	12/14/11	SW846 9060M
TOC	2013		384	mg/kg	12/05/11	SW846 9060M
Particle Density	2.36		---	g/mL	01/10/12	MOSA Ch14-3.2
Bulk Density	1.428		---	g/mL	01/10/12	MOSA Ch13M
BET Surface Area	25.1309		---	m^2/g	12/19/11	MOSA Ch16

SOUTHWEST RESEARCH INSTITUTE

DUPLICATE SUMMARY

Sample ID

WDSB29-07-4.5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO

Date Received: 08/31/11

Task Order #: 111109-3

SRR #: 45562

Lab System ID: 474302D

Analysis	Duplicate Result	Q	RPD	Units	Date Analyzed	Method
TIC	388	U	0.00%	mg/kg	12/14/11	SW846 9060M
TOC	1835		9.25%	mg/kg	12/05/11	SW846 9060M
Particle Density	2.34		0.85%	g/mL	01/10/12	MOSA Ch14-3.2

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW04B-07-BE10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/20/11

Task Order #: 111109-3

SRR #: 45690

Lab System ID: 475304

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	520		220	mg/kg	12/14/11	SW846 9060M
TOC	3880		214	mg/kg	12/06/11	SW846 9060M
BET Surface Area	1.5015		---	m^2/g	12/19/11	MOSA Ch16

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW04B-07-CU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/20/11

Task Order #: 111109-3

SRR #: 45690

Lab System ID: 475305

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	603	U	603	mg/kg	12/14/11	SW846 9060M
TOC	11750		391	mg/kg	12/05/11	SW846 9060M
BET Surface Area	12.1175		---	m^2/g	12/19/11	MOSA Ch16

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW04B-07-SU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/20/11

Task Order #: 111109-3

SRR #: 45690

Lab System ID: 475306

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	9800		5175	mg/kg	12/14/11	SW846 9060M
TOC	93700		2433	mg/kg	12/14/11	SW846 9060M
BET Surface Area	9.7025		---	m^2/g	03/12/12	MOSA Ch16

NOTE: Sample was oil shale; therefore, samples were heated to 600^{o}C to remove carbonaceous material prior to BET analyses.

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW03B-07-BE10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/13/11

Task Order #: 111109-3

SRR #: 45629

Lab System ID: 475582

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	1655		419	mg/kg	12/14/11	SW846 9060M
TOC	6730		195	mg/kg	12/06/11	SW846 9060M
BET Surface Area	1.3311		---	m^2/g	12/12/11	MOSA Ch16

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW03B-07-CU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/13/11

Task Order #: 111109-3

SRR #: 45629

Lab System ID: 475583

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	585	U	585	mg/kg	12/14/11	SW846 9060M
TOC	12700		403	mg/kg	12/05/11	SW846 9060M
BET Surface Area	12.4262		---	m^2/g	12/12/11	MOSA Ch16

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

Sample ID
WDMW03B-07-SU10

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: BR

Date Received: 09/13/11

Task Order #: 111109-3

SRR #: 45629

Lab System ID: 475584

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	11550		5475	mg/kg	12/14/11	SW846 9060M
TOC	97950		3392	mg/kg	03/02/12	SW846 9060M
BET Surface Area	8.4987		---	m^2/g	03/12/12	MOSA Ch16

NOTE: Sample was oil shale; therefore, samples were heated to 600°C to remove carbonaceous material prior to BET analyses.

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

Sample ID
WDSB21-07-19.5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO

Date Received: 08/12/11

Task Order #: 111213-14

SRR #: 45412

Lab System ID: 473043

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	970	U	970	mg/kg	12/14/11	SW846 9060M
TOC	10900		867	mg/kg	12/14/11	SW846 9060M
Particle Density	2.32		---	g/mL	01/10/12	MOSA Ch14-3.2
Bulk Density	1.235		---	g/mL	01/10/12	MOSA Ch13M
BET Surface Area	27.9344		---	m^2/g	12/16/11	MOSA Ch16

SOUTHWEST RESEARCH INSTITUTE

DUPLICATE SUMMARY

Sample ID
WDSB21-07-19.5

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO

Date Received: 08/12/11

Task Order #: 111213-14

SRR #: 45412

Lab System ID: 473043D

Analysis	Duplicate Result	Q	RPD	Units	Date Analyzed	Method
Bulk Density	1.246		0.89%	g/mL	01/10/12	MOSA Ch13M

SOUTHWEST RESEARCH INSTITUTE
SAMPLE ANALYSIS DATA SHEET

Sample ID
WDSB31-07-2.0

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO

Date Received: 09/01/11

Task Order #: 111213-14

SRR #: 45570

Lab System ID: 474340

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	440	U	440	mg/kg	12/14/11	SW846 9060M
TOC	7885		438	mg/kg	12/14/11	SW846 9060M
Particle Density	2.47		---	g/mL	01/10/12	MOSA Ch14-3.2
Bulk Density	1.291		---	g/mL	01/10/12	MOSA Ch13M
BET Surface Area	41.2848		---	m^2/g	12/16/11	MOSA Ch16

SOUTHWEST RESEARCH INSTITUTE

BLANK SUMMARY

Sample ID
Prep Blank

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO / BR

Date Received: NA

Task Order #: 111109-3, 111213-14

SRR #: 45511, 45562, 45629, 45690, 45412, 45570

Lab System ID: ICB

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	NA		NA	NA	NA	NA
TOC	100	U	100	mg/L	12/05/11	SW846 9060M
Particle Density	NA		NA	NA	NA	NA
Bulk Density	NA		NA	NA	NA	NA
BET Surface Area	NA		NA	NA	NA	NA

NA - Not Applicable

Comments:
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO / BR

Date Received: NA

Task Order #: 111109-3, 111213-14

SRR #: 45511, 45562, 45629, 45690, 45412, 45570

Lab System ID: LCS

Analysis	Sample Result	Q	True Value	Recovery	Units	Date Analyzed	Method
TIC	NA		NA	NA	NA	NA	NA
TOC	3790		3200	118%	mg/kg	12/05/11	TOC 9060M
Particle Density	0.998		0.998	100%	g/mL	01/10/12	MOSA Ch14-3.2
Bulk Density	1.00		1.00	100%	g/mL	01/10/12	MOSA Ch13M
BET Surface Area	0.7354		0.780	94.3%	m^2/g	12/16/11	MOSA Ch16

NA - Not Applicable.

SOUTHWEST RESEARCH INSTITUTE
BLANK SUMMARY

Sample ID
Prep Blank 2

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO / BR

Date Received: NA

Task Order #: 111109-3, 111213-14

SRR #: 45511, 45562, 45629, 45690, 45412, 45570

Lab System ID: ICB

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	NA		NA	NA	NA	NA
TOC	100	U	100	mg/L	12/14/11	SW846 9060M

NA - Not Applicable

Comments:
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE

LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 2

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO / BR

Date Received: NA

Task Order #: 111109-3, 111213-14

SRR #: 45511, 45562, 45629, 45690, 45412, 45570

Lab System ID: LCS

Analysis	Sample Result	Q	True Value	Recovery	Units	Date Analyzed	Method
TIC	NA		NA	NA	NA	NA	NA
TOC	3950		3200	123%	mg/kg	12/14/11	TOC 9060M

NA - Not Applicable.

SOUTHWEST RESEARCH INSTITUTE

BLANK SUMMARY

Sample ID
Prep Blank 3

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO / BR

Date Received: NA

Task Order #: 111109-3, 111213-14

SRR #: 45511, 45562, 45629, 45690, 45412, 45570

Lab System ID: ICB

Analysis	Sample Result	Q	Reporting Limit	Units	Date Analyzed	Method
TIC	NA		NA	NA	NA	NA
TOC	100	U	100	mg/L	03/02/12	SW846 9060M

NA - Not Applicable

Comments:
"U" in the Q (qualifier) column indicates undetected.

SOUTHWEST RESEARCH INSTITUTE
LABORATORY CONTROL SAMPLE

Sample ID
Lab Control 3

Lab Name: Southwest Research Institute

Client: Fluor-B&W Portsmouth LLC

Lab Code: SwRI

Project No.: 16526.05.00X

Matrix: SO / BR

Date Received: NA

Task Order #: 111109-3, 111213-14

SRR #: 45511, 45562, 45629, 45690, 45412, 45570

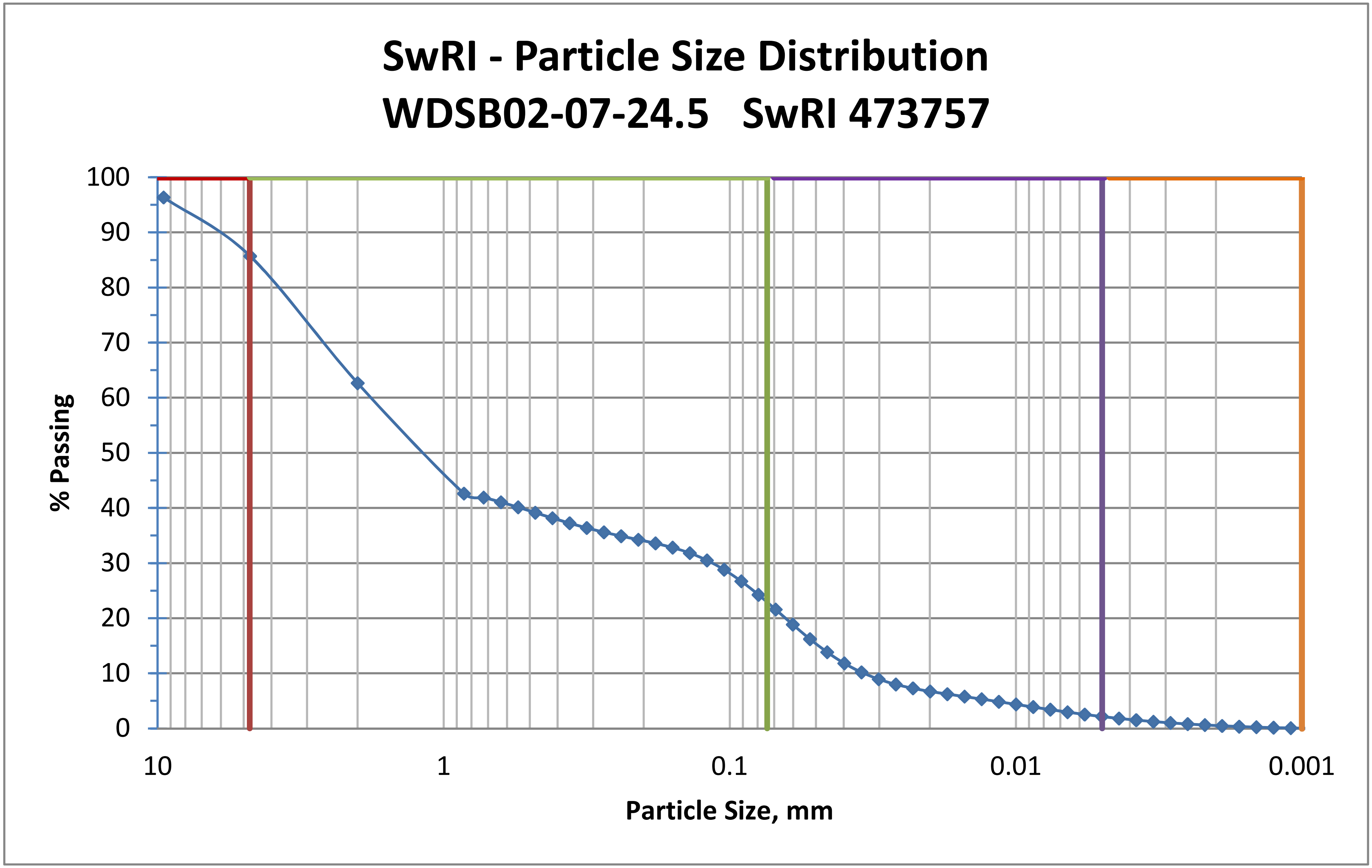
Lab System ID: LCS

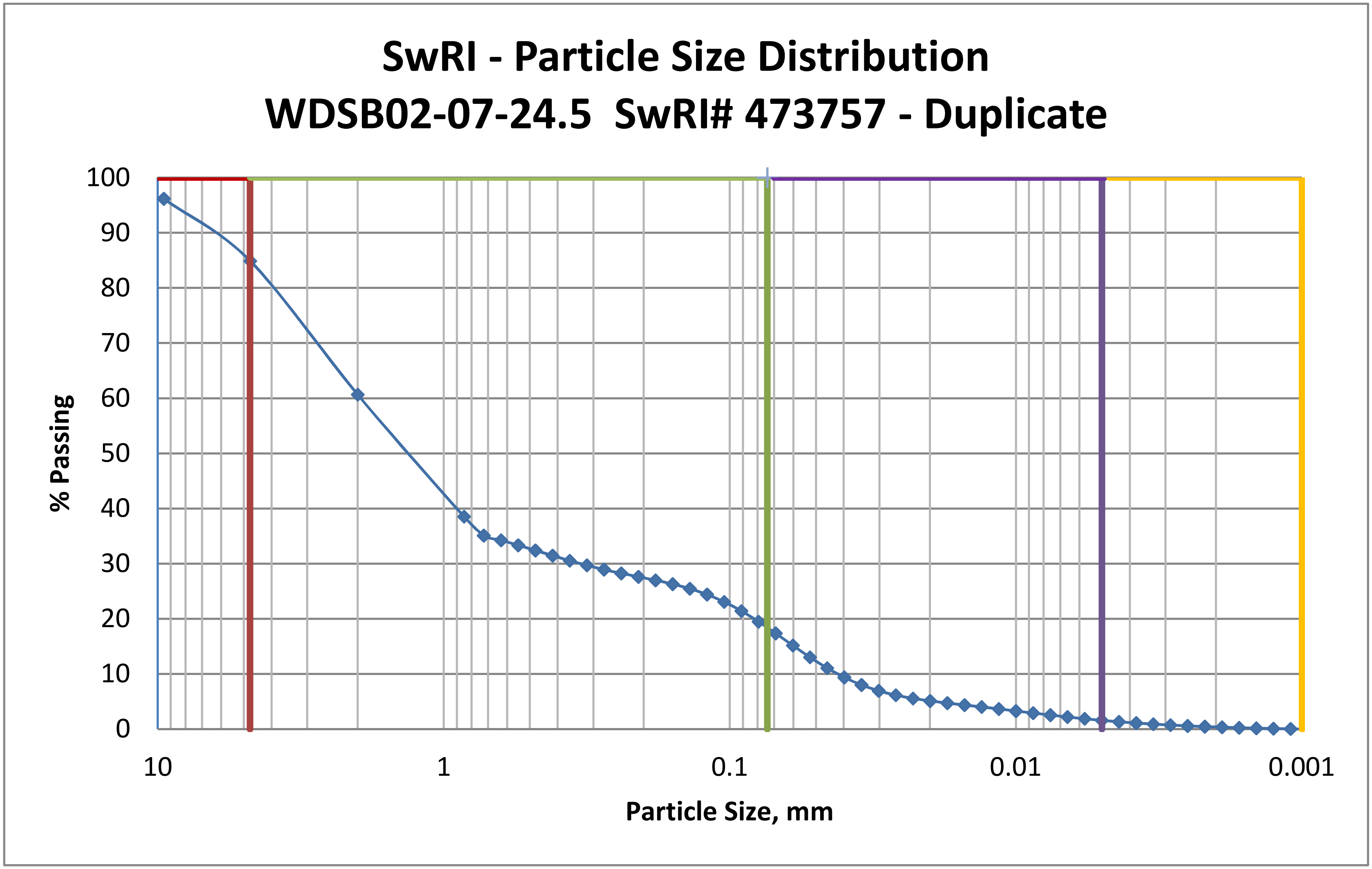
Analysis	Sample Result	Q	True Value	Recovery	Units	Date Analyzed	Method
TIC	NA		NA	NA	NA	NA	NA
TOC	3320		2980	111%	mg/kg	03/02/12	TOC 9060M

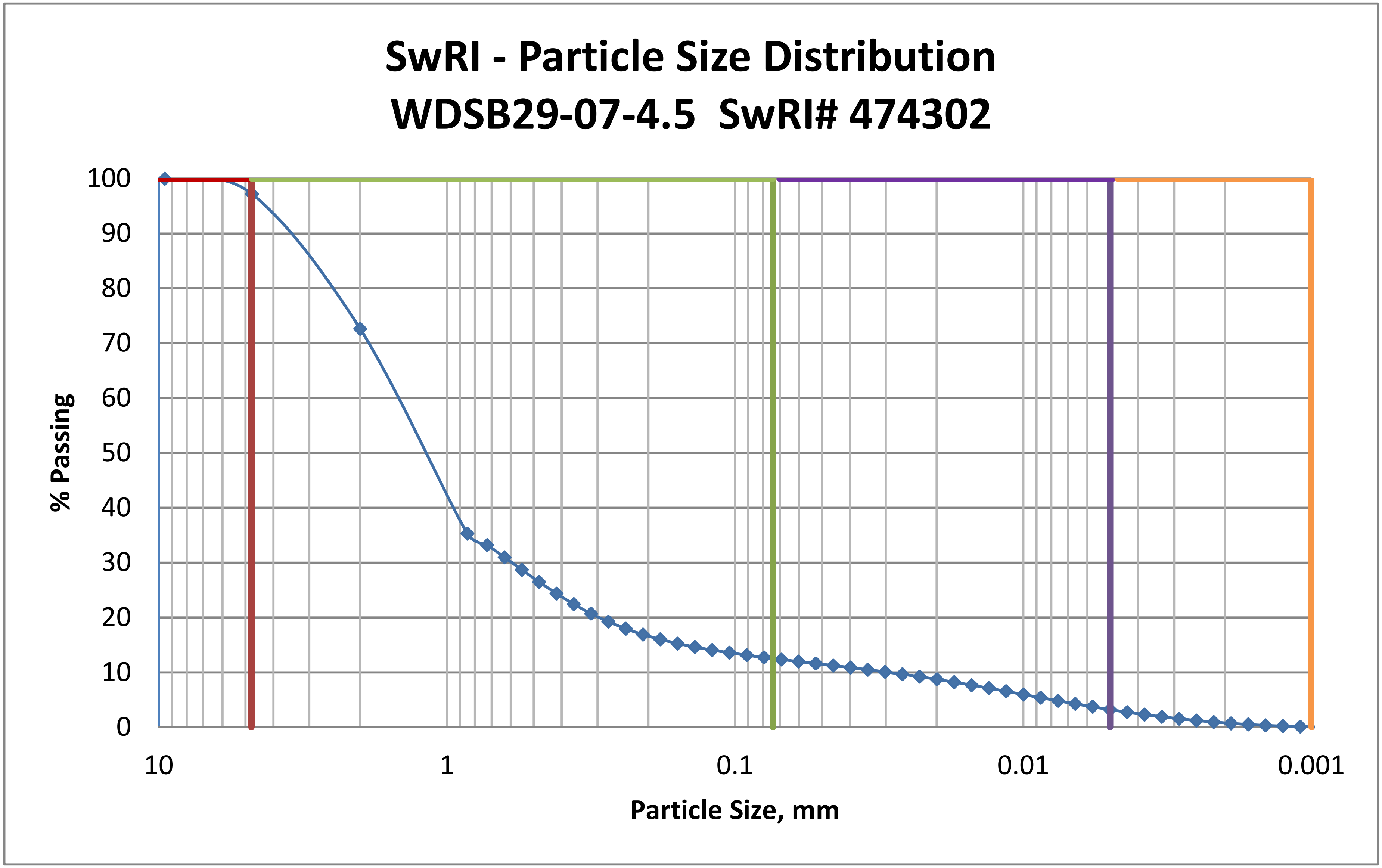
NA - Not Applicable.

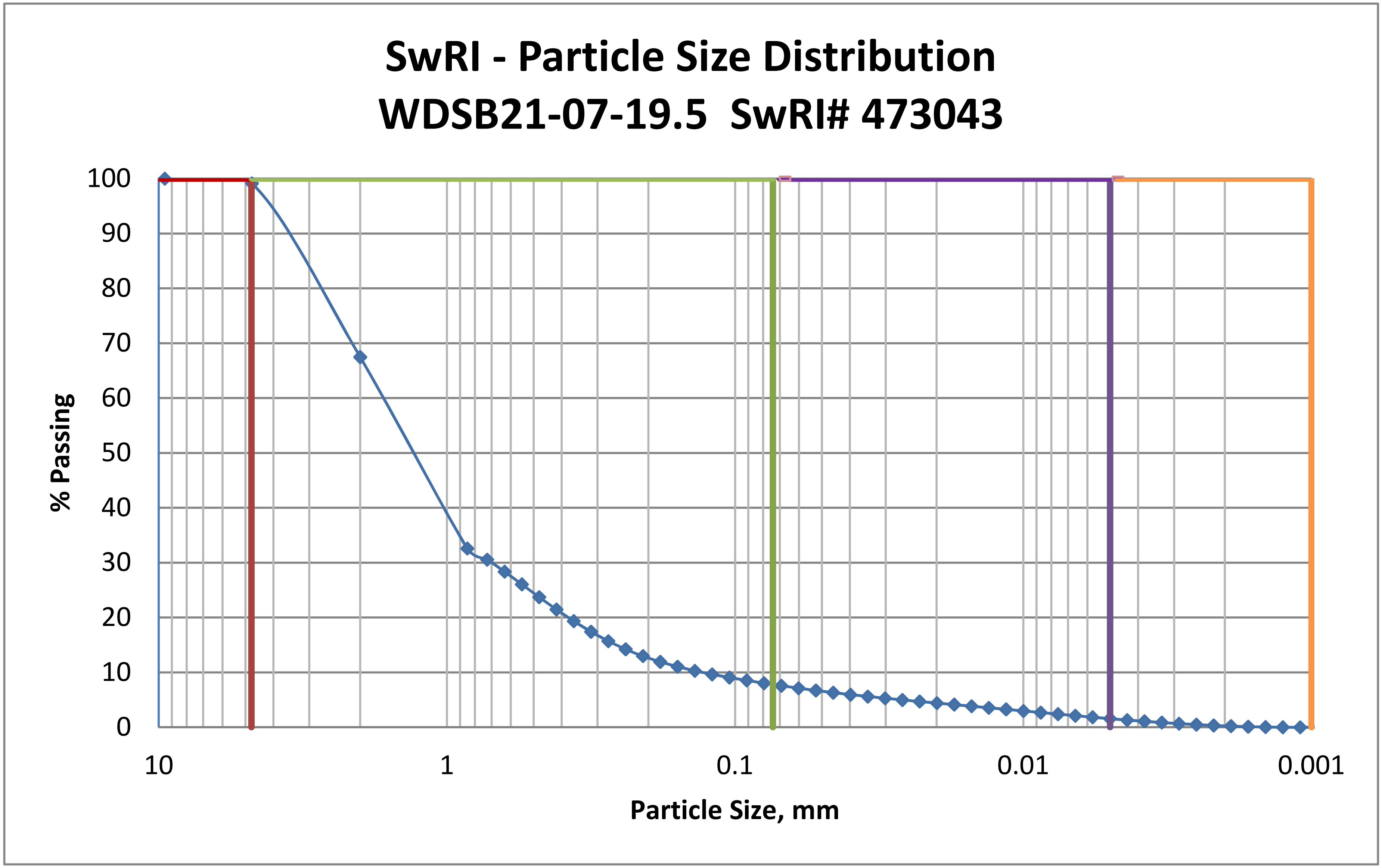
Appendix C

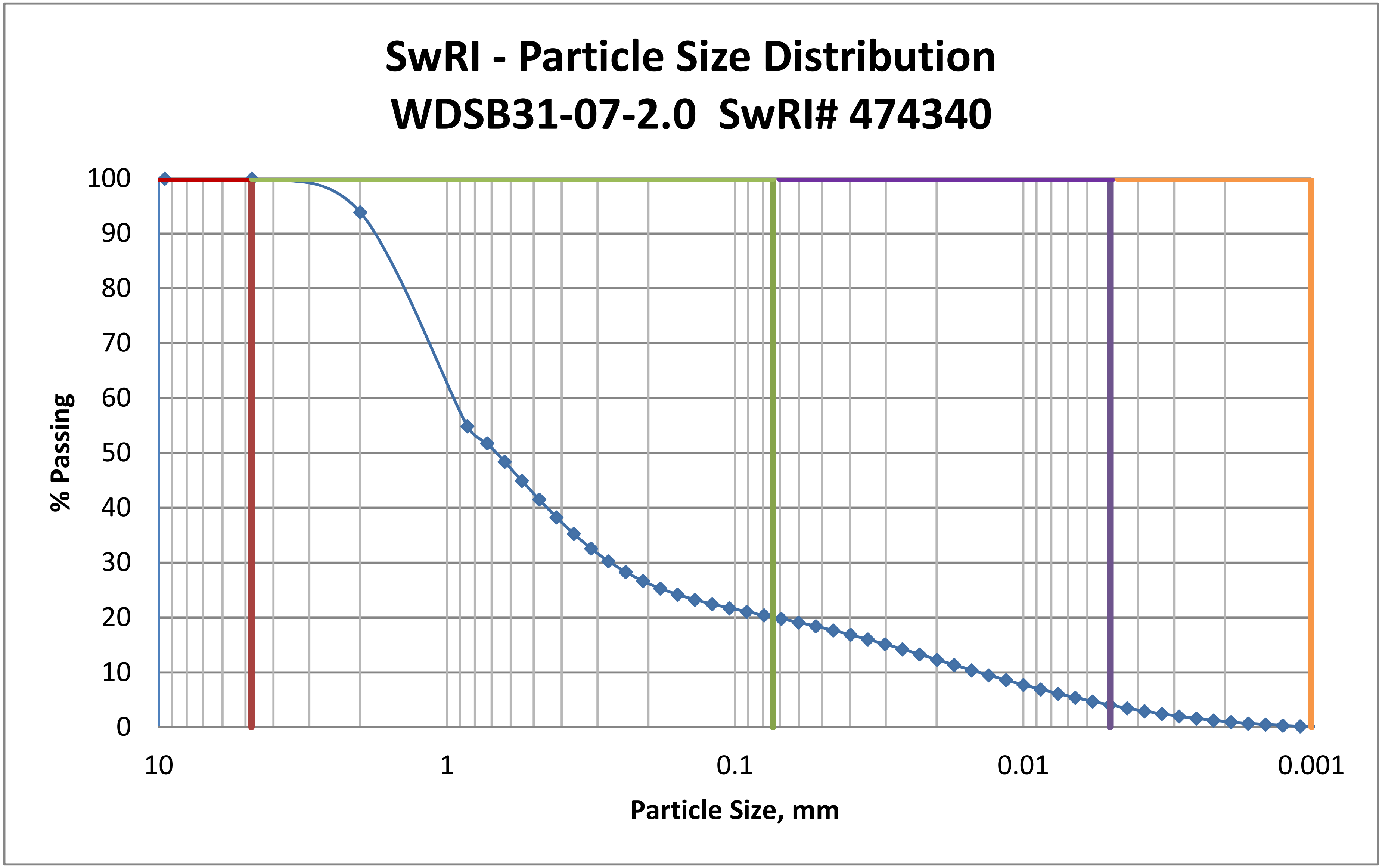
Particle Size Results


SwRI - Particle Size Distribution
WDSB02-07-24.5 SwRI 473757
% Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
0.001
Particle Size, mm


SwRI - Particle Size Distribution
WDSB02-07-24.5 SwRI# 473757 - Duplicate
% Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
0.001
Particle Size, mm

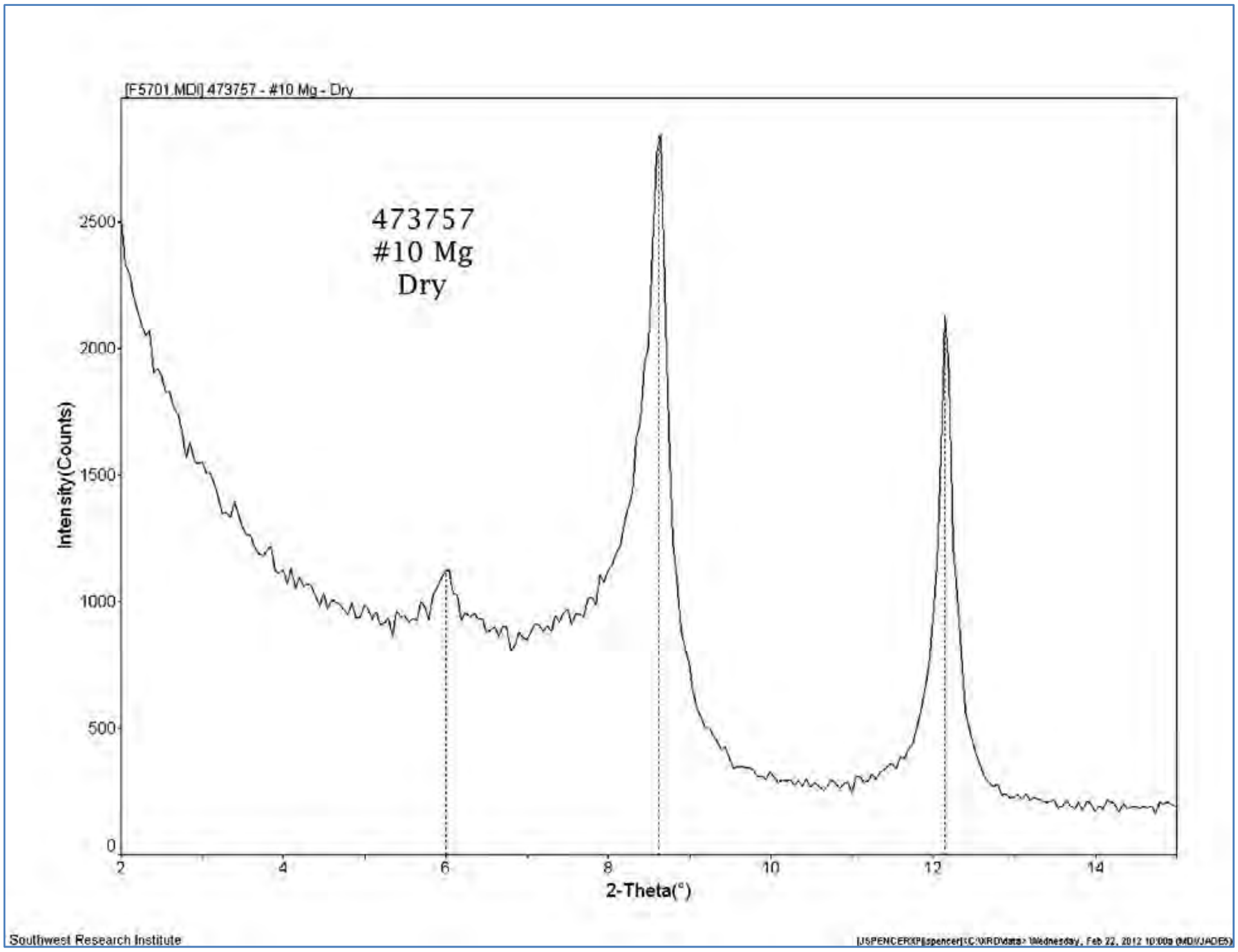

SwRI - Particle Size Distribution
WDSB29-07-4.5 SwRI# 474302
% Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
0.001
Particle Size, mm


SwRI - Particle Size Distribution
WDSB21-07-19.5 SwRI# 473043
% Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
0.001
Particle Size, mm


SwRI - Particle Size Distribution
WDSB31-07-2.0 SwRI# 474340
% Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
0.001
Particle Size, mm

Appendix D

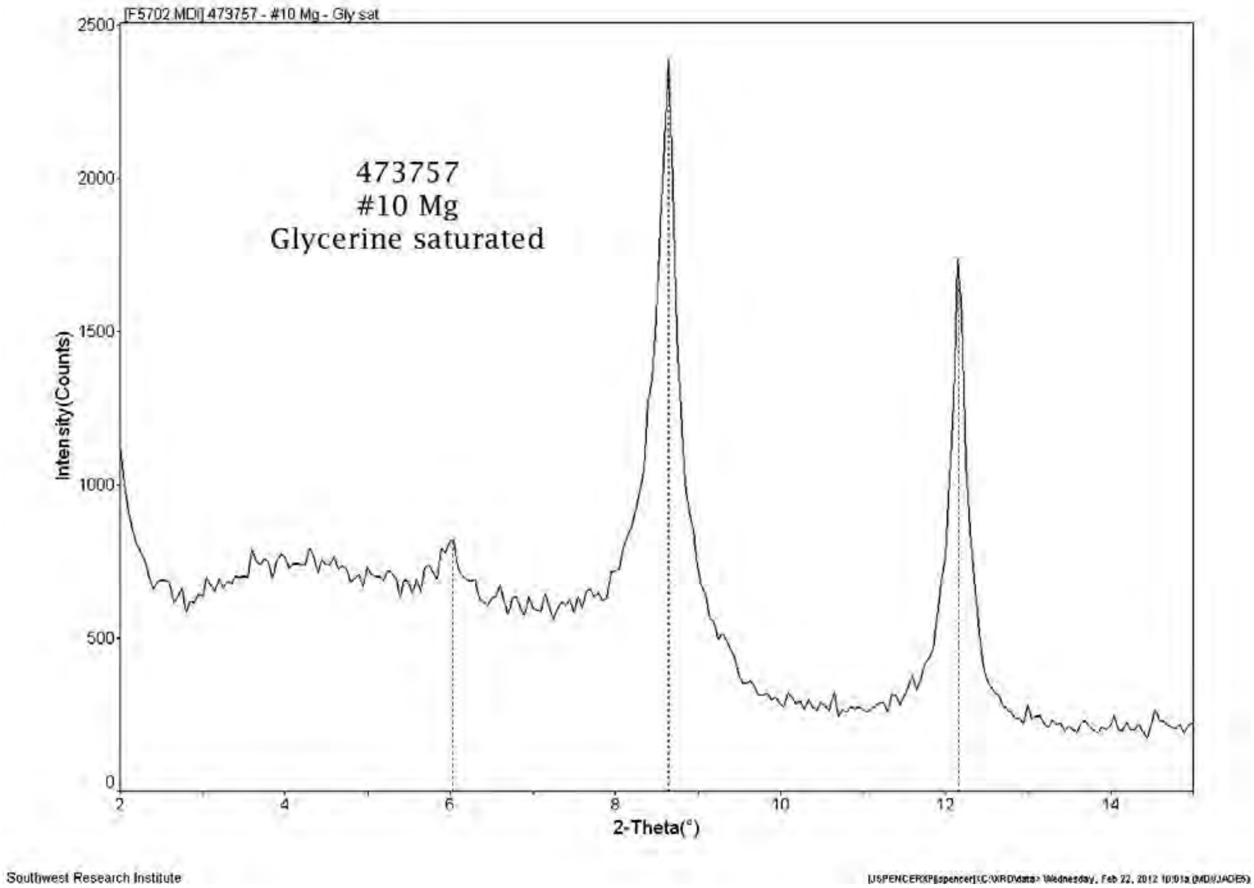
XRD Patterns for Clay Mineralogy



```
JADE: Peak Search Report (3 Peaks, Max P/N = 23.2)
DATE: Wednesday, Feb 22, 2012 10:00a
FILE: [F5701.MDI] 473757 - #10 Mg - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2847, 02/15/12 15:23
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%    Area     I%   FWHM  XS(A)
  6.004  14.7078  891     230    9.3    1853    6.1  0.322    260
  8.619  10.2503  366    2481  100.0   30190  100.0  0.487    167
 12.146   7.2808  254    1880   75.8   12087   40.0  0.257    337
```

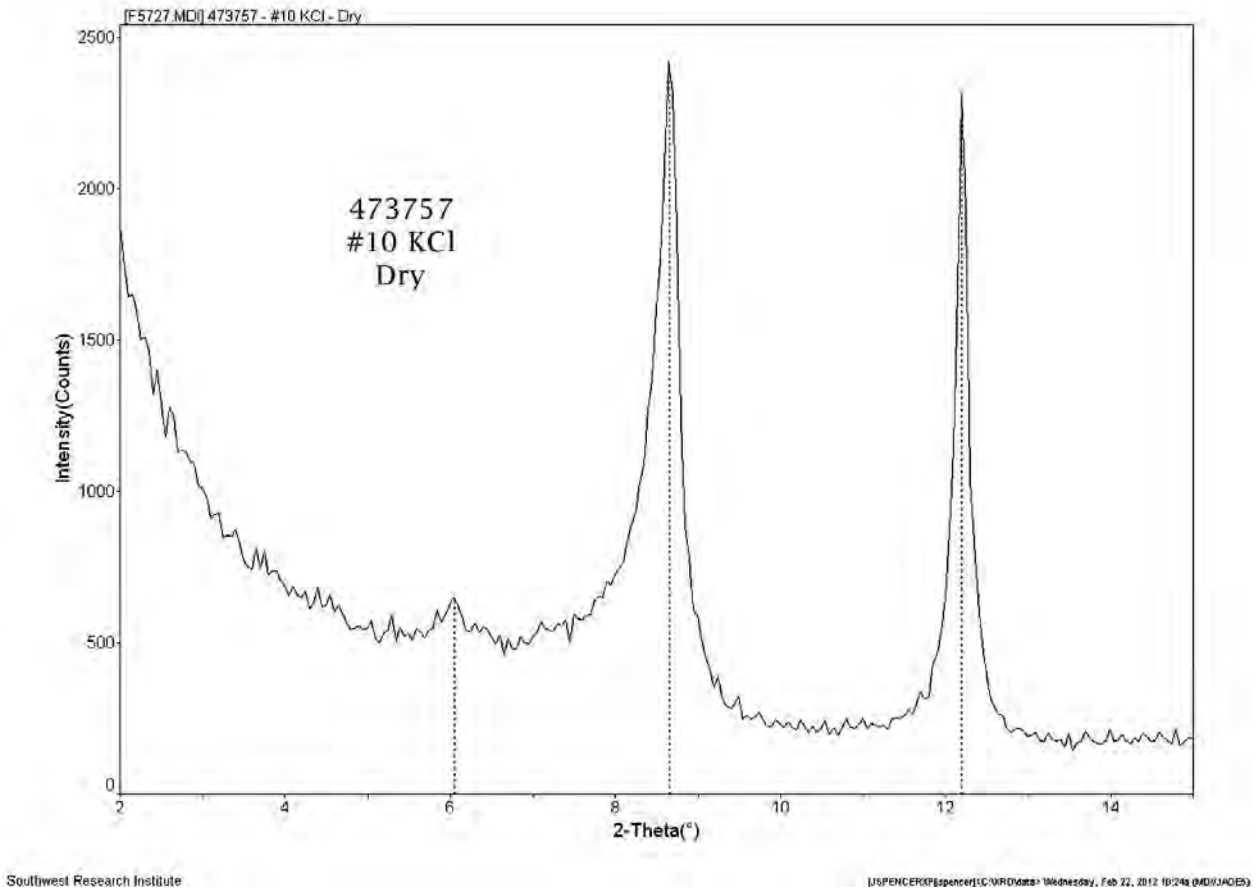
Figure 1 WDSB02-07-24.5 (SwRI# 473757) Mg-saturated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 19.5)
DATE: Wednesday, Feb 22, 2012 10:01a
FILE: [F5702.MDI] 473757 - #10 Mg - Gly sat
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2387, 02/15/12 16:12
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta      d(A)   BG  Height     I%    Area     I%   FWHM  XS(A)
  6.026  14.6548  647     173    9.1     985    5.9  0.228    389
  8.645  10.2202  477    1910  100.0   16730  100.0  0.350    237
 12.154   7.2762  258    1477   77.3    9363   56.0  0.254    343
```

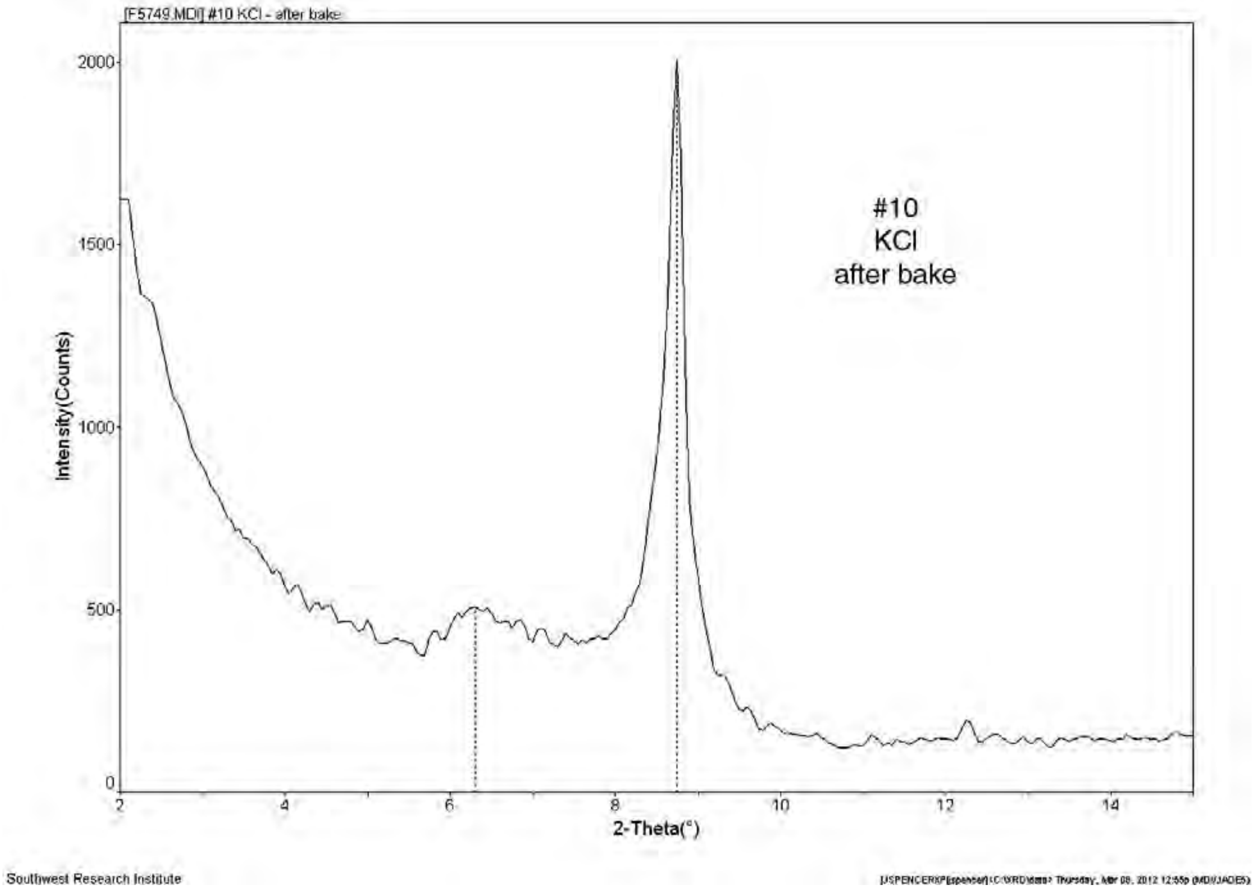
Figure 2 WDSB-07-24.5 (SwRI# 473757) Mg saturated – glycerol solvated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 22.0)
DATE: Wednesday, Feb 22, 2012 10:25a
FILE: [F5727.MDI] 473757 - #10 KCl - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2419, 02/21/12 12:04
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.051  14.5941  510     136    6.3    910    3.8  0.268    320
  8.652  10.2112  259    2160  100.0  24265  100.0  0.449    182
 12.200   7.2485  207    2106   97.5  11369   46.9  0.216    417
```

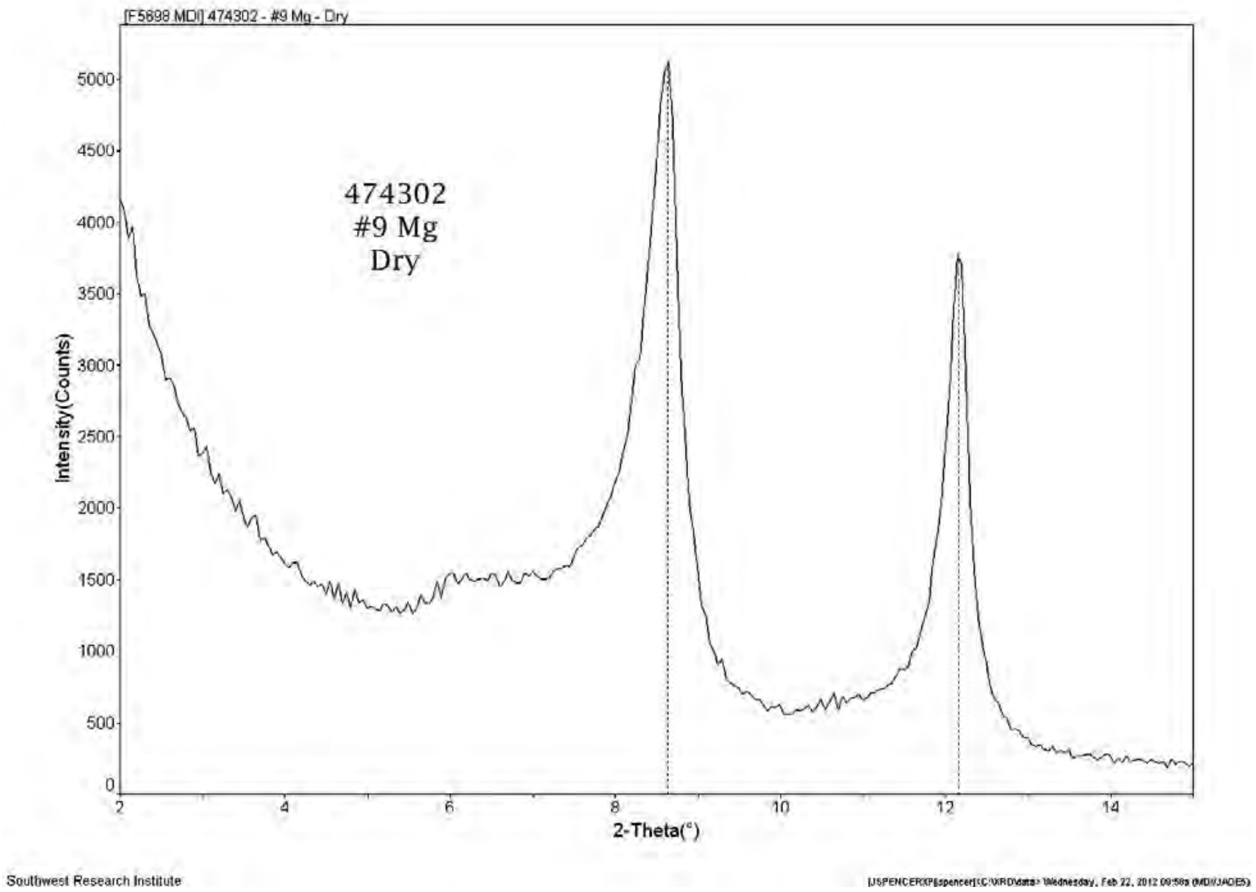
Figure 3 WDSB02-07-24.5 (SwRI# 473757) KCl saturated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 20.3)
DATE: Thursday, Mar 08, 2012 12:55p
FILE: [F5749.MDI] #10 KCl - after bake
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2007, 03/07/12 12:37
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.299  14.0197  405      99    5.4   1426    7.8  0.576    140
  8.739  10.1105  184    1823  100.0  18209  100.0  0.400    206
```

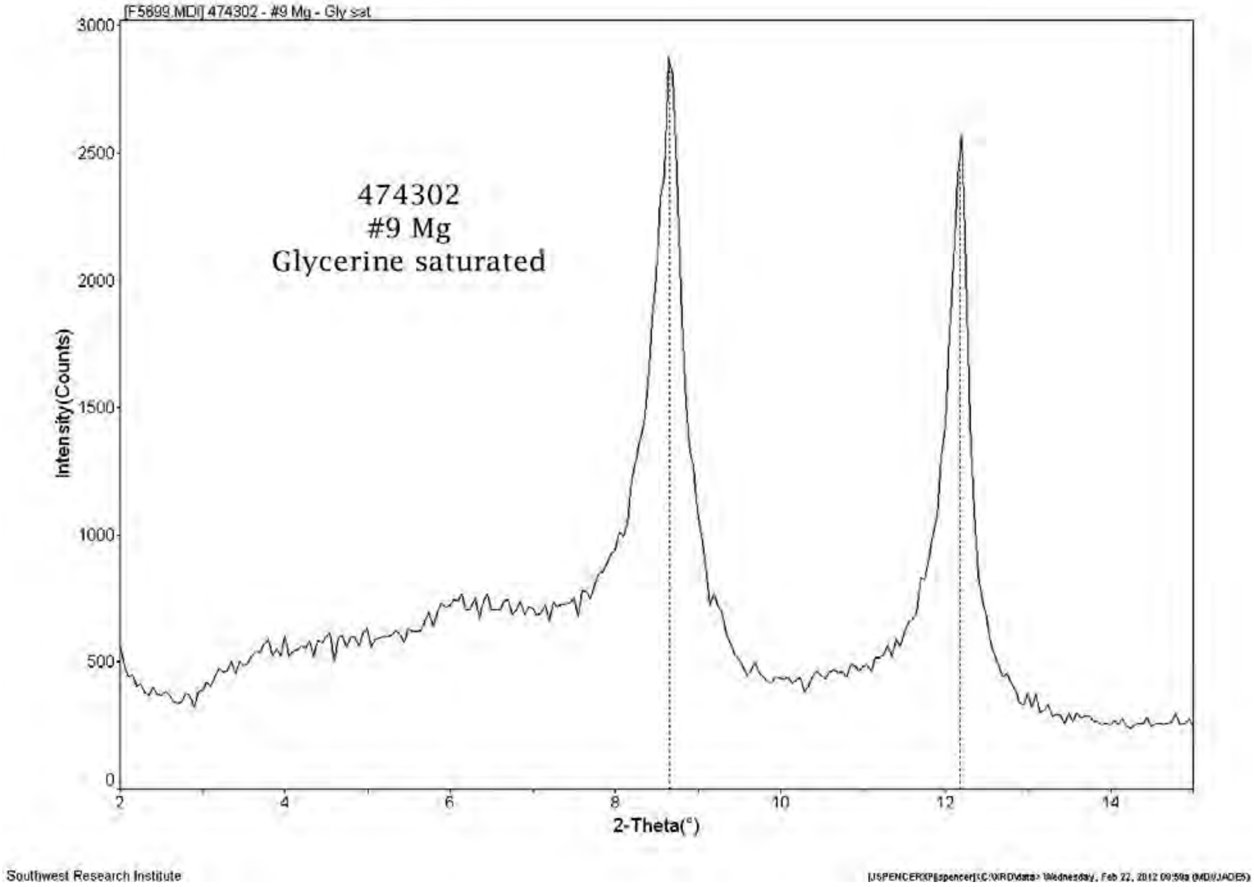
Figure 4 WDSB02-07-24.5 (SwRI# 473757) KCl-saturated and heated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 31.2)
DATE: Wednesday, Feb 22, 2012 09:58a
FILE: [F5698.MDI] 474302 - #9 Mg - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=5124, 02/15/12 12:19
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  8.630  10.2374  654    4470  100.0  67157  100.0  0.601    134
 12.152   7.2774  312    3463   77.5  37345   55.6  0.431    190
```

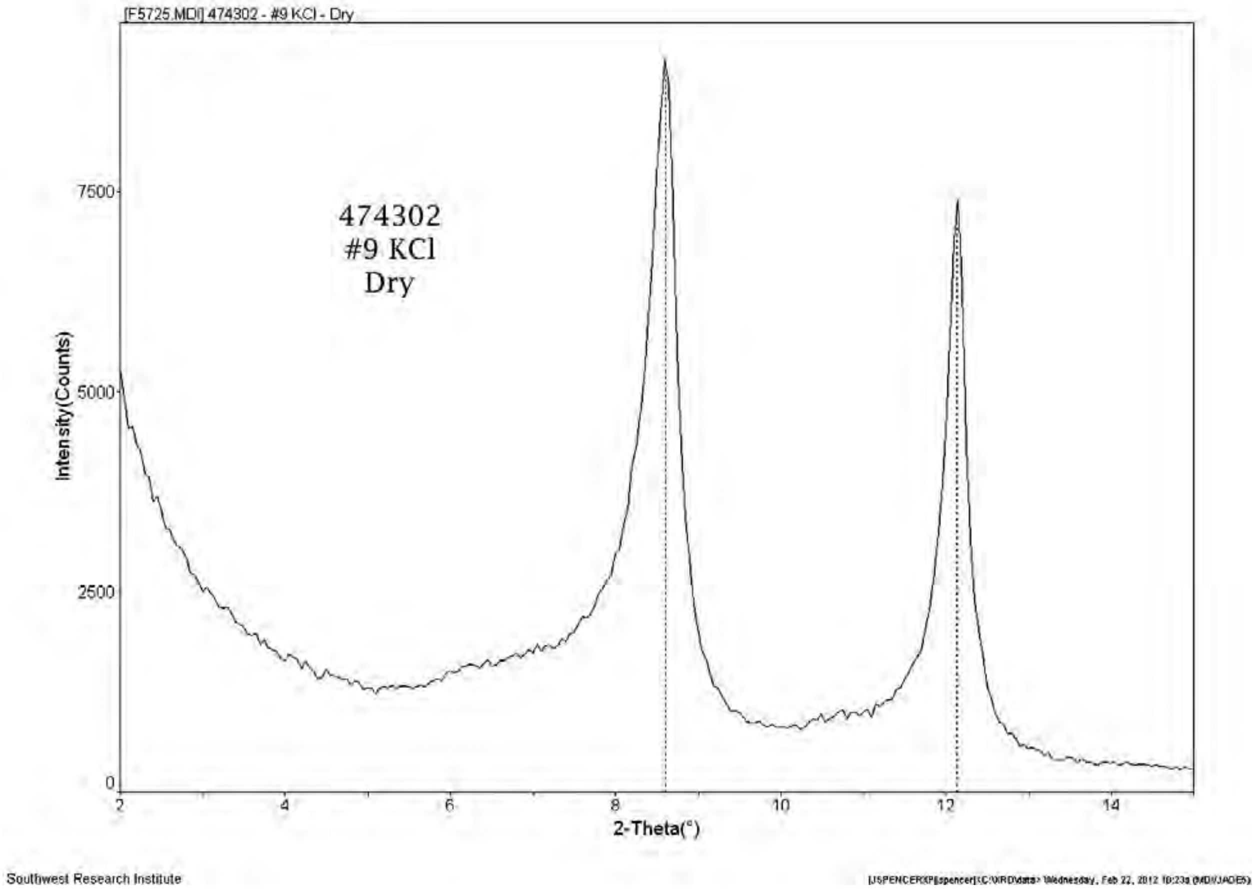
Figure 5 WDSB29-07-4.5 (SwRI# 474302) Mg-saturated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 21.3)
DATE: Wednesday, Feb 22, 2012 09:59a
FILE: [F5699.MDI] 474302 - #9 Mg - Gly sat
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2876, 02/15/12 13:23
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height    I%   Area     I%   FWHM  XS(A)
  8.652  10.2118  629    2247  100.0  23178  100.0  0.413    199
 12.168   7.2679  409    2159   96.1  17663   76.2  0.327    256
```

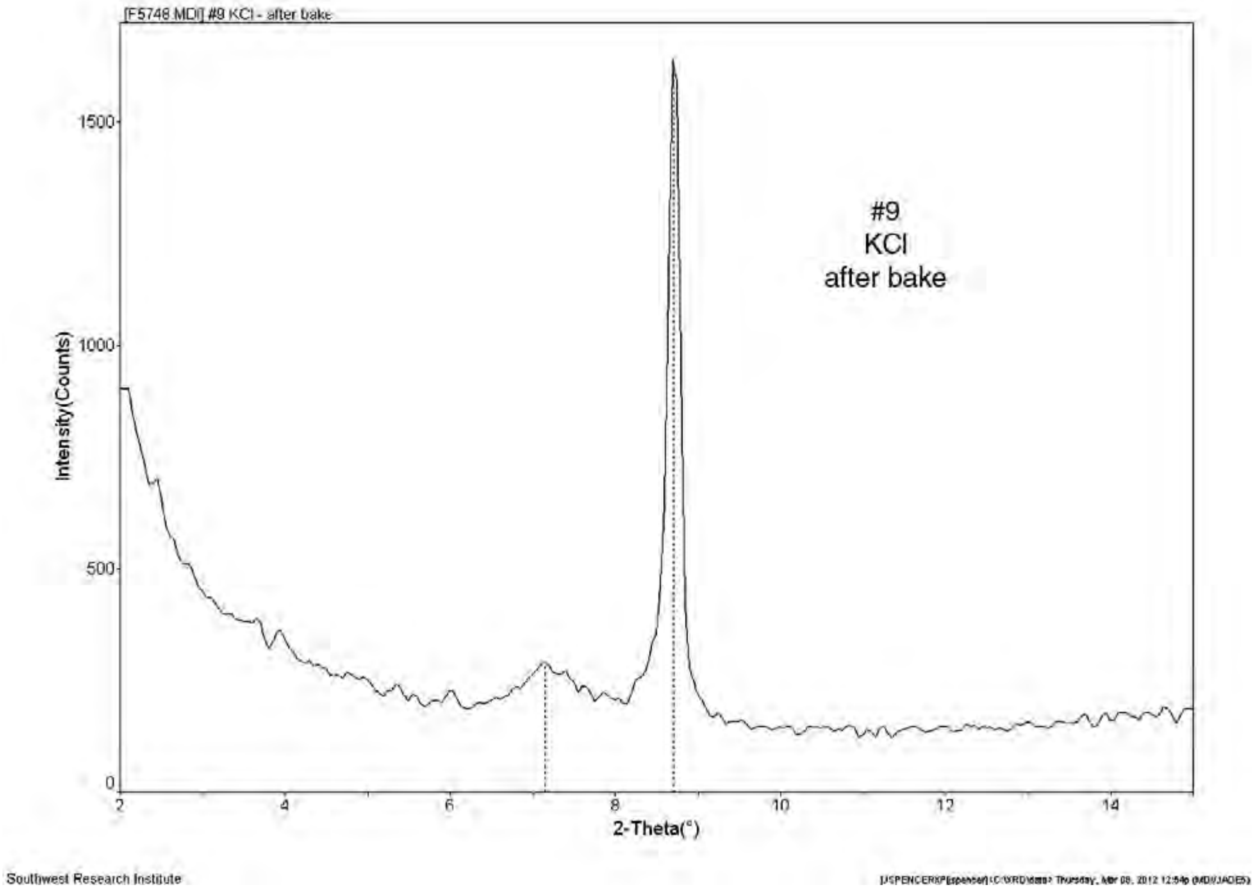
Figure 6 WDSB29-07-4.5 (SwRI# 474302) Mg-saturated and glycerol solvated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 43.3)
DATE: Wednesday, Feb 22, 2012 10:23a
FILE: [F5725.MDI] 474302 - #9 KCl - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=9151, 02/21/12 10:49
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%    Area     I%   FWHM  XS(A)
  8.609  10.2632  876    8275  100.0  104589  100.0  0.506    161
 12.135   7.2873  461    6937   83.8   65929   63.0  0.380    218
```

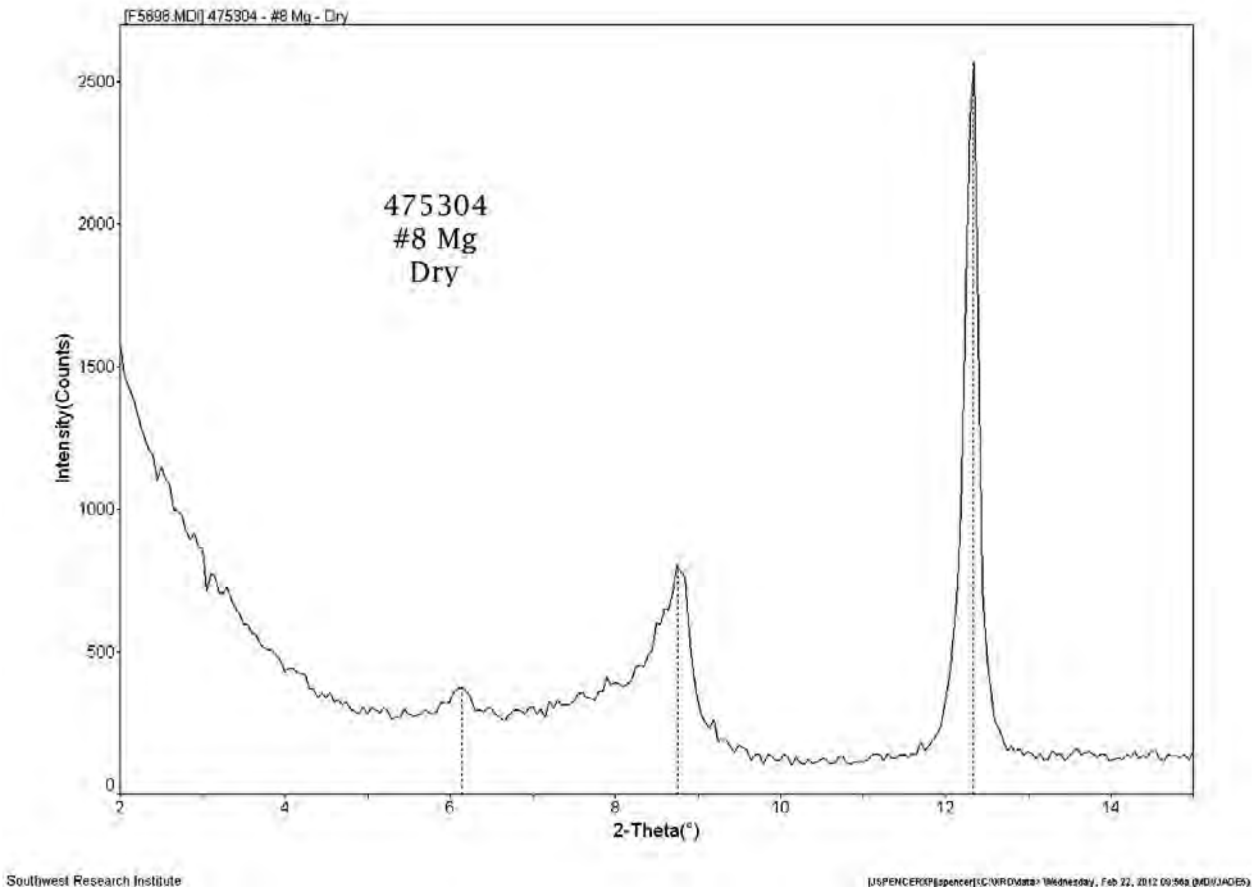
Figure 7   WDSB29-07-4.5 (SwRI# 474302) KCl-saturated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 17.9)
DATE: Thursday, Mar 08, 2012 12:54p
FILE: [F5748.MDI] #9 KCl - after bake
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=1639, 03/07/12 11:50
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%  Area     I%   FWHM  XS(A)
  7.147  12.3581  203      84    5.8   944   14.9  0.450    182
  8.711  10.1430  186    1453  100.0  6336  100.0  0.174    557
```

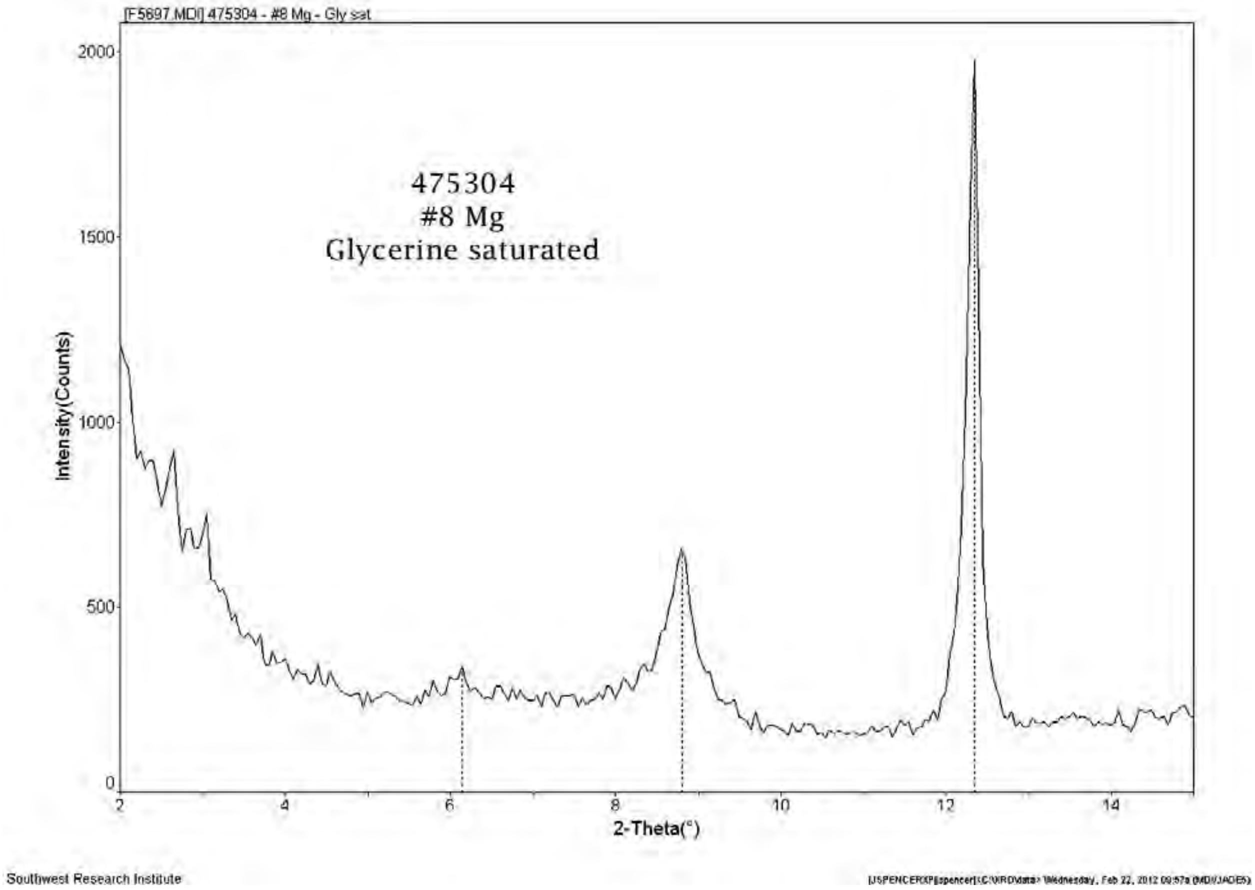
Figure 8 WDSB29-07-4.5 (SwRI# 474302) KCl-saturated and heated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 24.1)
DATE: Wednesday, Feb 22, 2012 09:56a
FILE: [F5696.MDI] 475304 - #8 Mg - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2570, 02/15/12 11:14
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta      d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.146  14.3698  276      95    3.9    543    4.4  0.229    387
  8.760  10.0855  123     677   27.7  10502   85.7  0.621    130
 12.333   7.1708  128    2442  100.0  12260  100.0  0.201    459
```

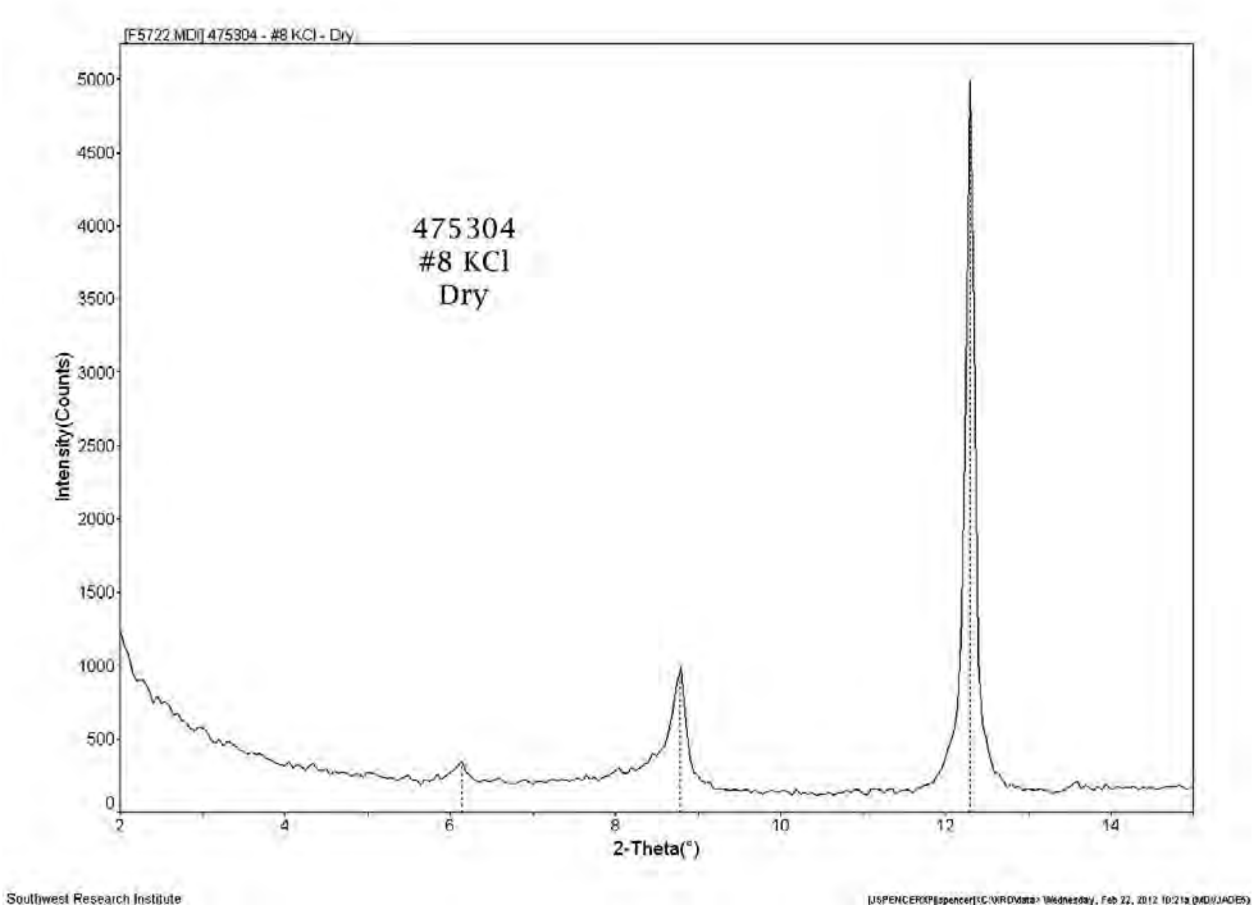
Figure 9 WDMW04B-07-BE10 (SwRI# 475304) Mg-saturated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 20.3)
DATE: Wednesday, Feb 22, 2012 09:57a
FILE: [F5697.MDI] 475304 - #8 Mg - Gly sat
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=1979, 02/15/12 11:46
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%  Area     I%   FWHM  XS(A)
  6.139  14.3841  246      90    5.0   629    7.7  0.280    305
  8.800  10.0401  214     439   24.3  4540   55.8  0.414    198
 12.341   7.1660  176    1803  100.0  8131  100.0  0.180    532
```

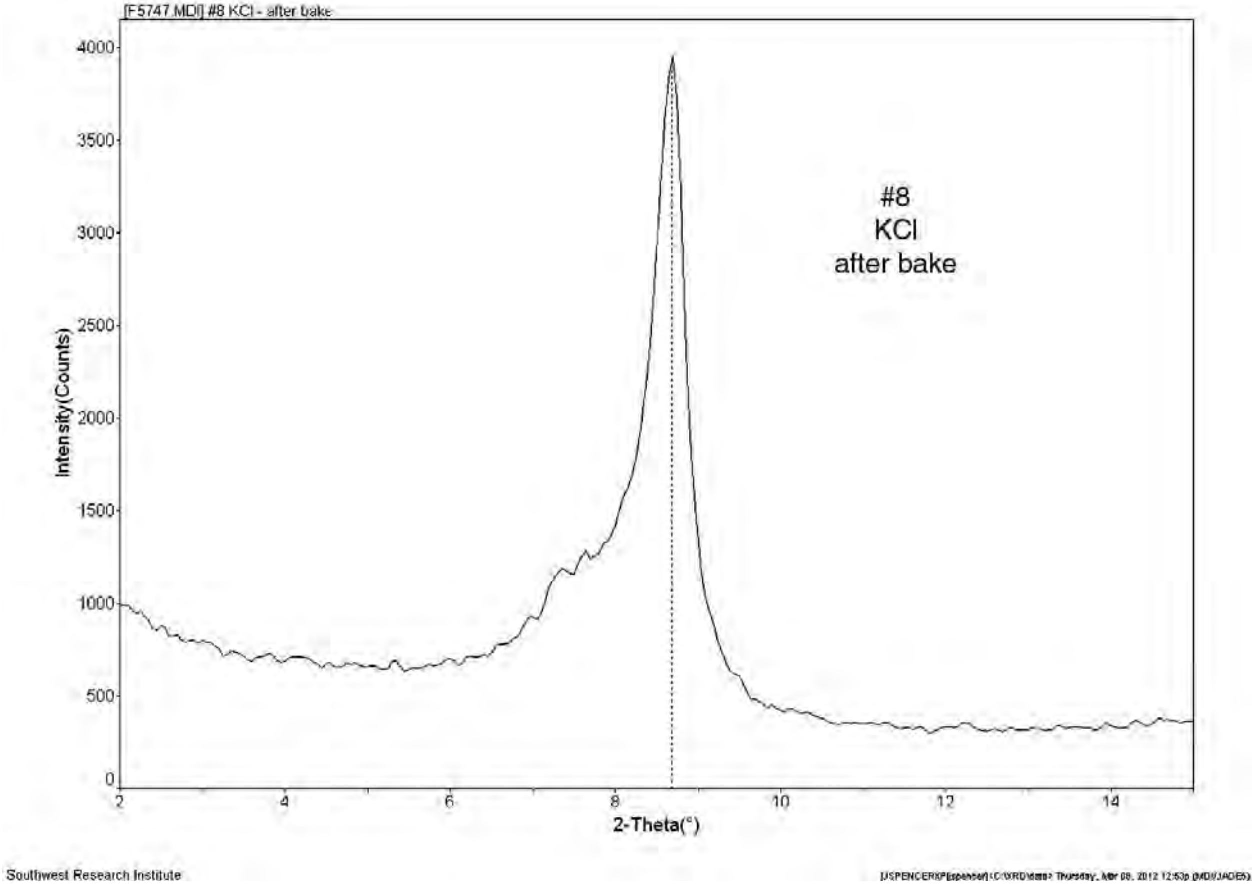
Figure 10 WDMW04B-07-BE10 (SwRI# 475304) Mg-saturated and glycerol solvated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 34.4)
DATE: Wednesday, Feb 22, 2012 10:21a
FILE: [F5722.MDI] 475304 - #8 KCl - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=4991, 02/20/12 16:55
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%    Area     I%   FWHM  XS(A)
  6.138  14.3874  203     139    2.9     512    3.1  0.147    735
  8.786  10.0562  178     802   16.5    4802   29.4  0.240    366
 12.299   7.1903  134    4857  100.0   16356  100.0  0.135    885
```

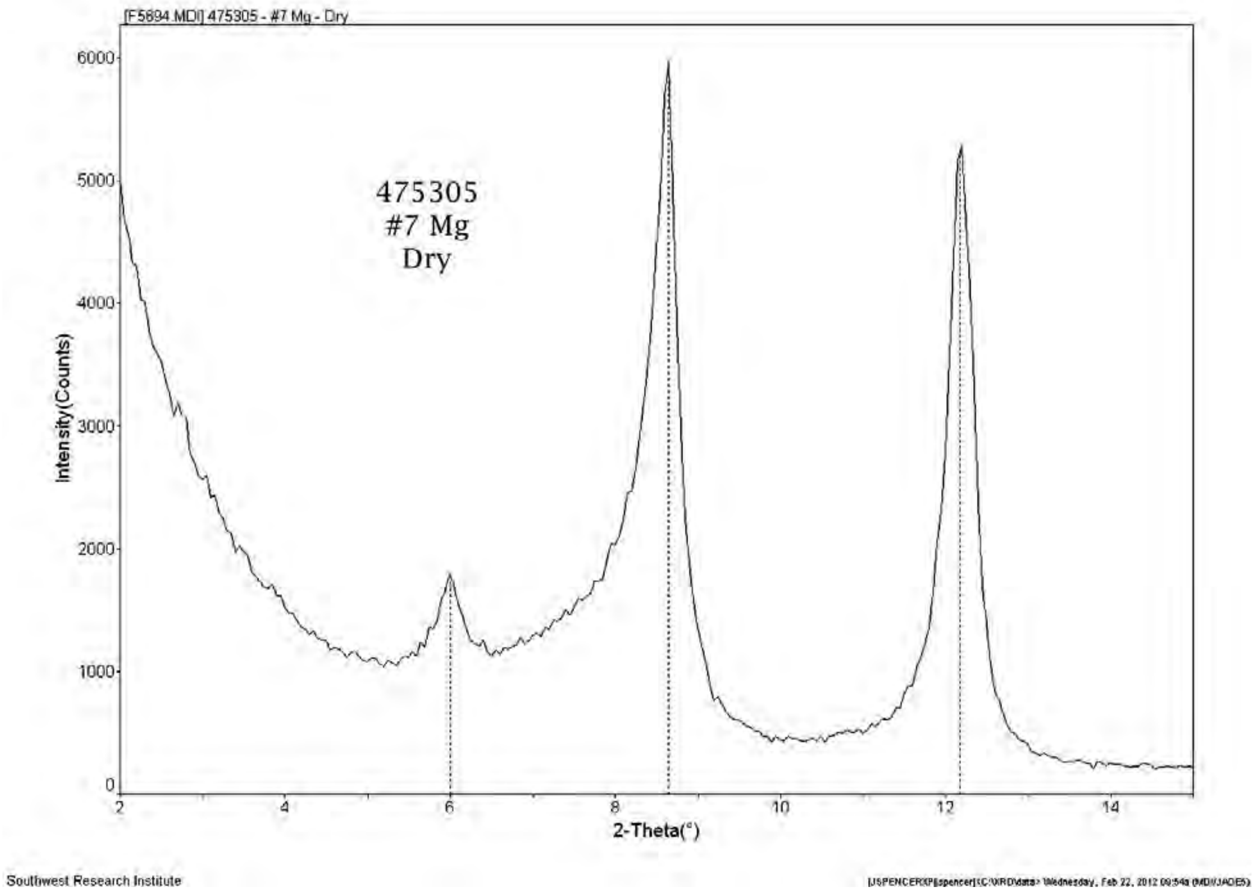
Figure 11 WDMW04B-07-BE10 (SwRI# 475304) KCl-saturated XRD



```
JADE: Peak Search Report (1 Peaks, Max P/N = 27.8)
DATE: Thursday, Mar 08, 2012 12:53p
FILE: [F5747.MDI] #8 KCl - after bake
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=3953, 03/07/12 11:00
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  8.684  10.1736  463    3490  100.0  49115  100.0  0.563    144
```

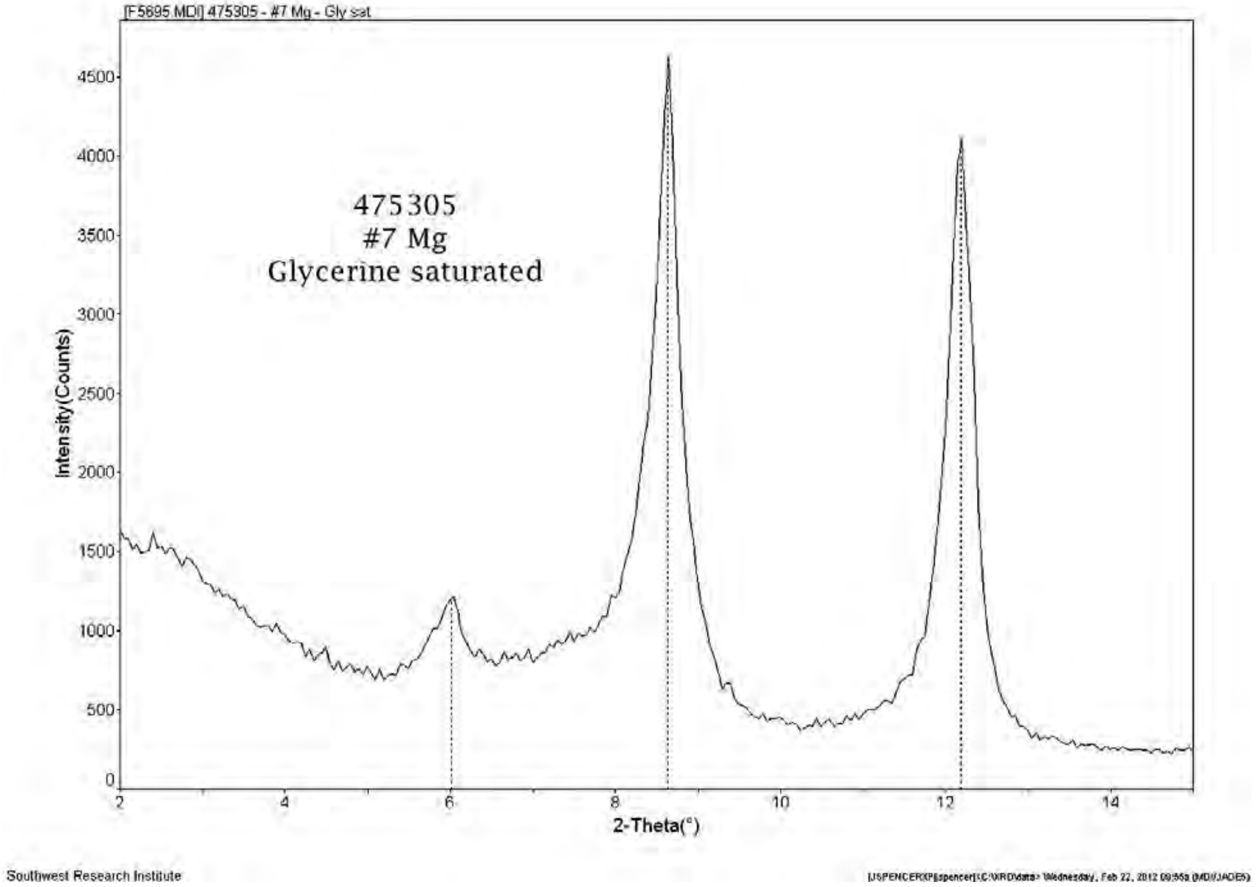
Figure 12 WDMW04B-07-BE10 (SwRI# 475304) KCl-saturated and heated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 35.3)
DATE: Wednesday, Feb 22, 2012 09:54a
FILE: [F5694.MDI] 475305 - #7 Mg - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=5969, 02/15/12 10:01
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)    BG  Height     I%   Area     I%   FWHM  XS(A)
  6.004  14.7078  1130     654   12.0   4335    6.3  0.265    324
  8.644  10.2214   508    5461  100.0  69330  100.0  0.508    160
 12.168   7.2679   423    4856   88.9  45622   65.8  0.376    221
```

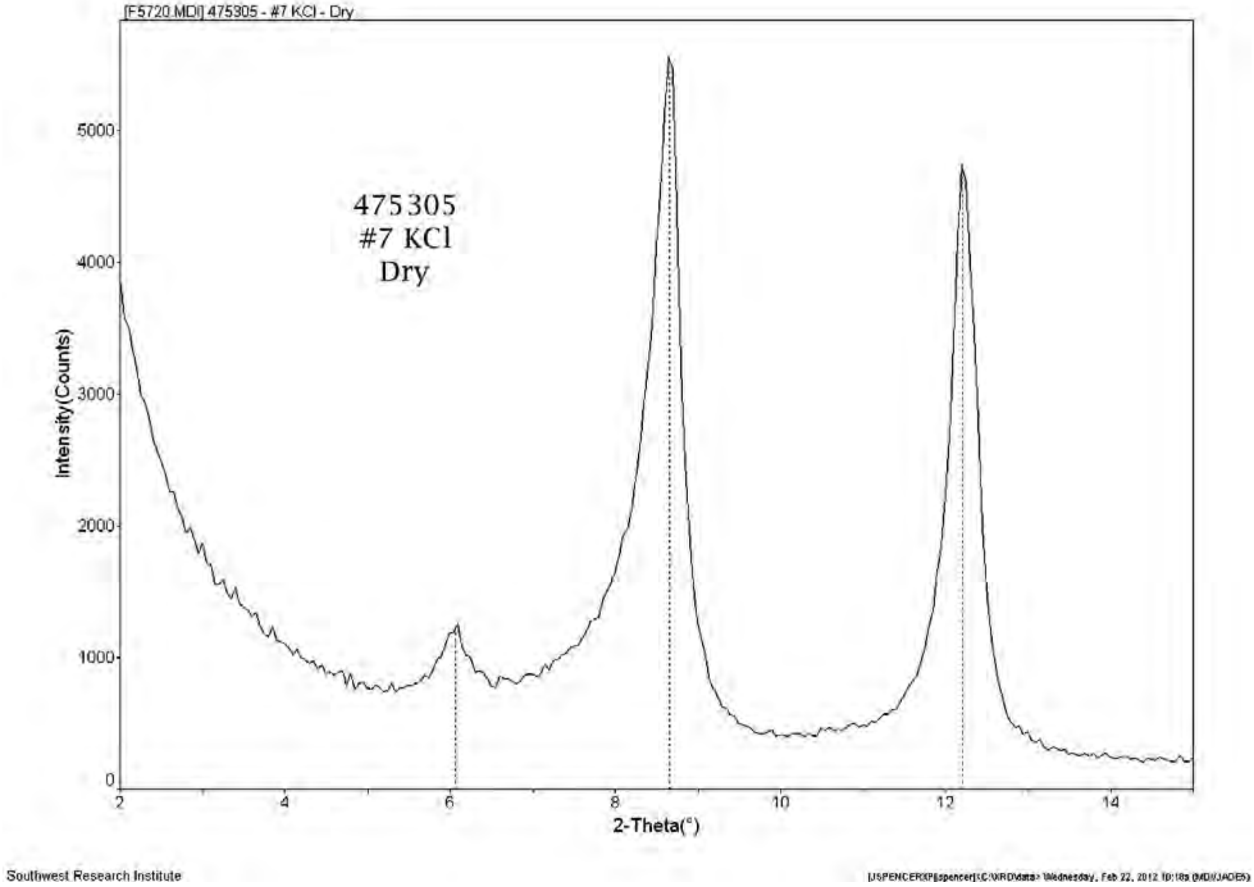
Figure 13 WDMW04B-07-CU10 (SwRI# 475305) Mg-saturated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 30.6)
DATE: Wednesday, Feb 22, 2012 09:55a
FILE: [F5695.MDI] 475305 - #7 Mg - Gly sat
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=4624, 02/15/12 10:37
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.015  14.6813  774     432   10.4   3545    7.4  0.328    254
  8.630  10.2374  465    4159  100.0  48126  100.0  0.463    176
 12.179   7.2614  414    3697   88.9  34089   70.8  0.369    225
```

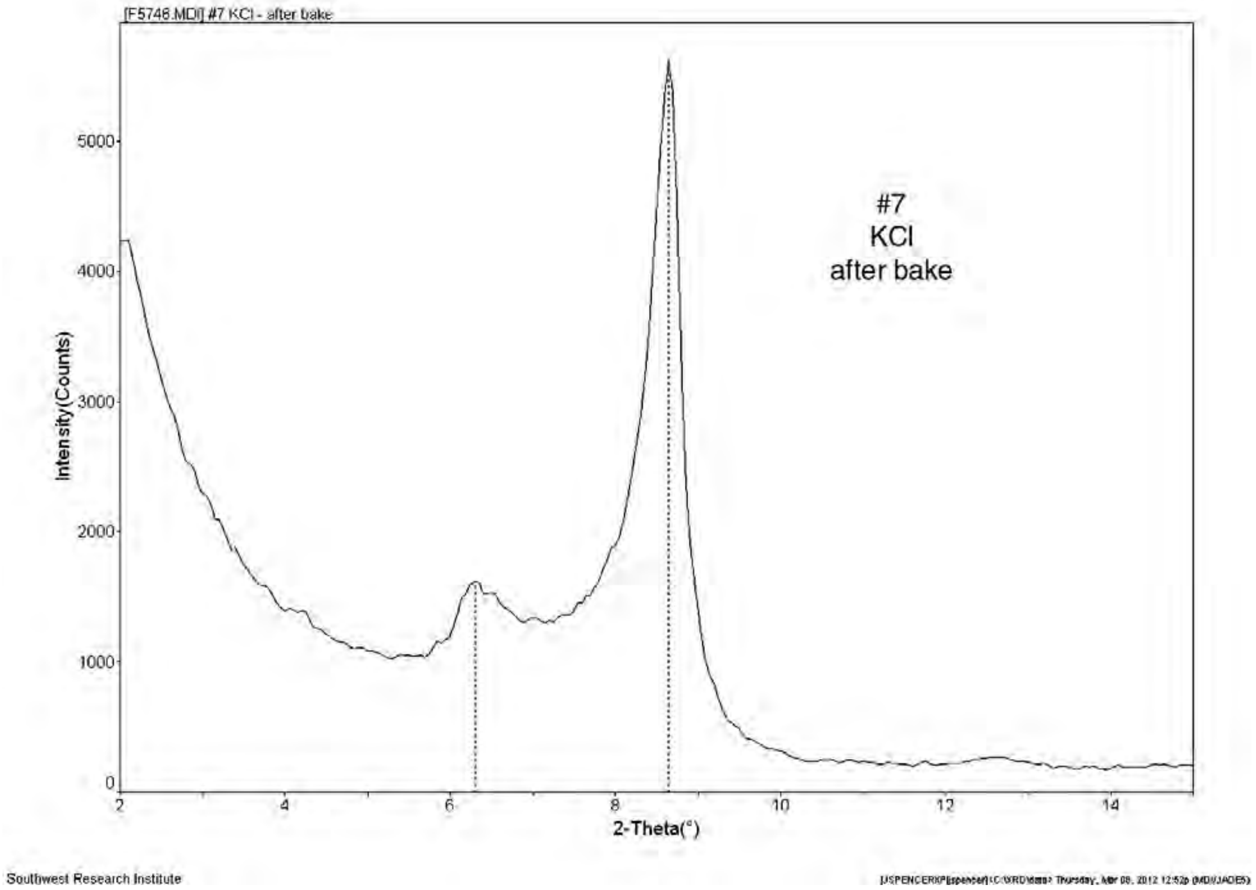
Figure 14 WDMW04B-07-CU10 (SwRI# 475305) Mg-saturated and glycerol solvated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 34.4)
DATE: Wednesday, Feb 22, 2012 10:19a
FILE: [F5720.MDI] 475305 - #7 KCl - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=5555, 02/20/12 14:58
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.069  14.5501  796     450    8.8   3043    4.7  0.270    317
  8.663  10.1990  434    5121  100.0  64607  100.0  0.505    161
 12.204   7.2461  412    4330   84.6  41123   63.7  0.380    218
```

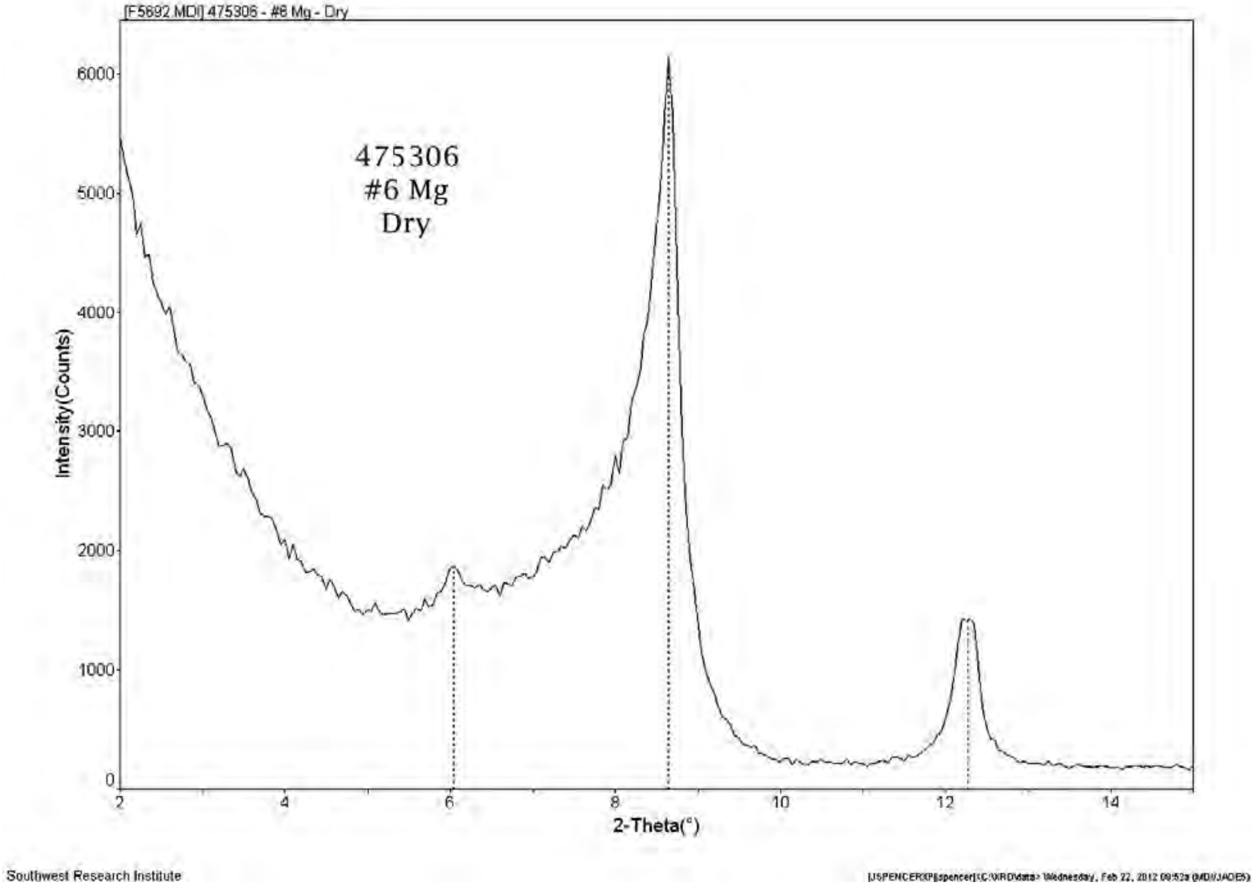
Figure 15 WDMW04B-07-CU10 (SwRI# 475305) KCl-saturated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 35.0)
DATE: Thursday, Mar 08, 2012 12:52p
FILE: [F5746.MDI] #7 KCl - after bake
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=5625, 03/07/12 08:29
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)    BG  Height     I%    Area     I%   FWHM  XS(A)
  6.298  14.0218  1184     421    8.0    4139    5.6  0.393    209
  8.641  10.2246   373    5252  100.0   73545  100.0  0.560    145
```

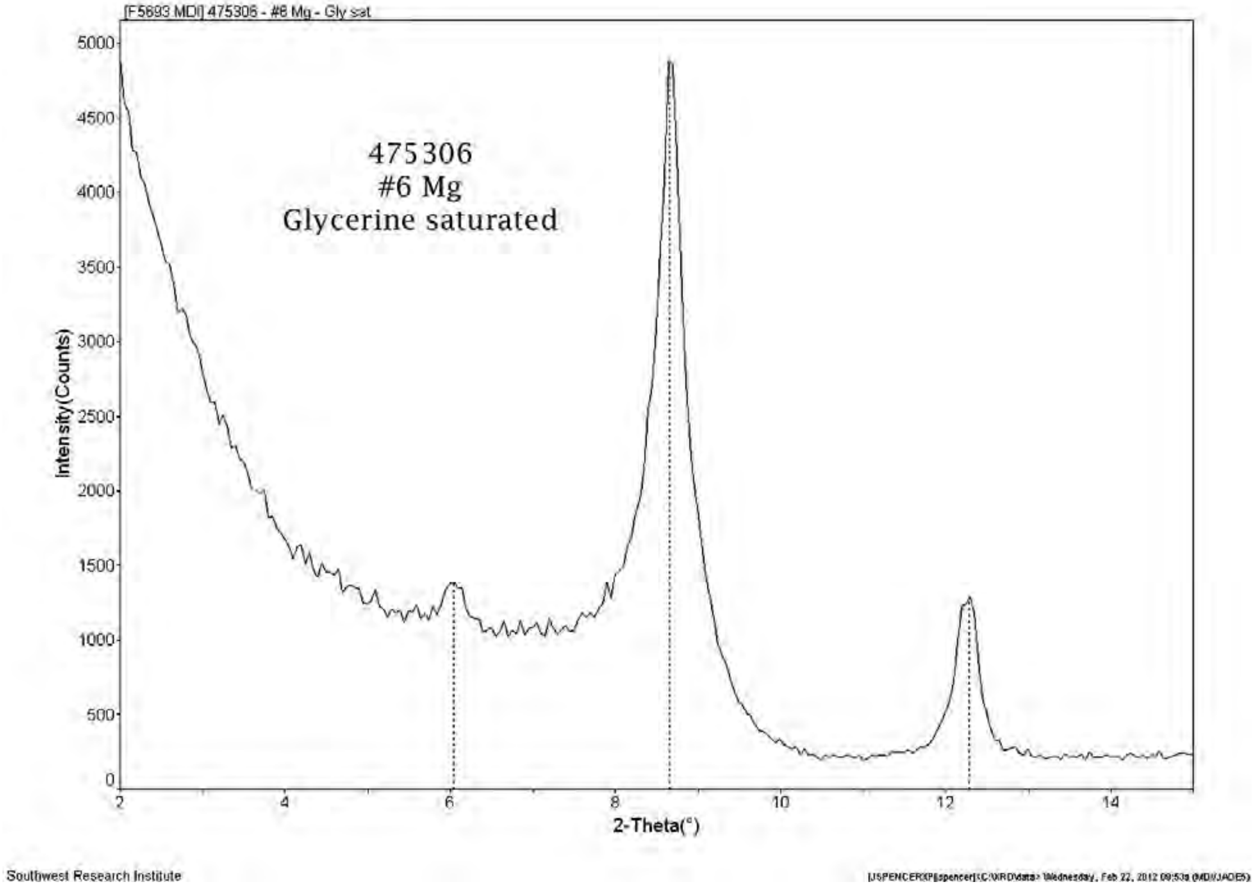
Figure 16 WDMW04B-07-CU10 (SwRI# 475305) KCl-saturated and heated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 37.0)
DATE: Wednesday, Feb 22, 2012 09:52a
FILE: [F5692.MDI] 475306 - #6 Mg - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=6138, 02/14/12 17:16
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta      d(A)    BG  Height      I%    Area      I%   FWHM  XS(A)
  6.037  14.6285  1578     282     4.9    1573     1.8  0.223    399
  8.641  10.2246   341    5797   100.0   86645   100.0  0.598    135
 12.265   7.2102   211    1204    20.8   10737    12.4  0.357    233
```

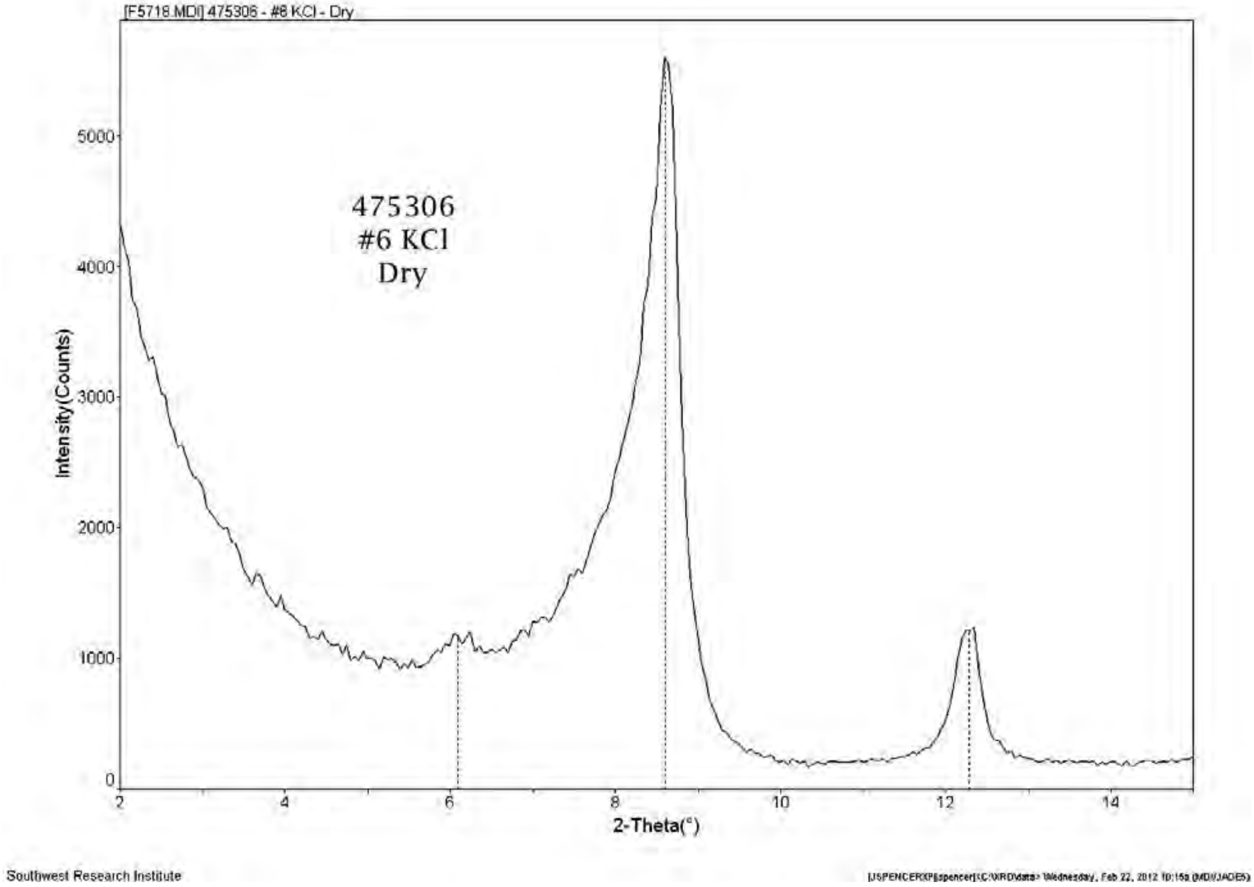
Figure 17 WDMW04B-07-SU10 (SwRI# 475306) Mg-saturated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 31.8)
DATE: Wednesday, Feb 22, 2012 09:53a
FILE: [F5693.MDI] 475306 - #6 Mg - Gly sat
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=4907, 02/15/12 09:09
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)    BG  Height     I%    Area     I%   FWHM  XS(A)
  6.037  14.6285  1111     277    6.2    1641    2.9  0.237    370
  8.663  10.1990   437    4450  100.0   57153  100.0  0.514    158
 12.276   7.2039   216    1065   23.9    8731   15.3  0.328    256
```

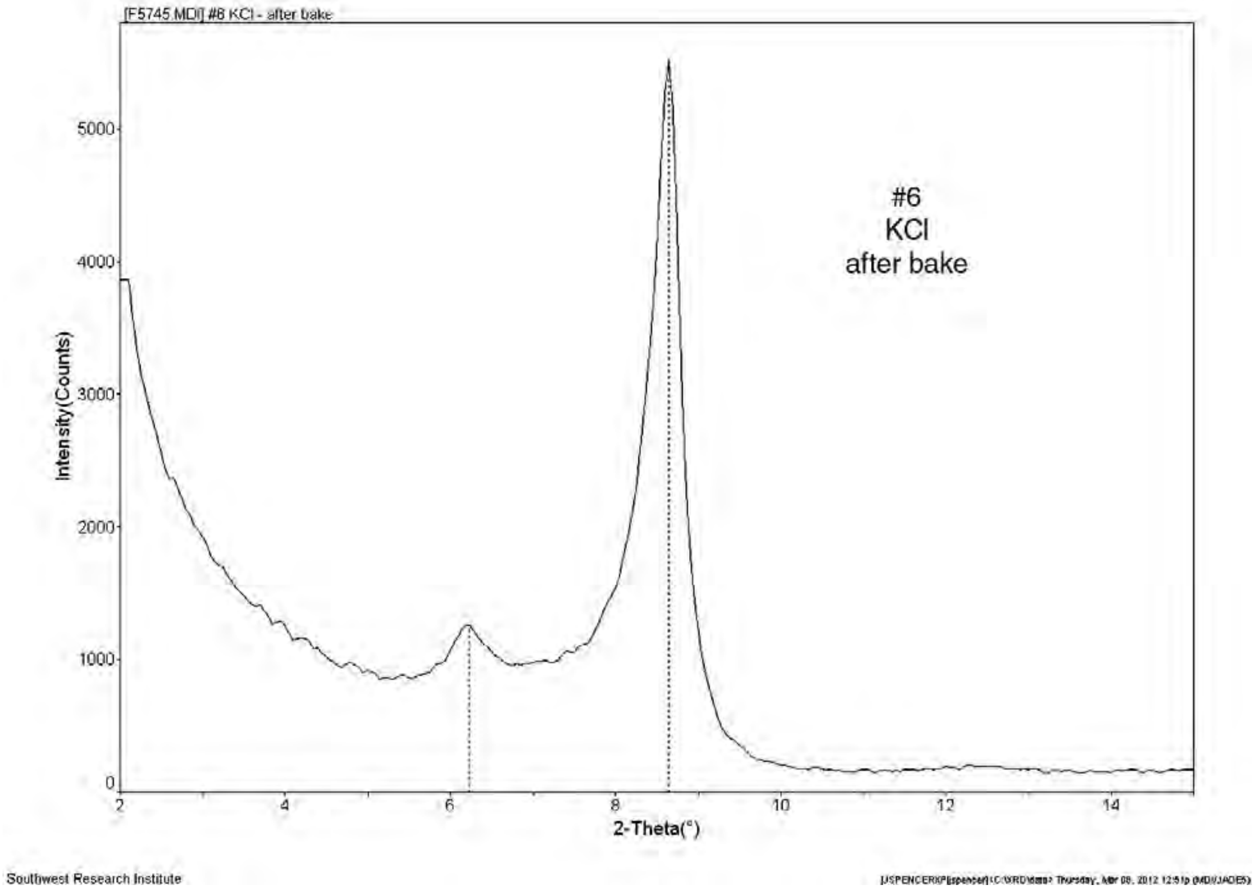
Figure 18 WDMW04B-07-SU10 (SwRI# 475306) Mg-saturated and glycerol solvated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 35.4)
DATE: Wednesday, Feb 22, 2012 10:16a
FILE: [F5718.MDI] 475306 - #6 KCl - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=5606, 02/20/12 13:28
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)    BG  Height     I%    Area     I%   FWHM  XS(A)
  6.091  14.4983  1029     155    2.9     293    0.4  0.076  >1000
  8.609  10.2632   298    5308  100.0   81006  100.0  0.610    132
 12.276   7.2039   208    1017   19.2    9403   11.6  0.370    224
```

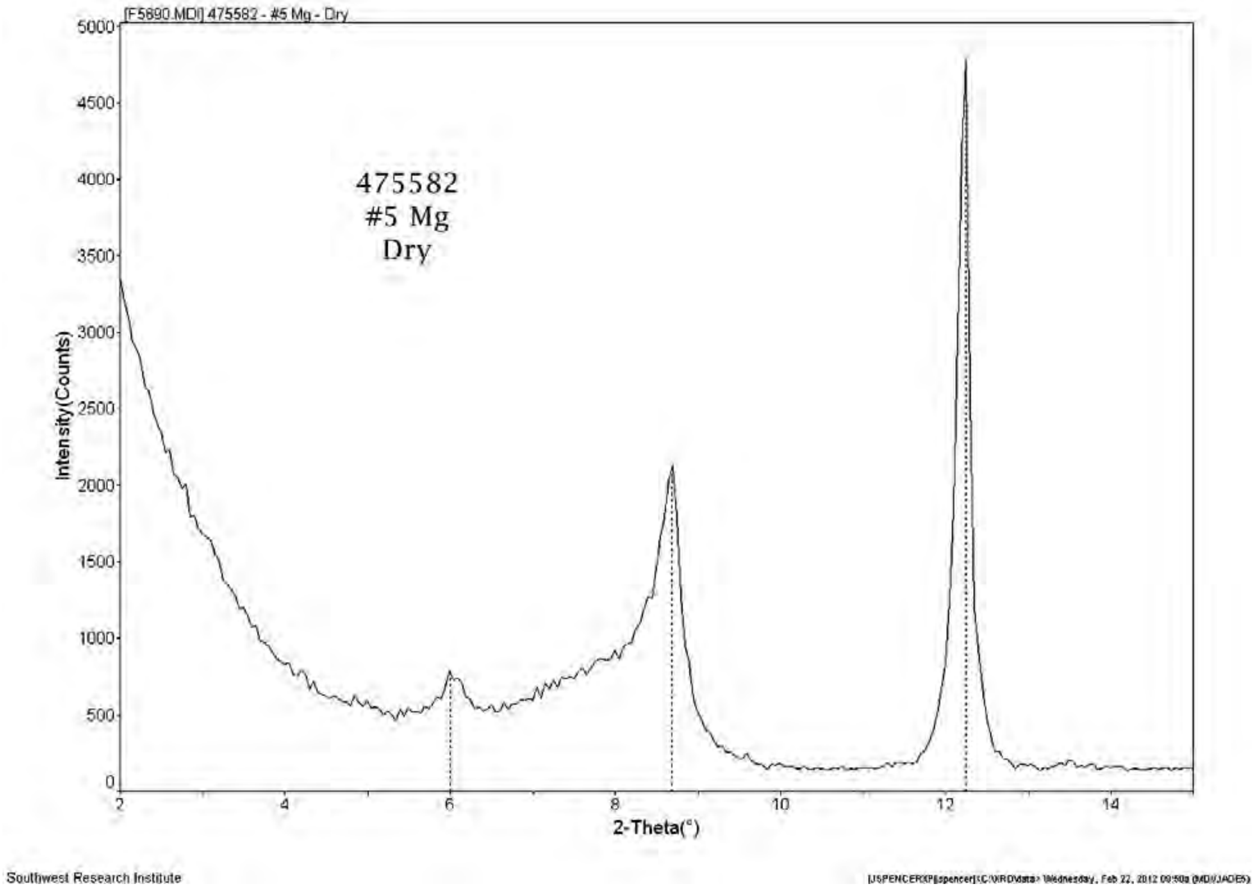
Figure 19 WDMW04B-07-SU10 (SwRI# 475306) KCl-saturated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 35.4)
DATE: Thursday, Mar 08, 2012 12:51p
FILE: [F5745.MDI] #6 KCl - after bake
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=5522, 03/07/12 08:25
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.221  14.1952  920     326    6.2   2727    4.0  0.335    249
  8.641  10.2246  255    5267  100.0  68618  100.0  0.521    156
```

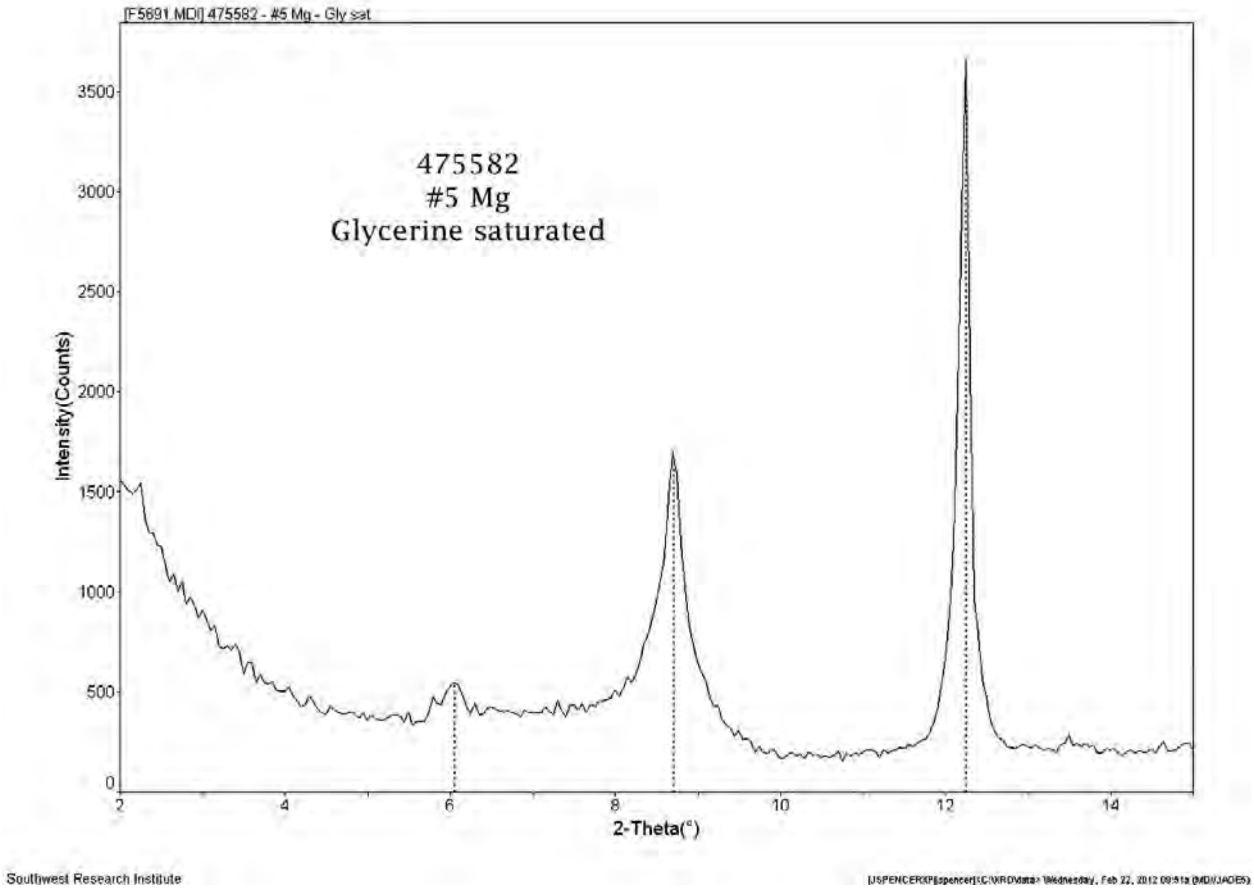
Figure 20 WDMW04B-07-SU10 (SwRI# 475306) KCl-saturated and heated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 33.5)
DATE: Wednesday, Feb 22, 2012 09:51a
FILE: [F5690.MDI] 475582 - #5 Mg - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=4783, 02/14/12 15:52
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.004  14.7078  516     260    5.6   1468    5.3  0.226    393
  8.684  10.1736  173    1953   42.1  27830  100.0  0.570    142
 12.244   7.2229  149    4634  100.0  22238   79.9  0.192    488
```

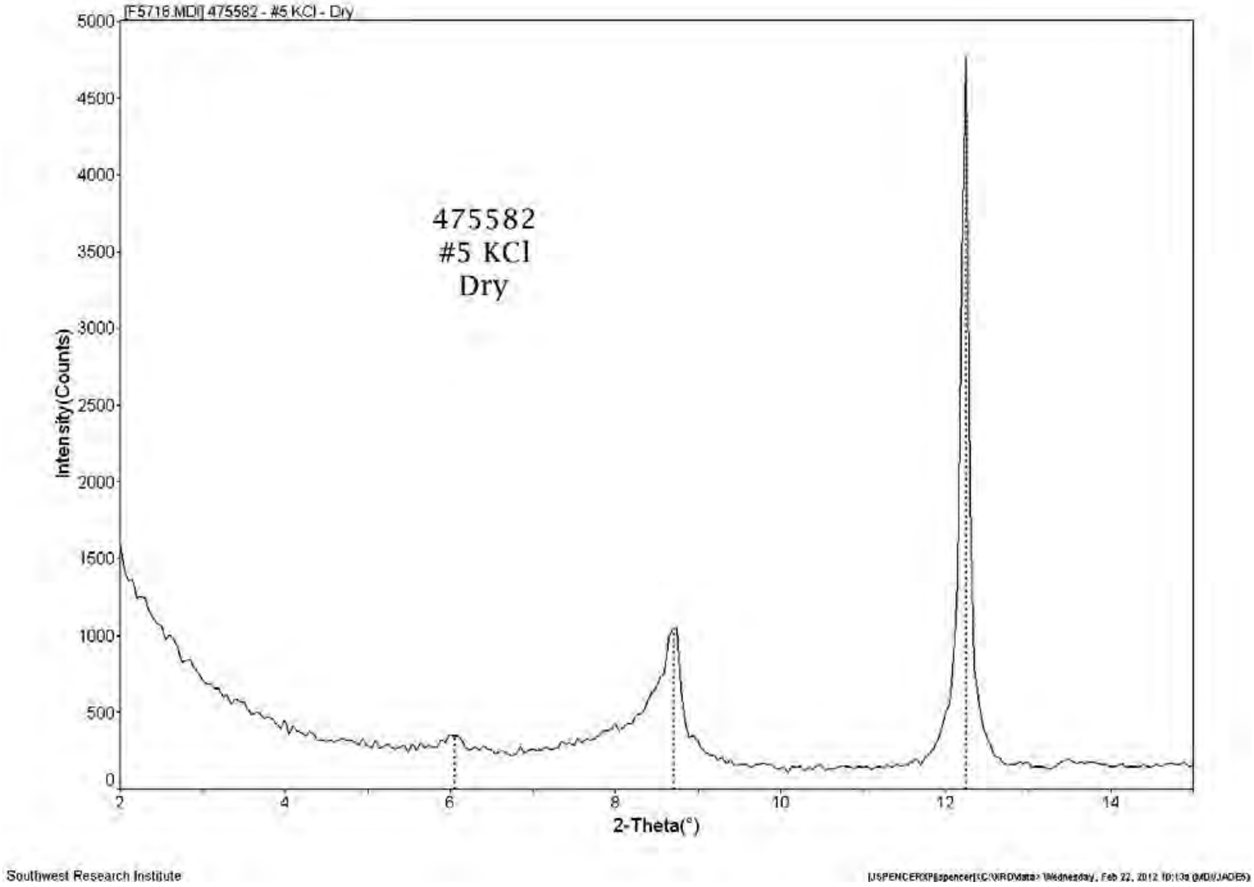
Figure 21 WDMW03B-07-BE10 (SwRI# 475582) Mg-saturated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 28.6)
DATE: Wednesday, Feb 22, 2012 09:51a
FILE: [F5691.MDI] 475582 - #5 Mg - Gly sat
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=3659, 02/14/12 16:28
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.051  14.5946  368     172    5.0   1195    7.8  0.278    307
  8.703  10.1523  319    1376   39.8  13122   85.4  0.381    216
 12.244   7.2229  202    3457  100.0  15366  100.0  0.178    543
```

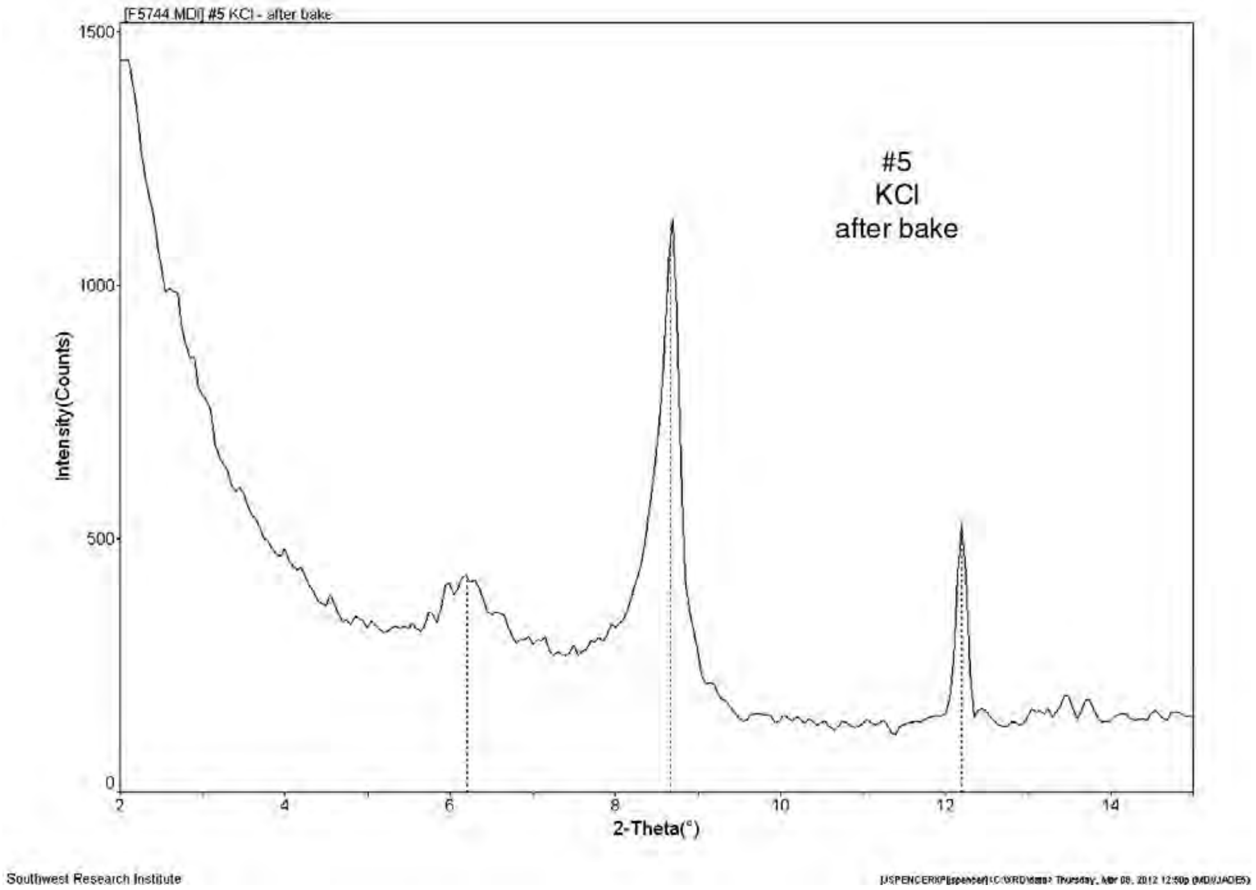
Figure 22 WDMW03B-07-BE10 (SwRI# 475582) Mg-saturated and glycerol solvated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 33.5)
DATE: Wednesday, Feb 22, 2012 10:14a
FILE: [F5716.MDI] 475582 - #5 KCl - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=4767, 02/20/12 11:36
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.048  14.6023  250      95    2.1    536    3.6  0.226    393
  8.706  10.1483  148     899   19.4  10368   68.8  0.461    177
 12.244   7.2229  136    4631  100.0  15072  100.0  0.130    959
```

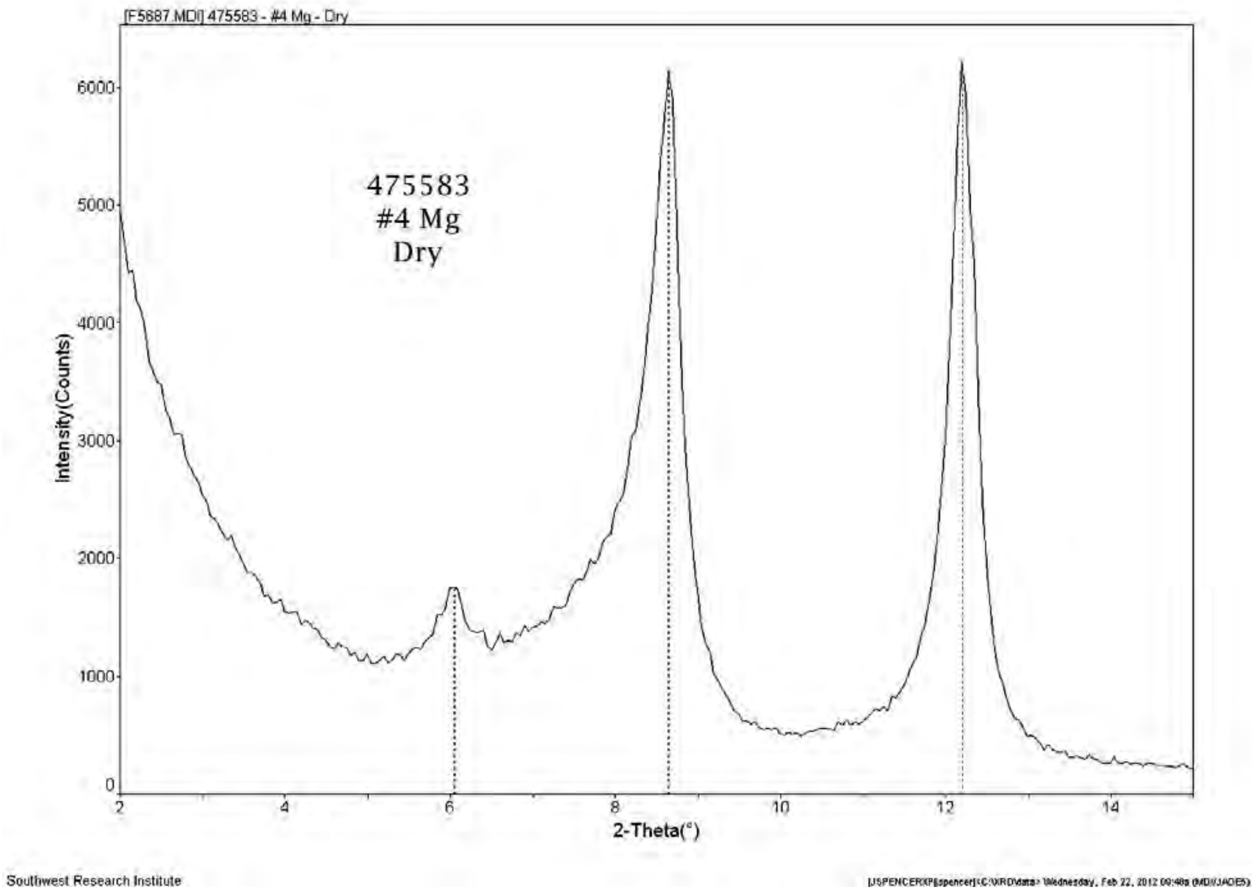
Figure 23 WDMW03B-07-BE10 (SwRI# 475582) K-saturated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 13.7)
DATE: Thursday, Mar 08, 2012 12:50p
FILE: [F5744.MDI] #5 KCl - after bake
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=1445, 03/06/12 17:31
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%  Area     I%   FWHM  XS(A)
  6.204  14.2356  301     126   13.7  1661   22.8  0.527    154
  8.674  10.1863  210     920  100.0  7270  100.0  0.316    266
 12.189   7.2550  131     396   43.0  1498   20.6  0.151    704
```

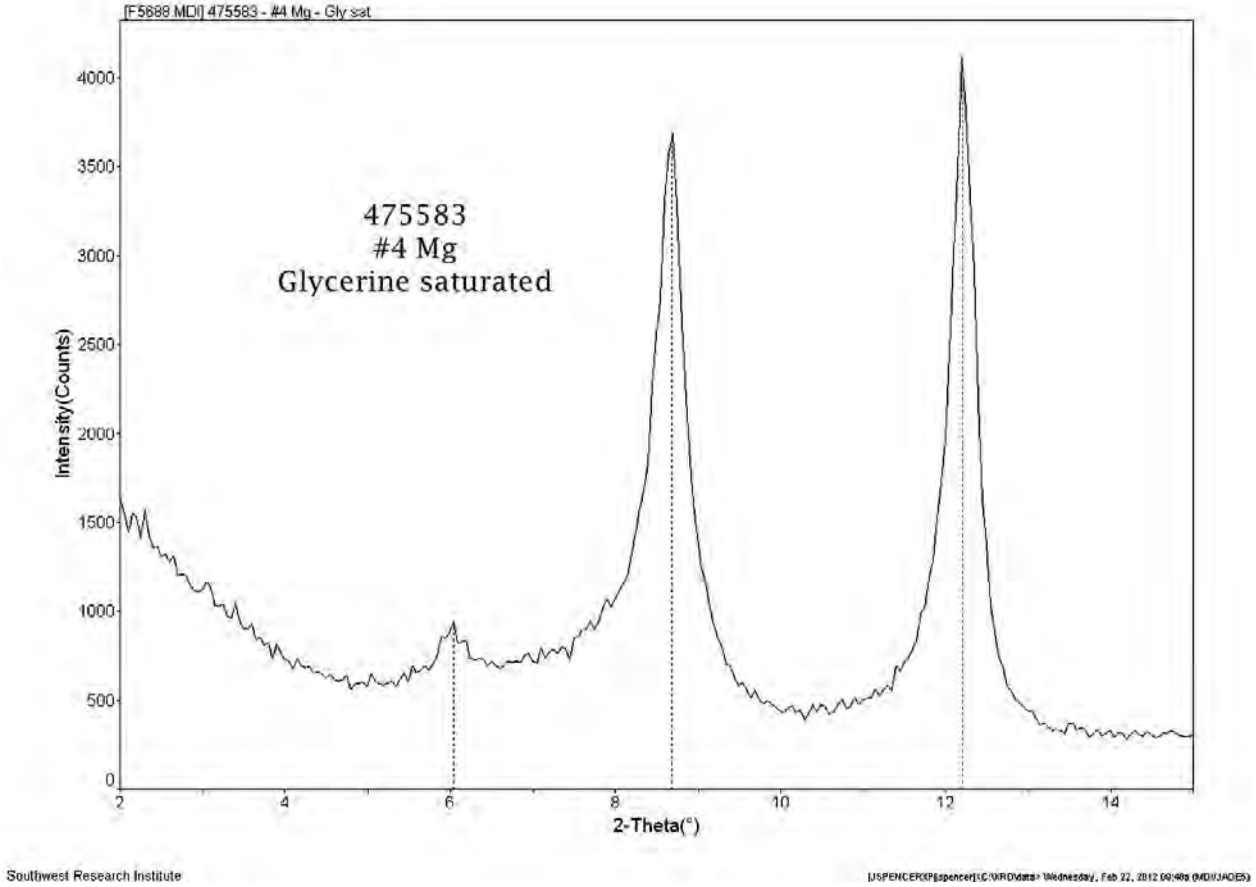
Figure 24 WDMW03B-07-BE10 (SwRI# 475582) K-saturated and heated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 35.7)
DATE: Wednesday, Feb 22, 2012 09:48a
FILE: [F5687.MDI] 475583 - #4 Mg - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=6219, 02/14/12 12:40
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)    BG  Height     I%   Area     I%   FWHM  XS(A)
  6.049  14.5982  1249     496    8.8   3285    4.1  0.265    324
  8.648  10.2162   595    5545   98.6  79713  100.0  0.575    141
 12.202   7.2475   593    5626  100.0  52216   65.5  0.371    223
```

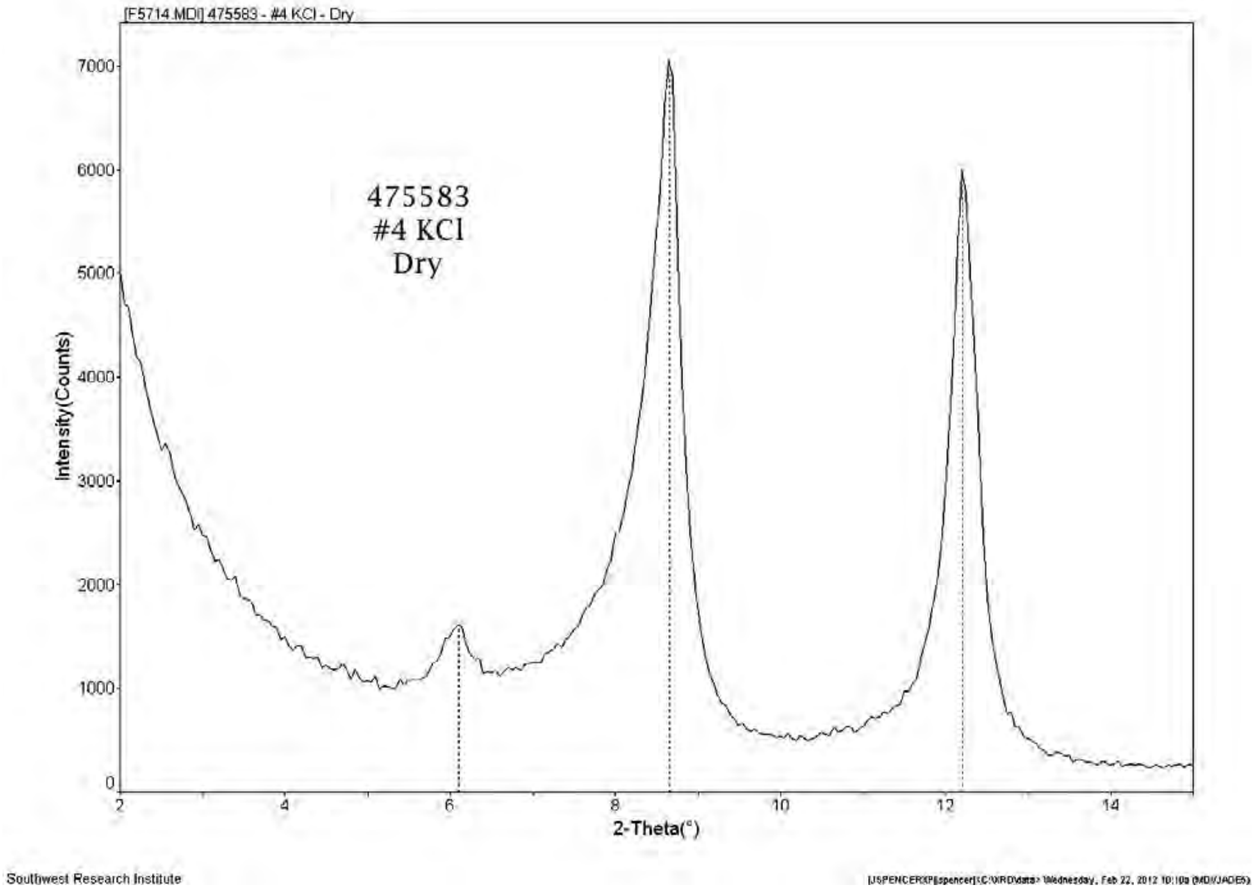
Figure 25 WDMW03B-07-CU10 (SwRI# 475583) Mg-saturated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 28.6)
DATE: Wednesday, Feb 22, 2012 09:49a
FILE: [F5688.MDI] 475583 - #4 Mg - Gly sat
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=4116, 02/14/12 13:21
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.043  14.6125  660     274    7.5   1720    5.0  0.251    345
  8.684  10.1736  699    2990   81.4  31669   92.6  0.424    194
 12.203   7.2468  443    3673  100.0  34209  100.0  0.373    223
```

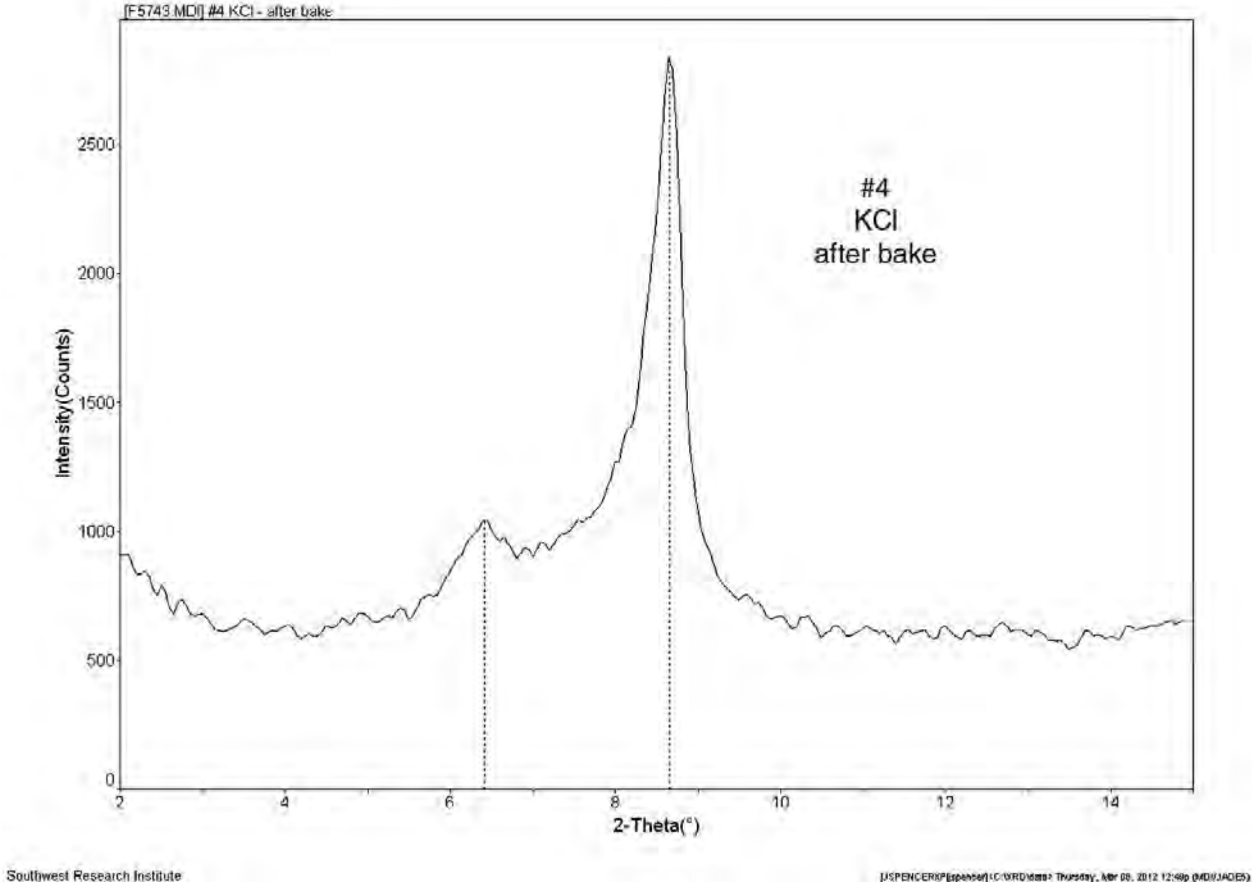
Figure 26 WDMW03B-07-CU10 (SwRI# 475583) Mg-saturated and glycerol solvated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 38.5)
DATE: Wednesday, Feb 22, 2012 10:10a
FILE: [F5714.MDI] 475583 - #4 KCl - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=7061, 02/17/12 11:14
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta      d(A)    BG  Height     I%    Area     I%   FWHM  XS(A)
  6.097  14.4836  1109     486    7.5    3375    3.9  0.278    307
  8.652  10.2118   590    6471  100.0   87201  100.0  0.539    150
 12.204   7.2461   540    5451   84.2   52525   60.2  0.385    215
```

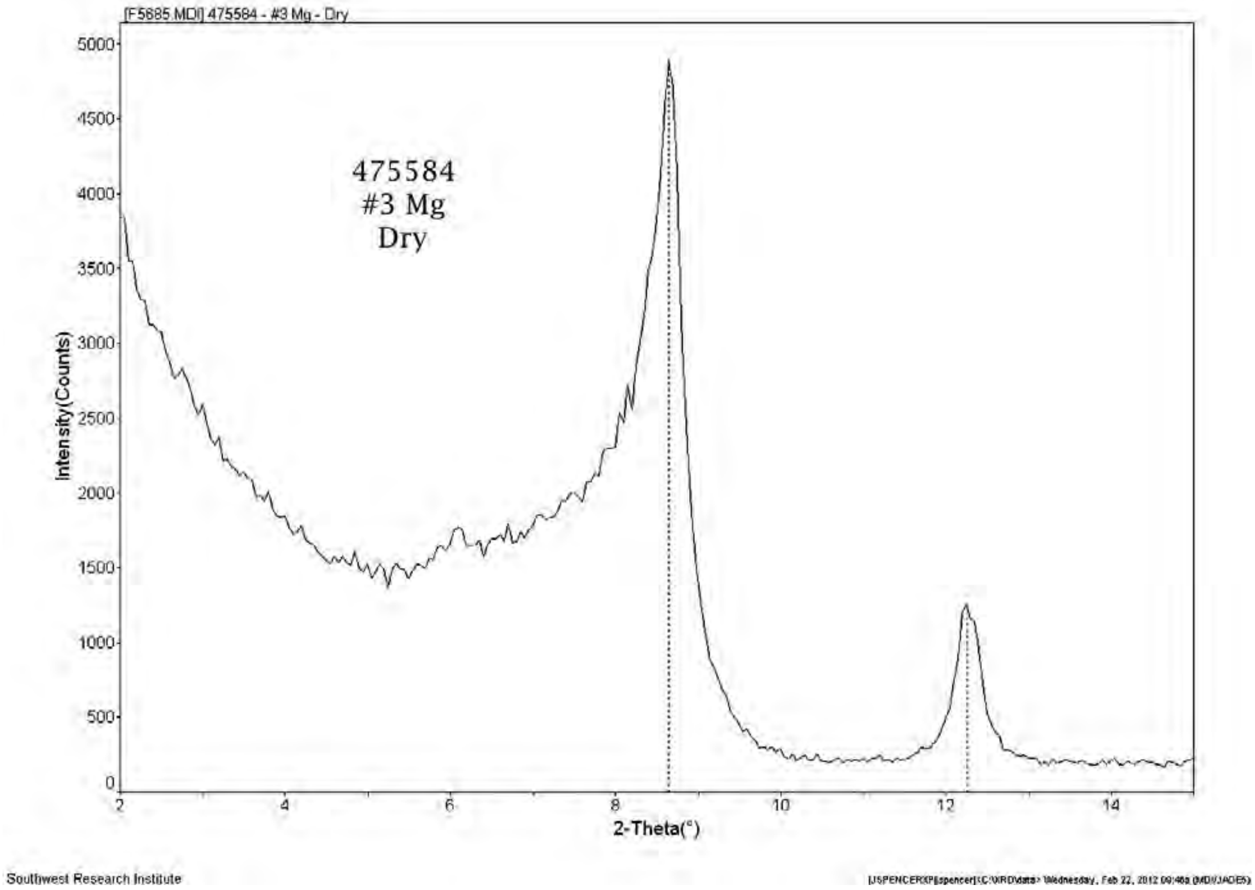
Figure 27 WDMW03B-07-CU10 (SwRI# 475583) K-saturated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 18.4)
DATE: Thursday, Mar 08, 2012 12:49p
FILE: [F5743.MDI] #4 KCl - after bake
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2841, 03/07/12 10:28
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.417  13.7635  854     185    9.4   1655    8.0  0.358    232
  8.652  10.2114  878    1963  100.0  20711  100.0  0.422    194
```

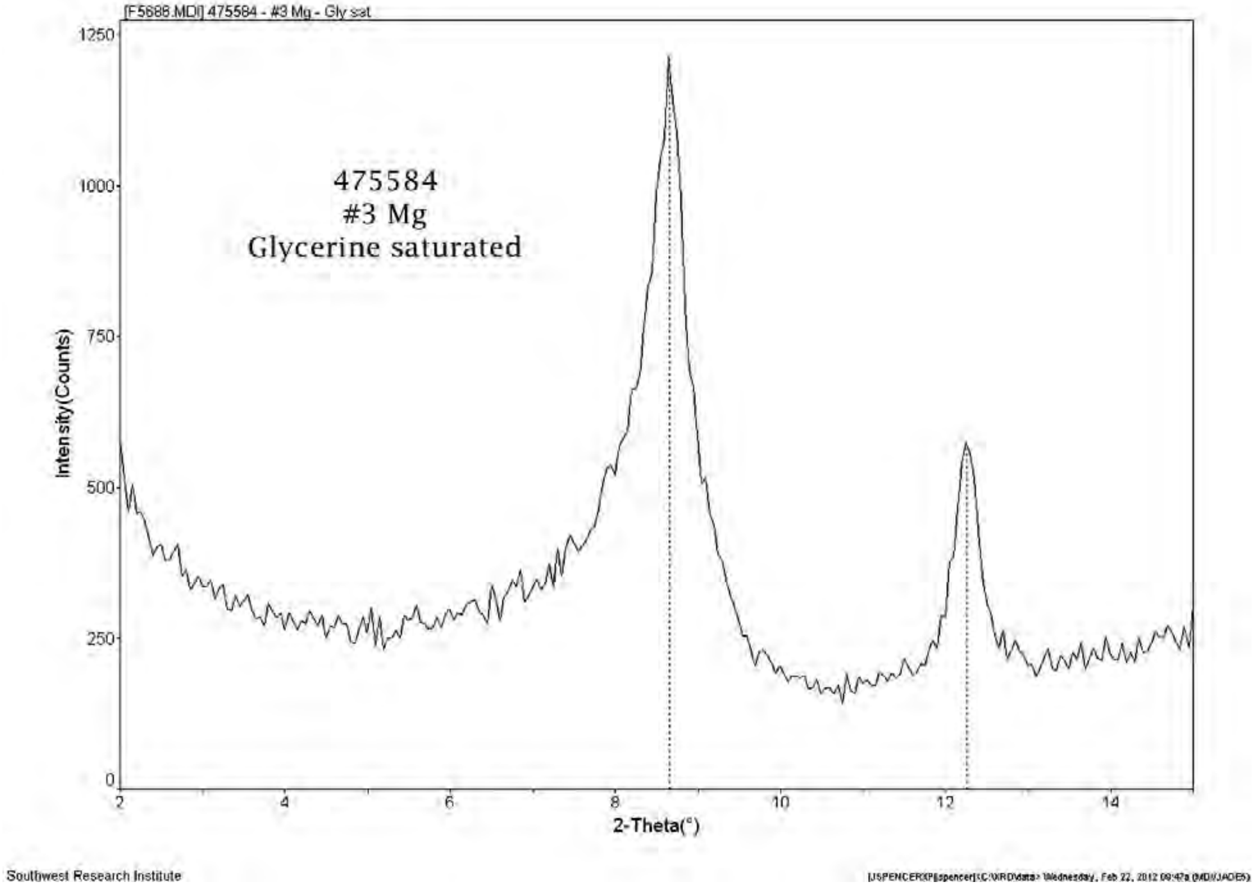
Figure 28 WDMW03B-07-CU10 (SwRI# 475583) K-saturated and heated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 32.6)
DATE: Wednesday, Feb 22, 2012 09:46a
FILE: [F5685.MDI] 475584 - #3 Mg - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=4895, 02/14/12 11:15
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  8.641  10.2246  337    4558  100.0  77445  100.0  0.680    119
 12.255   7.2163  201    1051   23.1   9114   11.8  0.347    241
```

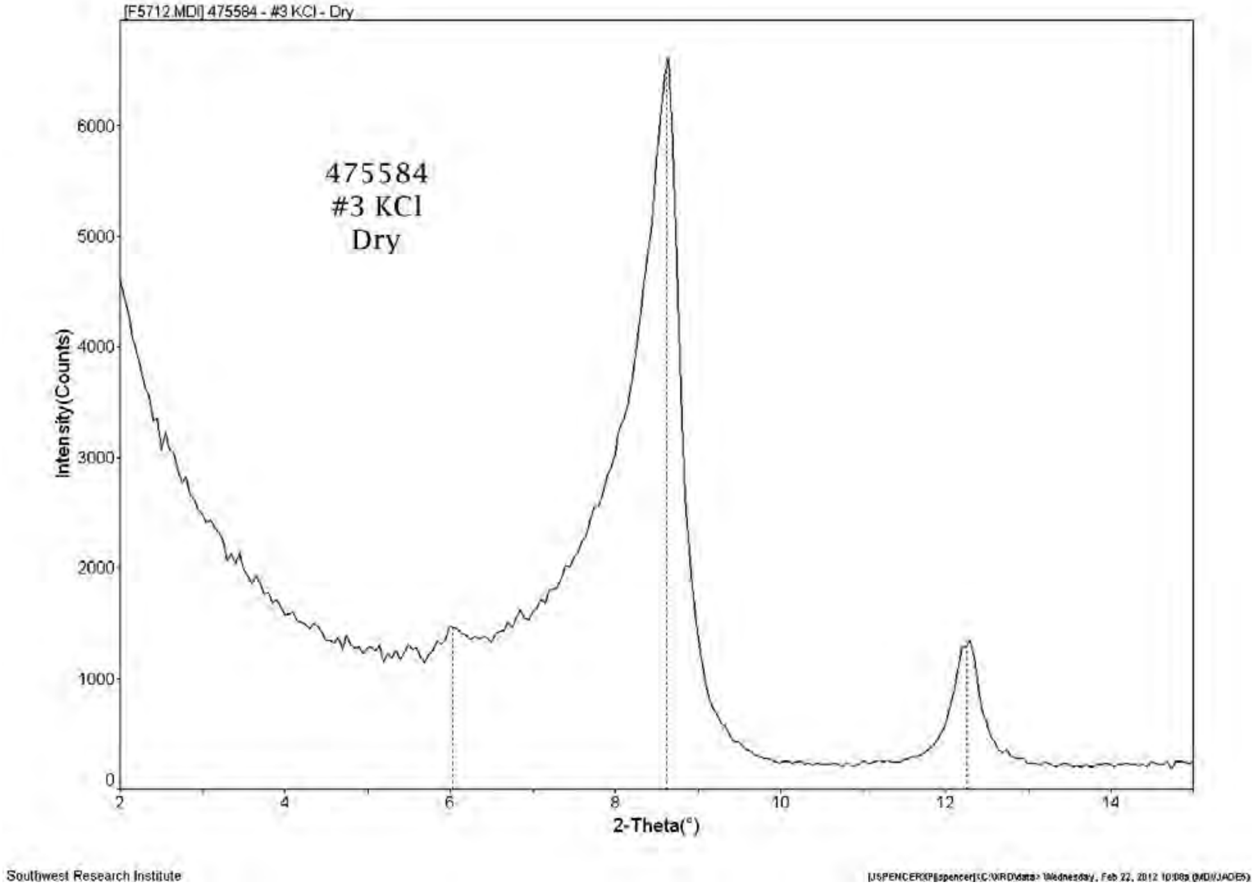
Figure 29 WDMW03B-07-SU10 (SwRI# 475584) Mg-saturated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 12.8)
DATE: Wednesday, Feb 22, 2012 09:47a
FILE: [F5686.MDI] 475584 - #3 Mg - Gly sat
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=1213, 02/14/12 12:02
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  8.652  10.2112  321     892  100.0  11754  100.0  0.527    154
 12.253   7.2173  196     377   42.3   3227   27.5  0.342    244
```

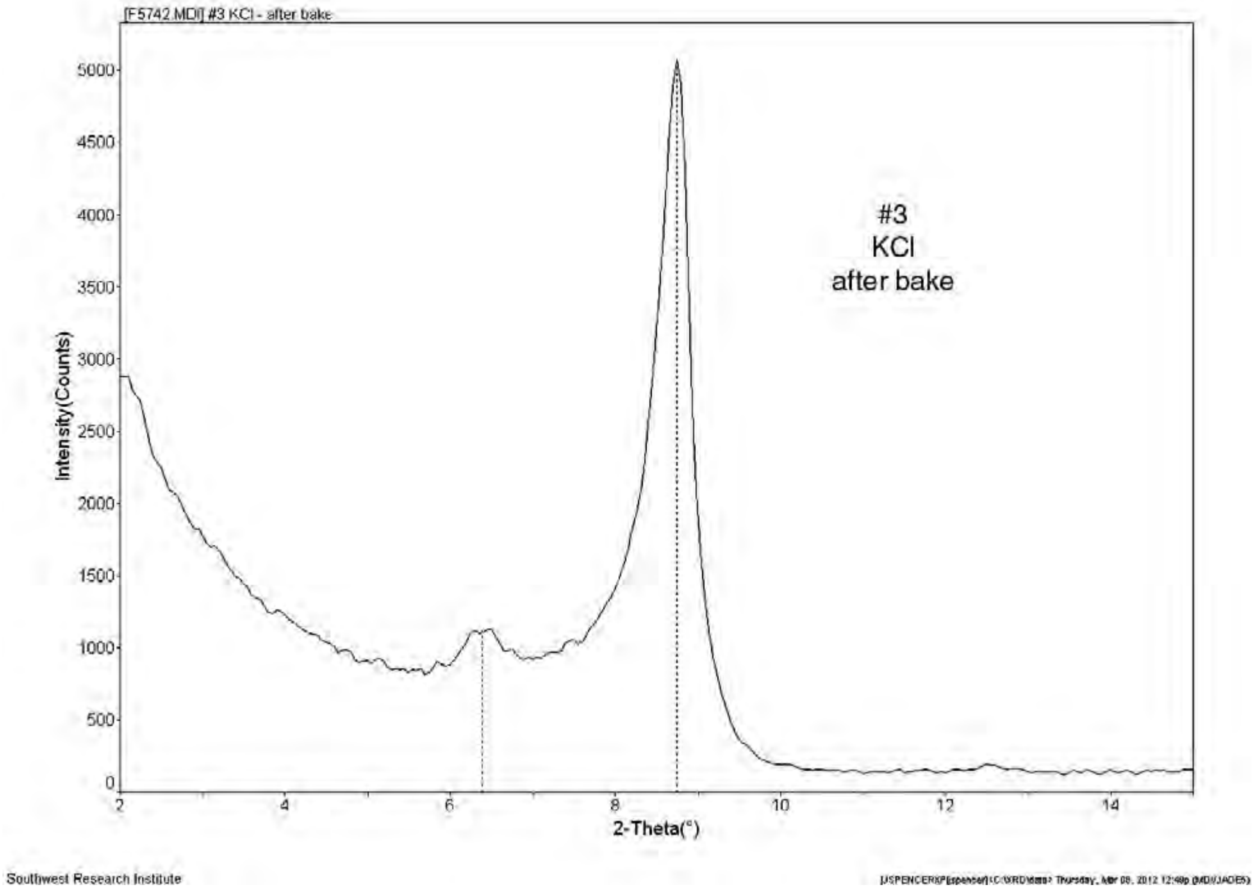
Figure 30 WDMW03B-07-SU10 (SwRI# 475584) Mg-saturated and glycerol solvated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 38.8)
DATE: Wednesday, Feb 22, 2012 10:08a
FILE: [F5712.MDI] 475584 - #3 KCl - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=6621, 02/17/12 10:10
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)    BG  Height     I%    Area     I%   FWHM  XS(A)
  6.025  14.6574  1286     175    2.8     623    0.6  0.142    785
  8.619  10.2503   307    6314  100.0  101626  100.0  0.644    125
 12.255   7.2166   223    1117   17.7    9992    9.8  0.358    233
```

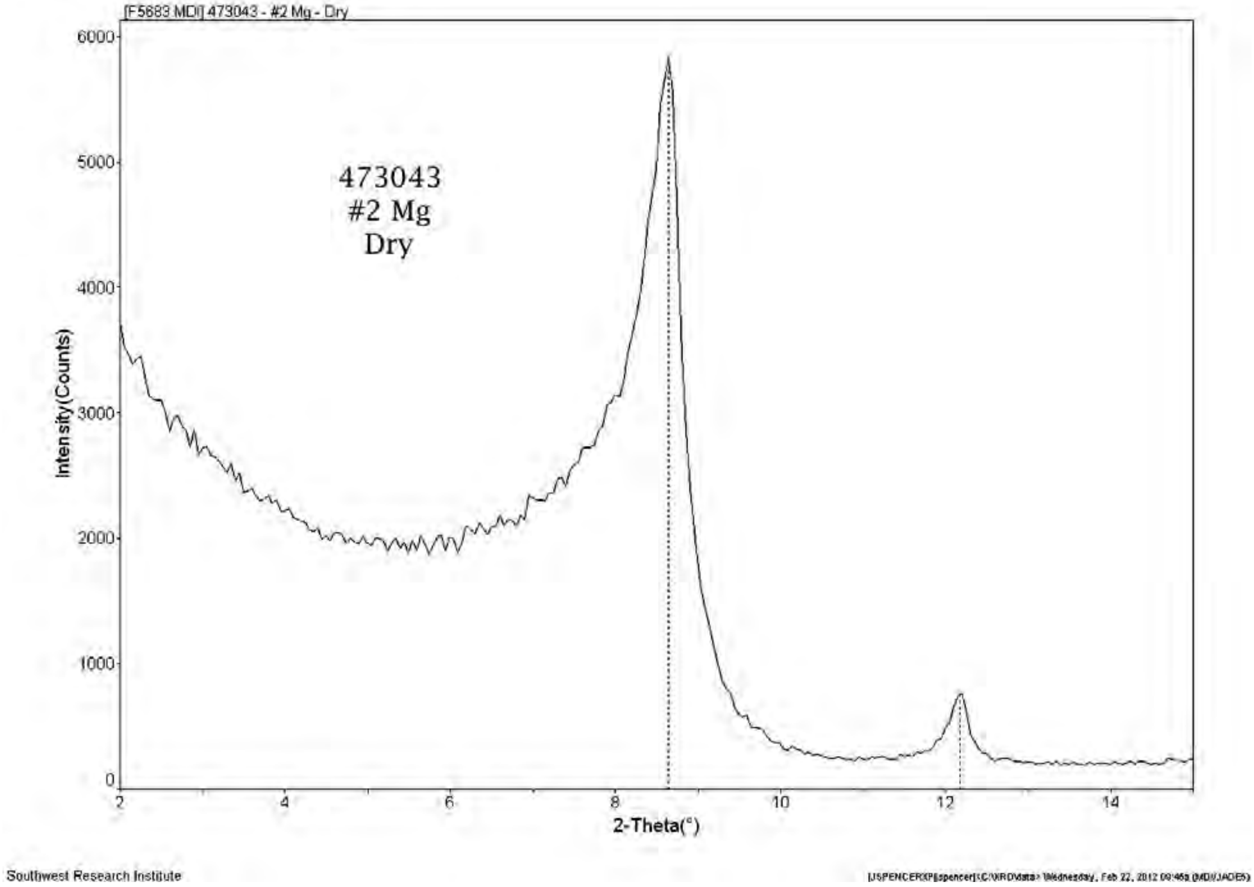
Figure 31 WDMW03B-07-SU10 (SwRI# 475584) K-saturated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 34.1)
DATE: Thursday, Mar 08, 2012 12:49p
FILE: [F5742.MDI] #3 KCl - after bake
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=5075, 03/06/12 15:57
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.384  13.8336  898     221    4.6   2087    3.0  0.378    218
  8.739  10.1105  220    4855  100.0  69295  100.0  0.571    142
```

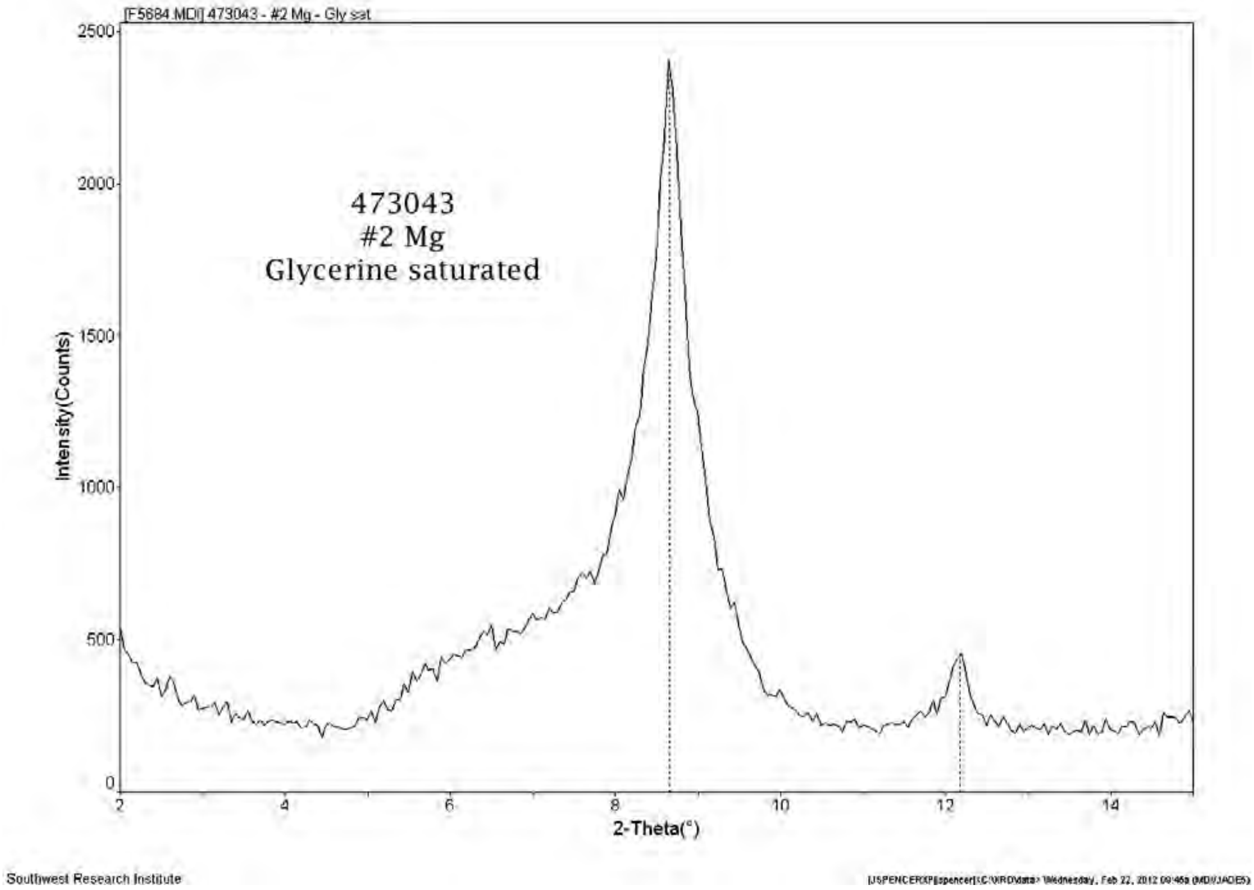
Figure 32 WDMW03B-07-SU10 (SwRI# 475584) K-saturated and heated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 35.0)
DATE: Wednesday, Feb 22, 2012 09:45a
FILE: [F5683.MDI] 473043 - #2 Mg - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=5836, 02/14/12 09:21
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  8.647  10.2179  491    5345  100.0  96683  100.0  0.724    111
 12.168   7.2679  218     537   10.0   3849    4.0  0.287    297
```

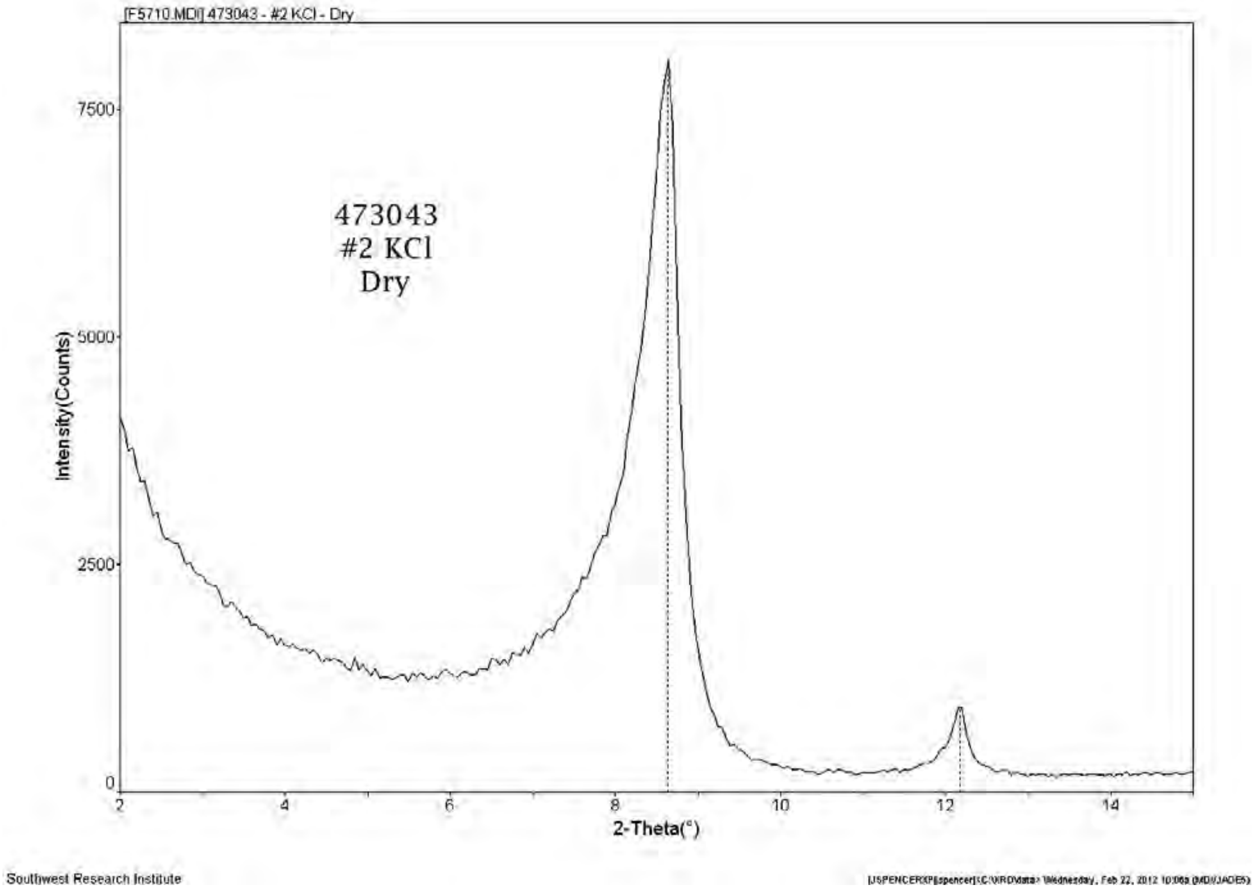
Figure 33 WDSB21-07-19.5 (SwRI# 473043) Mg-saturated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 18.6)
DATE: Wednesday, Feb 22, 2012 09:46a
FILE: [F5684.MDI] 473043 - #2 Mg - Gly sat.
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2406, 02/14/12 10:18
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  8.653  10.2109  579    1827  100.0  22802  100.0  0.499    163
 12.168   7.2679  207     246   13.5   1956    8.6  0.318    265
```

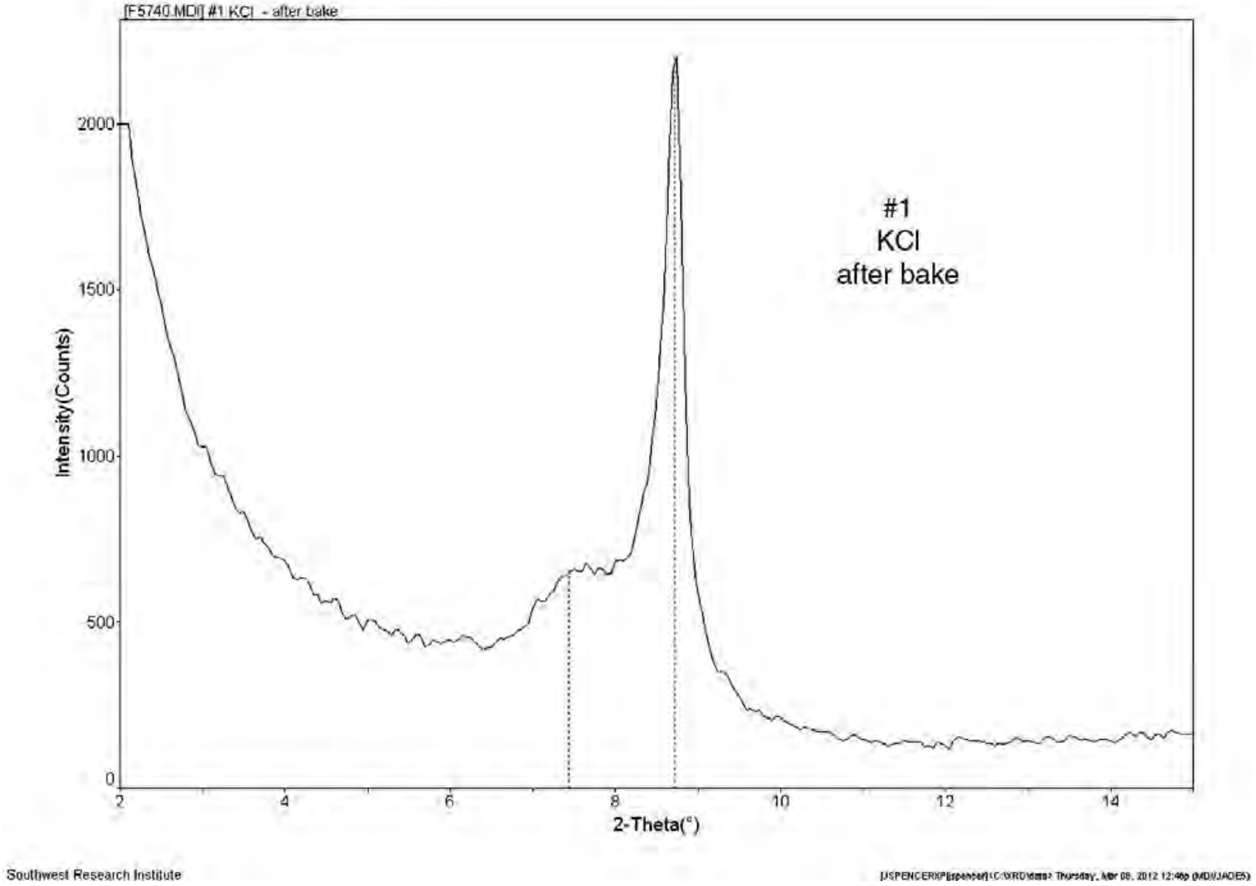
Figure 34 WDSB21-07-19.5 (SwRI# 473043) Mg-saturated and glycerol solvated XRD



```
JADE: Peak Search Report (2 Peaks, Max P/N = 42.8)
DATE: Wednesday, Feb 22, 2012 10:07a
FILE: [F5710.MDI] 473043 - #2 KCl - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=8050, 02/17/12 08:58
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)    BG  Height     I%     Area     I%   FWHM  XS(A)
  8.630  10.2374   375    7675  100.0   112777  100.0  0.588    138
 12.168   7.2679   192     730    9.5     5070    4.5  0.278    308
```

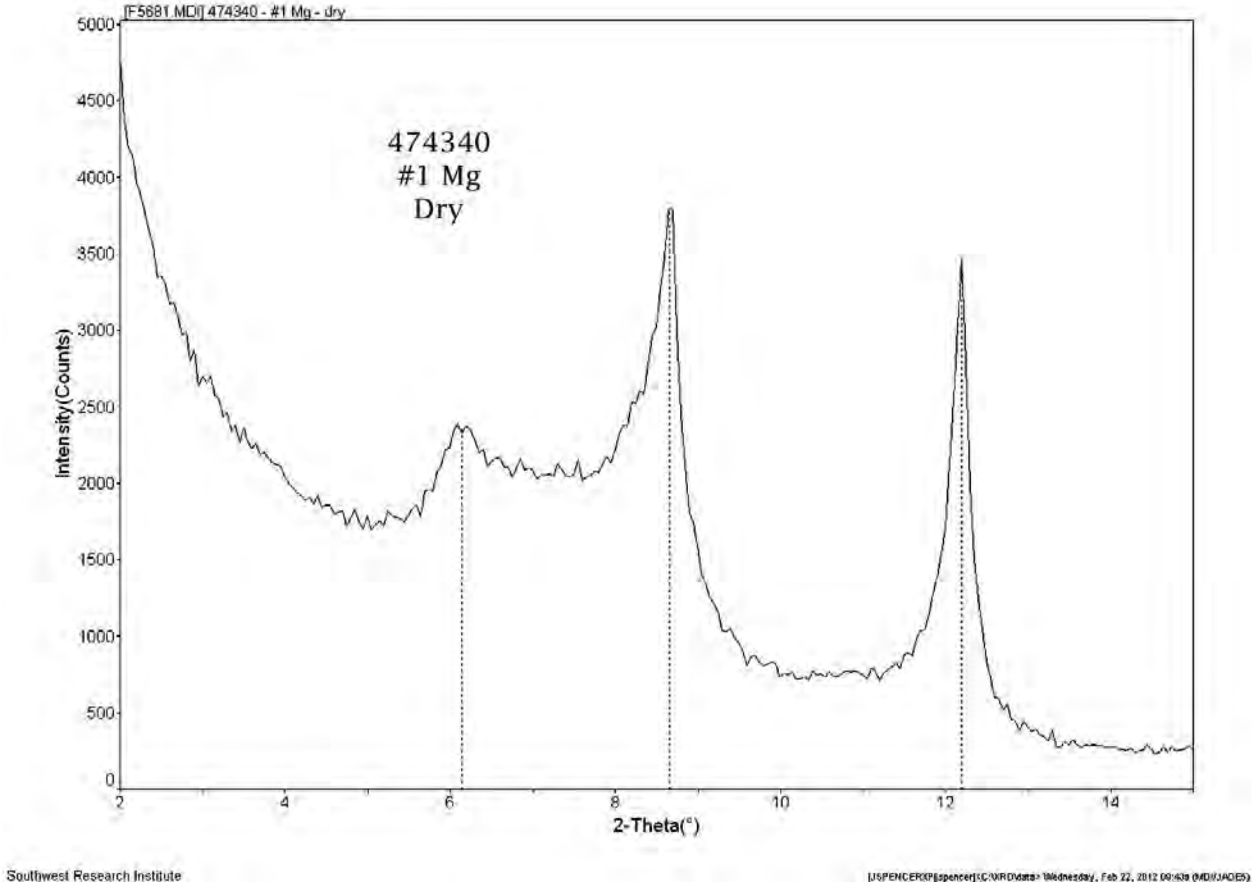
Figure 35 WDSB21-07-19.5 (SwRI# 473043) K-saturated XRD



```
JADE: Peak Search Report (1 Peaks, Max P/N = 22.8)
DATE: Thursday, Mar 08, 2012 12:48p
FILE: [F5741.MDI] #2 KCl - after bake
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=3051, 03/06/12 15:14
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)    BG  Height     I%    Area     I%    FWHM  XS(A)
  8.760  10.0855  537    2514  100.0  33833  100.0  0.538    151
```

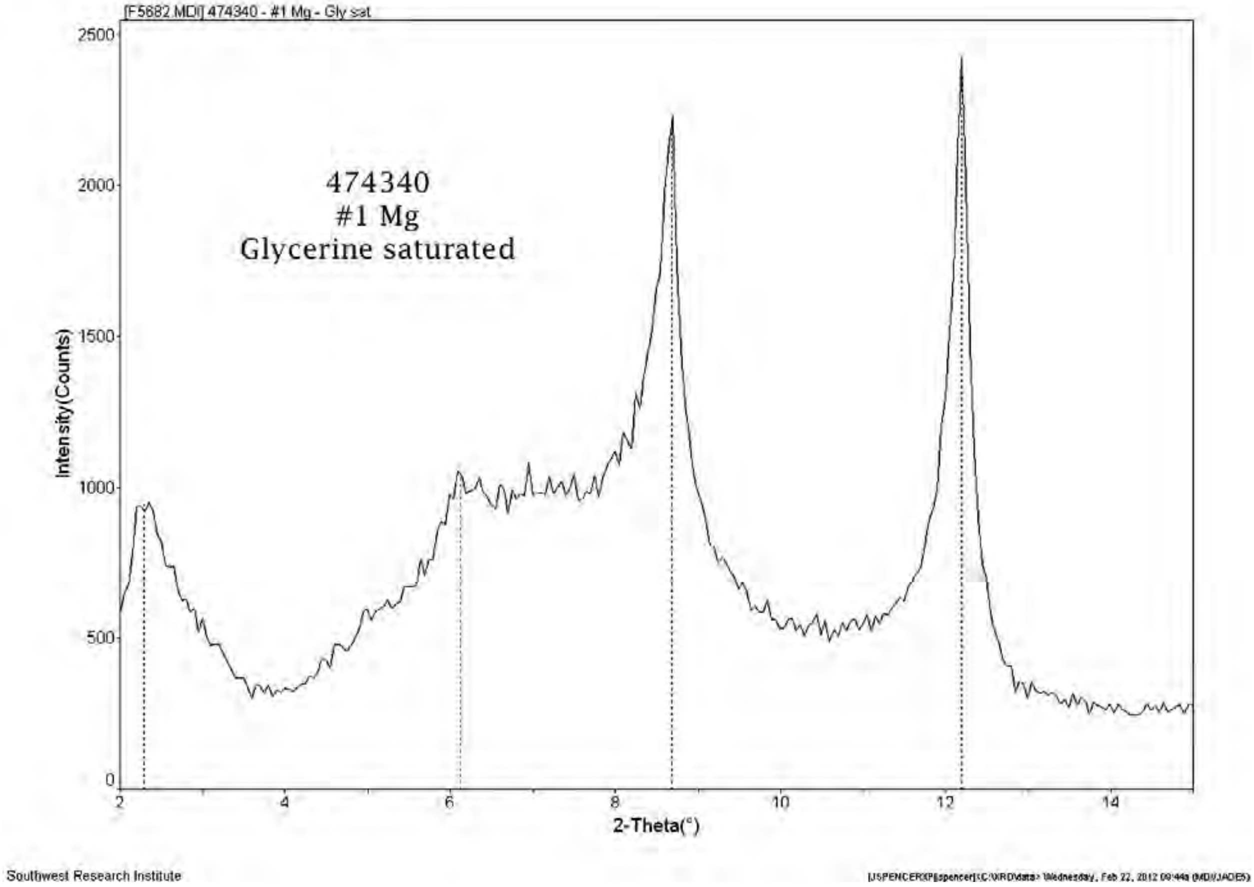
Figure 36 WDSB21-07-19.5 (SwRI# 473043) K-saturated and heated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 26.7)
DATE: Wednesday, Feb 22, 2012 09:41a
FILE: [F5681.MDI] 474340 - #1 Mg - dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=4786, 02/13/12 15:59
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta      d(A)    BG  Height     I%    Area     I%   FWHM  XS(A)
  6.145  14.3705  1902     482   15.3    5568   11.4  0.462    176
  8.663  10.1990   883    2908   92.4   48785  100.0  0.671    120
 12.194   7.2521   325    3146  100.0   30934   63.4  0.393    210
```

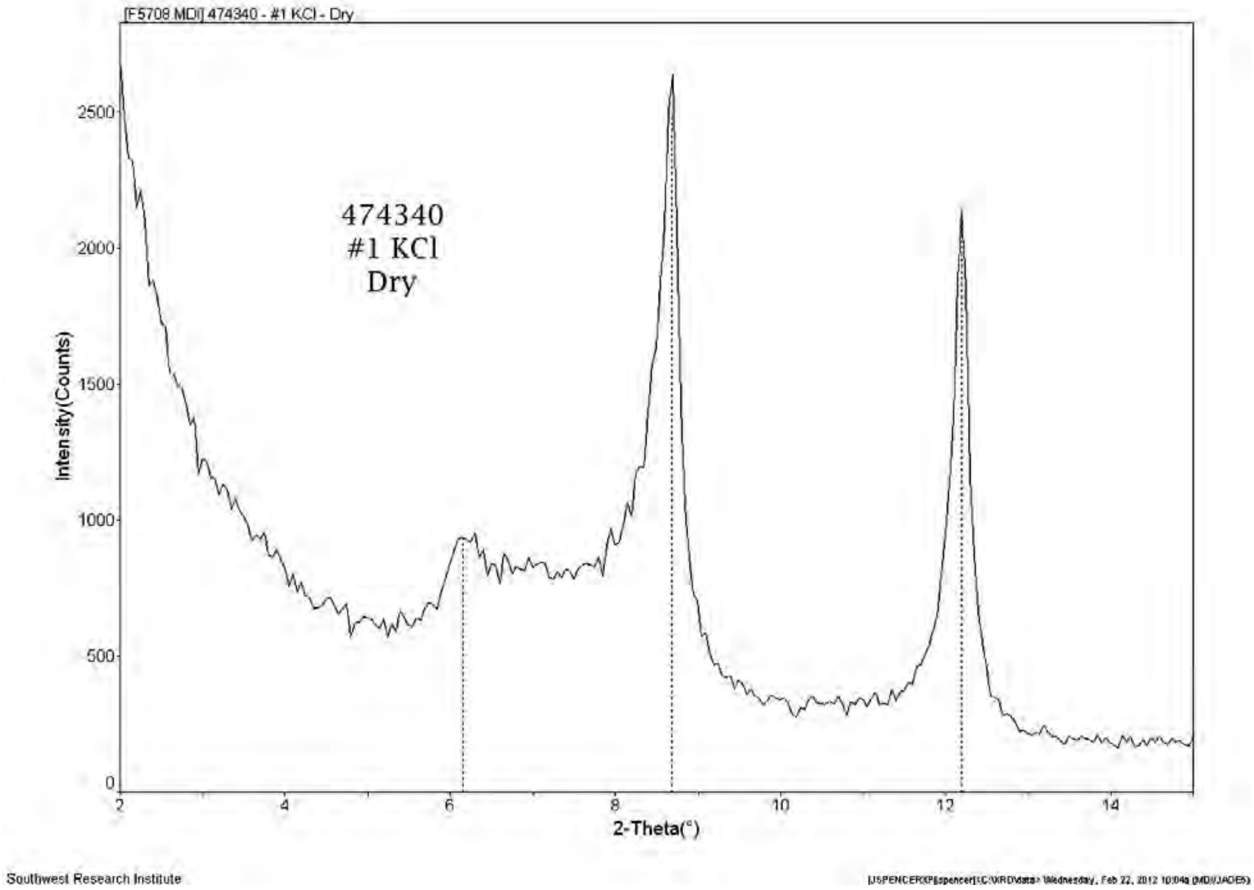
Figure 37 WDSB31-07-2.0 (SWRI# 474340) Mg-saturated XRD



```
JADE: Peak Search Report (4 Peaks, Max P/N = 20.2)
DATE: Wednesday, Feb 22, 2012 09:44a
FILE: [F5682.MDI] 474340 - #1 Mg - Gly sat
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2425, 02/13/12 16:58
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%    Area     I%   FWHM  XS(A)
  2.293  38.4971  597     351   17.6    3645   23.8  0.415    197
  6.124  14.4213  823     226   11.3    1570   10.2  0.278    307
  8.684  10.1736  826    1404   70.5   12565   81.9  0.358    232
 12.189   7.2550  433    1992  100.0   15339  100.0  0.308    274
```

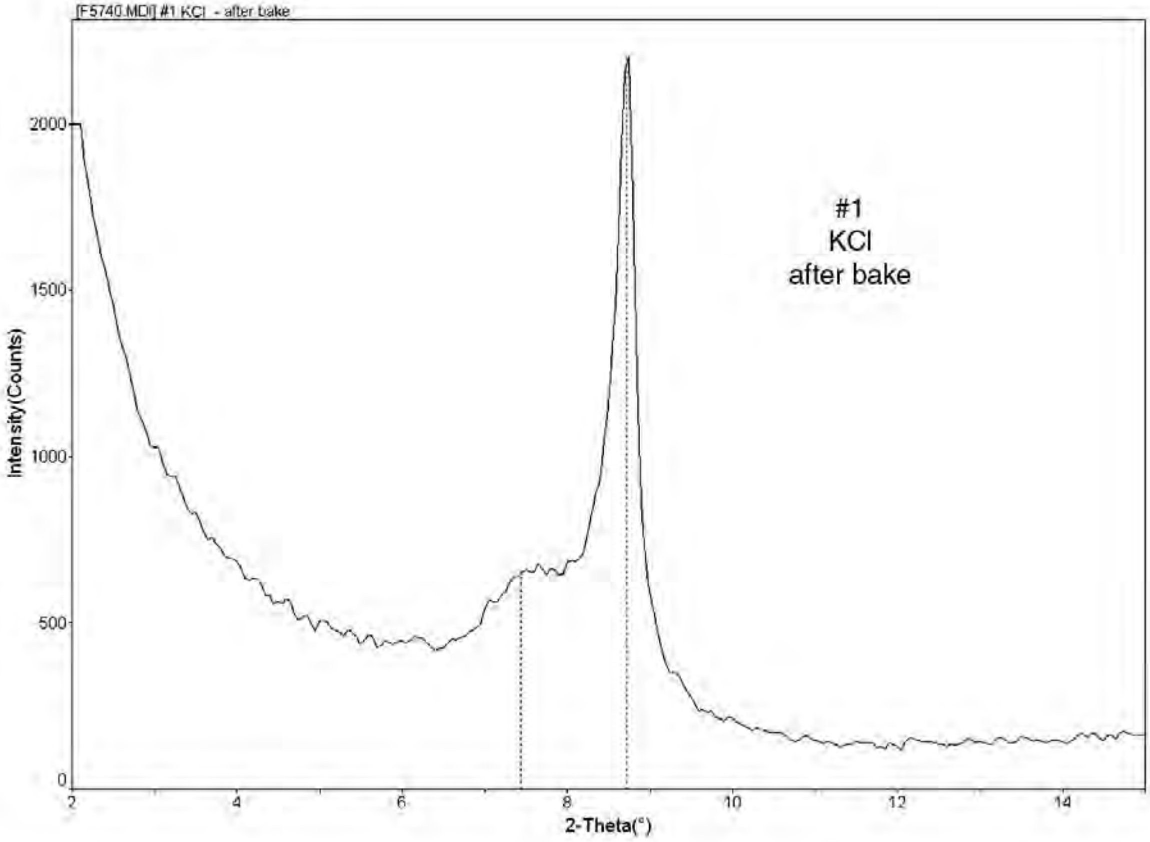
Figure 38 WDSB31-07-2.0 (SWRI# 474340) Mg-saturated and glycerol solvated XRD



```
JADE: Peak Search Report (3 Peaks, Max P/N = 21.5)
DATE: Wednesday, Feb 22, 2012 10:05a
FILE: [F5708.MDI] 474340 - #1 KCl - Dry
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2692, 02/16/12 16:07
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  6.150  14.3596  750     186    8.6   1074    4.4  0.231    382
  8.684  10.1736  351    2156  100.0  24370  100.0  0.452    181
 12.189   7.2550  277    1861   86.3  12450   51.1  0.268    322
```

Figure 39 WDSB31-07-2.0 (SWRI# 474340) K-saturated XRD



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[USPENCERXP[spencer] C:\XRD\data> Thursday, Mar 08, 2012 12:46p (MDI/JADE5)

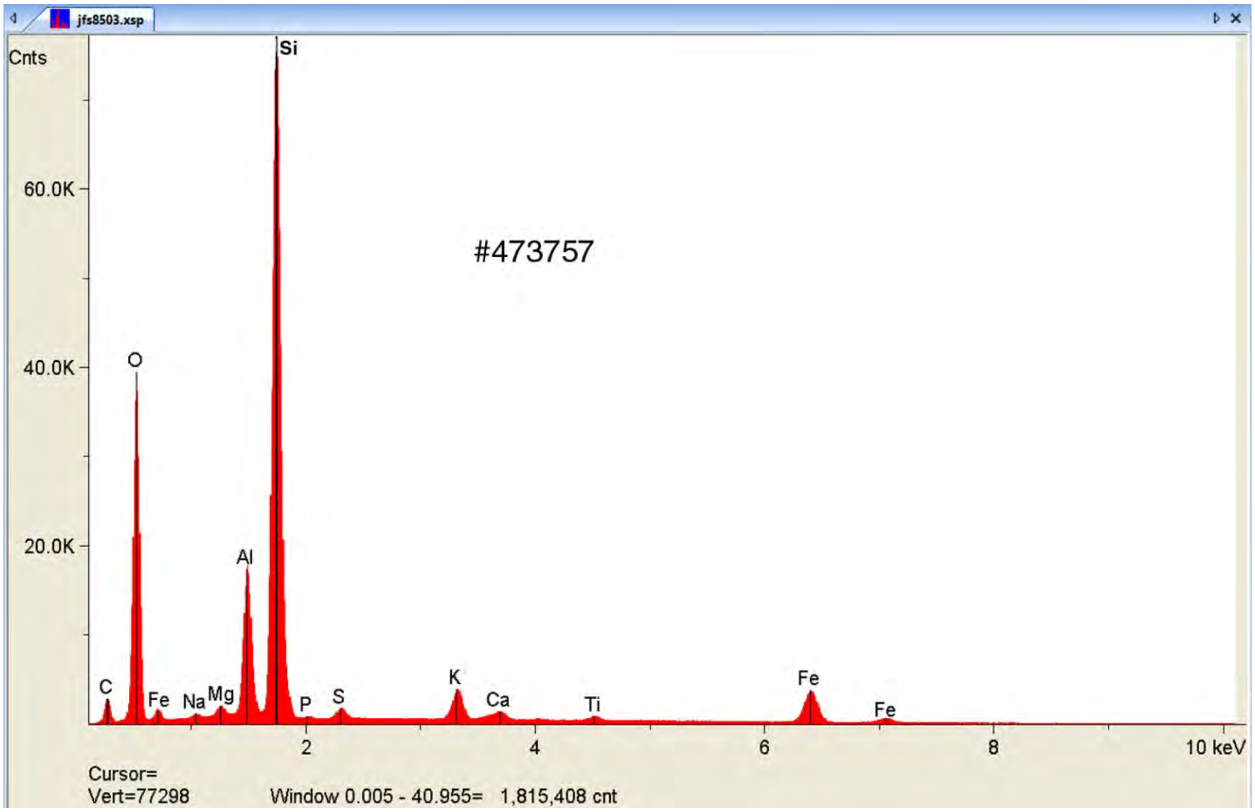
```
JADE: Peak Search Report (2 Peaks, Max P/N = 21.1)
DATE: Thursday, Mar 08, 2012 12:47p
FILE: [F5740.MDI] #1 KCL - after bake
SCAN: 2.0/15.0/0.05/6(sec), Cu, I(max)=2201, 03/06/12 14:28
PEAK: 13-pts/Parabolic Filter, Threshold=3.0, Cutoff=0.1%, BG=3/1.0, Peak-
Top=Summit
NOTE: Intensity = Counts, 2T(0)=0.0(°), Wavelength to Compute d-Spacing =
1.54056A(Cu/K-alpha1)

2-Theta     d(A)   BG  Height     I%   Area     I%   FWHM  XS(A)
  7.437  11.8777  594      63    3.2    532    2.5  0.338    247
  8.717  10.1357  217    1984  100.0  21155  100.0  0.427    192
```

Figure 40 WDSB31-07-2.0 (SWRI# 474340) K-saturated and heated XRD

Appendix E

EDS –XRF Results

Analysis Report: jfs8503



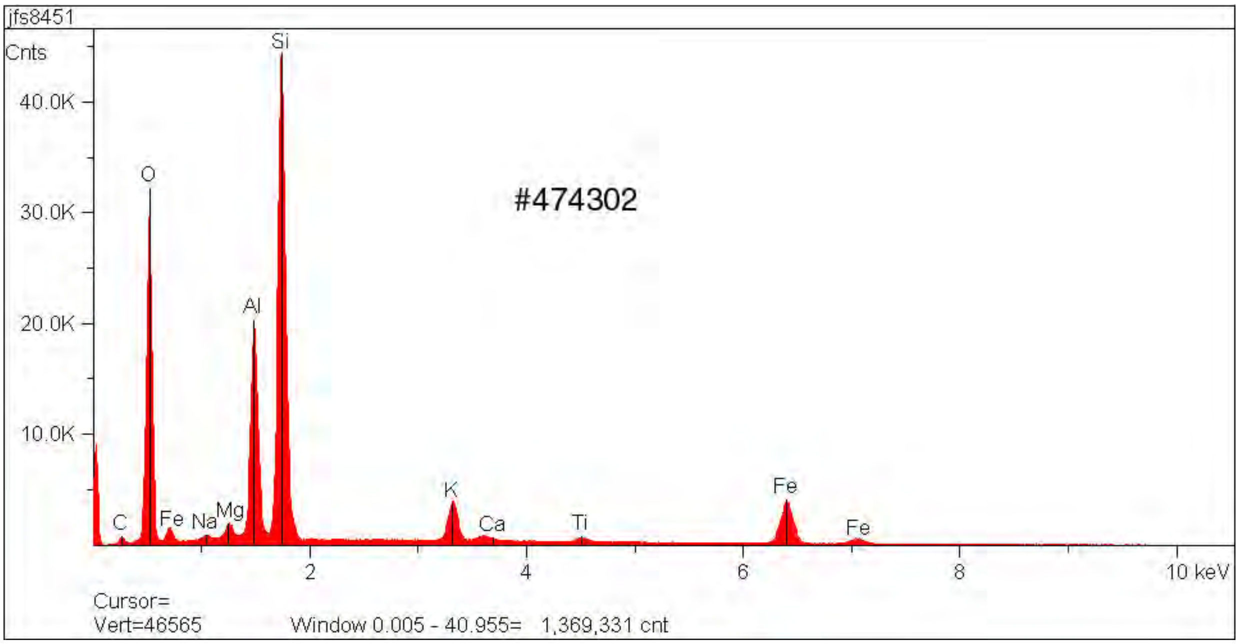
Elt.	Line	Intensity (c/s)	Error 2-sig	Atomic %	Conc	Units	
Na	Ka	9.68	0.888	0.62	0.47	wt.%	
Mg	Ka	29.69	1.155	1.19	0.96	wt.%	
Al	Ka	457.57	2.675	13.93	12.43	wt.%	
Si	Ka	2,163.65	5.469	71.48	66.43	wt.%	
P	Ka	1.74	0.911	0.11	0.11	wt.%	
S	Ka	35.10	1.071	1.57	1.67	wt.%	
K	Ka	118.32	1.523	3.42	4.42	wt.%	
Ca	Ka	36.06	1.081	1.02	1.36	wt.%	
Ti	Ka	19.54	0.962	0.55	0.87	wt.%	
Fe	Ka	167.72	1.646	6.11	11.28	wt.%	
				100.00	100.00	wt.%	Total

kV 20.0
Takeoff Angle 23.0°
Elapsed Livetime 300.0

Note: Results do not include elements with Z<11 (Na).

Figure 1 WDSB02-07-24.5 (SwRI#473757) Bulk EDS-XRF

Analysis Report: jfs8451



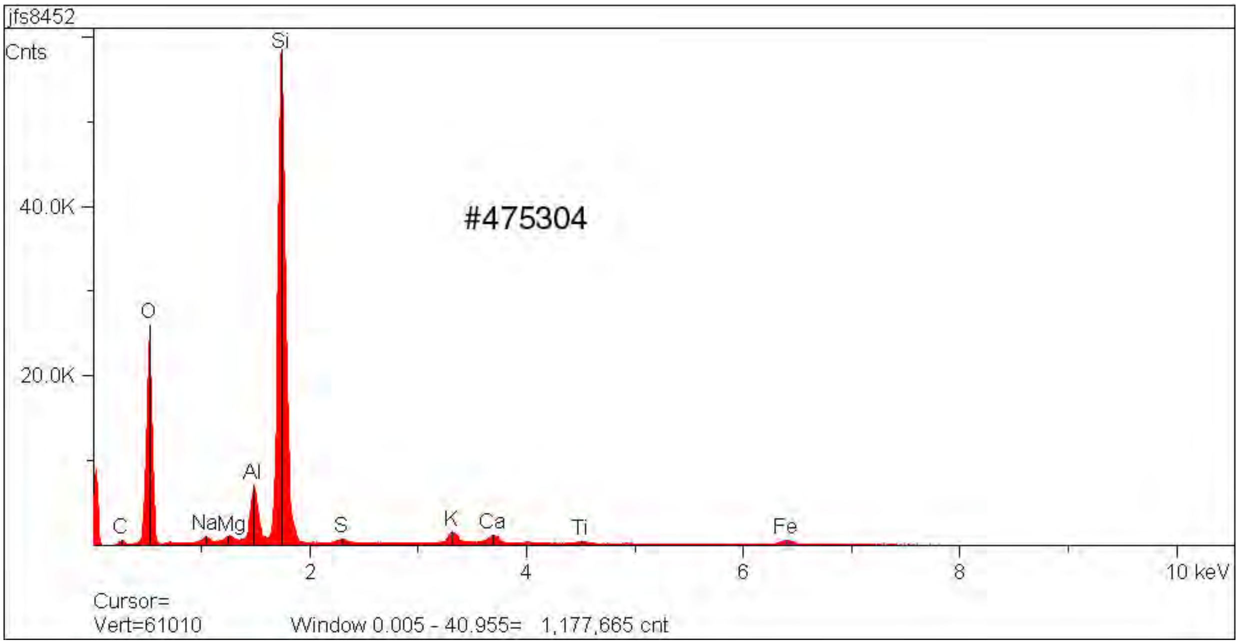
Elt.	Line	Intensity (c/s)	Error 2-sig	Atomic %	Conc	Units	
Na	Ka	13.57	1.155	0.76	0.57	wt.%	
Mg	Ka	57.60	1.613	1.99	1.58	wt.%	
Al	Ka	833.51	4.273	22.11	19.49	wt.%	
Si	Ka	1,987.96	6.428	61.76	56.66	wt.%	
K	Ka	189.31	2.269	4.33	5.54	wt.%	
Ca	Ka	13.98	1.232	0.32	0.41	wt.%	
Ti	Ka	28.71	1.295	0.64	1.00	wt.%	
Fe	Ka	276.10	2.513	8.08	14.74	wt.%	
				100.00	100.00	wt.%	Total

File SP0
kV 20.0
Takeoff Angle 23.0°
Elapsed Livetime 200.0

Note: Results do not include elements with Z<11 (Na).

Figure 2 WDSB29-07-4.5 (SwRI#474302) Bulk EDS-XRF

Analysis Report: jfs8452



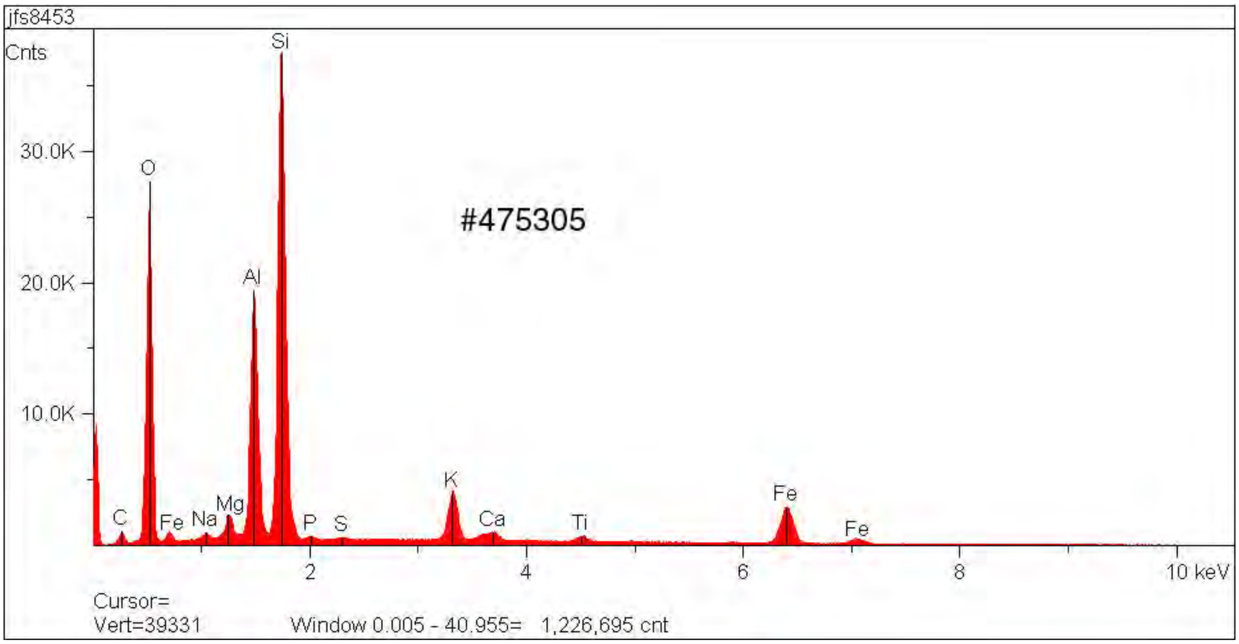
Elt.	Line	Intensity (c/s)	Error 2-sig	Atomic %	Conc	Units	
Na	Ka	23.02	1.173	1.36	1.08	wt.%	
Mg	Ka	23.87	1.325	0.92	0.77	wt.%	
Al	Ka	279.60	2.647	8.29	7.72	wt.%	
Si	Ka	2,597.54	7.302	82.19	79.68	wt.%	
S	Ka	16.58	1.105	0.88	0.98	wt.%	
K	Ka	67.92	1.522	2.28	3.07	wt.%	
Ca	Ka	56.71	1.428	1.84	2.55	wt.%	
Ti	Ka	18.67	1.107	0.61	1.00	wt.%	
Fe	Ka	39.29	1.185	1.63	3.15	wt.%	
				100.00	100.00	wt.%	Total

File SP0
kV 20.0
Takeoff Angle 23.0°
Elapsed Livetime 200.0

Note: Results do not include elements with Z<11 (Na).

Figure 3 WDMW04B-07-BE10 (SwRI# 475304) Bulk EDS-XRF

Analysis Report: jfs8453



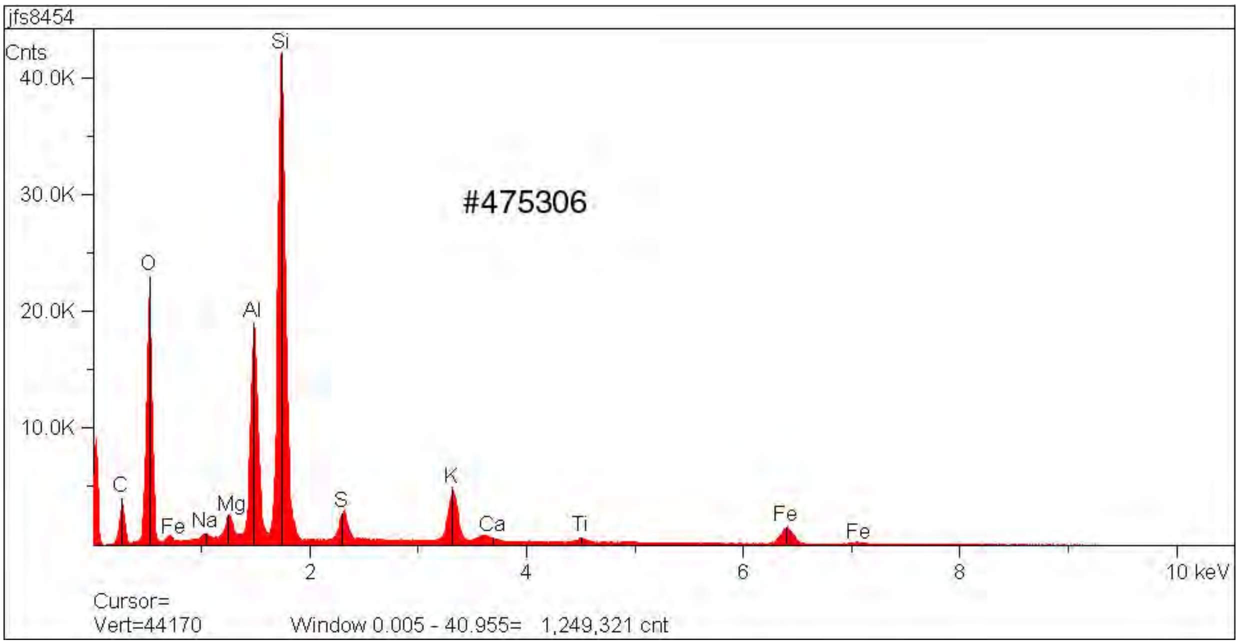
Elt.	Line	Intensity (c/s)	Error 2-sig	Atomic %	Conc	Units	
Na	Ka	15.83	1.145	0.95	0.72	wt.%	
Mg	Ka	72.81	1.676	2.73	2.18	wt.%	
Al	Ka	804.21	4.193	23.59	20.96	wt.%	
Si	Ka	1,665.84	5.898	58.67	54.27	wt.%	
P	Ka	6.50	1.152	0.34	0.35	wt.%	
S	Ka	6.04	1.103	0.24	0.25	wt.%	
K	Ka	200.47	2.273	5.11	6.59	wt.%	
Ca	Ka	40.61	1.372	1.04	1.37	wt.%	
Ti	Ka	27.12	1.253	0.68	1.08	wt.%	
Fe	Ka	202.66	2.187	6.66	12.24	wt.%	
				100.00	100.00	wt.%	Total

File SP0
kV 20.0
Takeoff Angle 23.0°
Elapsed Livetime 200.0

Note: Results do not include elements with Z<11 (Na).

Figure 4 WDMW04B-07-CU10 (SwRI# 475305) Bulk EDS-XRF

Analysis Report: jfs8454



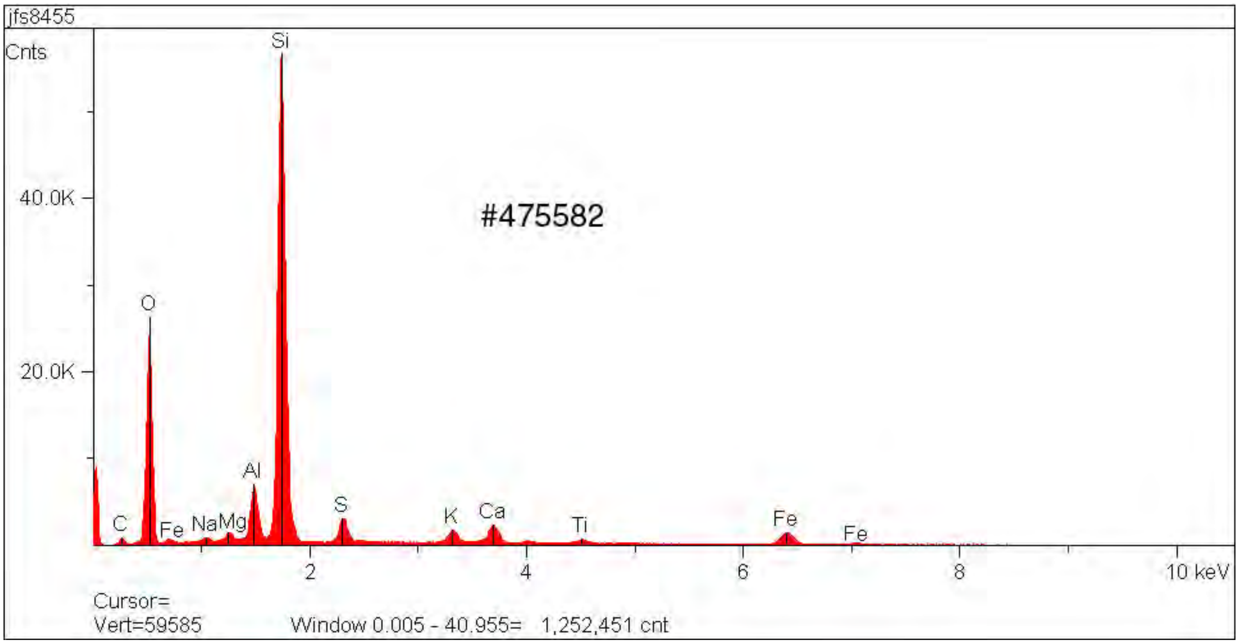
Elt.	Line	Intensity (c/s)	Error 2-sig	Atomic %	Conc	Units	
Na	Ka	17.34	1.203	0.90	0.70	wt.%	
Mg	Ka	79.62	1.759	2.66	2.18	wt.%	
Al	Ka	778.02	4.145	20.80	18.92	wt.%	
Si	Ka	1,874.72	6.248	60.59	57.37	wt.%	
S	Ka	118.38	1.879	4.60	4.98	wt.%	
K	Ka	230.73	2.407	6.02	7.93	wt.%	
Ca	Ka	17.78	1.189	0.47	0.63	wt.%	
Ti	Ka	22.66	1.198	0.58	0.94	wt.%	
Fe	Ka	102.27	1.638	3.37	6.35	wt.%	
				100.00	100.00	wt.%	Total

File SP0
kV 20.0
Takeoff Angle 23.0°
Elapsed Livetime 200.0

Note: Results do not include elements with Z<11 (Na).

Figure 5 WDMW04B-07-SU10 (SwRI# 475306) Bulk EDS-XRF

Analysis Report: jfs8455



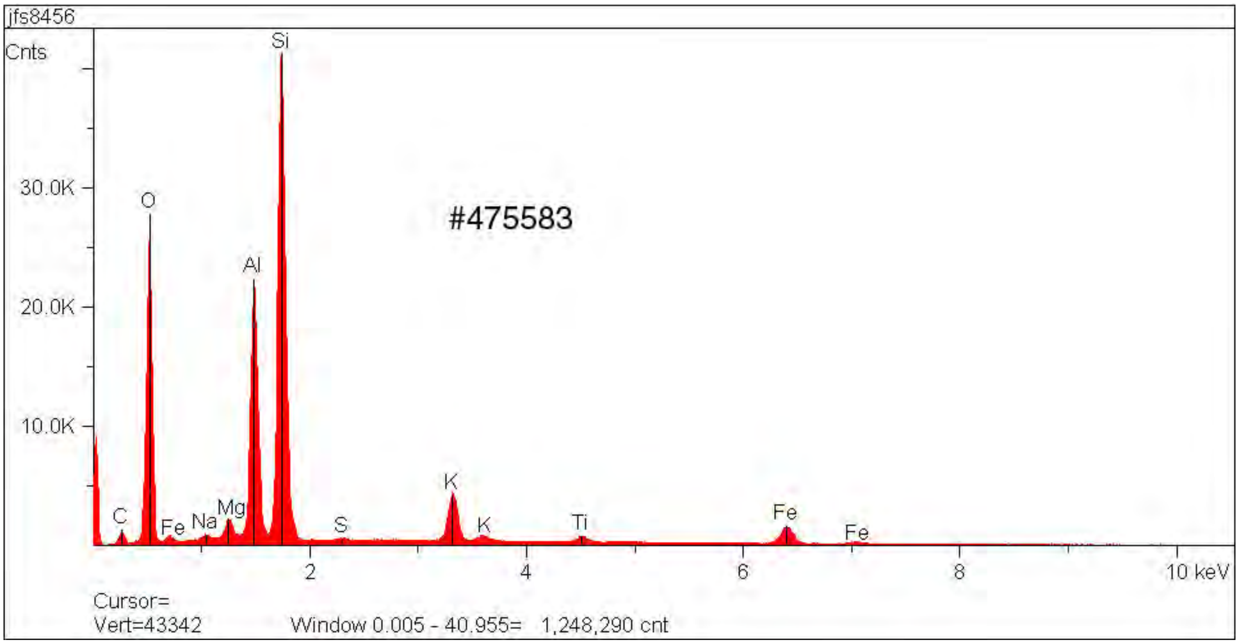
Elt.	Line	Intensity (c/s)	Error 2-sig	Atomic %	Conc	Units	
Na	Ka	16.91	1.150	1.02	0.78	wt.%	
Mg	Ka	36.17	1.438	1.38	1.12	wt.%	
Al	Ka	270.90	2.625	7.83	7.06	wt.%	
Si	Ka	2,526.05	7.207	73.89	69.30	wt.%	
S	Ka	134.79	1.922	5.92	6.33	wt.%	
K	Ka	73.79	1.593	2.16	2.83	wt.%	
Ca	Ka	116.66	1.825	3.32	4.44	wt.%	
Ti	Ka	27.99	1.218	0.80	1.28	wt.%	
Fe	Ka	100.01	1.638	3.68	6.85	wt.%	
				100.00	100.00	wt.%	Total

File SP0
kV 20.0
Takeoff Angle 23.0°
Elapsed Livetime 200.0

Note: Results do not include elements with Z<11 (Na).

Figure 6 WDMW03B-07-BE10 (SwRI# 475582) Bulk EDS-XRF

Analysis Report: jfs8456



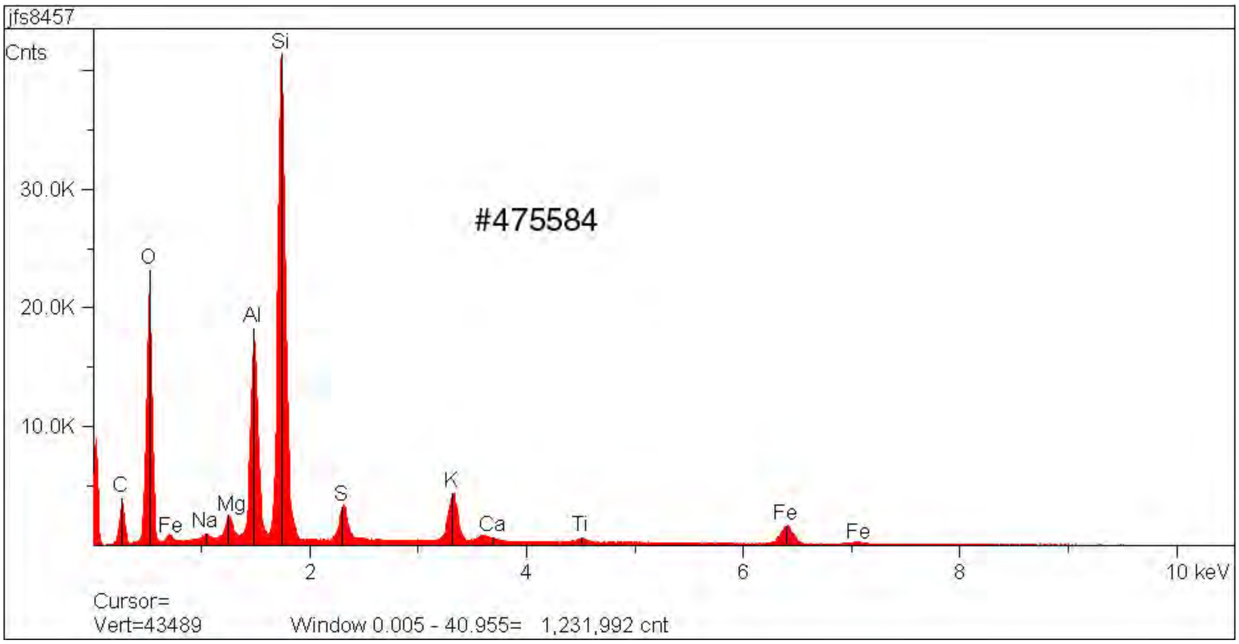
Elt.	Line	Intensity (c/s)	Error 2-sig	Atomic %	Conc	Units	
Na	Ka	14.60	1.137	0.75	0.59	wt.%	
Mg	Ka	67.93	1.655	2.25	1.86	wt.%	
Al	Ka	914.10	4.446	24.28	22.26	wt.%	
Si	Ka	1,832.25	6.169	62.61	59.75	wt.%	
S	Ka	7.82	1.082	0.32	0.35	wt.%	
K	Ka	212.05	2.323	5.56	7.38	wt.%	
Ti	Ka	31.52	1.268	0.81	1.32	wt.%	
Fe	Ka	102.82	1.661	3.42	6.49	wt.%	
				100.00	100.00	wt.%	Total

File SP0
kV 20.0
Takeoff Angle 23.0°
Elapsed Livetime 200.0

Note: Results do not include elements with Z<11 (Na).

Figure 7 WDMW03B-07-CU10 (SwRI# 475583) Bulk EDS-XRF

Analysis Report: jfs8457



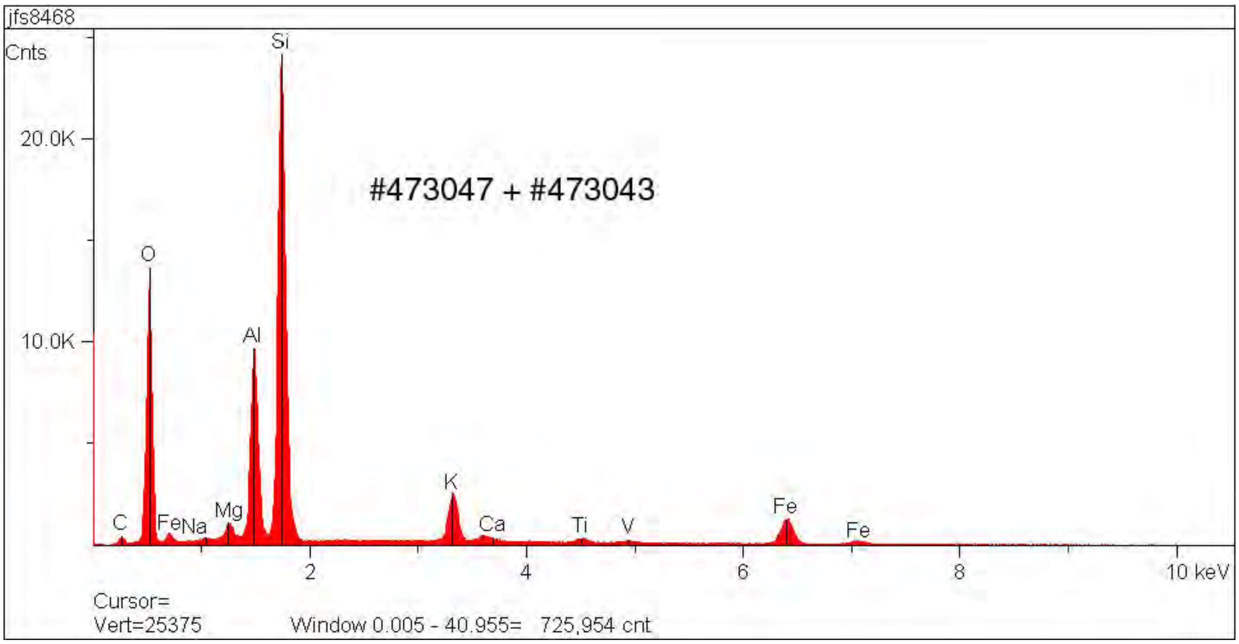
Elt.	Line	Intensity (c/s)	Error 2-sig	Atomic %	Conc	Units	
Na	Ka	16.24	1.178	0.88	0.68	wt.%	
Mg	Ka	76.73	1.732	2.65	2.16	wt.%	
Al	Ka	734.69	4.036	20.20	18.32	wt.%	
Si	Ka	1,837.90	6.191	60.27	56.87	wt.%	
S	Ka	140.72	1.987	5.54	5.97	wt.%	
K	Ka	214.51	2.337	5.72	7.51	wt.%	
Ca	Ka	17.66	1.182	0.47	0.63	wt.%	
Ti	Ka	21.15	1.180	0.55	0.89	wt.%	
Fe	Ka	110.57	1.696	3.71	6.97	wt.%	
				100.00	100.00	wt.%	Total

File SP0
kV 20.0
Takeoff Angle 23.0°
Elapsed Livetime 200.0

Note: Results do not include elements with Z<11 (Na).

Figure 8 WDMW03B-07-SU10 (SwRI# 475584) Bulk EDS-XRF

Analysis Report: jfs8468



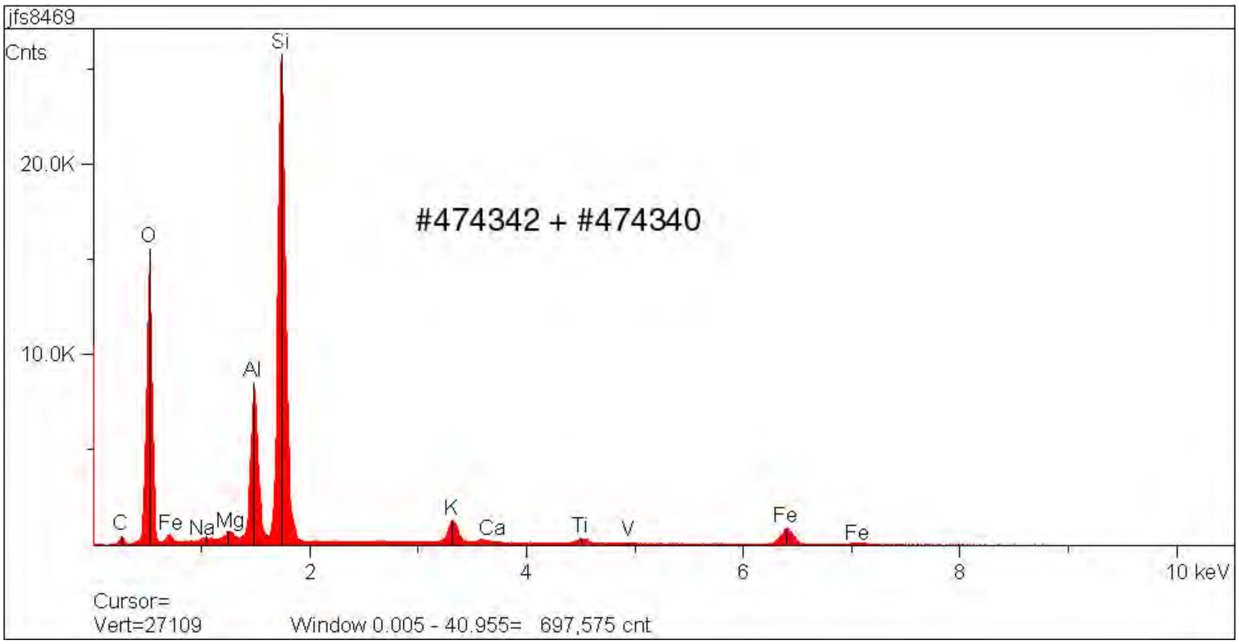
Elt.	Line	Intensity (c/s)	Error 2-sig	Atomic %	Conc	Units	
Na	Ka	2.68	0.514	0.42	0.32	wt.%	
Mg	Ka	22.59	0.779	2.22	1.79	wt.%	
Al	Ka	267.14	1.976	20.55	18.43	wt.%	
Si	Ka	707.39	3.123	64.47	60.17	wt.%	
K	Ka	80.43	1.172	5.73	7.44	wt.%	
Ca	Ka	6.00	0.596	0.43	0.57	wt.%	
Ti	Ka	8.54	0.596	0.60	0.95	wt.%	
V	Ka	3.63	0.513	0.26	0.44	wt.%	
Fe	Ka	58.34	0.973	5.32	9.87	wt.%	
				100.00	100.00	wt.%	Total

File SP0
kV 20.0
Takeoff Angle 23.0°
Elapsed Livetime 300.0

Note: Results do not include elements with Z<11 (Na).

Figure 9 WDSB21-07-19.5 (SwRI# 473043) Bulk EDS-XRF

Analysis Report: jfs8469



Elt.	Line	Intensity (c/s)	Error 2-sig	Atomic %	Conc	Units	
Na	Ka	4.72	0.547	0.75	0.59	wt.%	
Mg	Ka	12.97	0.702	1.32	1.09	wt.%	
Al	Ka	228.37	1.838	18.15	16.63	wt.%	
Si	Ka	755.32	3.224	71.50	68.17	wt.%	
K	Ka	40.69	0.890	3.29	4.36	wt.%	
Ca	Ka	1.85	0.499	0.15	0.20	wt.%	
Ti	Ka	10.25	0.582	0.80	1.30	wt.%	
V	Ka	0.52	0.433	0.04	0.07	wt.%	
Fe	Ka	39.57	0.819	4.00	7.59	wt.%	
				100.00	100.00	wt.%	Total

File SP0
kV 20.0
Takeoff Angle 23.0°
Elapsed Livetime 300.0

Note: Results do not include elements with Z<11 (Na).

Figure 10 WDSB31-07-2.0 (SwRI# 474340) Bulk EDS-XRF

Appendix F

XRD Results for Bulk Sample

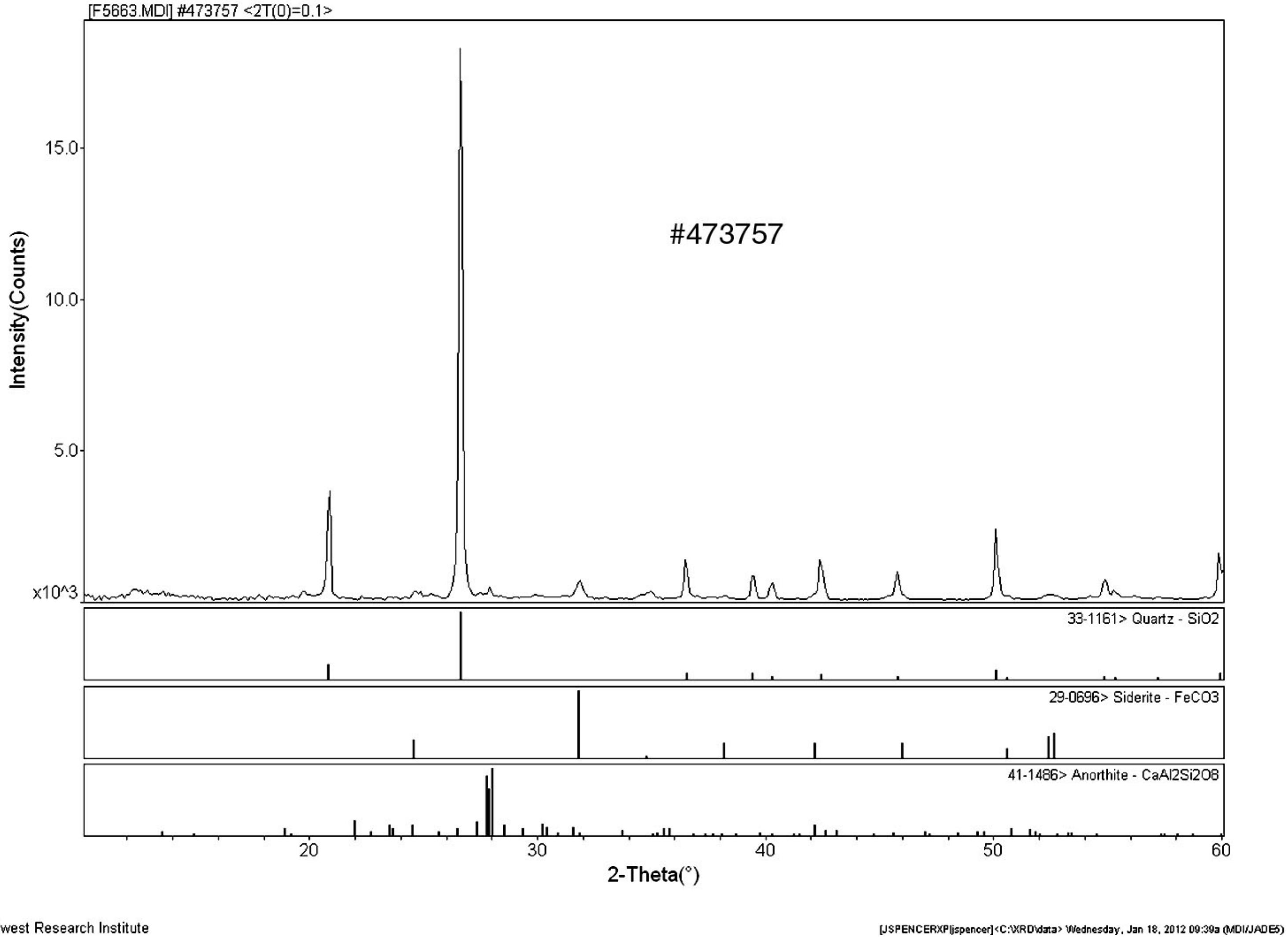


Figure 1 WDSB02-07-24.5 (SwRI#473757) Bulk XRD

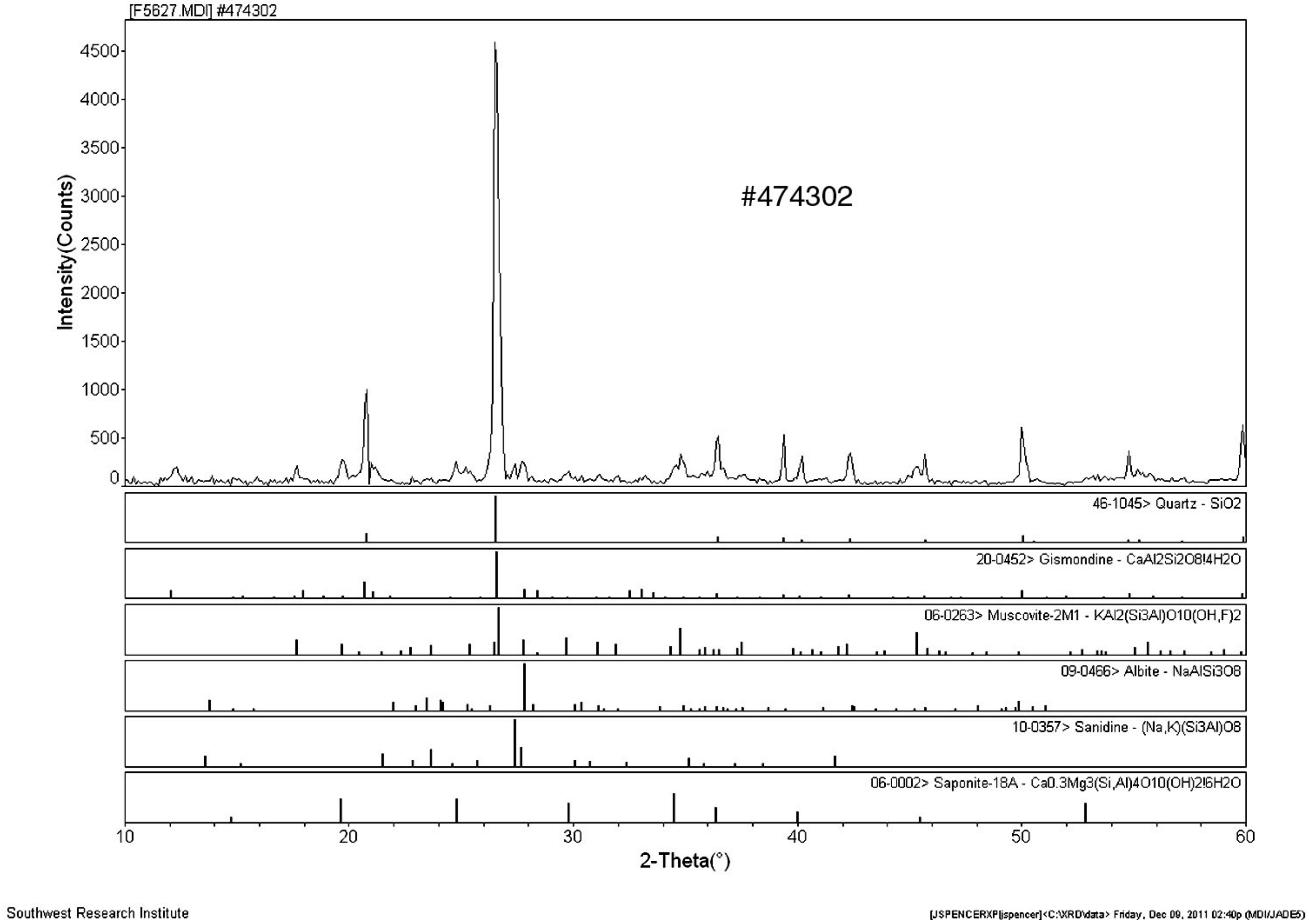


Figure 2 WDSB29-07-4.5 (SwRI#474302) Bulk XRD

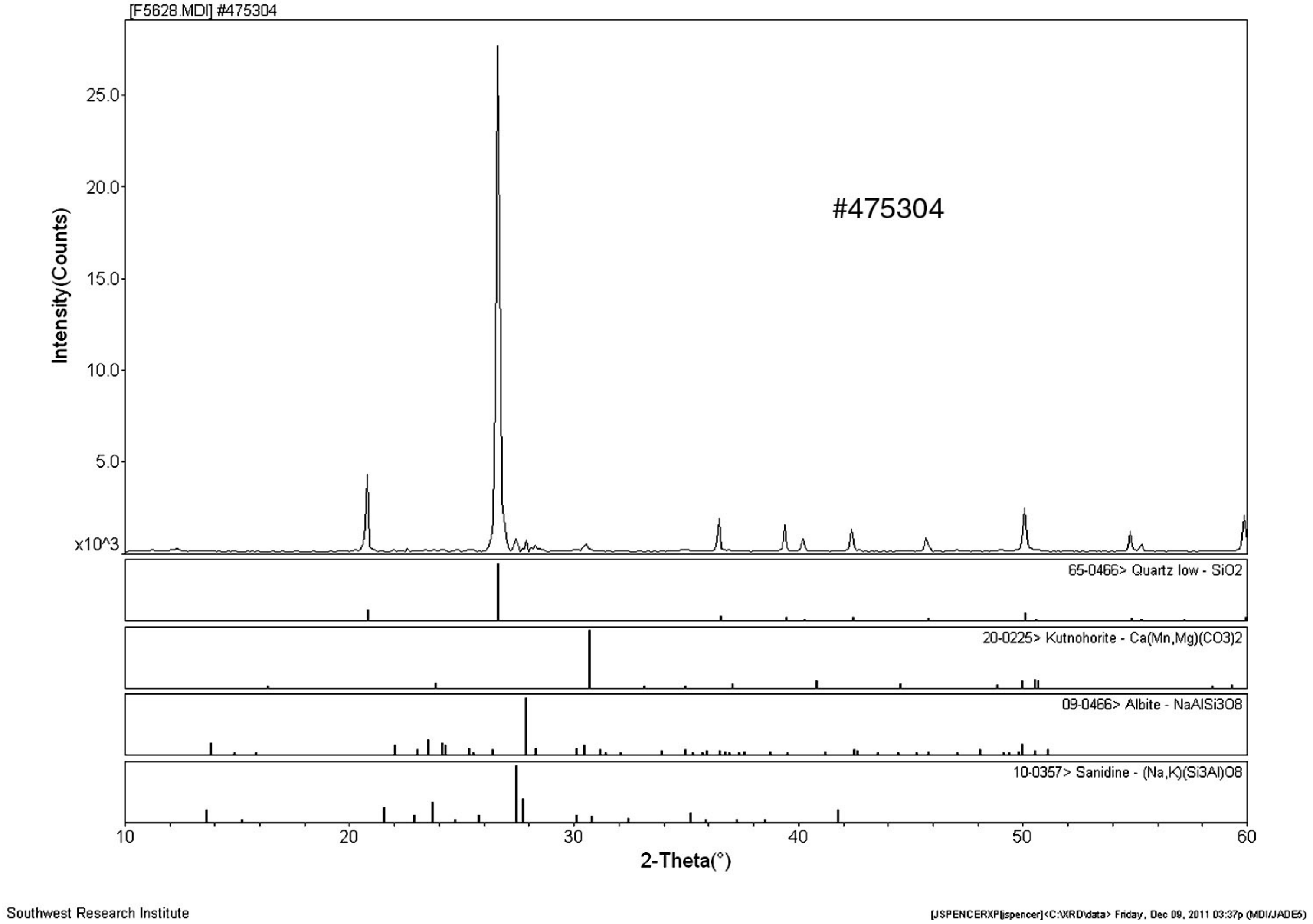
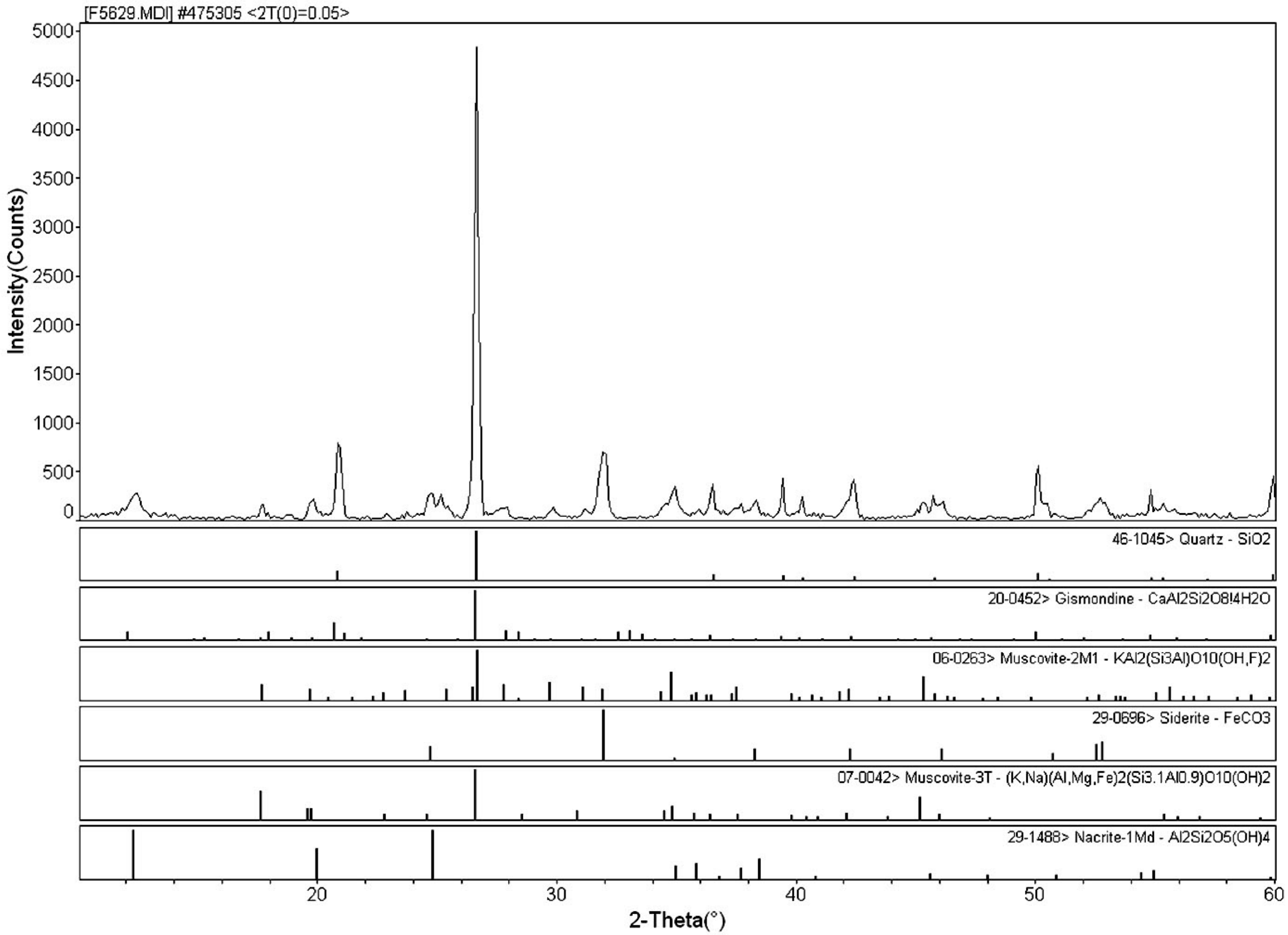


Figure 3 WDMW04B-07-BE10 (SwRI# 475304) Bulk XRD



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[JSPENCERXP[jspencer]<C:\XRD\data> Tuesday, Dec 06, 2011 04:02p (MDI/JADE5)

Figure 4 WDMW04B-07-CU10 (SwRI# 475305) Bulk XRD

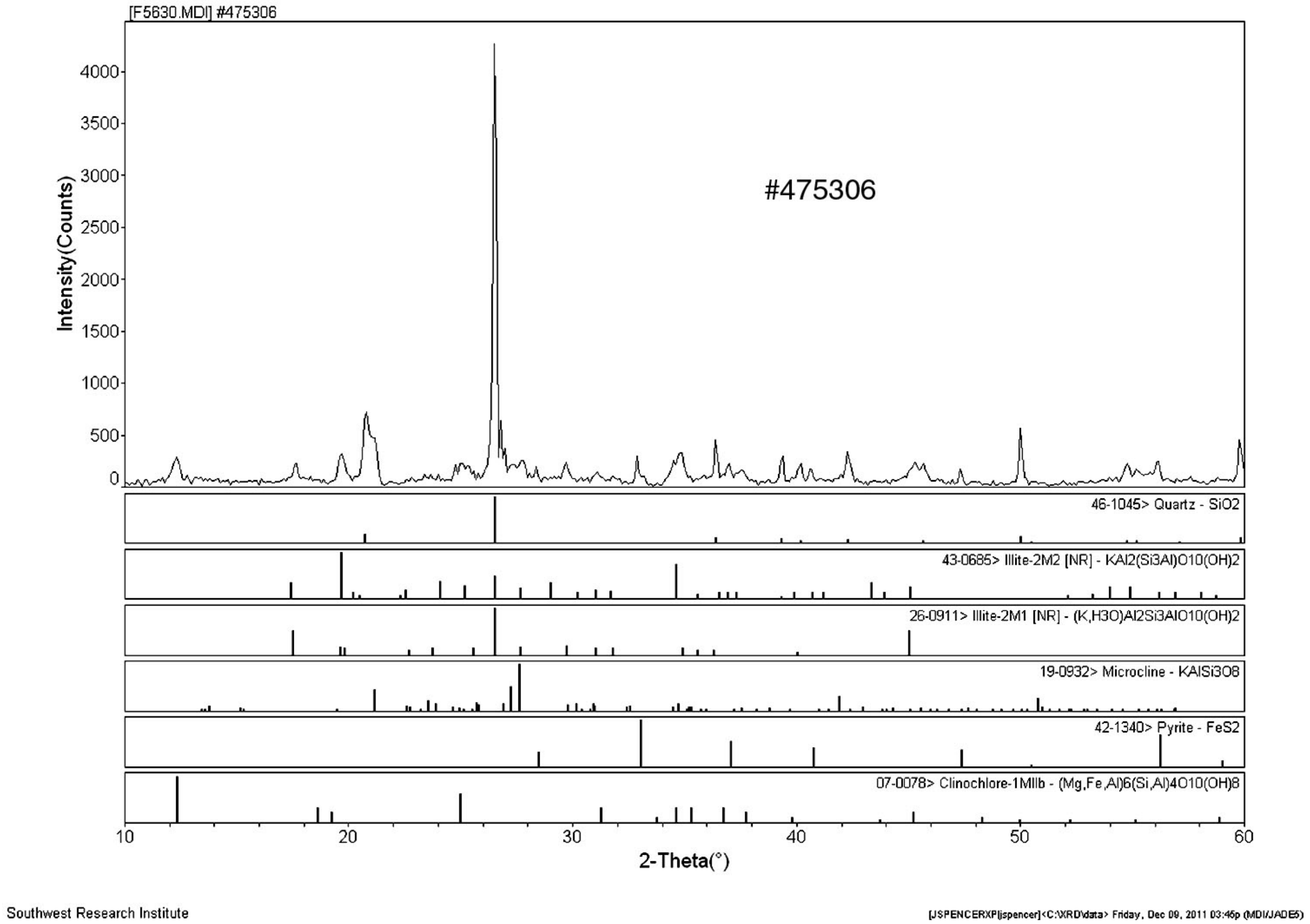

Figure 5 WDMW04B-07-SU10 (SwRI# 475306) Bulk XRD

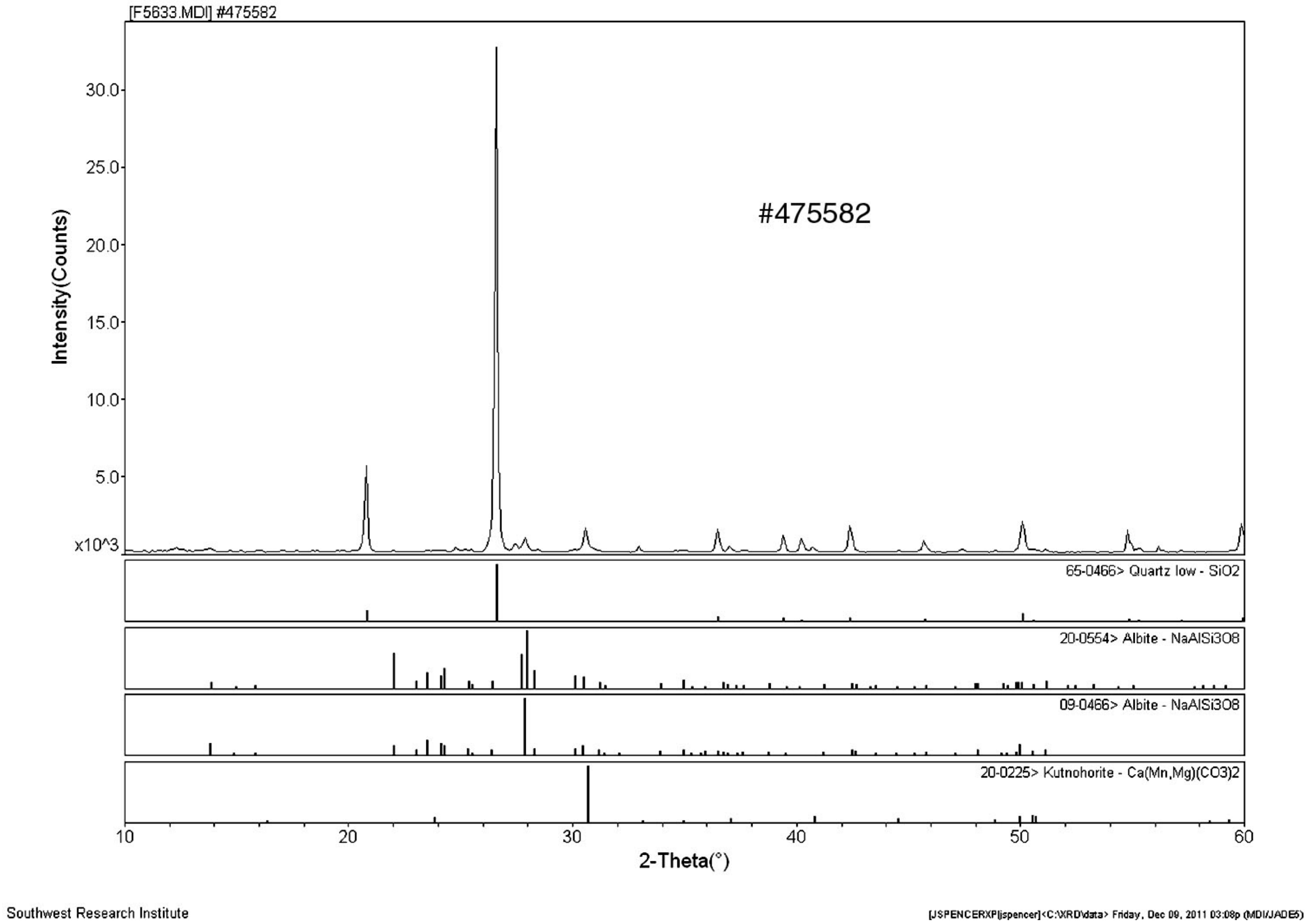

Figure 6 WDMW03B-07-BE10 (SwRI# 475582) Bulk XRD

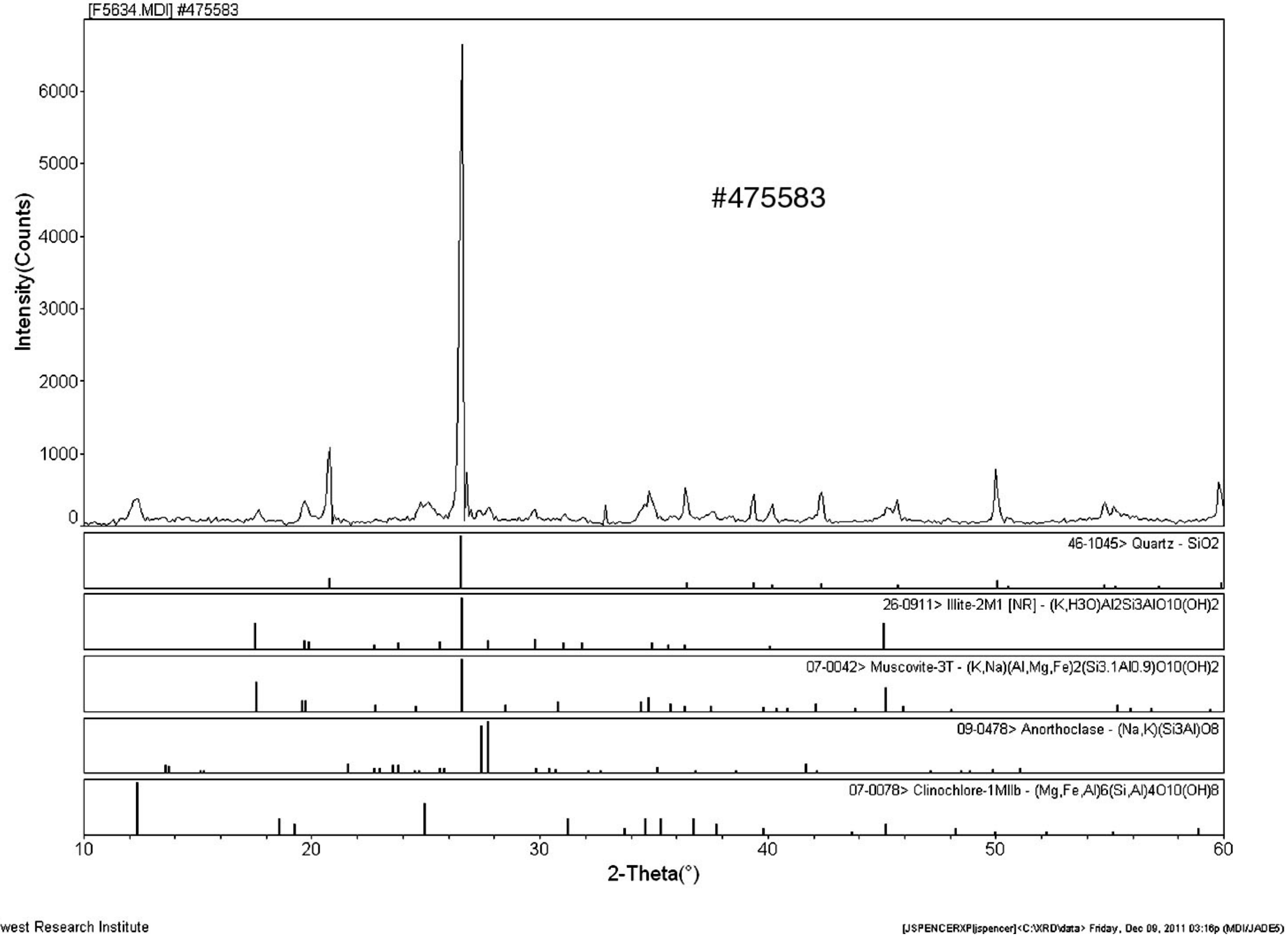

Figure 7 WDMW03B-07-CU10 (SwRI# 475583) Bulk XRD

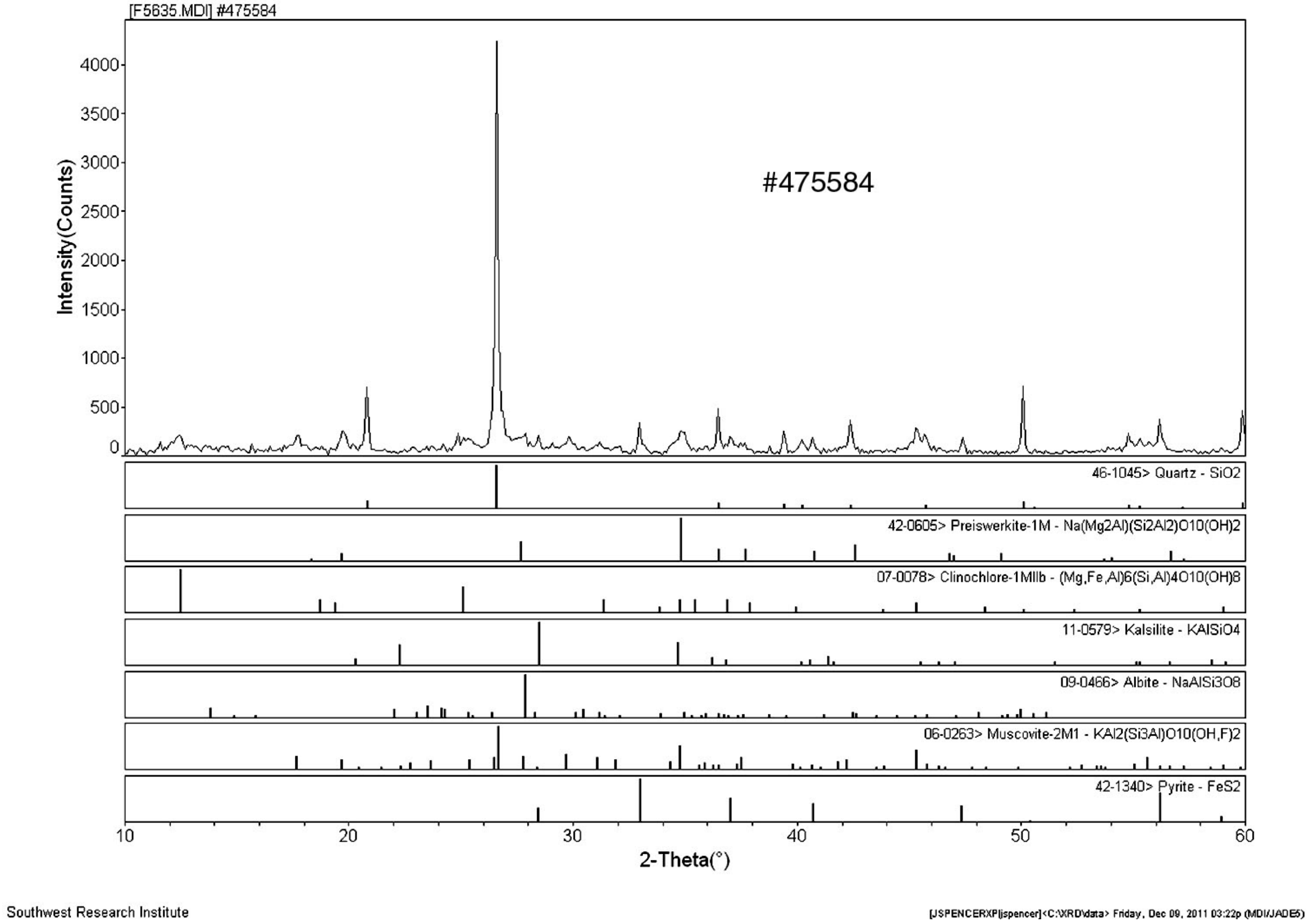

Figure 8 WDMW03B-07-SU10 (SwRI# 475584) Bulk XRD

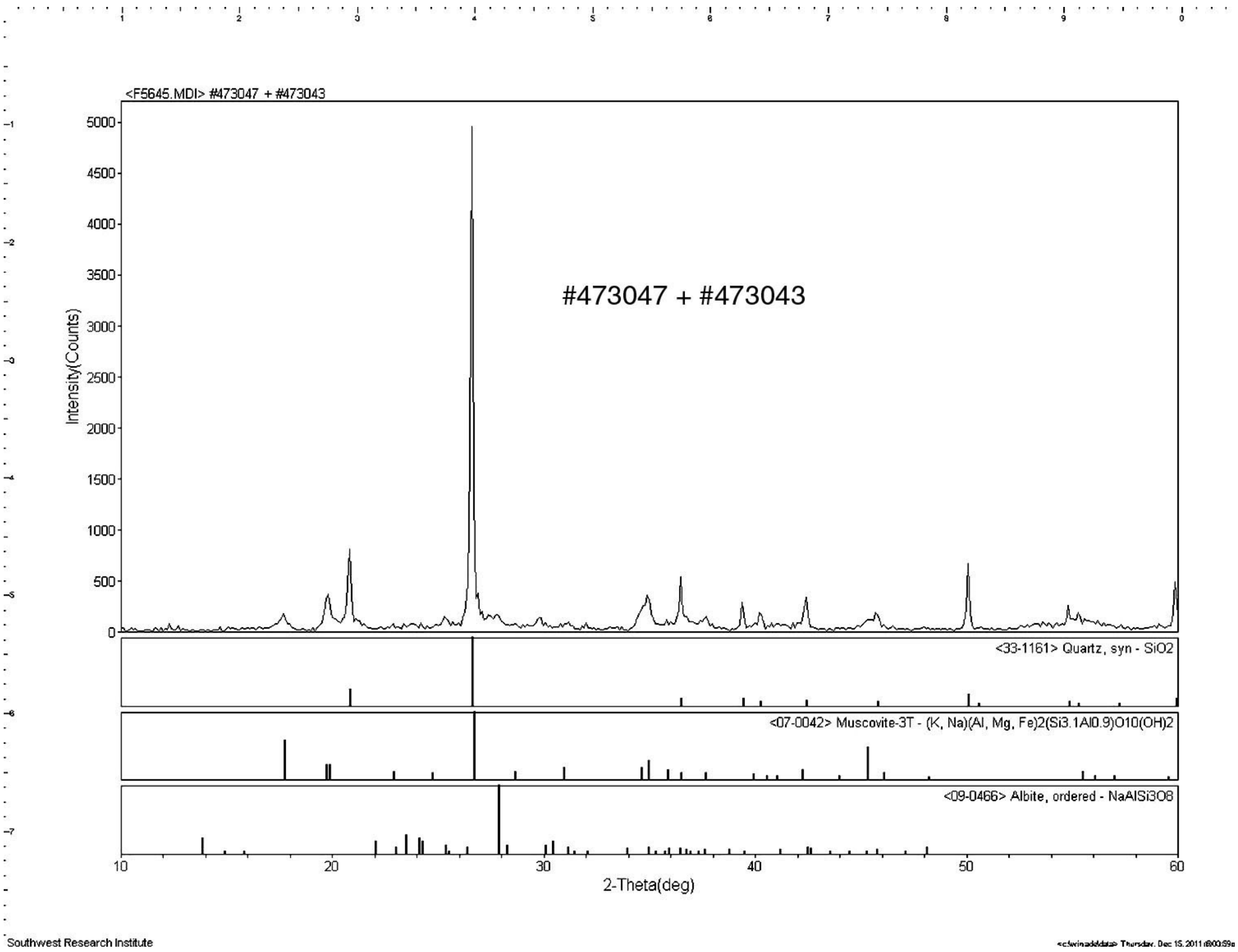

Figure 9 WDSB21-07-19.5 (SwRI# 473043) Bulk XRD

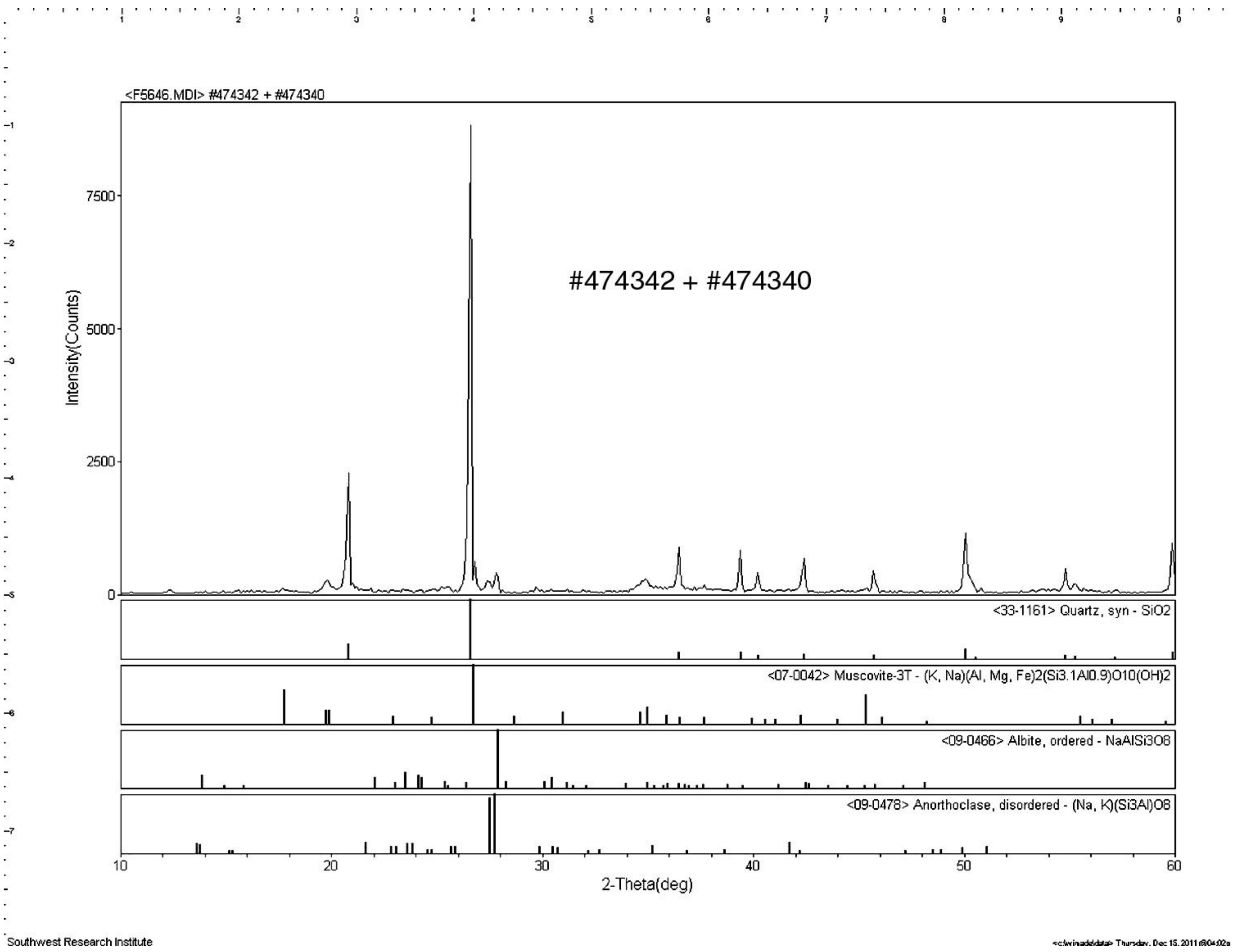

Figure 10 WDSB31-07-2.0 (SwRI# 474340) Bulk XRD

Appendix G

XRD Results for Silt Fraction (5-74 micron)

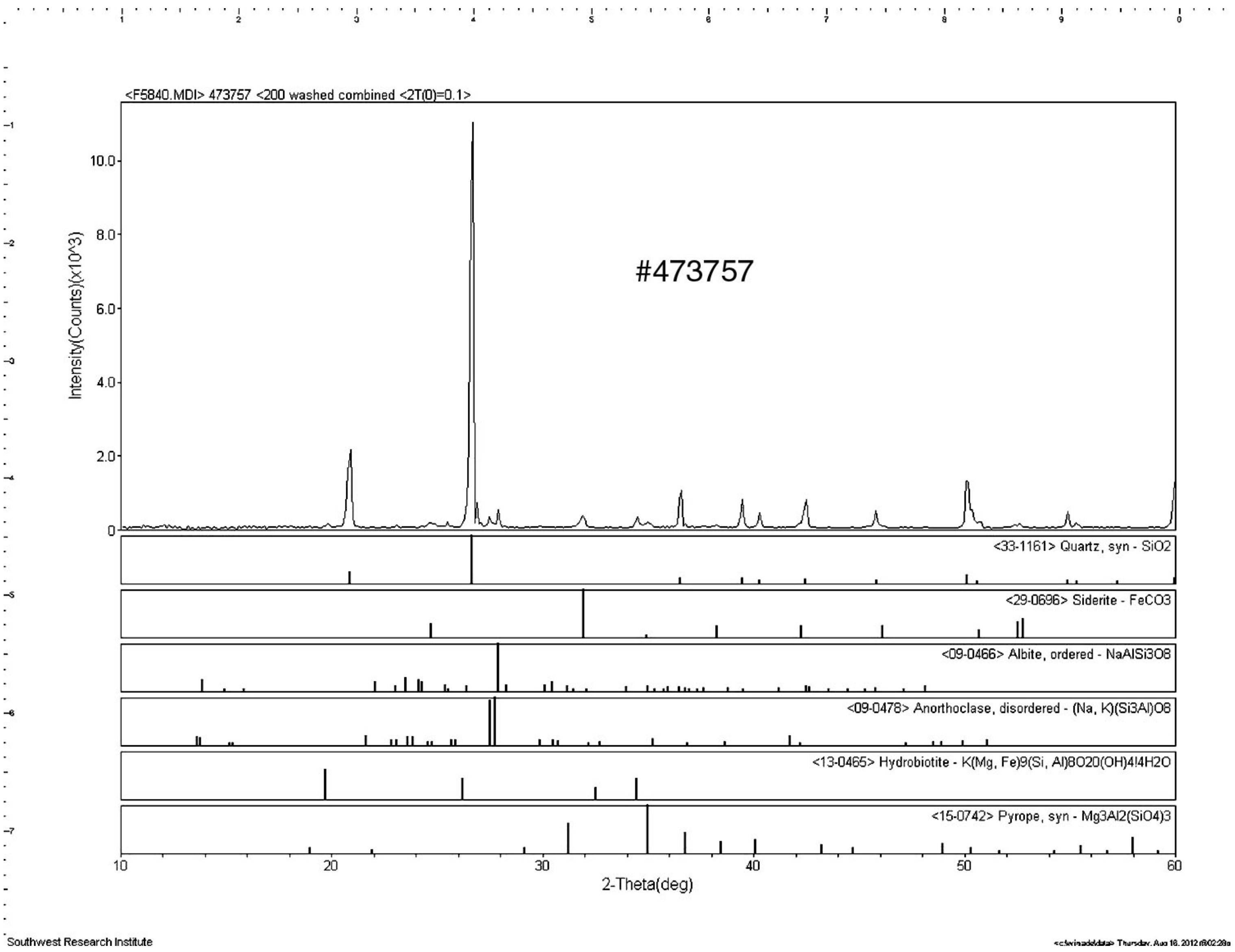

Figure 1 WDSB02-07-24.5 (SwRI#473757) Silt Fraction XRD

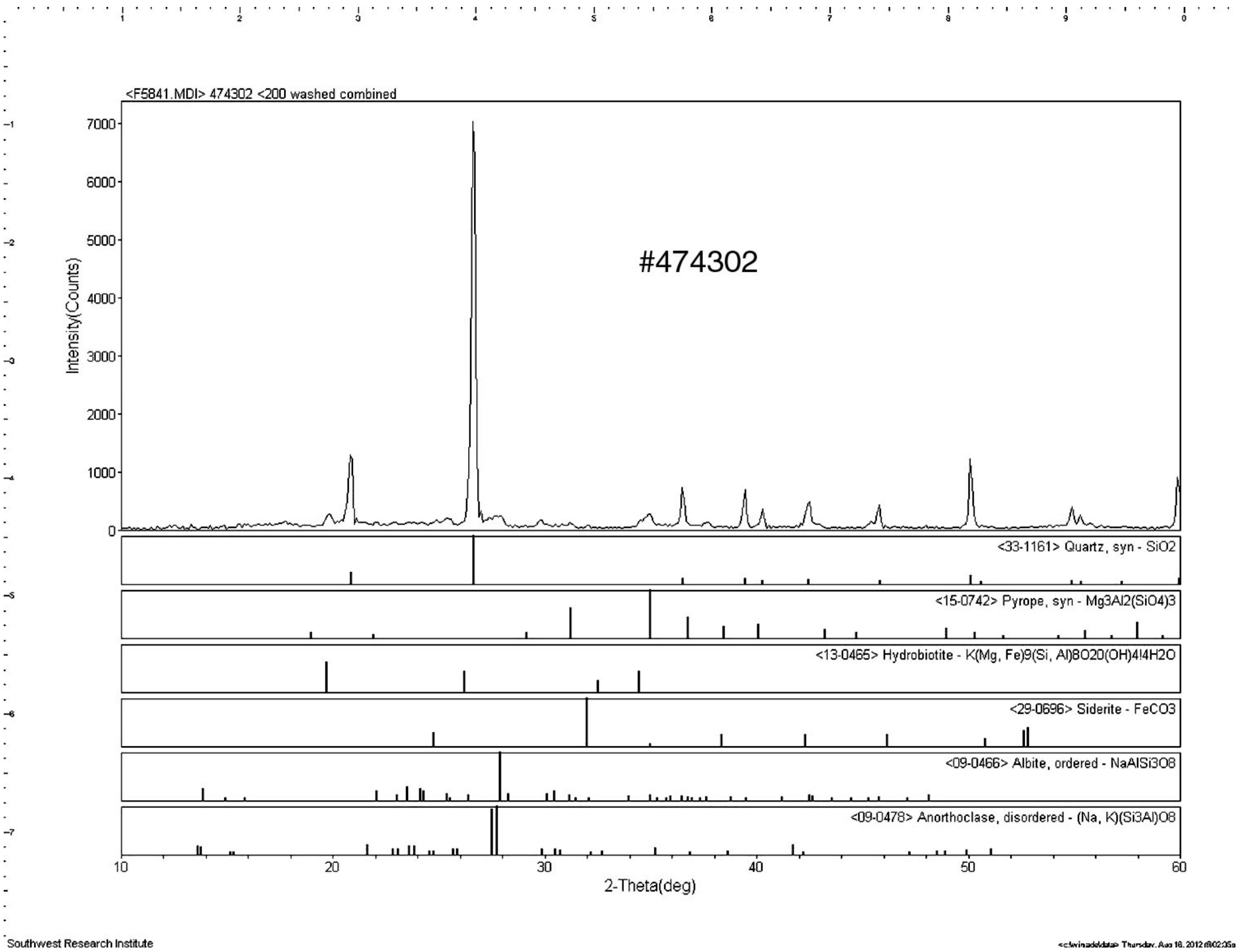

Figure 2 WDSB29-07-4.5 (SwRI#474302) Silt Fraction XRD

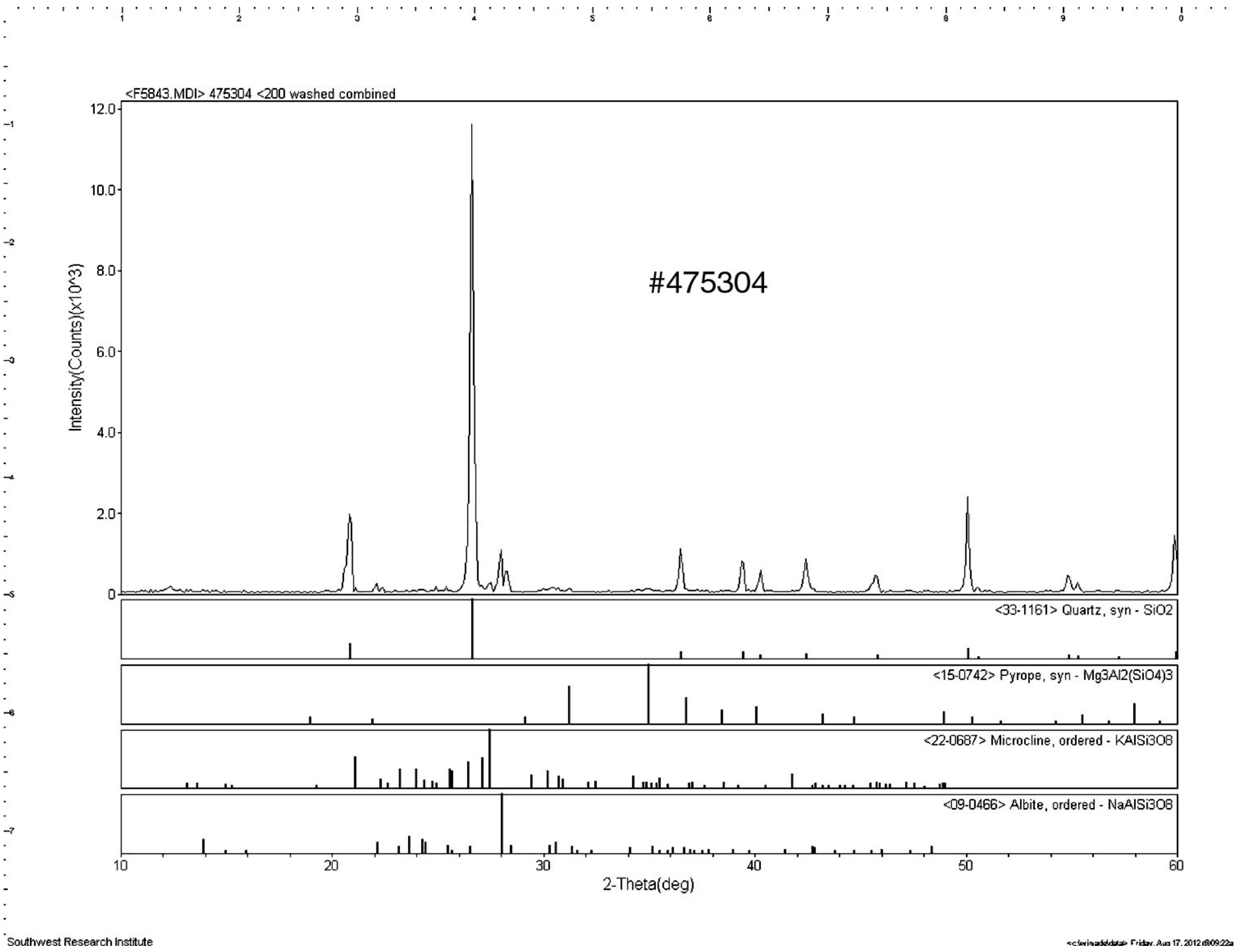

Figure 3 WDMW04B-07-BE10 (SwRI# 475304) Silt Fraction XRD

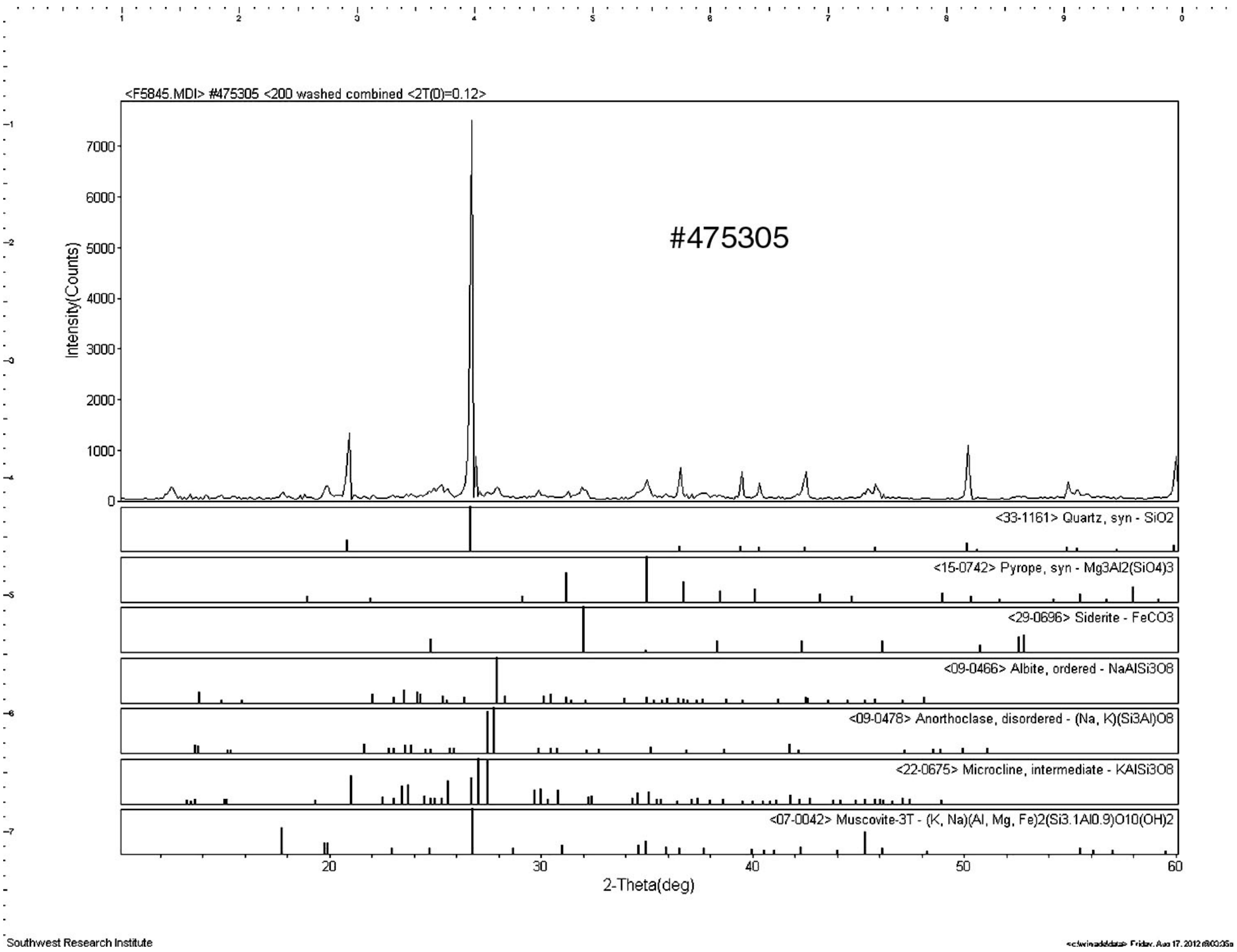

Figure 4 WDMW04B-07-CU10 (SwRI# 475305) Silt Fraction XRD

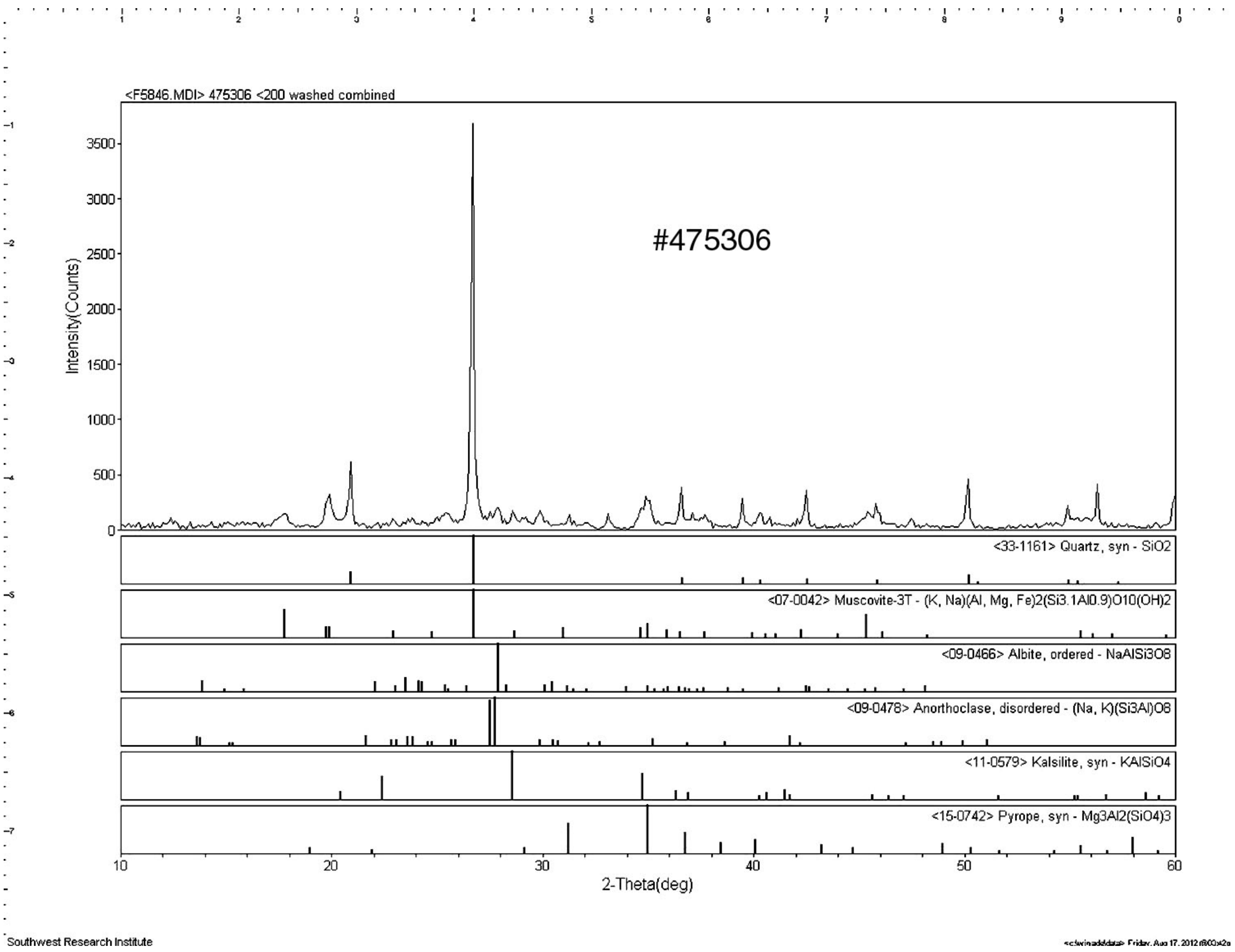

Figure 5 WDMW04B-07-SU10 (SwRI# 475306) Silt Fraction XRD

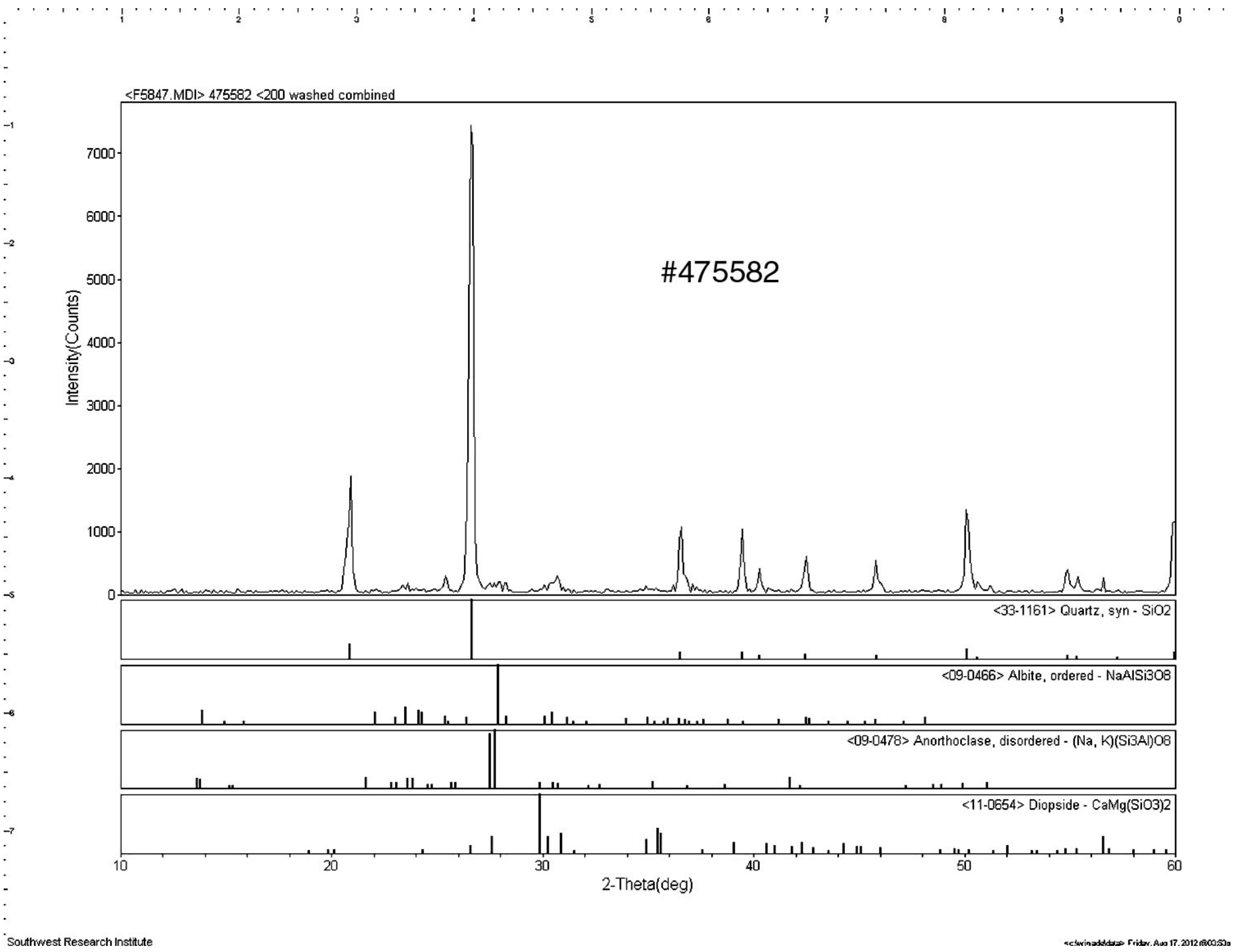

Figure 6 WDMW03B-07-BE10 (SwRI# 475582) Silt Fraction XRD

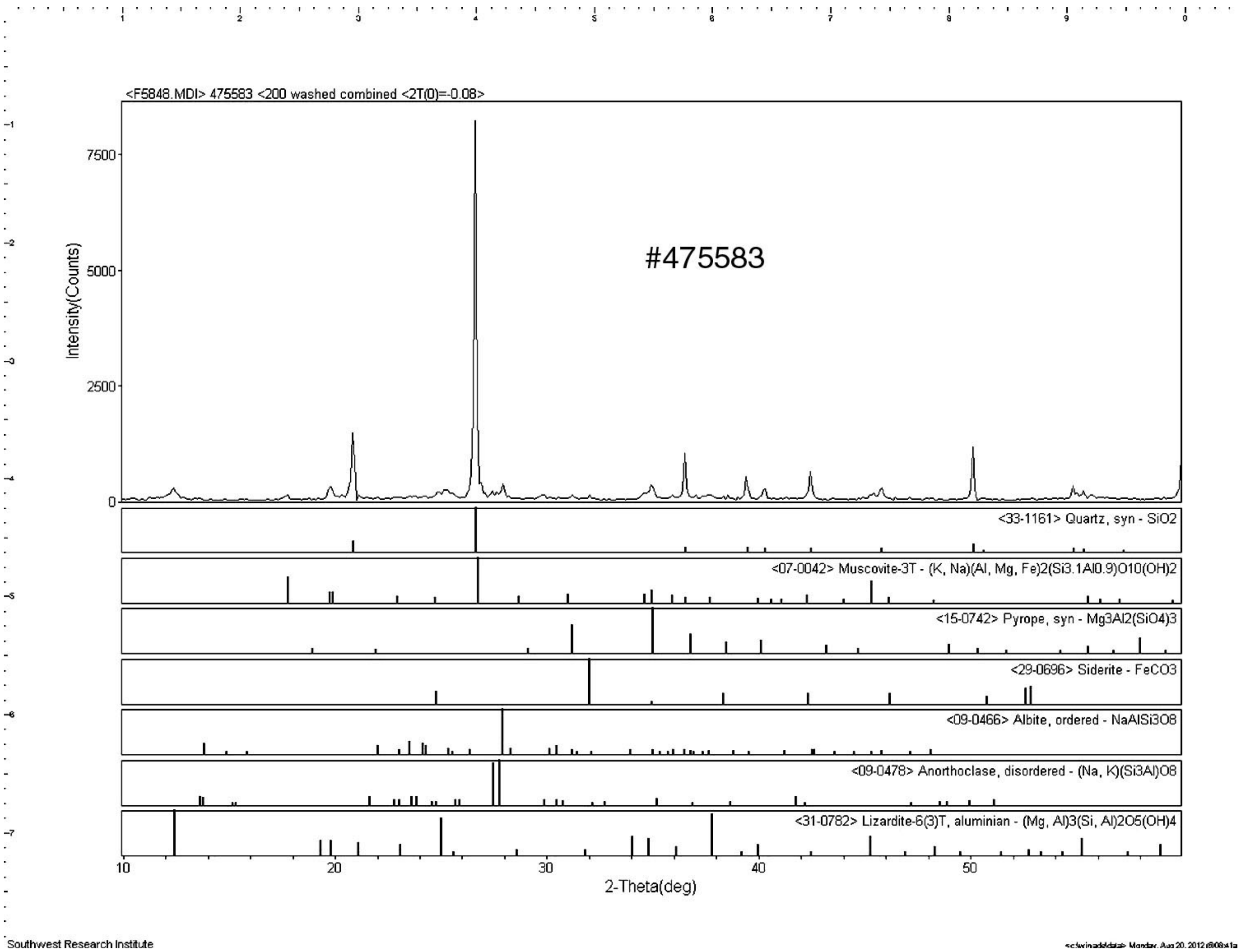

Figure 7 WDMW03B-07-CU10 (SwRI# 475583) Silt Fraction XRD

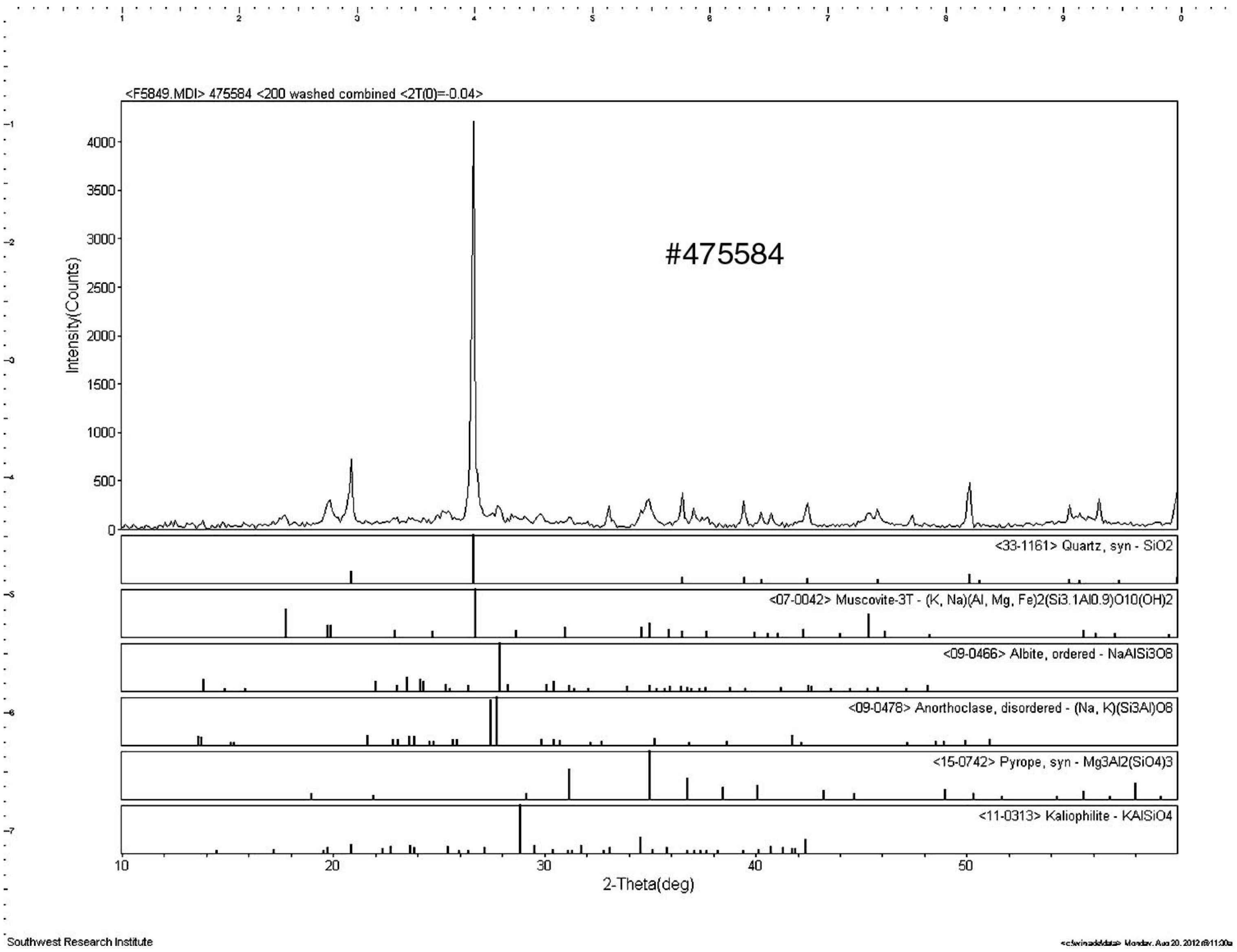

Figure 8 WDMW03B-07-SU10 (SwRI# 475584) Silt Fraction XRD

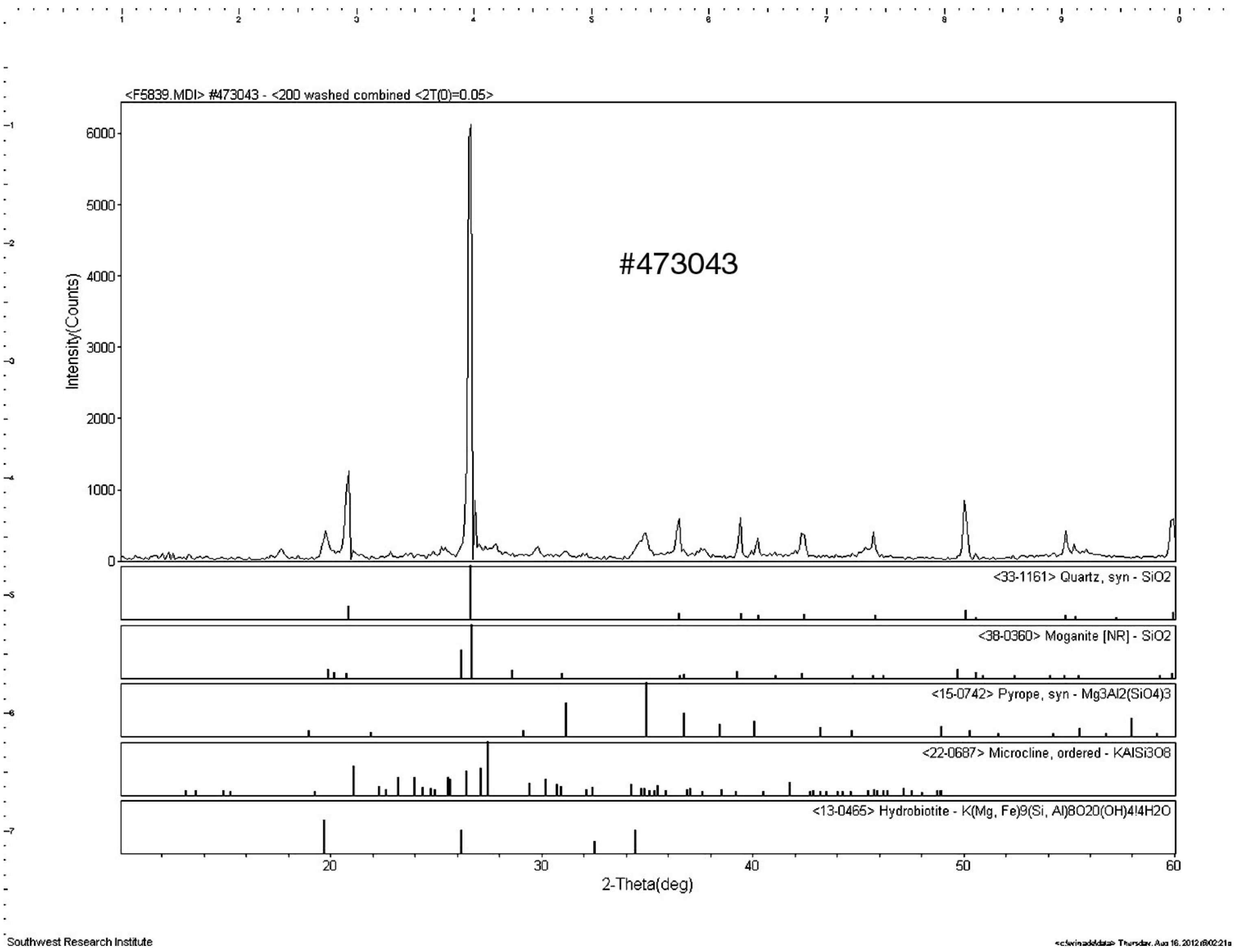

Figure 9 WDSB21-07-19.5 (SwRI# 473043) Silt Fraction XRD

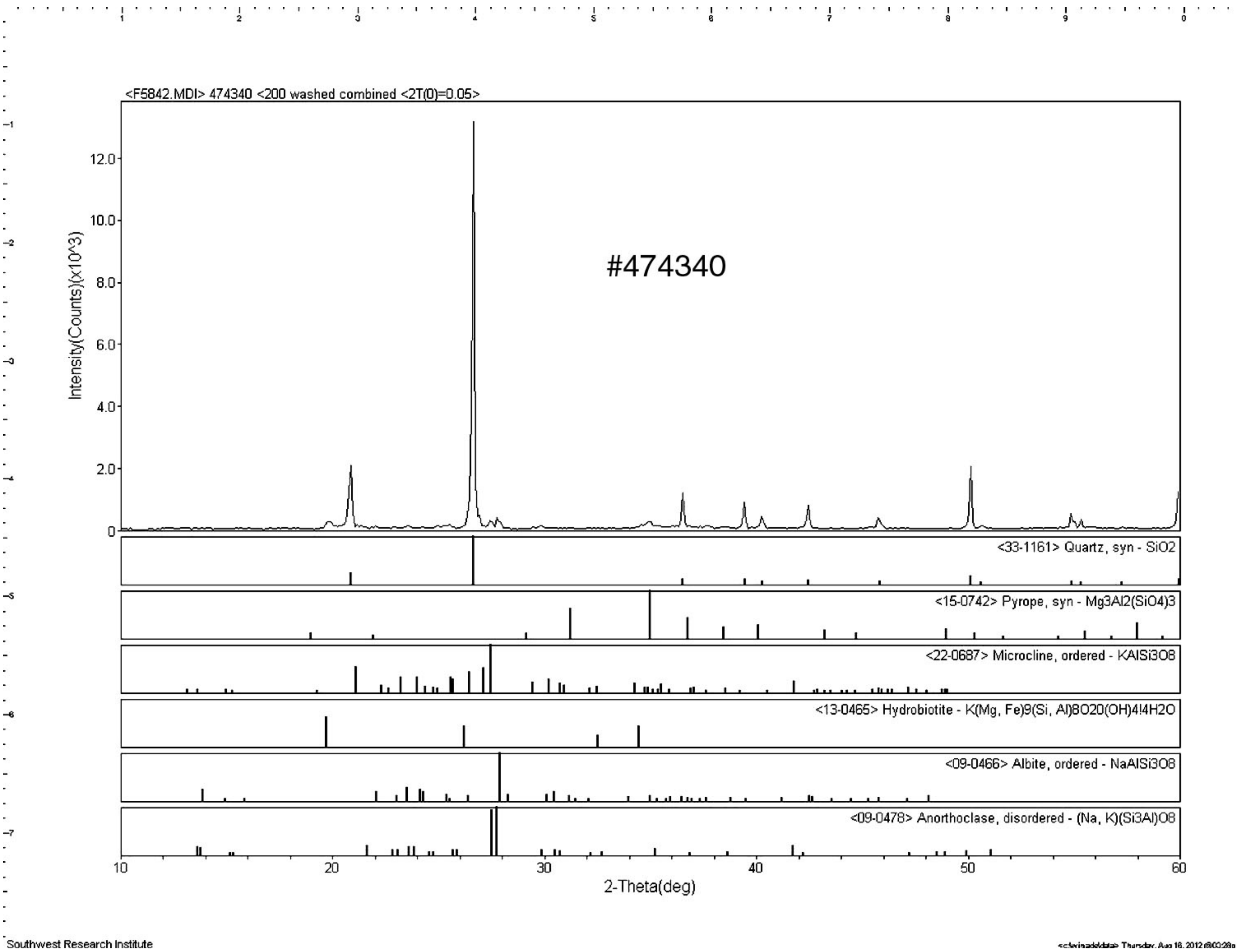

Figure 10 WDSB31-07-2.0 (SwRI# 474340) Silt Fraction XRD

Appendix H

Petrology Photomicrographs

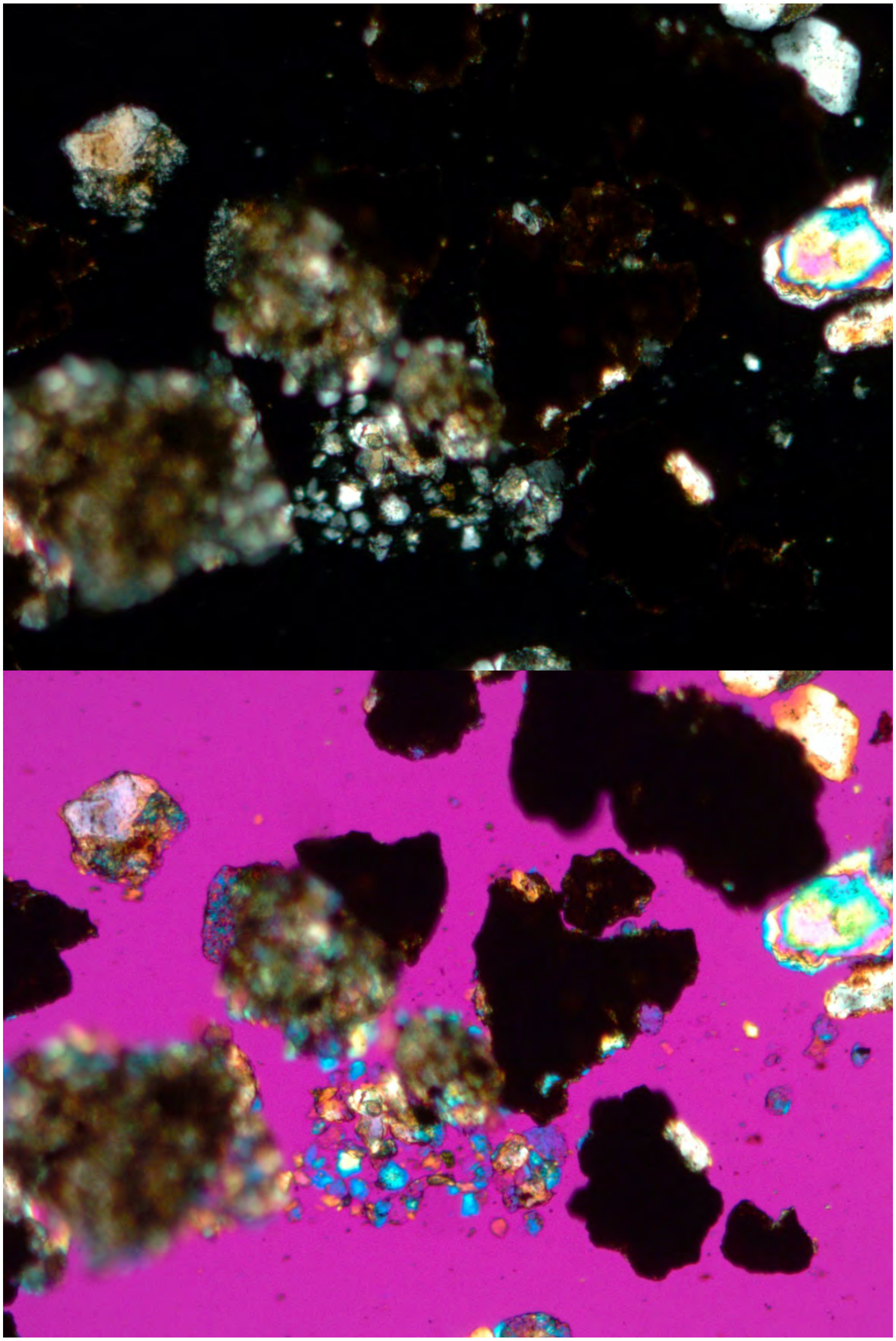

Figure 1 WDSB02-07-24.5 (SwRI#473757) Sand fraction in Canada Balsam at 50x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

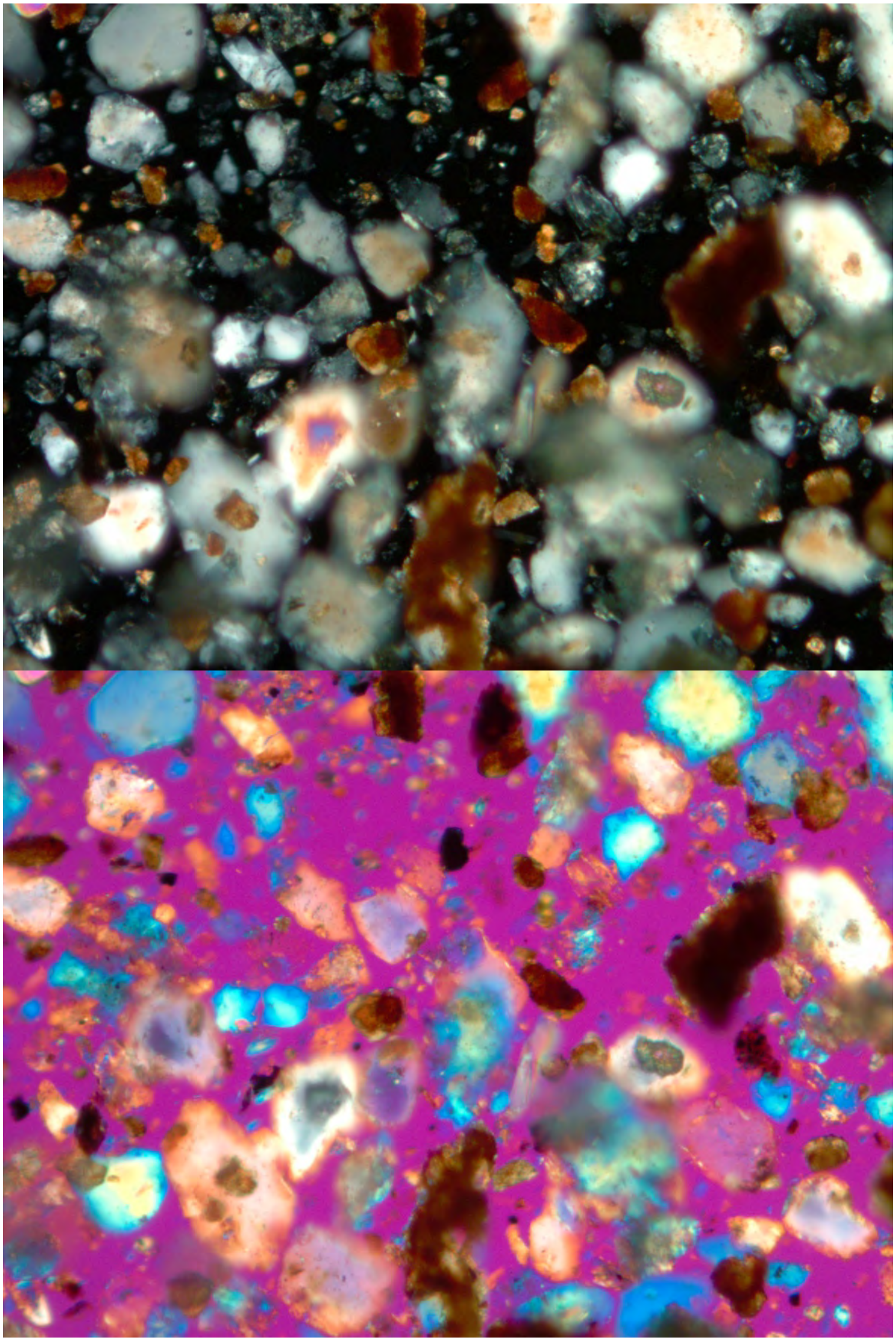

Figure 2 WDSB02-07-24.5 (SwRI#473757) Silt fraction in Canada Balsam at 100x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

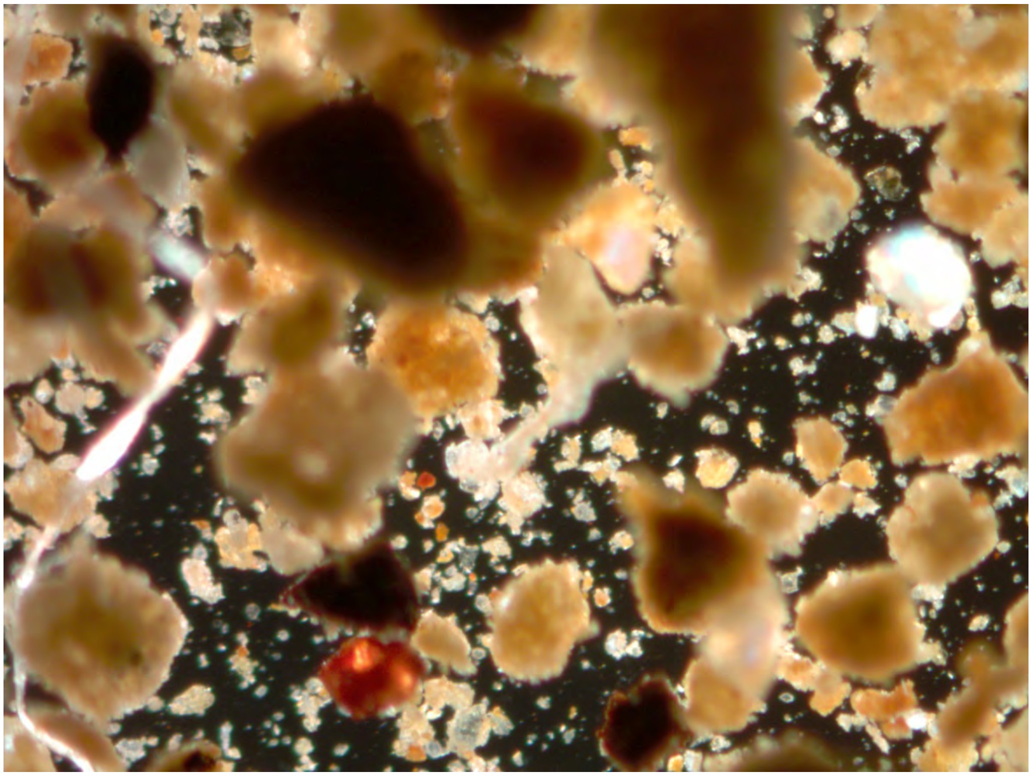

Figure 3 WDSB29-07-4.5 (SwRI#474302) Sand fraction (no Canada Balsam) at 50x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

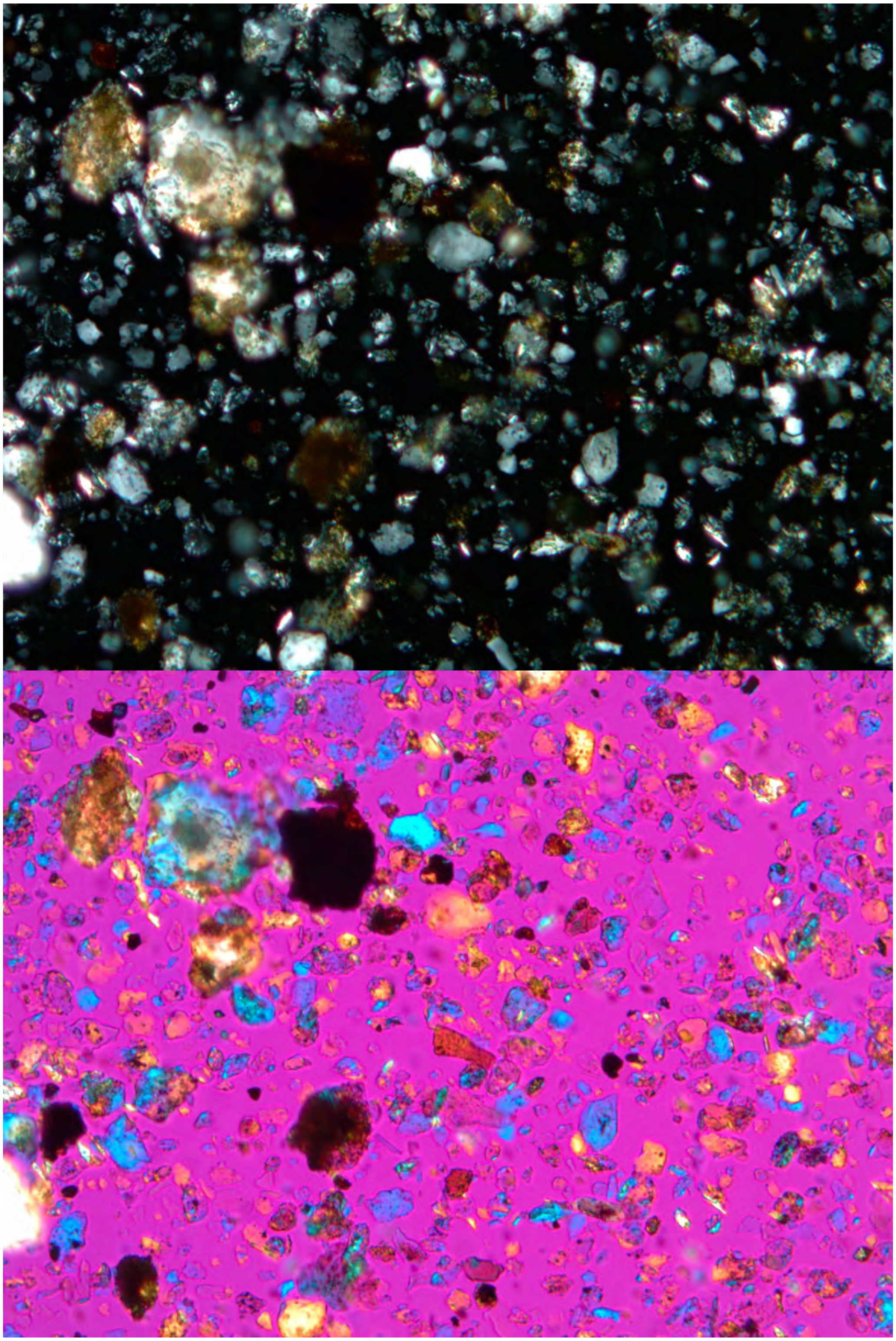

Figure 4 WDSB29-07-4.5 (SwRI#474302) Silt fraction in Canada Balsam at 100x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

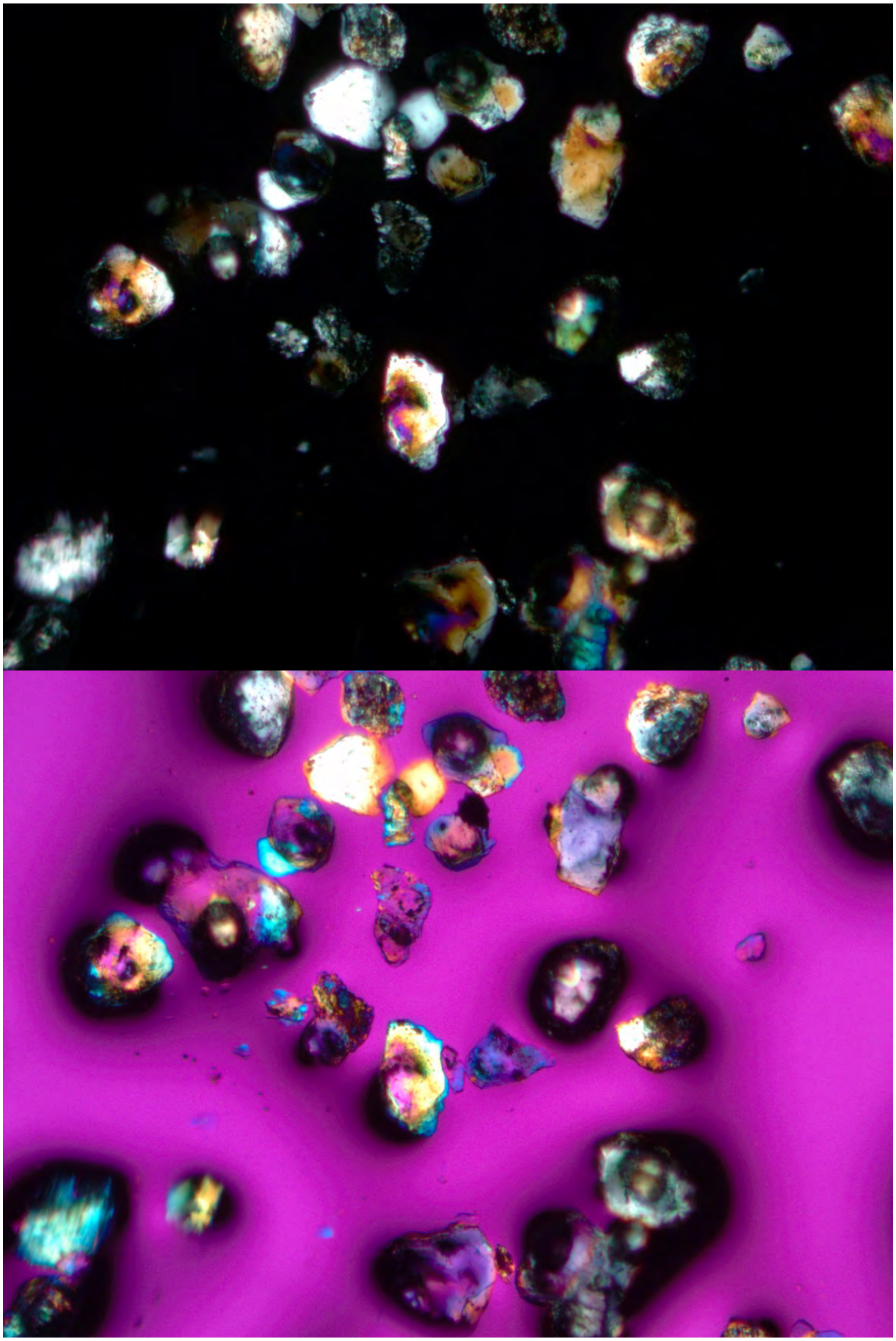

Figure 5 WDMW04B-07-BE10 (SwRI# 475304) Sand fraction in Canada Balsam at 50x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

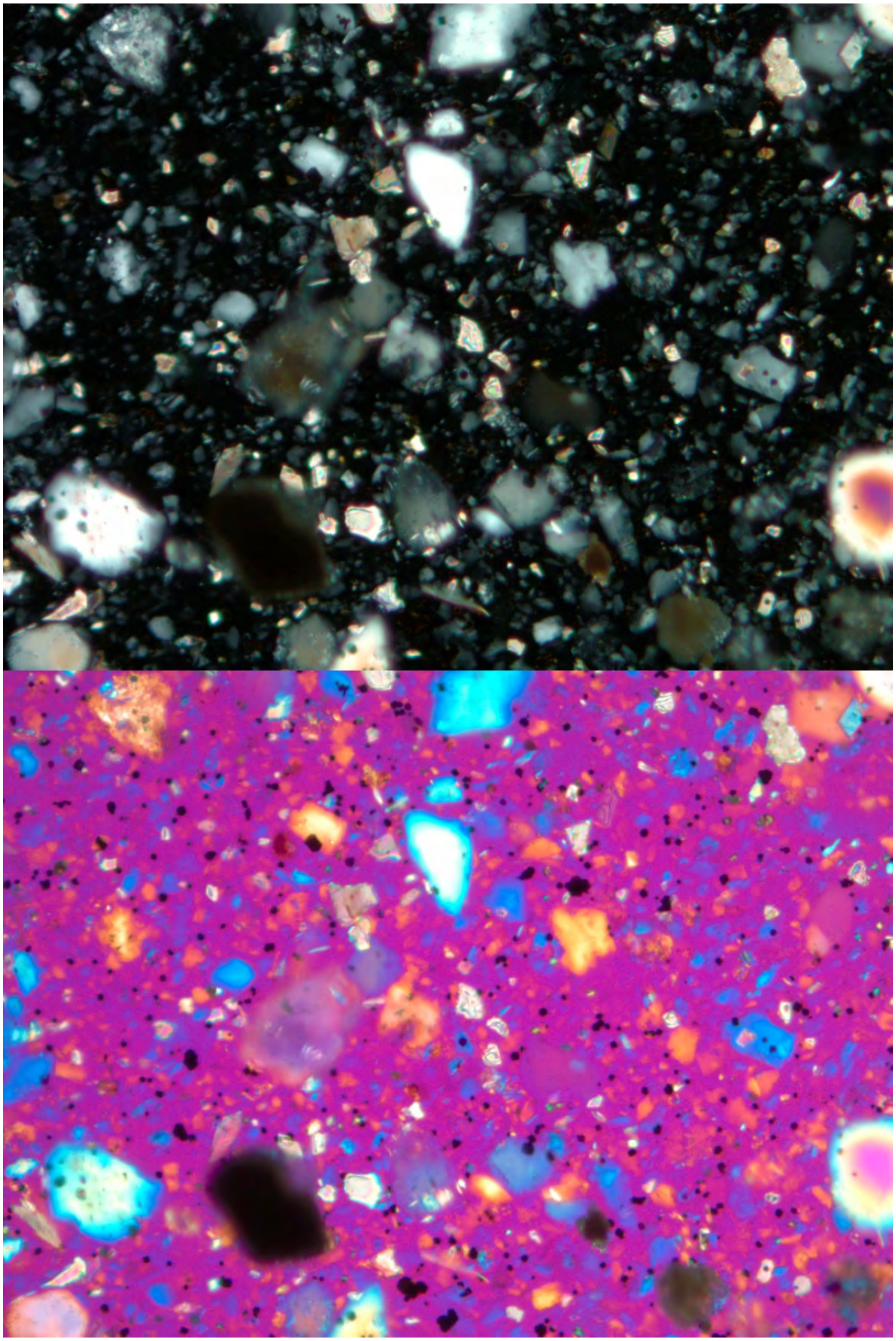

Figure 6 WDMW04B-07-BE10 (SwRI# 475304) Silt fraction in Canada Balsam at 100x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

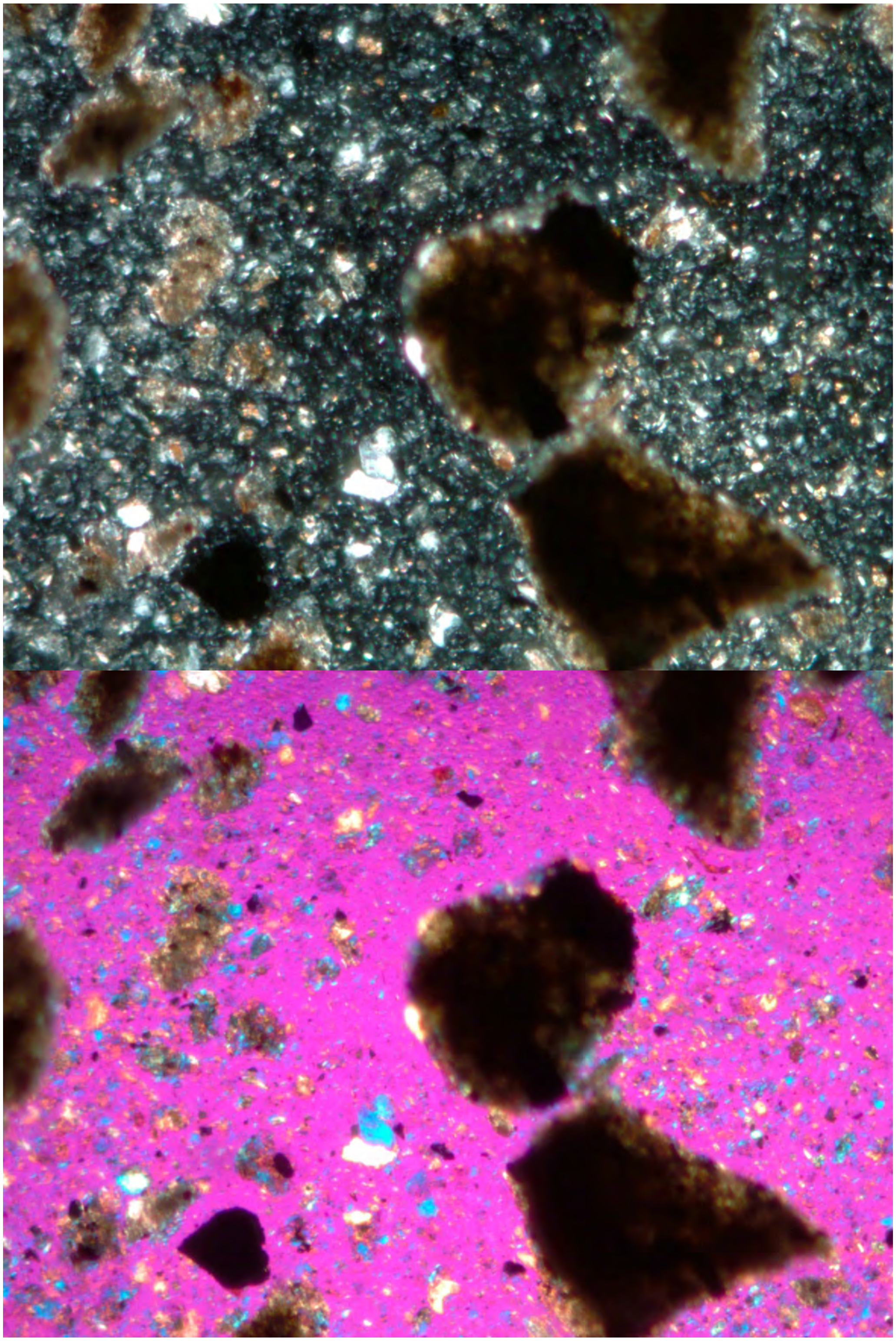

Figure 7 WDMW04B-07-CU10 (SwRI# 475305) Sand fraction in Canada Balsam at 50x magnification under crossed polars (top) and with gypsum plate inserted (bottom

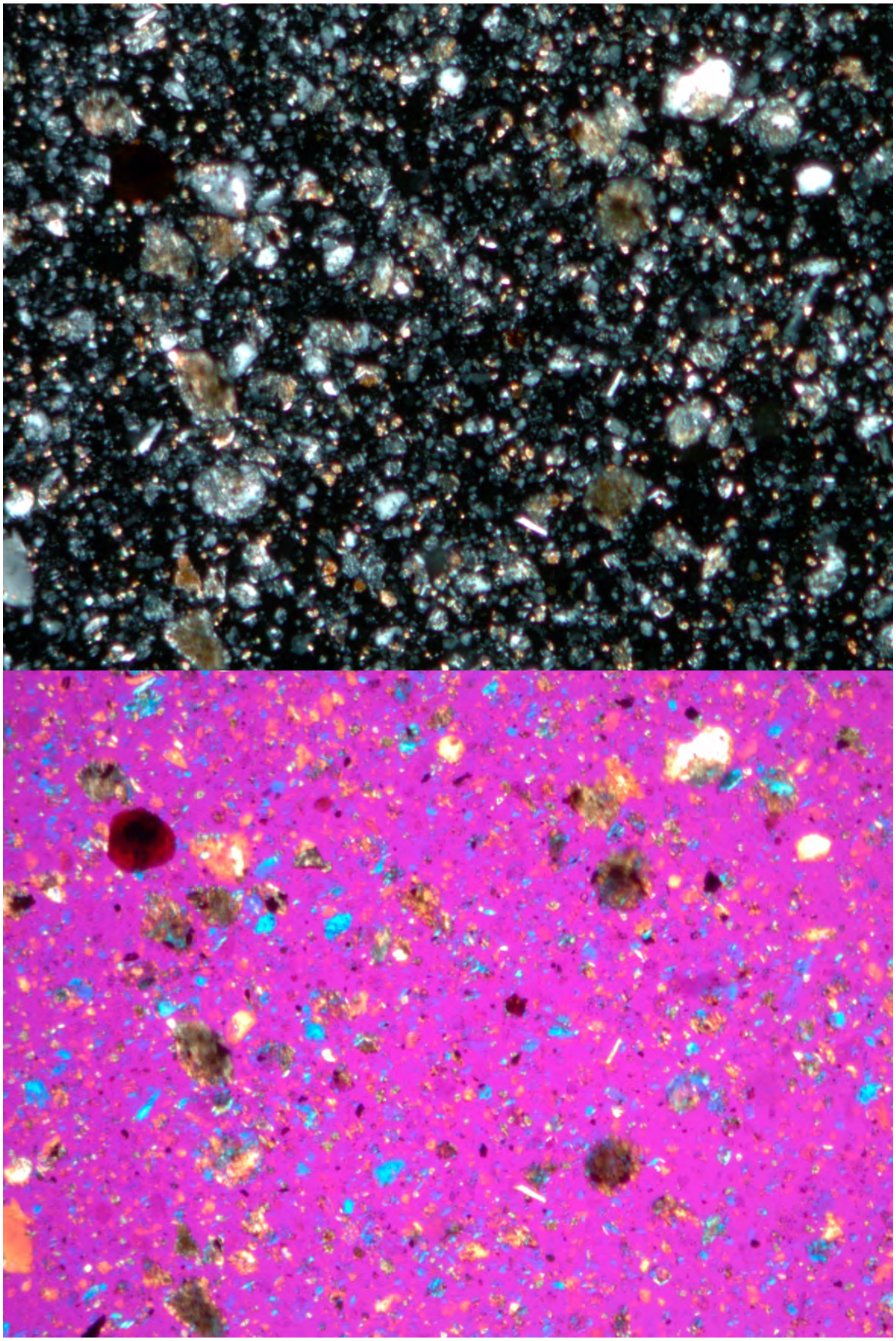

Figure 8 WDMW04B-07-CU10 (SwRI# 475305) **Silt fraction in Canada Balsam at 50x magnification under crossed polars (top) and with gypsum plate inserted (bottom)**

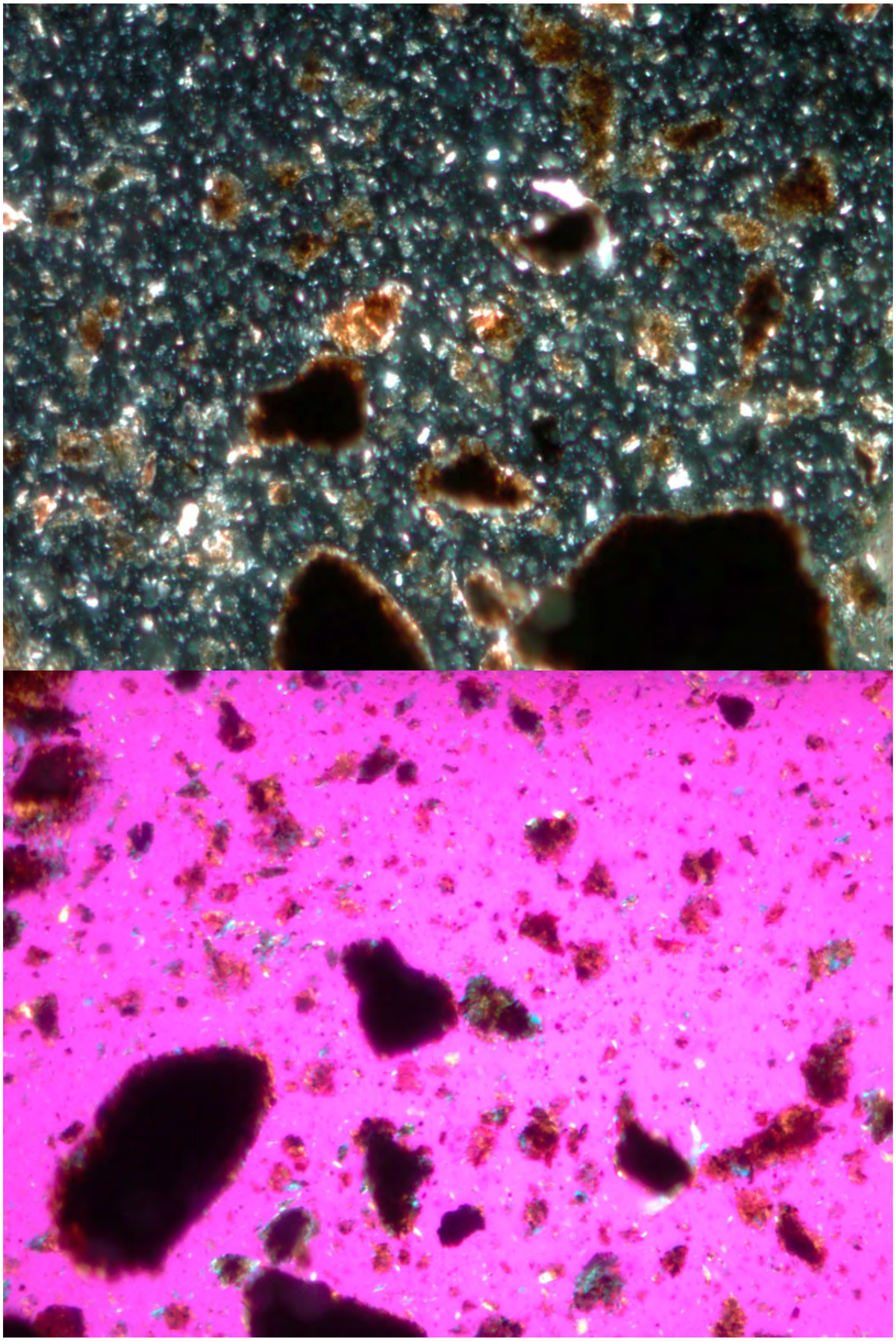

Figure 9 WDMW04B-07-SU10 (SwRI# 475306) Sand fraction in Canada Balsam at 50x magnification under crossed polars (top) and with gypsum plate inserted (bottom

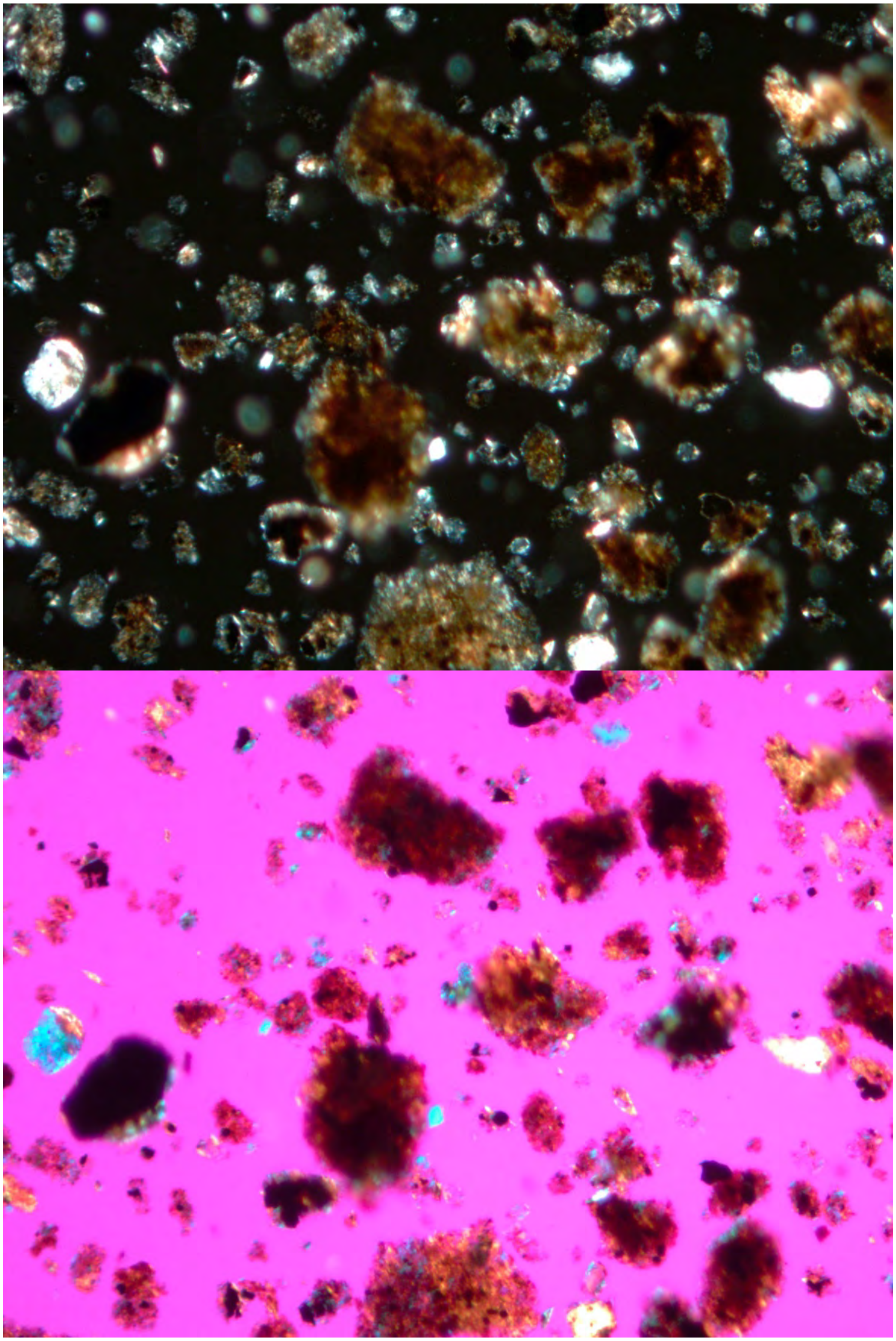

Figure 10 WDMW04B-07-SU10 (SwRI# 475306) Silt fraction in Canada Balsam at 100x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

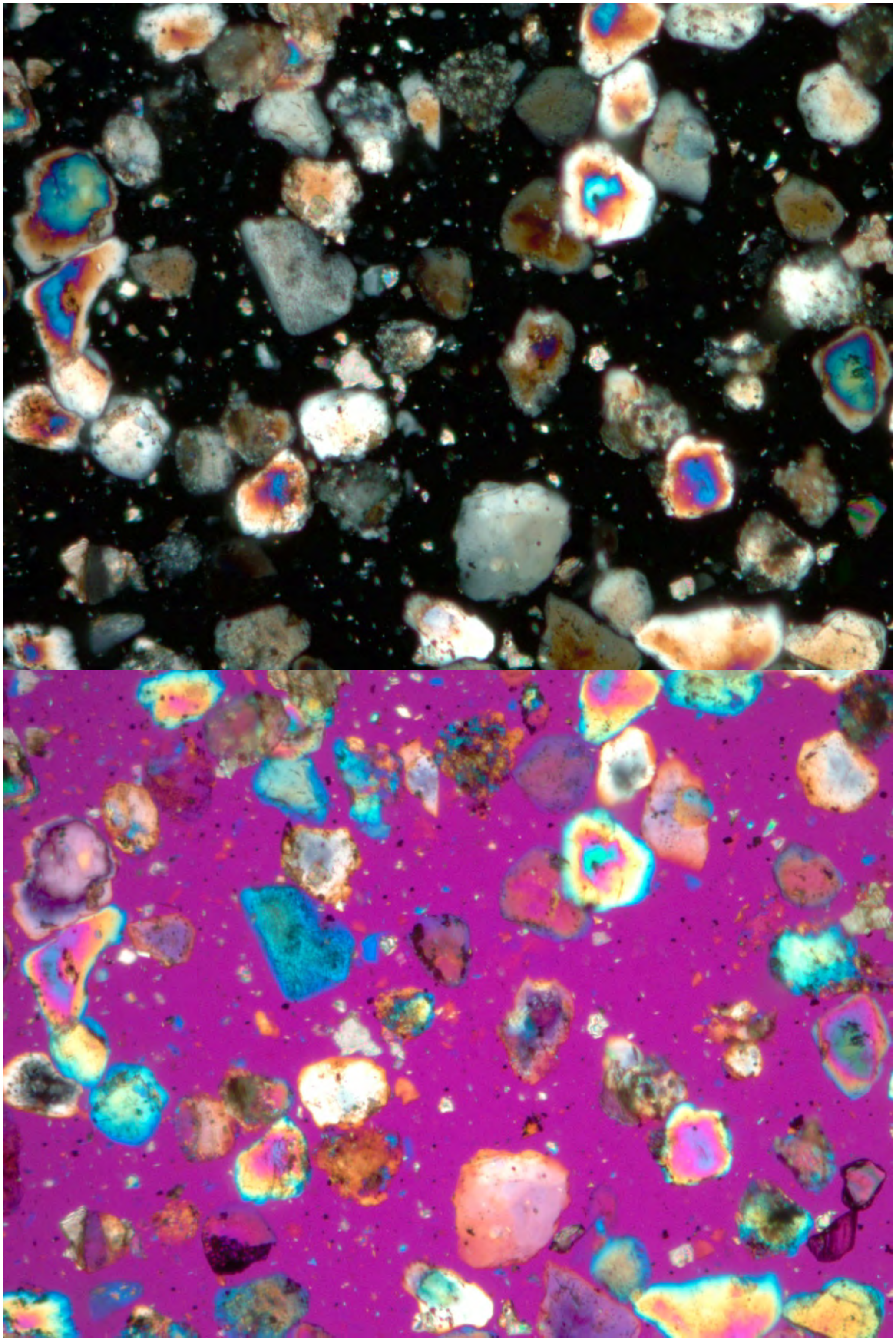

Figure 11 WDMW03B-07-BE10 (SwRI# 475582) Sand fraction in Canada Balsam at 50x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

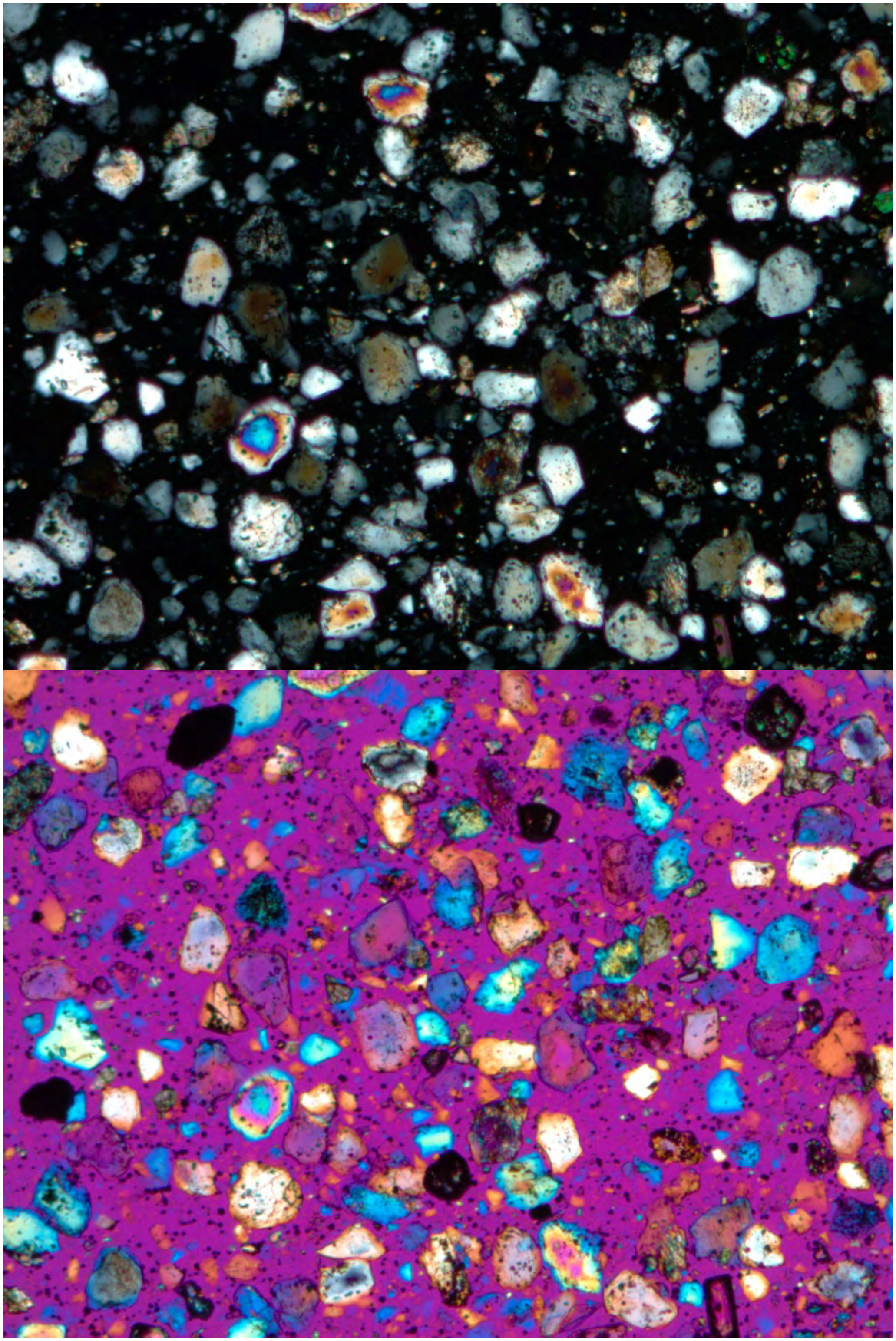

Figure 12 WDMW03B-07-BE10 (SwRI# 475582) Silt fraction in Canada Balsam at 50x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

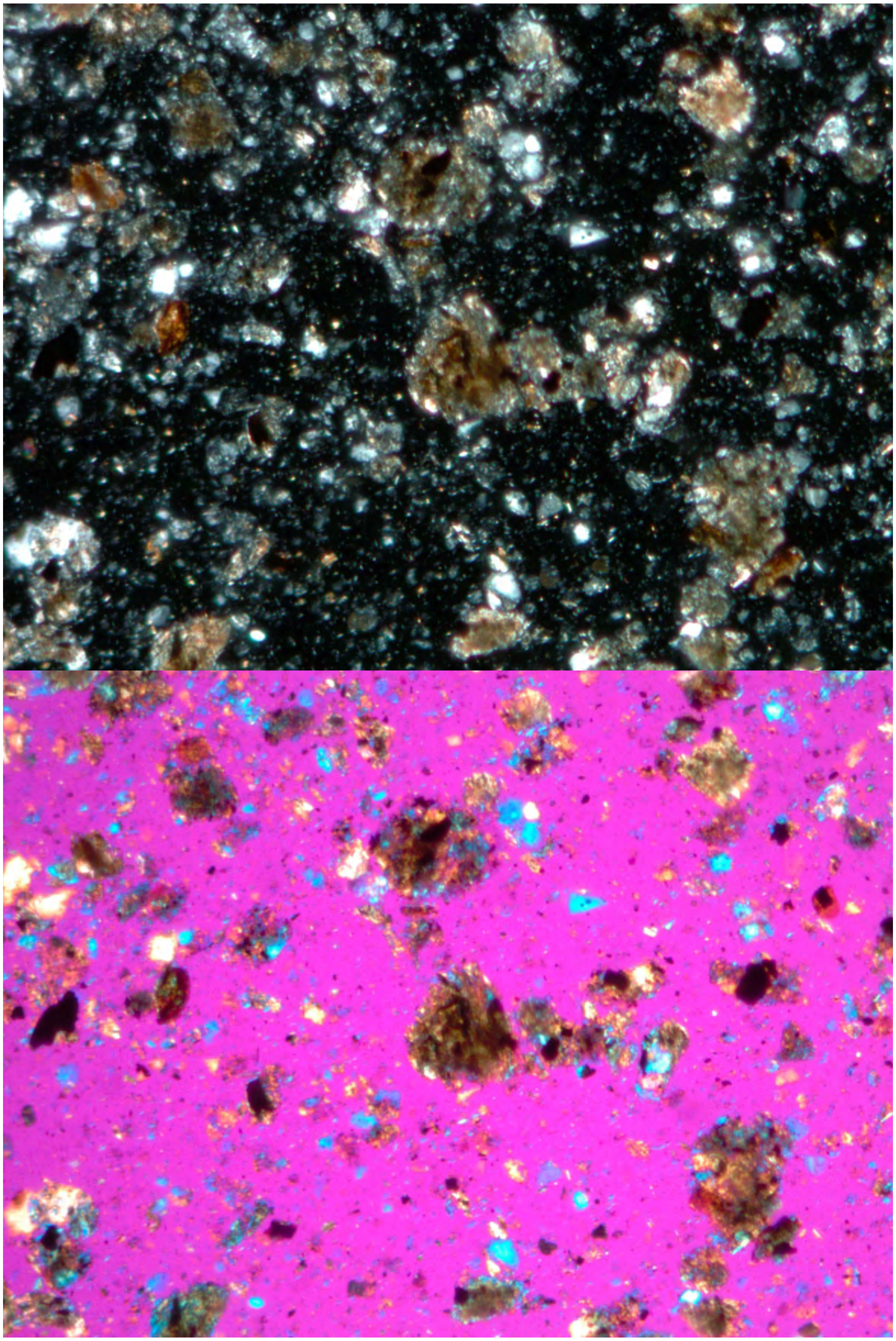

Figure 13 WDMW03B-07-CU10 (SwRI# 475583) Sand fraction in Canada Balsam at 50x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

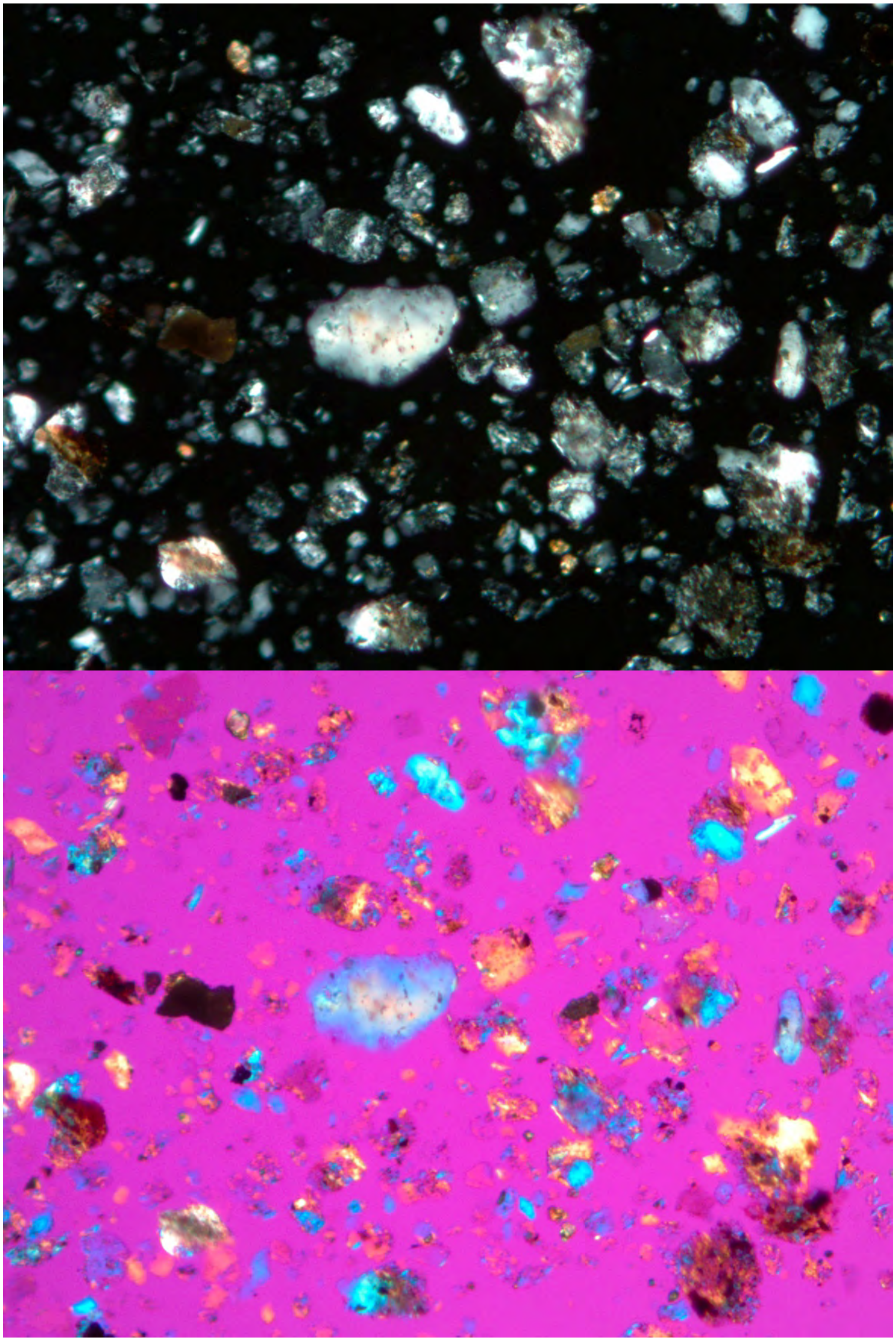

Figure 14 WDMW03B-07-CU10 (SwRI# 475583) Silt fraction in Canada Balsam at 100x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

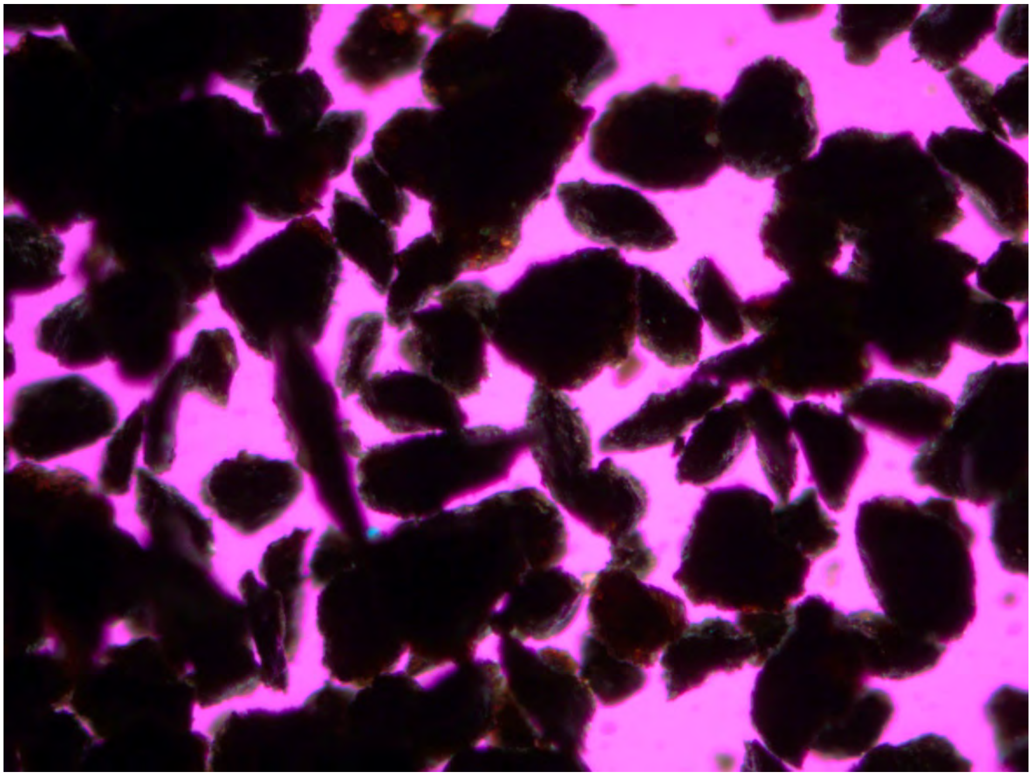

Figure 15 WDMW03B-07-SU10 (SwRI# 475584) Sand fraction in Canada Balsam at 200x magnification under crossed polars and with gypsum plate inserted

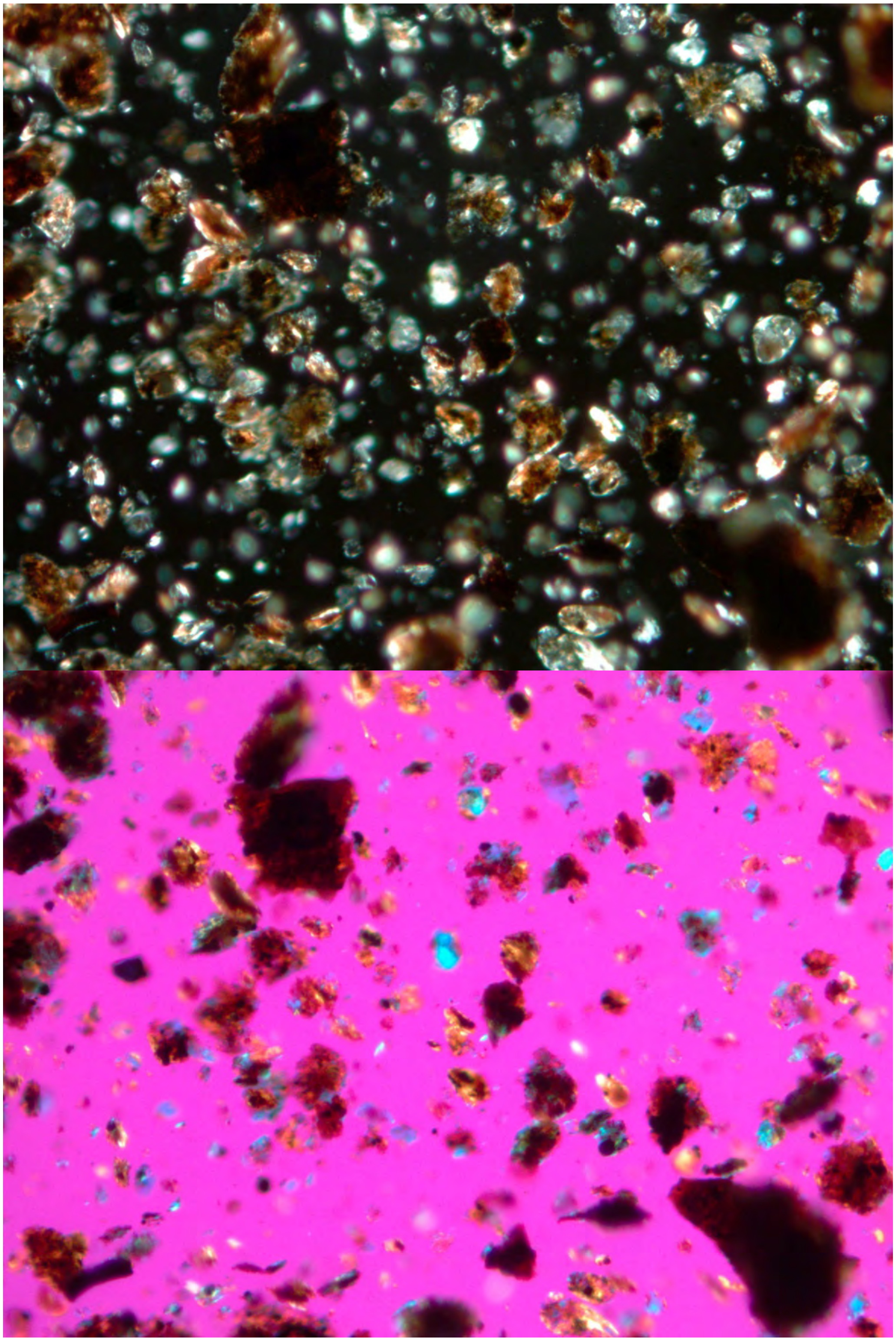

Figure 16 WDMW03B-07-SU10 (SwRI# 475584) Silt fraction in Canada Balsam at 100x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

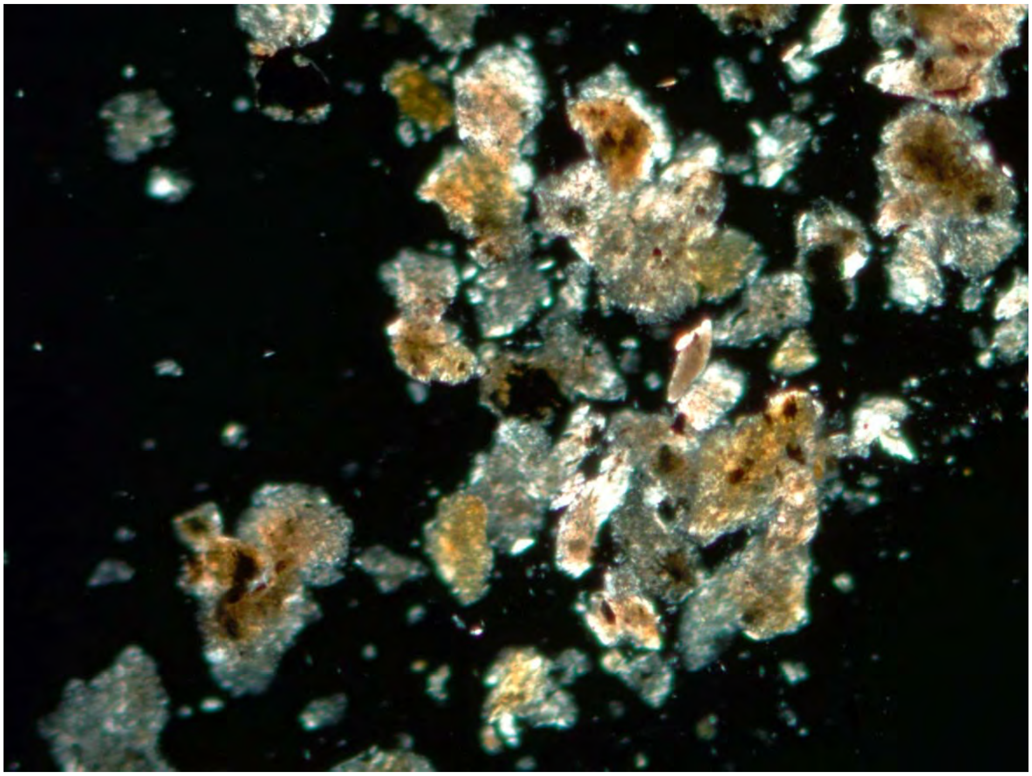

Figure 17 WDSB21-07-19.5 (SwRI# 473043) Sand fraction in Canada Balsam at 50x magnification under crossed polars

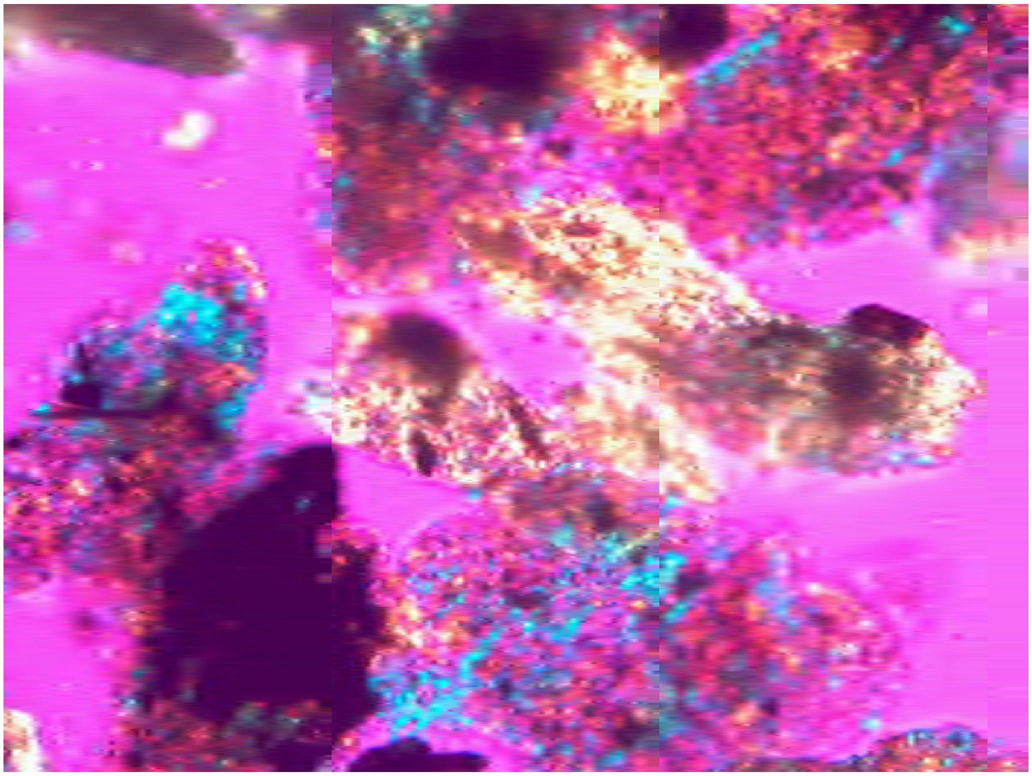

Figure 18 WDSB21-07-19.5 (SwRI# 473043) Sand fraction in Canada Balsam at 200x magnification under crossed polars with gypsum plate inserted

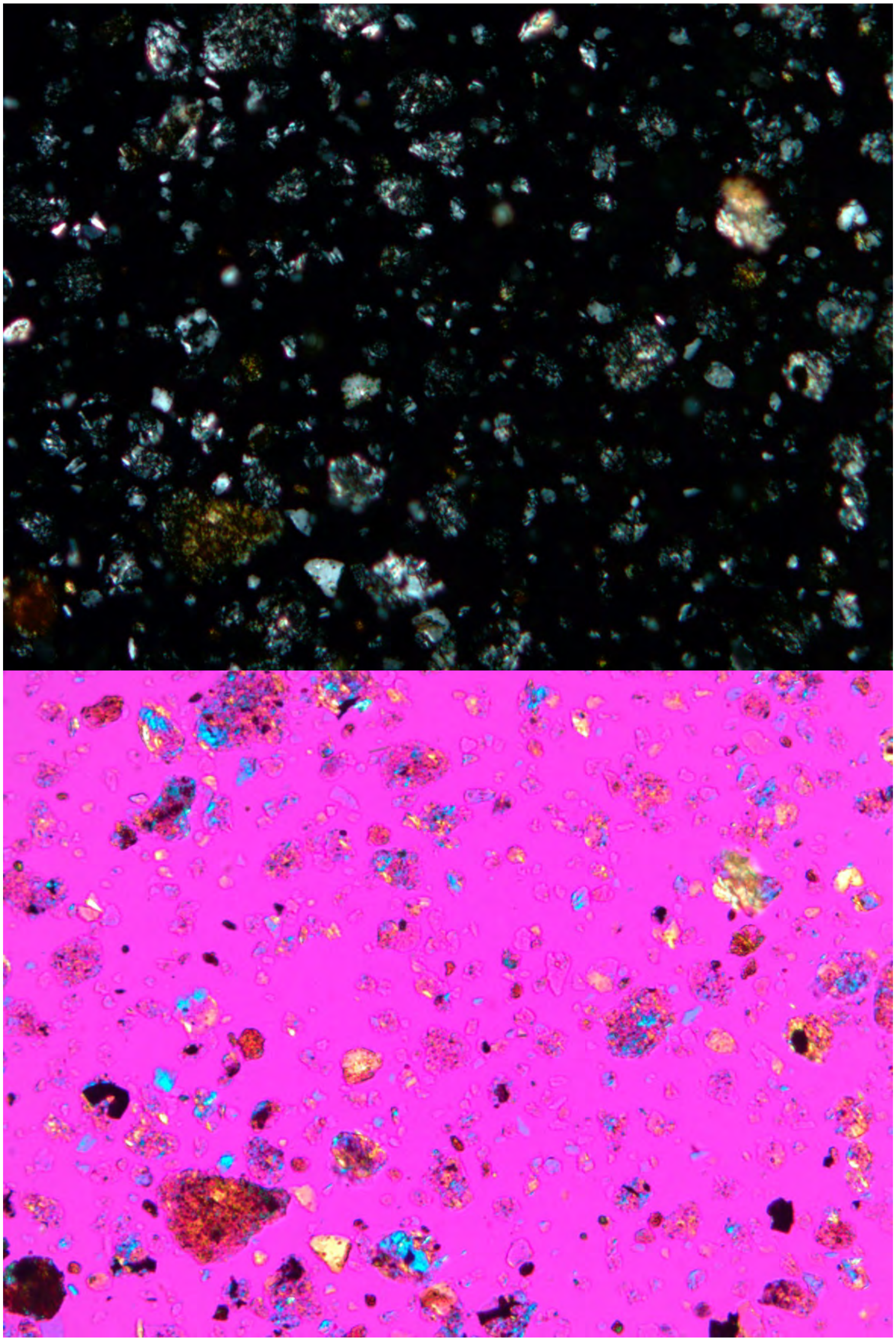

Figure 19 WDSB21-07-19.5 (SwRI# 473043) Silt fraction particles in Canada Balsam at 100x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

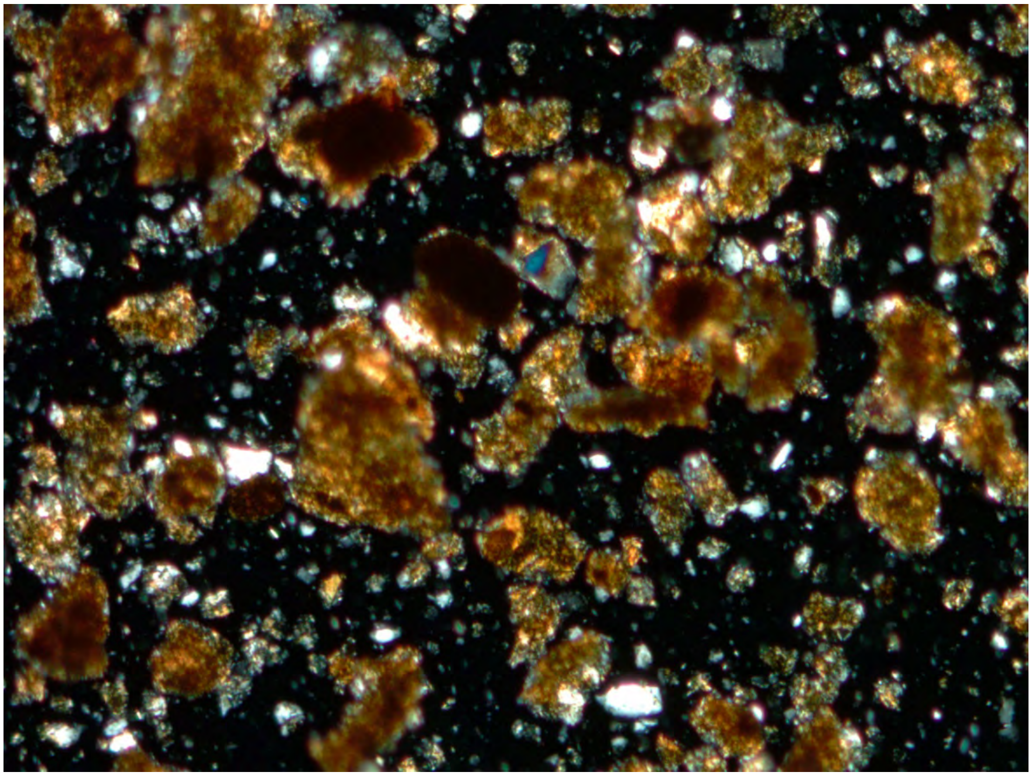

Figure 20 WDSB31-07-2.0 (SwRI# 474340) Sand fraction in Canada Balsam at 50x magnification under crossed polars

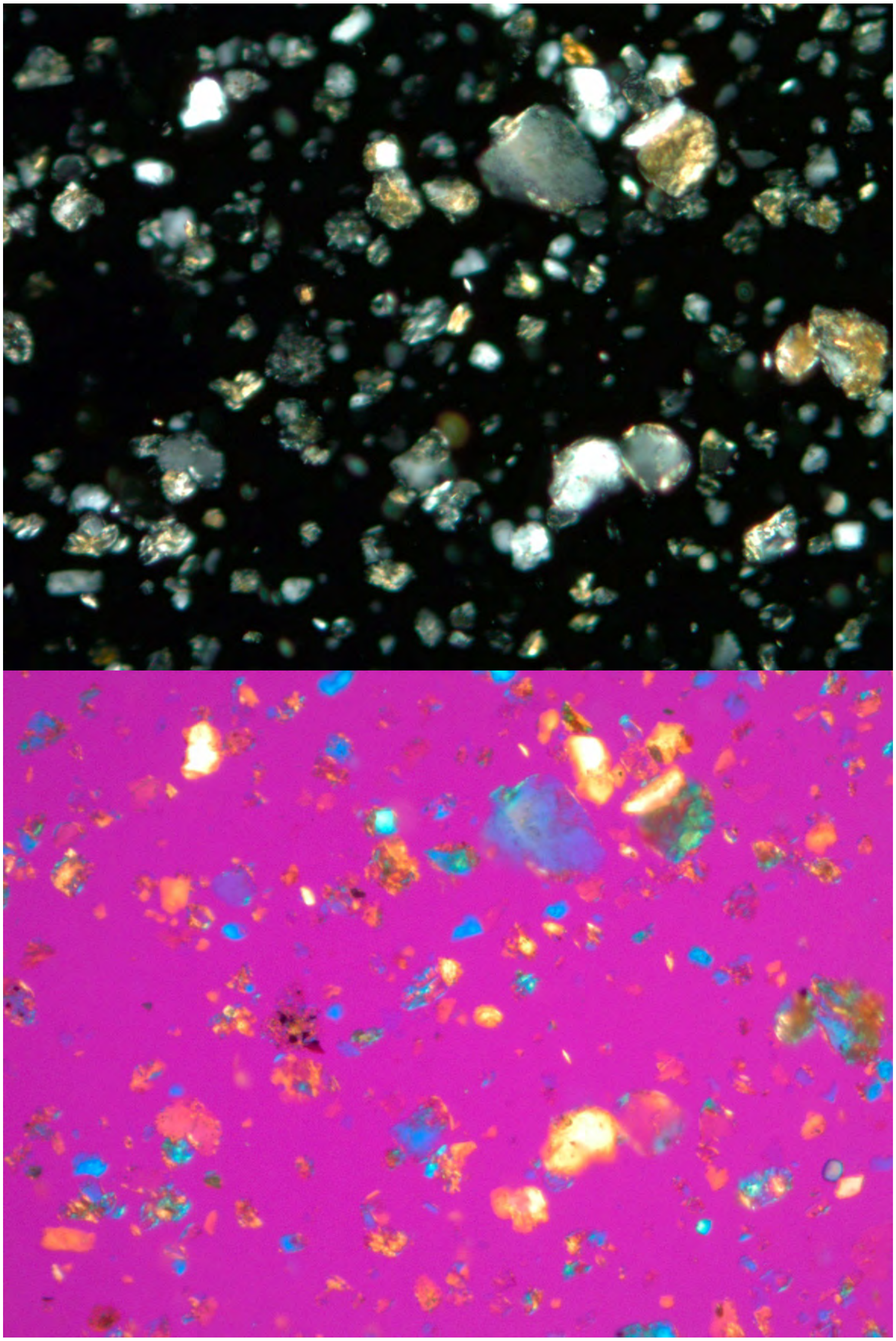

Figure 21 WDSB31-07-2.0 (SwRI# 474340) Silt fraction in Canada Balsam at 100x magnification under crossed polars (top) and with gypsum plate inserted (bottom)

OSDC AQUIFER PERFORMANCE TEST TECHNICAL MEMO

Section 1

Overview and Test Objectives

Fluor-B&W Portsmouth LLC (FBP) conducted aquifer testing at the proposed On Site Disposal Cell (OSDC) Area D adjacent to the Portsmouth Gaseous Diffusion Plant, located in Piketon, Ohio for the US Department of Energy (DOE). The testing consisted of single well yield tests and long-term, constant rate aquifer performance tests (CRTs).

The objectives of the testing were to:

- Determine the interconnectedness between the Berea Formation and any saturated portions of the stratigraphically higher Cuyahoga Formation.
- Estimate the hydraulic transmissivity and storativity (volume of water released from storage per unit decline in hydraulic head in the aquifer, per unit area of the aquifer) of the two-foot sandstone layer within the Cuyahoga Formation and any other saturated zones identified within the Cuyahoga Formation.

The information collected from the tests will be used to evaluate and characterize the proposed OSDC Study Area D hydrogeology and to help refine the site-wide numerical groundwater model.

The aquifer performance testing was conducted between the dates of June 7, 2012 and October 1, 2012.The testing consisted of five components:

- Background water level monitoring.
- Hydraulic communication testing to estimate the interconnectedness of the Cuyahoga and Berea Formations.
- Yield testing performed on open borehole Cuyahoga piezometers to estimate hydraulic characteristics of the Cuyahoga Formation.
- Yield testing performed on isolated zones within Cuyahoga piezometers to estimate hydraulic characteristics of the Cuyahoga Formation.
- Long term CRTs performed on isolated zones within Cuyahoga piezometers to estimate hydraulic characteristics of the Cuyahoga Formation.

Figure 1-1 shows the proposed OSDC Area D and the monitoring wells and piezometers used during the aquifer performance tests (APTs).

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Section 2

Test Methods

The APTs were composed of three components: background monitoring, yield testing, and long-term CRTs. The stratigraphic units of interest during performance of the APTs are introduced below.

2.1 Stratigraphic Units

In the vicinity of the OSDC, the Cuyahoga, Sunbury, and Bedford Formations are predominantly shales, while the Berea Formation is predominantly sandstone. This stratigraphy is described below, from oldest to youngest.

2.1.1 Bedford Shale

The Bedford Formation, commonly referred to as the Bedford Shale, is continuous beneath PORTS. It averages 100 feet in thickness, and consists of shale with thin interbeds and laminations of hard, gray, fine-grained sandstone and siltstone.

2.1.2 Berea Sandstone

The Berea Formation, commonly referred to as the Berea Sandstone overlies the Bedford Shale. In the proposed OSDC area, the Berea Sandstone is approximately 30 feet thick. The upper 10 to 15 feet of the Berea Formation is composed of a light-gray, hard, thickly bedded, fine-grained sandstone; the lower 5 to 20 feet of the formation has numerous interlayered shale and sandstone laminations, very similar to the underlying Bedford Formation.

2.1.3 Sunbury Shale

The Sunbury Shale is a competent black shale that averages about 15 to 20 feet in thickness beneath the proposed OSDC area.

2.1.4 Cuyahoga Shale

The Cuyahoga Formation, commonly referred to as the Cuyahoga Shale, is the uppermost bedrock formation in the proposed OSDC area. It is a moderately-hard, thinly-laminated shale with numerous sandstone laminations. It forms hills surrounding the facility but is not found beneath the industrial portion of PORTS.

A continuous two-foot sandstone layer occurs within the Cuyahoga Formation. Within the proposed OSDC Area D footprint, the two-foot sandstone layer dips gently to the southeast, at approximately five feet per thousand feet. In the southeastern portion, the sandstone layer is saturated and shows artesian condition. In the northwest portion of the proposed OSDC, the two-foot sandstone layer is higher and is not saturated.

2.2 Background Monitoring

Continuous water level measurements were collected with electronic data recorders at Berea monitoring wells and Cuyahoga piezometers. The Berea Formation monitoring wells were constructed within a borehole using an inner PVC casing, slotted screen, filter pack, and grout seal. Cuyahoga piezometers were constructed as open bedrock boreholes. The construction logs of the monitoring wells and piezometers are presented in Appendix A.

2.2.1 Rationale

Background monitoring was conducted to identify impacts on water levels from natural causes such as barometric pressure, precipitation, and anthropogenic causes such as groundwater withdrawal. Background water levels were collected at four Cuyahoga piezometers and four Berea wells for a period of six weeks. Several of the Cuyahoga piezometers responded weakly, if at all, to barometric fluctuation. As the Cuyahoga is a confined aquifer, piezometers installed in the Cuyahoga would be expected to respond efficiently to barometric pressure. Piezometers WD-PZ11C, WD-PZ13C, WD-PZ15C, WD-PZ16C, and WD-PZ17C did not respond to barometric fluctuations, raising doubts concerning the degree to which they are hydraulically connected to the Cuyahoga Formation. It is suspected that pronounced skin effects, related to well construction and development, may have compromised data from the non-responding wells. These concerns are explored further in Section 4.

WD-PZ09C and WD-PZ12C responded consistently to barometric fluctuations. WD-PZ09C was chosen as the Cuyahoga Formation background monitoring piezometer and WD-MW05B was chosen to monitor the Berea Formation. The location of the wells is shown in Figure 1-1.

2.2.2 Methods

Electronic water level transducers/recorders were placed in each well. After the water level stabilized, an initial water level measurement was collected with a water level indicator. This reference level was loaded into the transducer/recorder and documented in the field logbook and the data collection was initiated. Periodically, transducer measurements were verified using manual water measurements. Background monitoring hydrographs for the Cuyahoga piezometer and Berea well are included in Figures 2-1 and 2-2.

2.3 Hydraulic Communication Between Cuyahoga and Berea Formations

The degree of hydraulic interconnectedness between the Berea and Cuyahoga Formations was investigated by pumping the Berea Formation and monitoring the response, or absence of response, in the Cuyahoga Formation. Between June 26 and July 3, 2012 communication tests were conducted in each of the following four Berea wells, while water levels were monitored in each Berea well’s paired Cuyahoga piezometer:

- Pumped WD-MW03B and Monitored WD-PZ12C.
- Pumped WD-MW04B and Monitored WD-PZ13C.
- Pumped WD-MW05B and Monitored WD-PZ14C.
- Pumped WD-MW06B and Monitored WD-PZ11C.

2.3.1 Hydraulic Communication Testing Approach

Each test was started by pumping the Berea well at 0.1 gallons per minute (gpm). If the Berea well yield was sufficient (i.e., > 0.1 gpm), the test progressed by selecting additional pumping rates of increasing magnitude. If the Berea well yield was insufficient (i.e., <0.1 gpm), the Berea well was pumped dry and recharge was recorded.

2.3.2 Hydraulic Communication Testing Implementation

The testing was performed according to the following steps:

- A pressure transducer was deployed in the pumping well and the paired observation well. Initial water levels were collected using a hand meter and the transducers were referenced to this reading.
- A bladder pump was installed in the Berea well.
- Transducer data collection was initiated.
- Pumping was initiated at 0.1 gpm.
- Throughout the test, data were collected at both wells to determine the presence or absence of hydraulic communication between the two formations.

- If the Berea well sustained a 0.1 gpm discharge rate with stable drawdown over one hour, a higher pumping rate was initiated. Increasing pumping rates were implemented, until the well yield was exceeded.
- If a steady-state flow rate of 0.1 gpm could not be maintained during the test, the well was pumped dry, and the recovery of the well was recorded on the transducer. No Berea well produced 0.1 gpm.
- Recovery data were recorded as feet of recovery per time. The values were converted into volume per time to characterize the yield of the well.
- Water level data and calculations associated with the testing are presented in Figures 2-3 to 2-6.

2.4 Cuyahoga Formation Hydraulic Properties

Testing was performed between July 12, 2012 and Oct 1, 2012 to collect data that were used to estimate the hydraulic properties of the Cuyahoga Formation. The testing consisted of yield tests and long term CRTs. Where present, water levels were monitored in nearby Cuyahoga bedrock borings to provide additional data for the hydraulic property evaluation.

2.4.1 Yield Testing of Open Boreholes

Yield tests were initiated at the following six piezometers by placing a pump approximately two feet above the borehole bottom and pumping the entire borehole (i.e., no packers were used):

- Pumped WD-PZ11C and monitored WD-MW06B.
- Pumped WD-PZ13C and monitored WD-MW04B.
- Pumped WD-PZ14C and monitored WD-MW05B.
- Pumped WD-PZ15C and monitored SB67.
- Pumped WD-PZ16C and monitored SB57.
- Pumped WD-PZ17C and monitored SB53, SB54.

2.4.1.1 Approach to Yield Testing of Open Boreholes

Each test started with an initial pumping rate of 0.1 gpm and was intended to progress by selecting three additional pumping rates of increasing magnitude. Pumping rates progressed only if the Cuyahoga piezometer could sustain a 0.1 gpm discharge rate with stable drawdown over one hour. The flow rate at each subsequent pumping rate was selected based on the drawdown measured during the previous pumping step. The goal was to determine if the piezometer should receive subsequent testing of isolated zones. The nearby Berea well was monitored during testing of WD-PZ11C, WD-PZ13C, and WD-PZ14C to detect any evidence of hydraulic communication between the Cuyahoga and Berea Formations. In the case of WD-PZ15C, WD-PZ16C, and WD-PZ17C, the nearby Cuyahoga borings SB67, SB57, and SB53/SB54 were monitored in the expectation of detecting a hydraulic response that would provide an additional method for estimating a value for hydraulic conductivity for the Cuyahoga Formation.

2.4.1.2 Implementation of Yield Testing of Open Boreholes

The testing was performed according to the following steps:

- A pressure transducer was deployed in the pumping well and the paired observation point. Initial water levels were collected using a hand meter and the transducers were referenced to this reading.
- A bladder pump (WD-PZ11C, WD-PZ13C, and WD-PZ14C) or rotary impeller pump (WD-PZ15C, WD-PZ16C, and WD-PZ17C) was installed in the piezometer.
- Transducer data collection was initiated.

- Pumping was initiated at a rate of 0.1 gpm (WD-PZ11C, WD-PZ13C, and WD-PZ14C), as it was uncertain if the piezometers could sustain a 0.1 gpm discharge rate with stable drawdown over one hour.
- Pumping was initiated at a rate of 2 gpm (WD-PZ15C, WD-PZ16C, and WD-PZ17C), as groundwater sampling previously conducted at these piezometers had revealed well yields < 0.1 gpm.
- At WD-PZ09C and WD-PZ12C the open borehole could sustain a 0.1 gpm discharge rate with stable drawdown over one hour. At these piezometers, isolated zones within the borehole were subsequently tested, and as explained in Section 2.4.2.
- Piezometers WD-PZ15C, WD-PZ16C, and WD-PZ17C are co-located with a Cuyahoga bedrock boring located approximately 10 feet from the piezometer. At these three locations, water levels were recorded in both the pumped piezometer and the paired bedrock boring.
- Piezometers WD-PZ11C, WD-PZ13C, and WD-PZ14C are co-located with a Berea well located approximately 10 feet from the piezometer. At these three locations, water levels were recorded in both the pumped piezometer and the Berea well.
- Water level data and calculations associated with the yield testing in open boreholes are included in Figures 2-7 to 2-12.

The following quality control measures were taken.

- Manual water levels were collected from the isolated zone during each test to verify the electronic data.
- Flow rate was measured at the beginning of each pumping rate, periodically for the first 15 minutes, and at the end of each pumping rate to ensure a constant flow rate.
- For each pumping step, the discharge rate was confirmed using flow meter readings, totalizer readings divided by elapsed time, and timed filling of a graduated cylinder.

2.4.2 Yield Testing of Isolated Borehole Zones

Testing of isolated zones within the borehole was initiated at open boreholes that could sustain a 0.1 gpm discharge rate with stable drawdown over one hour. Isolated zones were selected prior to commencement of aquifer testing based on observations during drilling, water level response during groundwater sampling, as well as examination of geophysical logs. The selected pumping zones were:

- WD-PZ09C: 679-671 feet* (two-foot sandstone layer)
- WD-PZ09C: 671-636 feet (possible saturated zone below two-foot sandstone layer)
- WD-PZ12C: 749-709 feet (saturated zone above two-foot sandstone layer)
- WD-PZ12C: 710-679 feet (possible saturated zone above two-foot sandstone layer)
- WD-PZ12C: 712-681 feet (possible saturated zone above two-foot sandstone layer)
- WD-PZ12C: 678-663 feet (two-foot sandstone layer)

*Vertical datum NGVD29

2.4.2.1 Approach behind Yield Testing of Isolated Borehole Zones

Each test started with an initial pumping rate of 0.1 gpm and was intended to progress by selecting three additional rates of increasing magnitude. Pumping rates progressed only if the isolated zone could sustain a 0.1 gpm discharge rate with stable drawdown over one hour. Each subsequent pumping rate was selected based on the drawdown measured during the previous pumping step. The goal was to have the third pumping rate match the maximum pumping rate sustainable during a long term CRT, and to exceed the zone’s yield during the fourth pumping rate. If a steady-state flow rate of 0.1 gpm could not be maintained, the zone was pumped dry and the recovery of the well was recorded using the transducers. These data were recorded as feet of recovery per time. The values were converted into volume per time to characterize the yield of the well.

2.4.2.2 Implementation of Yield Testing of Isolated Boreholes Zones

The testing was performed according to the following steps:

- The pneumatic packer assembly was configured so that the target zone could be isolated.
- The pneumatic packer assembly was lowered to the selected depth.
- In the case of a double packer assembly, one packer was placed just below the bottom of the target zone and the other packer above the target zone.
- In the case of a single packer assembly, one packer was placed either just below or just above the target zone.
- Transducers below, within, and above the isolated zone were referenced to the static water level.
- The hydraulic packers were inflated.
- Transducer data collection was initiated.
- Pumping was initiated.
- Drawdown recorded in zones above or below the target interval was interpreted to be a potential poor seal, and the packers were deflated and vertically adjusted to establish a better seal. The lithologic and geophysical logs were consulted to help minimize the magnitude of the vertical adjustment.
- If the zone could sustain a 0.1 gpm pumping rate with stable drawdown, over one hour, progressively higher pumping rates were initiated, followed by a long term CRT, as explained in Section 2.4.3.
- If a steady-state flow rate of 0.1 gpm could not be maintained, the zone was pumped dry, and the recovery of the well was recorded using the transducers. These data were recorded as feet of recovery per time. The values were converted into gpm to characterize the yield of the zone.

Water level data hydrographs and pumping rates are presented in Figures 2-13 to 2-18.

2.4.3 Constant Rate Yield Testing of Isolated Borehole Zones

A long term CRT was planned for each isolated zone that could sustain a 0.1 gpm discharge rate with stable drawdown. The goal was to collect data allowing an estimate of the hydraulic transmissivity and storativity within the Cuyahoga Formation. The selected pumping zones were:

- WD-PZ09C: 679-671 feet (containing the two-foot sandstone layer).
- WD-PZ12C: 678-663 feet (containing the two-foot sandstone layer).

2.4.3.1 Constant Rate Testing Approach

The isolated zones were pumped at a constant rate, which was selected based on the results of the step test. The objective was to stress the aquifer as much as possible, while maintaining a water level above the pump intake. Each test was terminated after 48 hours.

2.4.3.2 Constant Rate Testing Implementation

The testing was performed according to the following steps:

- The pneumatic packer assembly was configured so that the target zone could be isolated.
- The pneumatic packer assembly was lowered to the selected depth.

- One packer was placed just below the bottom of the target zone and the other packer above the target zone.
- Transducers below, within, and above the isolated zone were referenced to the static water level.
- The hydraulic packers were inflated.
- Transducer data collection was initiated.
- Pumping was initiated.
- Drawdown recorded in zones above or below the target interval was interpreted to be a potential poor seal, and the packers were deflated and vertically adjusted to establish a better seal. The lithologic and geophysical logs were consulted to help minimize the magnitude of the vertical adjustment.
- WD-PZ09C: 679-671 feet
  - Discharge rate: 0.6 gpm
  - Pumping begins: 19:07 on 9/12/12
  - Pumping ends: 19:07 on 9/14/12
  - Monitor:
    - WD-PZ11C
    - WD-PZ12C
    - WD-PZ13C
    - WD-PZ14C
    - WD-MW03B
    - WD-MW04B
    - WD-MW05B
    - WD-MW06B
- WD-PZ12C: 678-663 feet
  - Discharge rate: 1.2 gpm
  - Pumping begins: 16:30 on 9/21/12
  - Pumping ends: 17:01 on 9/23/12
  - Monitor:
    - WD-PZ09C
    - WD-PZ11C
    - WD-PZ13C
    - WD-PZ14C
    - WD-MW03B
    - WD-MW04B
    - WD-MW05B
    - WD-MW06B

Section 3

Data Analysis and Results

The testing data were evaluated to identify any interconnectedness of the Cuyahoga and Berea Formations and to estimate the hydraulic properties within the two-foot sandstone layer and identified saturation zones within the Cuyahoga Formation. Evaluating background data supported the interconnectedness and hydraulic property evaluation.

3.1 Evaluation of Background Data

Background water levels were evaluated for Cuyahoga piezometer WD-PZ09C and Berea well WD-MW03B. The goal was to identify the cause of water level fluctuations (e.g. aquifer drainage, barometric response, aquifer pumping, earth tides, and precipitation influences) and to quantify any identified effects so that the effects can be removed from the CRT data, prior to hydraulic analysis.

3.1.1 Draining Influence

No long term declining or increasing trends in water level were noted in the hydrographs. This observation suggests drainage or recharge effects did not have a significant impact on CRT data.

3.1.2 Pumping Effects and Earth Tides

In the OSDC area, all wells are of the monitoring type, no pumping is performed, and no effects from pumping were expected. Water levels in aquifers may exhibit fluctuations due to changes in gravity caused by changes in the position of the sun and moon relative to the earth. These fluctuations are called earth tides. Earth tides are typically not observed in unconfined aquifers but can be detected in confined aquifers. Background monitoring hydrographs for WD-PZ09C and WD-MW05B show cyclic impacts in water levels on the order of 0.03 to 0.04 feet. These impacts can be attributed to earth tides. However, the magnitude of these effects was considered negligible during the data analysis.

3.1.3 Barometric Effects

When examining the background data, fluctuations in barometric pressure are identifiable as the major effect on the background water levels. The magnitude of the water level response to changes in barometric pressure is defined as the formation's barometric efficiency:

- If an aquifer is unaffected by changes in barometric pressure, then all of the change in water level measured at the borehole is due to atmospheric pressure fluctuations acting on the exposed borehole, not to changes in the aquifer water level. In this extreme case, barometric efficiency would be 100%.

- If an aquifer responds instantaneously to changes in barometric pressure, then all of the change in water level measured at the borehole is due to water level changes in the aquifer acting on the exposed borehole. None of the change in the borehole water level is due to change in barometric pressure acting on the exposed borehole. In this extreme case, the barometric efficiency would be 0%.

Barometric pressure data were collected using an onsite barometric transducer. These data were used to estimate the barometric pressure influence on the groundwater levels.

Cuyahoga piezometer WD-PZ09C and Berea well WD-MW03B exhibited water level fluctuations that correlated with changes in barometric pressure. Because the barometric effects were large relative to the induced drawdown, water elevation data were corrected for barometric effects. Curve-matching was employed using a range of barometric efficiencies to minimize the effects of barometric variation. Barometric efficiency is defined using the following equation.

Barometric efficiency = (average change in water level / average change in barometric pressure) x 100%

Overall, a barometric efficiency value of 90% provided the best fit. This value is high, which is consistent with an aquifer that is confined to a high degree. Figures 3-2 to 3-9 and 3-11 to 3-18 show hydrographs for locations monitored during the two CRTs including raw water levels, barometric readings, and water levels corrected for barometric effects.

3.2 Hydraulic Communication between Cuyahoga and Berea Formations

The degree of hydraulic interconnectedness between the Berea and Cuyahoga Formations was investigated by pumping the following Berea Formation piezometers and monitoring the response, or absence of response, in the following Cuyahoga Formation monitoring wells, located at a lateral distance of approximately 10 feet:

- Pumped WD-MW03B and Monitored WD-PZ12C
- Pumped WD-MW04B and Monitored WD-PZ13C
- Pumped WD-MW05B and Monitored WD-PZ14C
- Pumped WD-MW06B and Monitored WD-PZ11C

None of the Berea wells could maintain a pumping rate of 0.1 gpm with steady state drawdown. As a result, each borehole was pumped dry and the recharge was recorded. Notable in the hydrographs is the absence of response of the water level in the Cuyahoga piezometer to pumping in the Berea well. This lack of response suggests little to no hydraulic communication between the Cuyahoga Formation and the Berea Formation.

To estimate the yield of wells, recovery was recorded using transducers. These data were recorded as feet of recovery per time. The values were converted into gpm. These values were converted into recharge rates ranging from 0.008 gpm at WD-MW05B to 0.02 gpm at WD-MW06B.

Well ID	Total Draw-down	90% Recovery		50% Recovery	
		Volume	Rate	Volume	Rate
WD-MW03B	21.99 ft	19.79 ft x 0.163 gal/ft* = 3.2 gal	3.23 gal / 306 min = 0.01 gpm	Not Applicable**	Not Applicable**
WD-MW04B	15.98 ft	14.38 ft x 0.163 gal/ft = 2.34 gal	2.3 gal / 273 min = 0.009 gpm	7.99 ft x 0.163 gal/ft = 1.3 gal	1.3 gal / 95 min = 0.01 gpm
WD-MW05B	16.58 ft	14.92 ft x 0.163 gal/ft = 2.4 gal	2.4 gal / 310 min = 0.008 gpm	8.29 ft x 0.163 gal/ft = 1.4 gal	1.4 gal / 86 min = 0.02 gpm
WD-MW06B	18.38 ft	16.54 ft x 0.163 gal/ft = 2.7 gal	2.7 gal / 140 min = 0.02 gpm	9.19 ft x 0.163 gal/ft = 1.5 gal	1.5 gal / 47 min = 0.03 gpm

*0.163 gallons per foot of depth in a 2-inch well.

**Recharge rate not estimated. 50% recovery was achieved before data logger began recording.

3.3 Hydraulic Properties of Low-Yielding Saturated Zones Identified within the Cuyahoga Formation

Only two zones (WD-PZ09C: 679-671 feet and WD-PZ12C: 678-663 feet) could maintain a pumping rate of > 0.1 gpm. The following piezometers or isolated zones within piezometers could not maintain a pumping rate of 0.1 gpm:

- WD-PZ09C (671-636 feet)
- WD-PZ11C (Entire borehole)
- WD-PZ12C (749-709 feet and 712-681 feet)
- WD-PZ13C (Entire borehole)
- WD-PZ14C (Entire borehole)
- WD-PZ15C (Entire borehole)
- WD-PZ16C (Entire borehole)
- WD-PZ17C (Entire borehole)

At each low-yielding zone, the borehole or isolated zone was pumped dry, and recharge was recorded. The time required to recover a percentage of the applied drawdown was measured and converted into gpm. These values were used to estimate the yield of the well. The yield ranged from 0.0007 gpm at WD-PZ15C to 0.05 gpm at WD-PZ13C.

Well ID	Total Draw-down	90% Recovery		50% Recovery	
		Volume	Rate	Volume	Rate
WD-PZ11C	12.17 ft	10.95 ft x 1.47 gal/ft* = 16.1 gal	16.1 gal / 649 min = 0.03 gallons per minute (gpm)	6.09 ft x 1.47 gal/ft = 8.9 gal	8.9 gal / 244 min = 0.04 gpm
WD-PZ13C	20.46 ft	Not Applicable**	Not Applicable**	10.23 ft x 1.47 gal/ft = 15.0 gal	15.0 gal / 334 min = 0.05 gpm
WD-PZ14C	19.97 ft	17.97 ft x 1.47 gal/ft = 26.4 gal	26.4 gal / 11,165 min = 0.002 gpm	9.99 ft x 1.47 gal/ft = 14.7 gal	14.7 gal / 4,502 min = 0.003 gpm
		Recovery		Volume	Rate
WD-PZ15C	28.92 ft	13%		4.0 ft x 1.47 gal/ft = 5.9 gal	5.9 gal / 8600 min = 0.0007 gpm
WD-PZ16C	11.02 ft	50%		5.5 ft x 1.47 gal/ft = 8.1 gal	8.1 gal / 8,299 min = 0.001 gpm
WD-PZ17C	18.09 ft	33%		6.0 ft x 1.47 gal/ft = 8.8 gal	8.8 gal /8600 min = 0.001 gpm

*1.47 gallons per foot of depth in 6-inch well

**Recharge rate could not be estimated. 50% recovery was achieved before data logger began recording.

Notable in the hydrographs for WD-PZ15C, WD-PZ16C, and WD-PZ17C is the absence of hydraulic response recorded at the nearby Cuyahoga bedrock boring. Also notable is that the recovery data are highly linear. The linearity of the recovery data is uncharacteristic of a standard aquifer response. Poor hydraulic communication between the piezometer and the saturated formation may also play a role in the atypical recovery.

Poor hydraulic communication between piezometer and formation can be thought of in terms of a skin effect. The concept of a wellbore skin is used to account for the difference between measured and predicted response in a pumping well. A positive skin, resulting from reduced permeability near the wellbore, is caused by damage to the interface between the aquifer and the wellbore. To evaluate the skin effect at WD-PZ15C, WD-PZ16C, and WD-PZ17C, basic assumptions were made concerning the dimensions of the skin. These assumptions, combined with recovery data from WD-PZ15C, WD-PZ16C, and WD-PZ17C, were input into Darcy's Law to get a sense of the skin effect. Darcy's Law describes the following relationship:

Darcy's Law $Q = Kia$

Rearranging $K = Q/ia$

Q = discharge (volume /time)
K = hydraulic conductivity (length/time)
i = gradient (unitless)
a = cross sectional area (length^2)

The skin effect was assumed to extend outward from the borehole to a radius of 1.5 ft. Beyond this radius, the head in the formation was assumed to be unaffected by evacuating the piezometer. The cross-sectional area was assumed to be the height of the two-foot sandstone layer multiplied by the diameter of the extent of the skin effect. Q was assumed to be the measured recovery rate at each piezometer.

K = Q/ia

Well ID	**Q (ft^3/day)**	**Drawdown (ft)**	**Skin Radius (ft)**	**i**	**a (ft^2)**	**K (ft/day)**
WD-PZ15C	0.131	28.92	1.5	19.3	6	1 X 10^{-3}
WD-PZ16C	0.196	11.02	1.5	7.3	6	4 X 10^{-3}
WD-PZ17C	0.196	18.09	1.5	12.1	6	3 X 10^{-3}

Using this method, estimating the hydraulic conductivity of the skin effect is dependent on the estimated radial distance to which the skin effect extends. During advancement of the borehole drilling fluids containing naturally occurring clay particles (pulverized shale) enter the aquifer. Permeable zones are most easily penetrated by the clay-containing drilling fluids, and their effects can extend out from the borehole several feet. A radial distance of 1.5 feet was chosen as a conservative estimate for the penetration depth of drilling fluids.

The conductivities estimated for the well skin are higher than the horizontal hydraulic conductivity included in the site-wide groundwater numerical model for the Cuyahoga Formation (7 X 10^{-5} feet/day). It is uncertain whether the hydraulic testing simply measured a skin effect, and the true hydraulic conductivity in these areas is much greater than 10^{-3} ft/day. Alternatively, the skin effect may be negligible, in which case the testing has measuring the true hydraulic conductivity. This issue is discussed in further detail in Section 4.

3.4 Hydraulic Properties Based on Testing of the Two-Foot Sandstone Layer Higher-Yielding Saturated Zones Identified in the Cuyahoga Formation

During the two Cuyahoga Formation CRTs, while pumping WD-PZ09C, a water level response was recorded at WD-PZ12C and at no other location. Similarly, while pumping WD-PZ12C, a water level response was recorded at WD-PZ09C and at no other location. The data collected at WD-PZ09C and WD-PZ12C responded to barometric pressure in an instantaneous and consistent manner, allowing the barometric effects to be easily removed. The underlying response to pumping was found to be similar to the type curve for confined response to pumping. As a consequence, during pumping of WD-PZ09C and WD-PZ12C, the data collected at observation wells WD-PZ12C and WD-PZ09C, respectively, were evaluated to estimate the hydraulic characteristics of the two-foot sandstone within the Cuyahoga Formation.

3.4.1 General Conditions of the Two-Foot Sandstone Layer in Higher-Yielding Parts of the Cuyahoga Formation

Based on the hydrolithology of the two-foot sandstone layer and the observation that water levels within the Cuyahoga piezometers rise above the two-foot sandstone layer, hydraulic conditions within the two-foot sandstone layer are likely semi-confined or confined. Therefore, hydraulic response was evaluated using solutions for semi-confined and confined aquifer conditions. It was found that curve matches were best using the confined solution. The close match between recorded data and the confined aquifer type curve, the potentiometric surface that rises above the saturated zone, and the high degree of barometric efficiency exhibited by the Cuyahoga piezometers are each consistent with confined conditions within the two-foot sandstone layer.

Transmissivity and storage coefficients were estimated using a solution for confined aquifer conditions (Theis, 1935). The Theis solution was chosen since it is commonly used for test evaluations when site conditions meet, to a reasonable extent, solution assumptions. As with all field conditions, Cuyahoga Formation conditions do not exactly match the Theis solution requirements (Kruseman, G.P. and N.A. de Ridder 1990). For example, one solution assumption is that the aquifer must be homogeneous and isotropic. The Cuyahoga Formation at Proposed OSDC Area D is a low permeability shale that includes a transmissive two-foot sandstone layer. The tested formation is heterogeneous and anisotropic.

3.4.2 Hydraulic Properties of the Two-Foot Sandstone Layer in Higher-Yielding Parts of the Cuyahoga Formation

The curves are presented as Figures 3-19 and 3-20 and show range of transmissivity from 80 ft^2/day (using data from observation well WD-PZ09C) to 100 ft^2/day (using data from observation well WD-PZ12C) and a range of storativity from $3 X 10^{-4}$ to $5 X 10^{-4}$. Dividing the average transmissivity determined during curve matching by the aquifer thickness of two feet, the resulting hydraulic conductivity range is 40 to 50 ft/day.

3.4.3 Absence of Berea Formation Response to Pumping in Higher-Yielding Parts of the Cuyahoga Formation during the CRTs

Berea well hydrographs collected during the Cuyahoga CRTs record no reaction to pumping in the Cuyahoga Formation (Figures 3-6 to 3-9 and 3-15 to 3-18). In addition to testing designed specifically to estimate the interconnectedness, as described in Section 3.2, the absence of response in the Berea Formation during performance of CRTs within the Cuyahoga Formation is an additional indicator that the two formations have little to no hydraulic communication.

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Section 4

Conclusions and Recommendations

Two CRTs were performed during the aquifer performance testing. The CRTs were performed by pumping piezometers WD-PZ09C and WD-PZ12C, which are located within or near the south central portion of proposed OSDC Area D. Hydraulic properties estimated from the CRTs are applicable to the vicinity of the southeastern portion of proposed OSDC Area D. In the central and northwestern portions of the Proposed OSDC Area D, it was not possible to perform CRTs, due to low-yielding Cuyahoga piezometers. In the central and northwestern portions of the Proposed OSDC Area D, observations of hydraulic performance were based solely on stressing and measuring response at single piezometers (i.e., no observation well data were suitable for use). As will be discussed in the sections below, the single piezometer data are suspect, due to concerns surrounding the degree of communication between the piezometer and the two-foot sandstone layer.

Within or near the south central portion of proposed OSDC Area, testing provided strong indications that the conditions within the two-foot sandstone layer are confined:

- The hydrolithology of the two-foot sandstone layer (underlain and overlain by low conductivity shale).
- The low estimated storativity of the two-foot sandstone layer.
- Observed water level elevations rising above the two-foot sandstone layer.
- The estimated 90% barometric efficiency of the two higher-yielding Cuyahoga piezometers. High barometric efficiency is consistent with confined conditions.
- The close match between CRT response hydrographs for the two higher-yielding Cuyahoga piezometers and the confined aquifer type curve.

Using confined aquifer type curve matching, the hydraulic conductivity of the two-foot sandstone layer was estimated to be in the range is 40 to 50 ft/day with storativity from 3×10^{-4} to 5×10^{-4}. In addition, hydraulic communication testing indicated no hydraulic communication between the Cuyahoga and Berea Formations.

4.1 Lithology and Hydraulic Properties of the Two-Foot Sandstone Layer in Low-Yielding and Higher-Yielding Parts of the Cuyahoga Formation

Lithologic logs completed for borings in Proposed OSDC Area D contain descriptions of the two-foot sandstone layer that are notably similar from location to location. The recurring description is of hard, sound, fresh, grey, very fine to fine sandstone. At widely separated locations, the two-foot sandstone layer is under roughly equivalent piezometric head. Static water levels were between six and nine feet above the top of the two-foot sandstone layer at piezometers WD-PZ09C, WD-PZ11C, WD-PZ12C, WD-PZ15C, and WD-PZ17C. However, the hydraulic performance of the five mentioned piezometers varied in the extreme. WD-PZ09C and WD-PZ12C yielded 0.6 gpm and 1.2 gpm, respectively, while well yields at WD-PZ11C, WD-PZ15C, and WD-PZ17C were four orders of magnitude less. Based on similar lithology and piezometric head, similar hydraulic performance would be predicted. This conflicting and/or uncharacteristic observation, as well as others, indicates the possibility that skin effects may have dominated the hydraulic performance of the low-yielding piezometers. Skin effects are likely related to well construction and will be discussed in subsequent sections.

4.2 Piezometer Construction

At Proposed OSDC Area D, piezometers were installed using air rotary techniques to advance the borehole to a depth at least several feet deeper than the two-foot sandstone layer. The Cuyahoga Formation is both hydraulically low-yielding and friable. Described below are aspects of piezometer installation relating to the nature of the Cuyahoga Formation and ultimately to the suitability of the piezometers for aquifer performance testing:

- To enhance identification of minor saturated zones within the Cuyahoga Formation, no water was added to the airstream during advancement using air rotary.
- Because little water was produced by the formation and no water was added during drilling, little to no water was available to develop the borehole after reaching final depth. At a more productive borehole, a column of water is available to lift and drop, using air introduced to the bottom of the borehole through the tooling. The process causes vigorous flow in and out of productive zones, and is typically repeated over an extended period of time, until the purge water turbidity is reduced to acceptable levels.
- Because a column of water was not available for borehole development, it was not possible to clear shale cuttings (pulverized shale and clay to silt-sized particles) from the productive portion of the borehole (i.e., the bedding plane fractures at the lithologic contact between the two-foot sandstone and the surrounding shale).
- The friable Cuyahoga shale tends to crumble and collapse in the borehole, especially when exposed to water. Over the six to nine months between installation and aquifer testing, many piezometers became shallower, evidence of minor collapse.

4.3 Evidence of Poor Hydraulic Communication between Formation and Borehole at Tested Piezometers

Perhaps the strongest argument for poor communication between low-yielding Cuyahoga piezometers and the two-foot sandstone layer is the lack of barometric response recorded at the low-yielding Cuyahoga piezometers. The water levels measured in higher-yielding piezometers WD-PZ09C and WD-PZ12C respond with estimated 90% barometric efficiency. This means that 90% of the change in water level measured at the borehole is due to atmospheric pressure fluctuations acting on the exposed borehole and 10% of the change in water level measured at the borehole is due to water level changes in the aquifer acting on the exposed borehole. If all piezometers were in equal hydraulic communication with the two-foot sandstone layer, uniform barometric efficiency would be predicted across the proposed OSDC Area D (i.e, piezometers WD-PZ09C, WD-PZ11C, WD-PZ12C, WD-PZ15C, and WD-PZ17C would display similar barometric efficiency). Absent lithologic or piezometric head variation, a likely mechanism to profoundly change barometric efficiency is not available. More plausible is the notion of widely varying hydraulic communication between the Cuyahoga piezometers and the two-foot sandstone layer.

Another argument for poor communication between Cuyahoga piezometers and the two-foot sandstone layer is the linearity of the recovery data in the hydrographs for WD-PZ15C and WD-PZ17C. Linear recovery is uncharacteristic of a standard aquifer response. The atypical recovery, combined with an absence of barometric response, is a strong indicator of poor hydraulic communication between the piezometer and the saturated formation.

4.4 Impact of Poor Hydraulic Communication

As a result of the likely poor hydraulic communication between some Cuyahoga piezometers and the two-foot sandstone layer, it is premature to conclude with certainty that data collected from a low-yielding piezometer can be used to accurately estimate the hydraulic properties of the two-foot sandstone in the vicinity of the low-yielding piezometer. When analyzing data from a low-yielding Cuyahoga piezometer, it is unclear whether the piezometer is in good hydraulic communication with the two-foot sandstone. It is also possible that borehole instability and insufficient development play a large role in the absence or very small magnitude of hydraulic response.

To proceed conservatively with the data currently available, the following assumption is prudent: In areas where only low-yielding Cuyahoga piezometers are available, the true hydraulic conductivity in the two-foot sandstone layer lies somewhere between the values measured using type curve matching, at WD-PZ09C and WD-PZ12C, and the values estimated using Darcy's Law, at WD-PZ11C, WD-PZ12C, WD-PZ15C, and WD-PZ17C. This wide range of hydraulic conductivity provides limited assistance in the attempt to refine the site-wide numerical groundwater model in the vicinity of Proposed OSDC Area D.

4.5 Recommended Modifications

Each Cuyahoga piezometer would benefit from stabilization and development. To stabilize the piezometer, the installation of a conventional well using a five-foot screen, filter pack, and riser is recommended. Impairment of the two-foot sandstone layer that occurred during drilling (i.e., plugging productive fractures with fine material) must be repaired to restore the formation’s native hydraulic properties. Introduced water will be necessary, as a significant column of water will be required to cause forceful reversals of flow through the well screen and sandstone layer. Reversing the direction of flow breaks down cohesive fines and moves the fine material into the piezometer so that it can be removed. To force water into and out of the screen and sandstone layer, use of a surge block, air lifting, or alternative method will be necessary. To select the most appropriate development method, consultation with the drilling firm that installed the piezometers is recommended. After development, testing should be performed, following the methods used previously.

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Section 5

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Figure 2-1
WD-PZ09C Cuyahoga Formation Background Monitoring

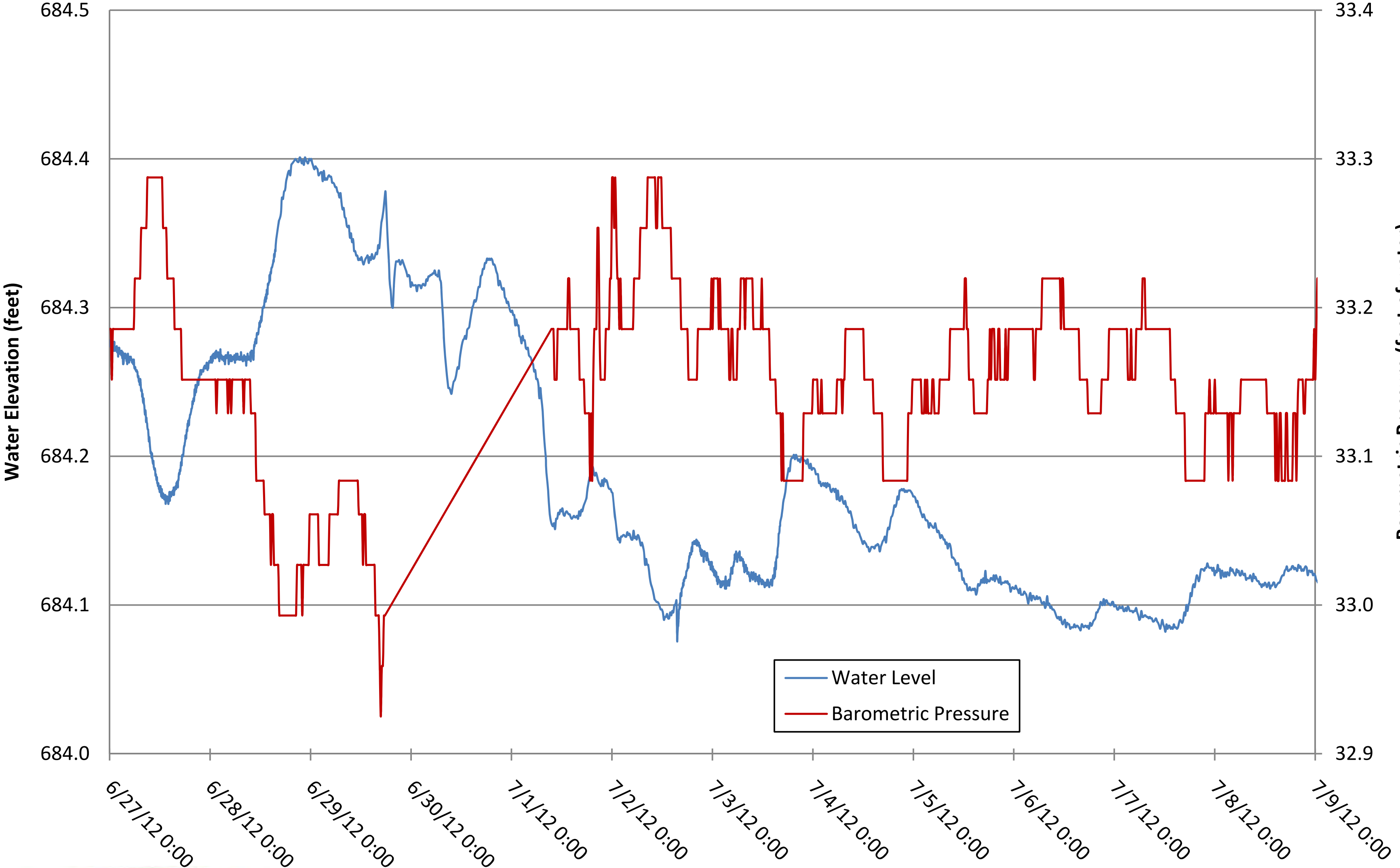


Figure 2-2
WD-MW05B Berea Formation Background Monitoring

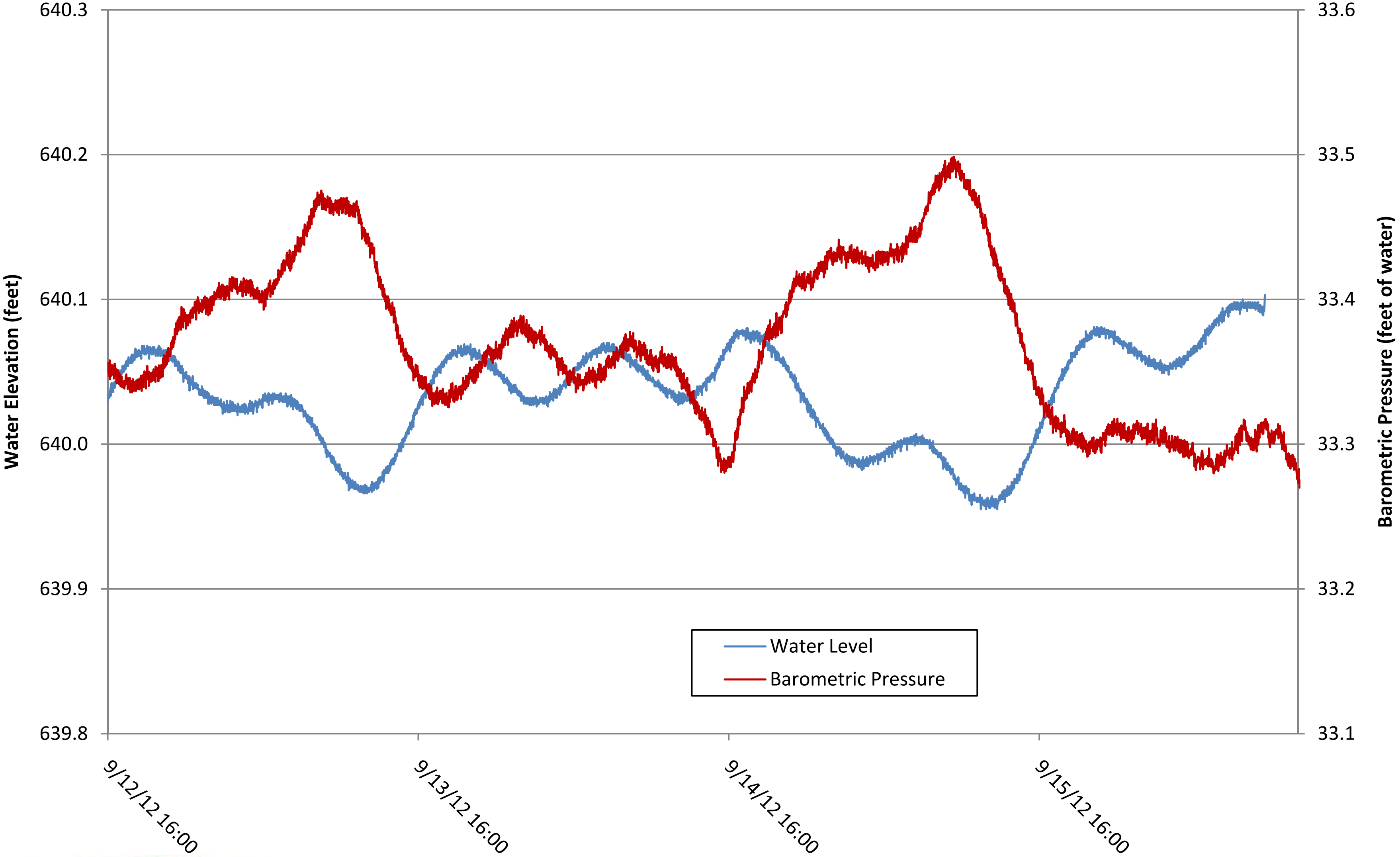
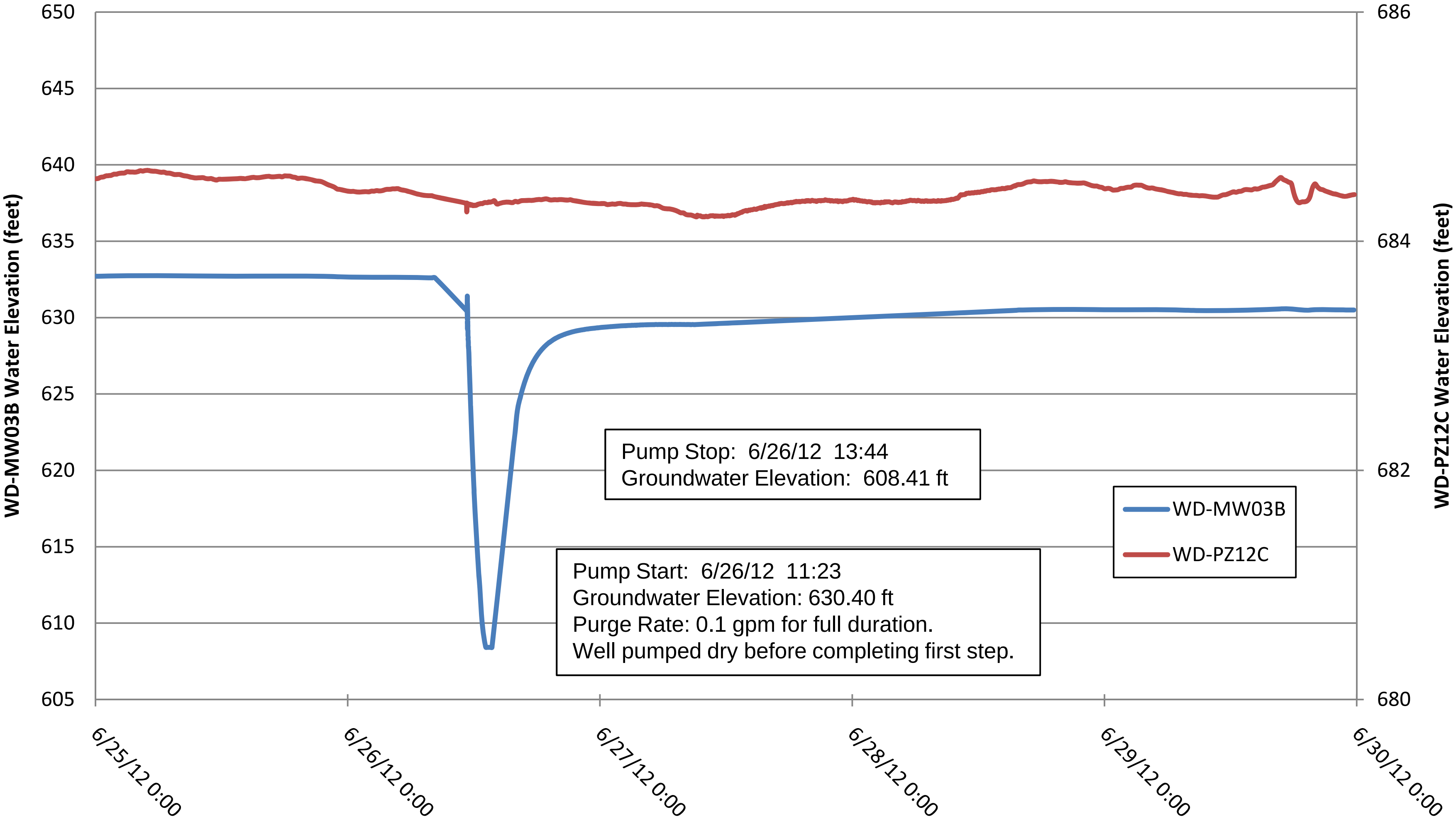


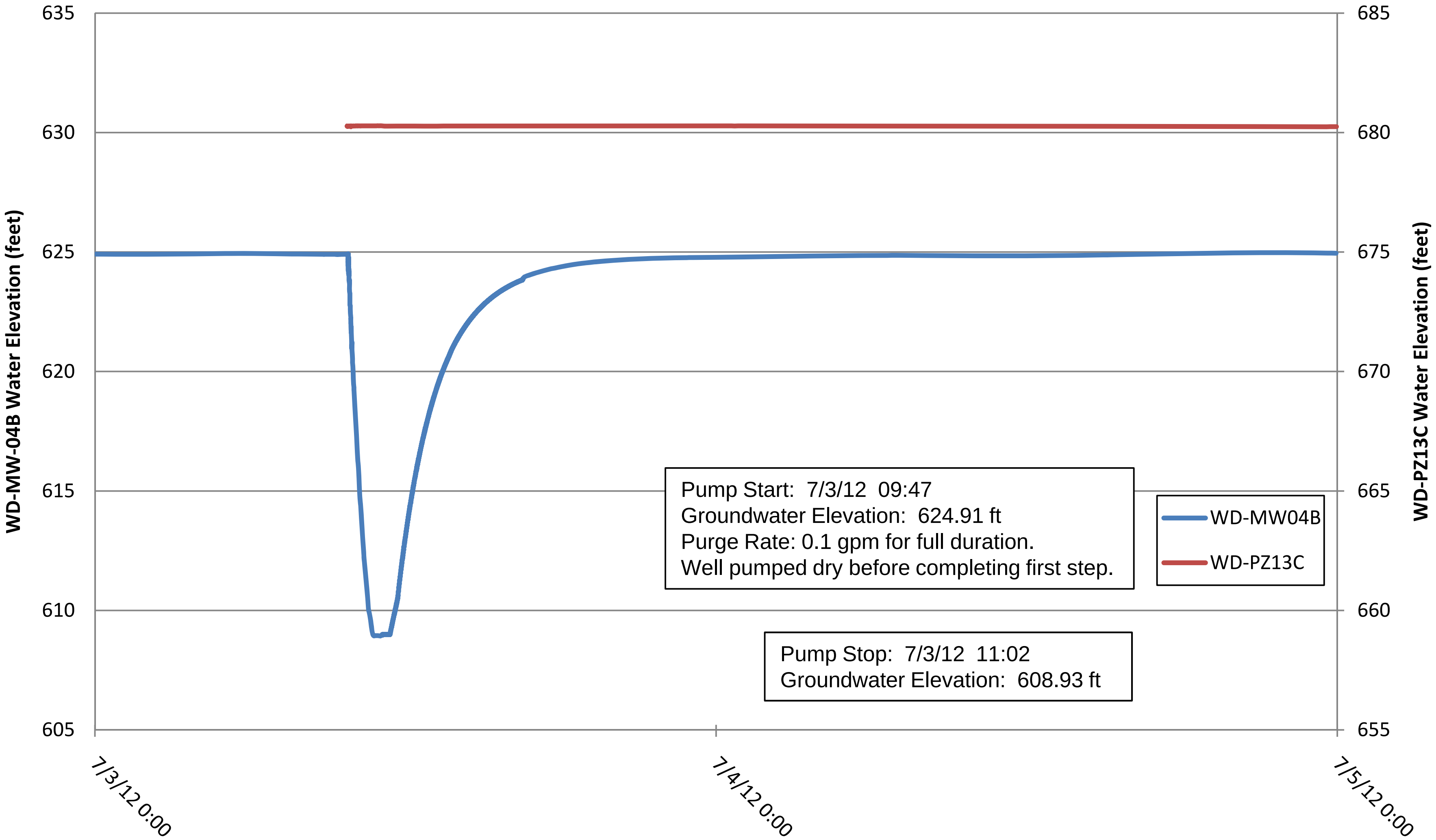
Figure 2-3 Hydraulic Communication Testing
WD-MW03B (pumped)
WD-PZ12C (monitored)



Pump Stop: 6/26/12 13:44
Groundwater Elevation: 608.41 ft

Pump Start: 6/26/12 11:23
Groundwater Elevation: 630.40 ft
Purge Rate: 0.1 gpm for full duration.
Well pumped dry before completing first step.

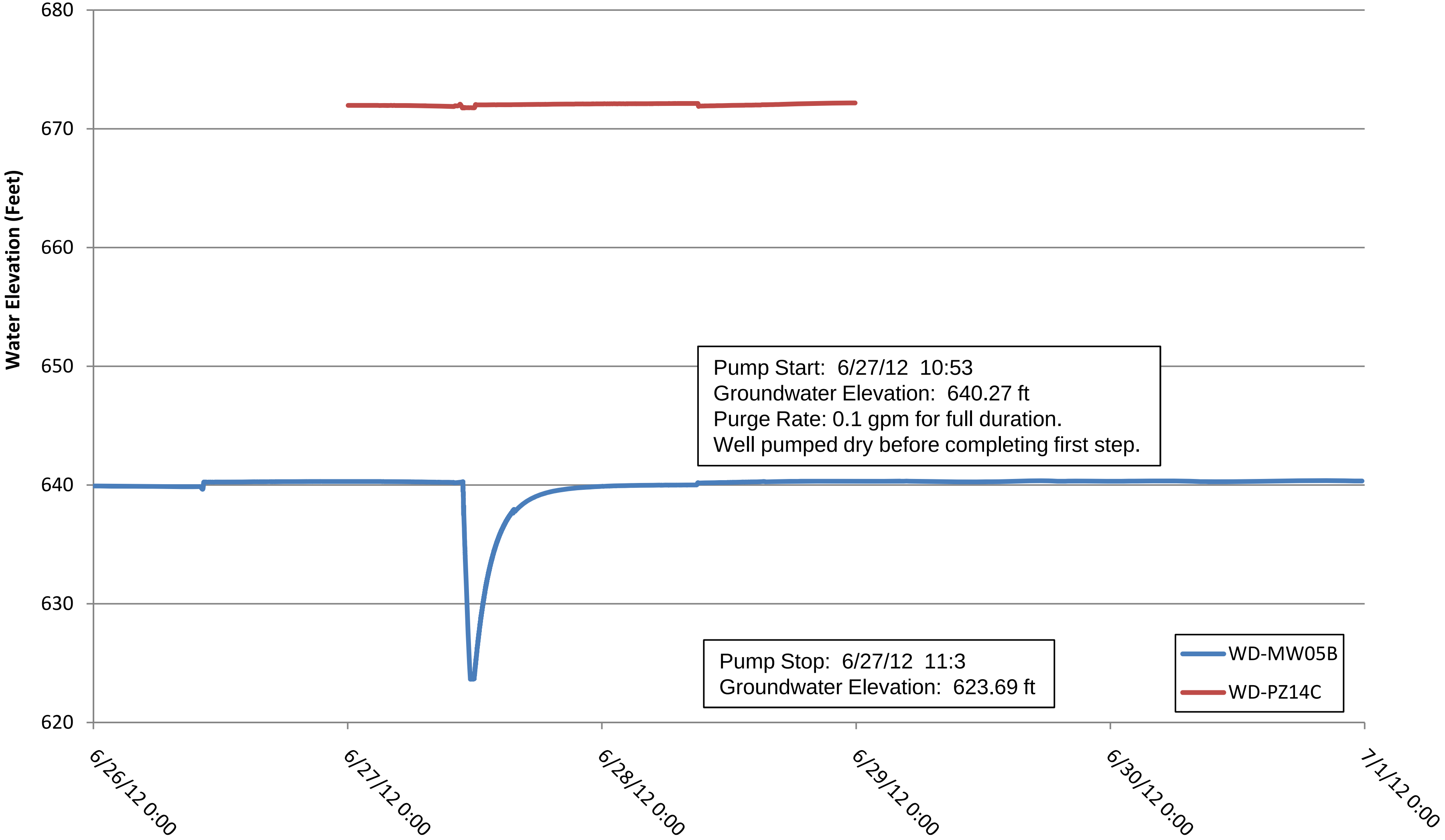
Figure 2-4 Hydraulic Communication Testing
WD-MW04B (pumped)
WD-PZ13C (monitored)



Pump Start: 7/3/12 09:47
Groundwater Elevation: 624.91 ft
Purge Rate: 0.1 gpm for full duration.
Well pumped dry before completing first step.

Pump Stop: 7/3/12 11:02
Groundwater Elevation: 608.93 ft

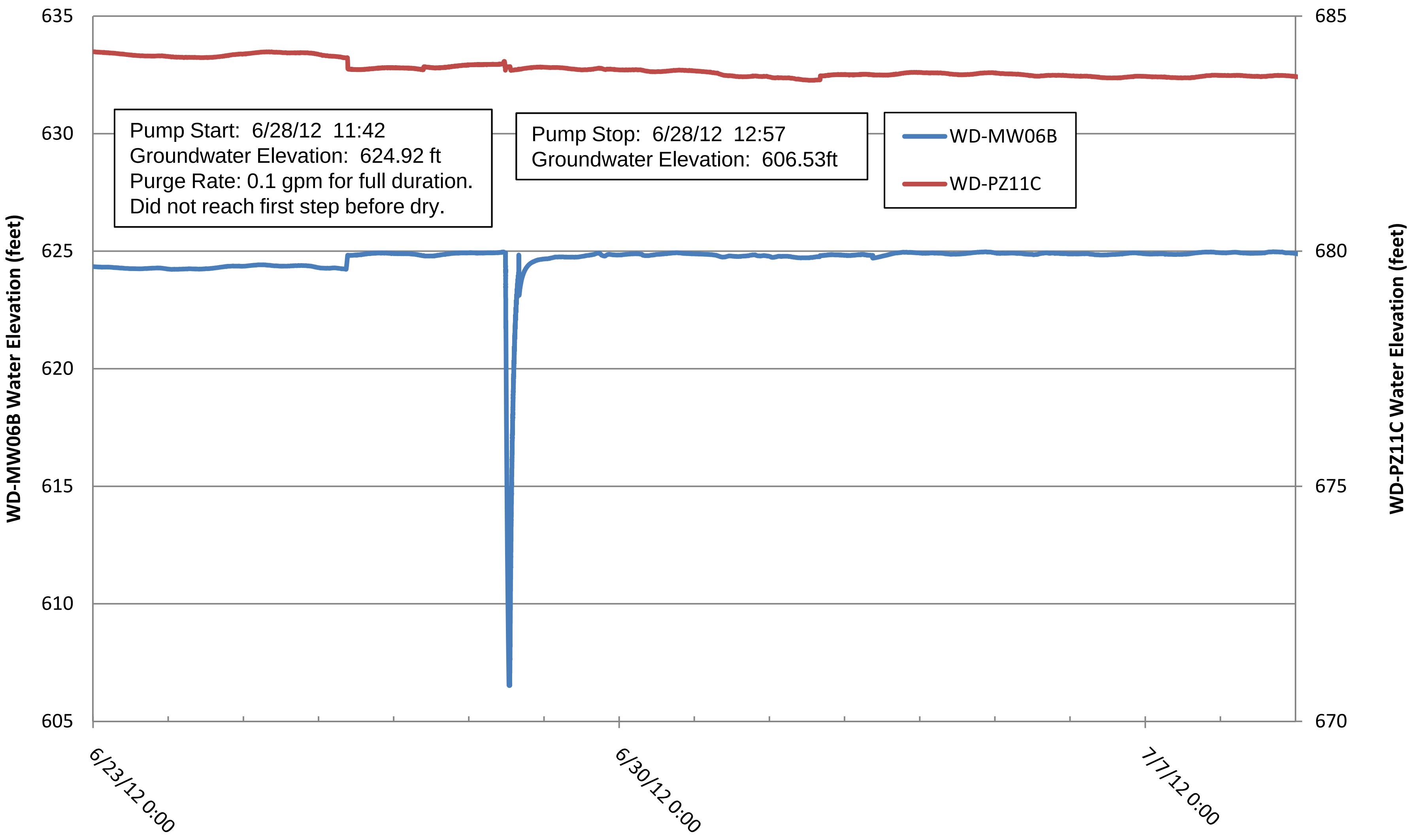
Figure 2-5 Hydraulic Communication Testing WD-MW05B (pumped) WD-PZ14C (monitored)



Pump Start: 6/27/12 10:53
Groundwater Elevation: 640.27 ft
Purge Rate: 0.1 gpm for full duration.
Well pumped dry before completing first step.

Pump Stop: 6/27/12 11:3
Groundwater Elevation: 623.69 ft

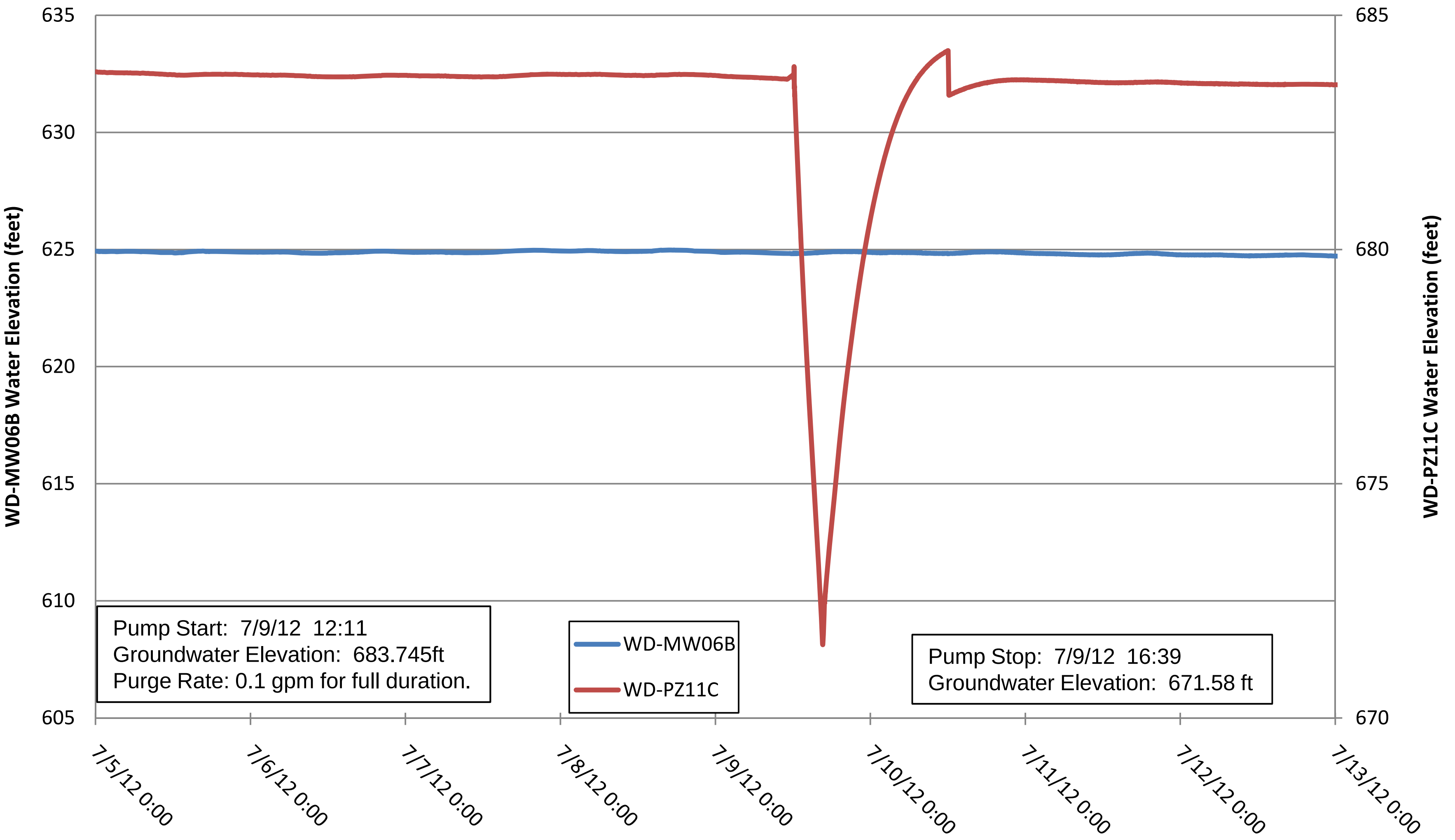
Figure 2-6 Hydraulic Communication Testing WD-MW06B (pumped) WD-PZ11C (monitored)



Pump Start: 6/28/12 11:42
Groundwater Elevation: 624.92 ft
Purge Rate: 0.1 gpm for full duration.
Did not reach first step before dry.

Pump Stop: 6/28/12 12:57
Groundwater Elevation: 606.53ft

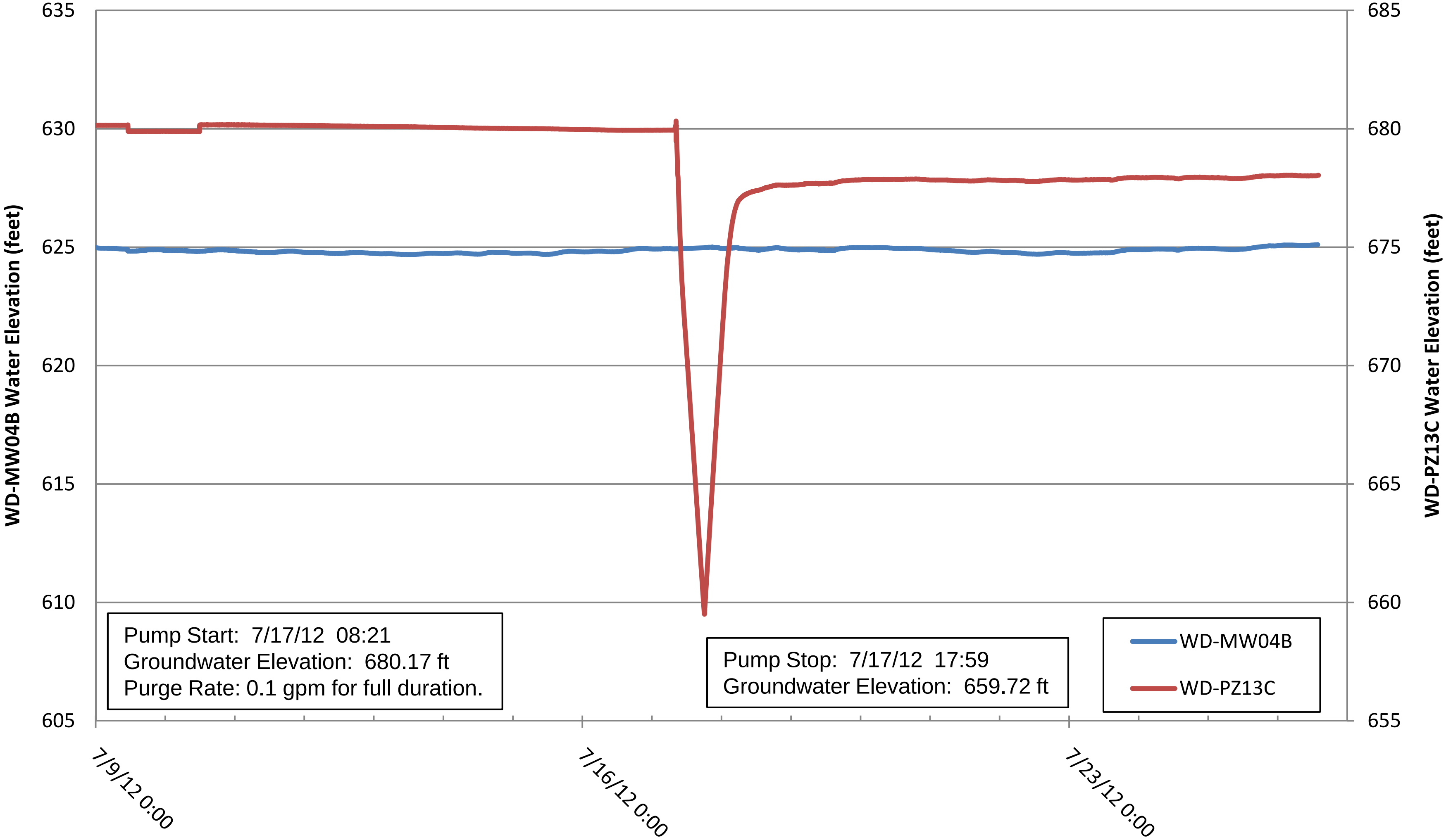
Figure 2-7 Yield Testing of Open Borehole WD-PZ11C (pumped) WD-MW06B (monitored)



Pump Start: 7/9/12 12:11
Groundwater Elevation: 683.745ft
Purge Rate: 0.1 gpm for full duration.

Pump Stop: 7/9/12 16:39
Groundwater Elevation: 671.58 ft

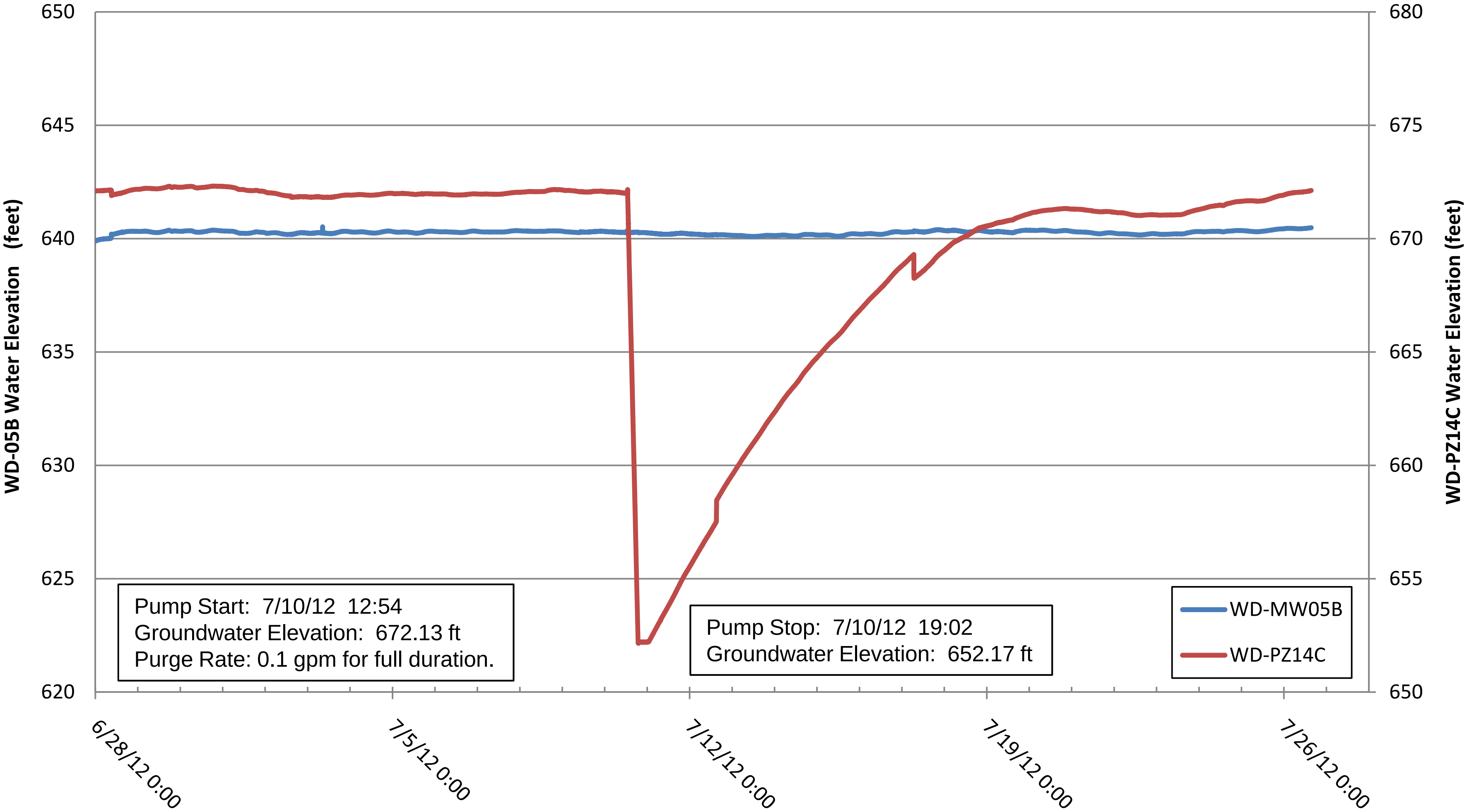
Figure 2-8 Yield Testing of Open Borehole WD-PZ13C (pumped) WD-MW04B (monitored)



Pump Start: 7/17/12 08:21
Groundwater Elevation: 680.17 ft
Purge Rate: 0.1 gpm for full duration.

Pump Stop: 7/17/12 17:59
Groundwater Elevation: 659.72 ft

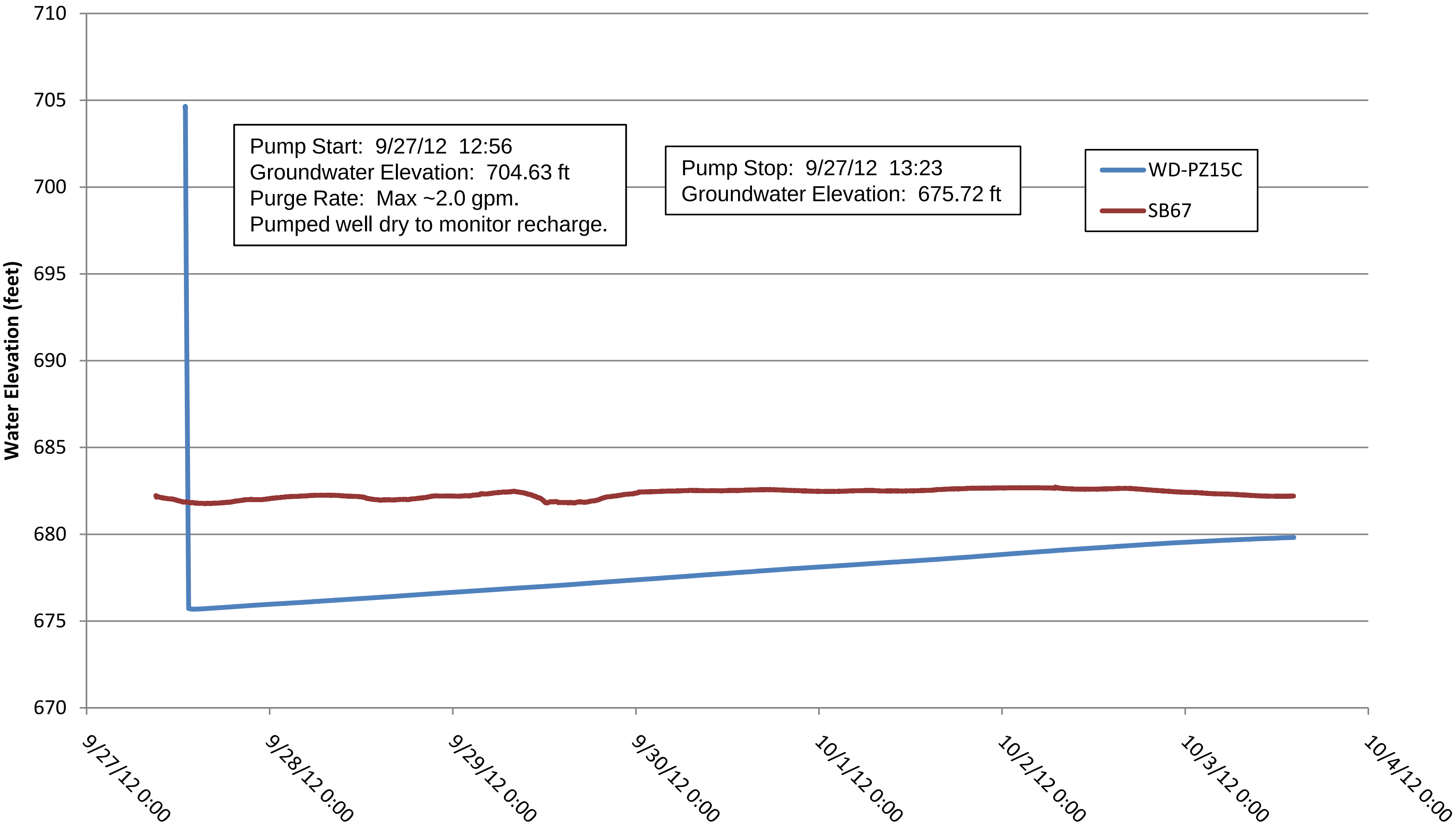
Figure 2-9 Yield Testing of Open Borehole WD-PZ14C (pumped) WD-MW05B (monitored)



Pump Start: 7/10/12 12:54
Groundwater Elevation: 672.13 ft
Purge Rate: 0.1 gpm for full duration.

Pump Stop: 7/10/12 19:02
Groundwater Elevation: 652.17 ft

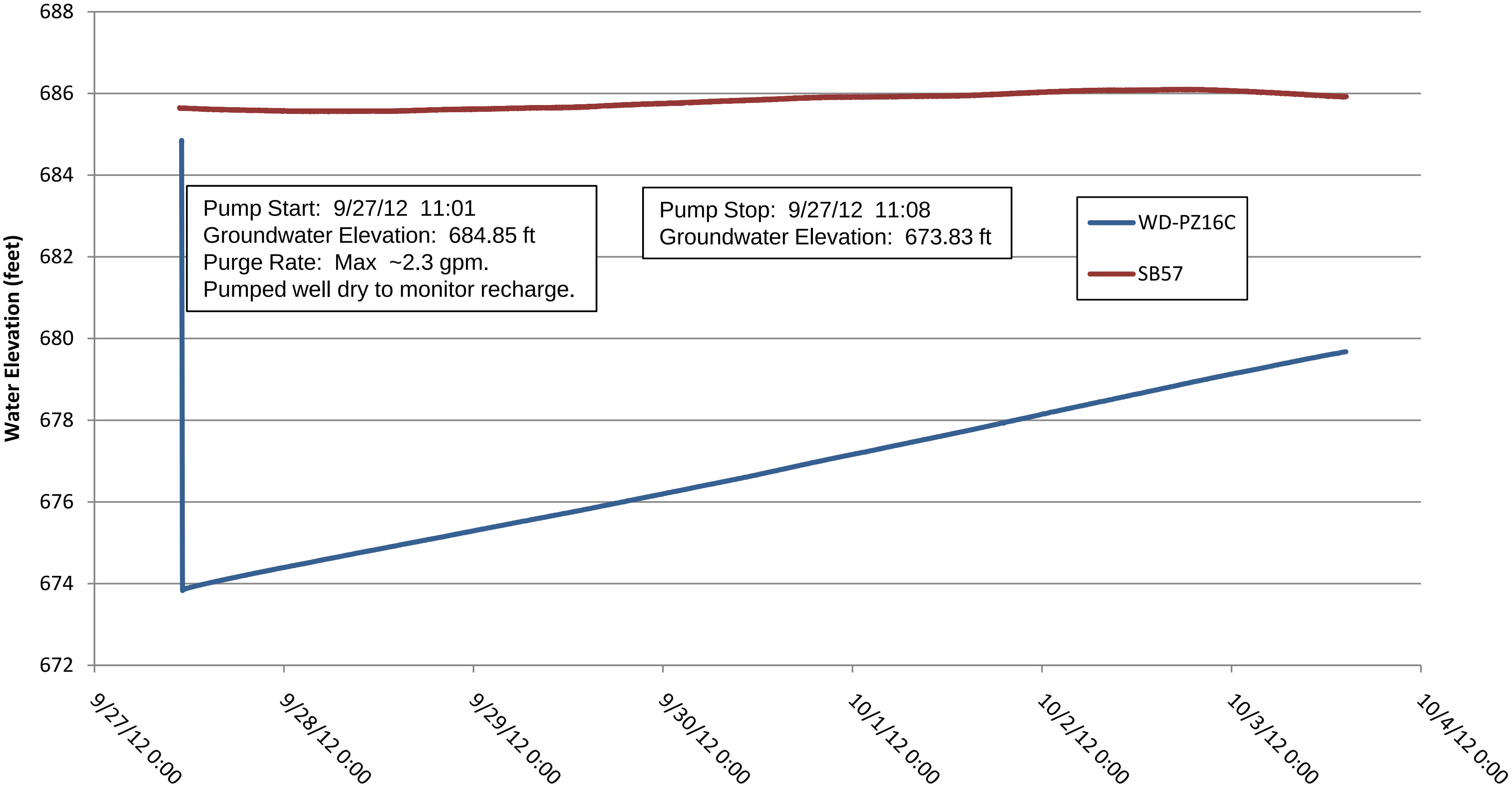
Figure 2-10 Yield Testing of Open Borehole WD-PZ15C (pumped) SB67 (monitored)



Pump Start: 9/27/12 12:56
Groundwater Elevation: 704.63 ft
Purge Rate: Max ~2.0 gpm.
Pumped well dry to monitor recharge.

Pump Stop: 9/27/12 13:23
Groundwater Elevation: 675.72 ft

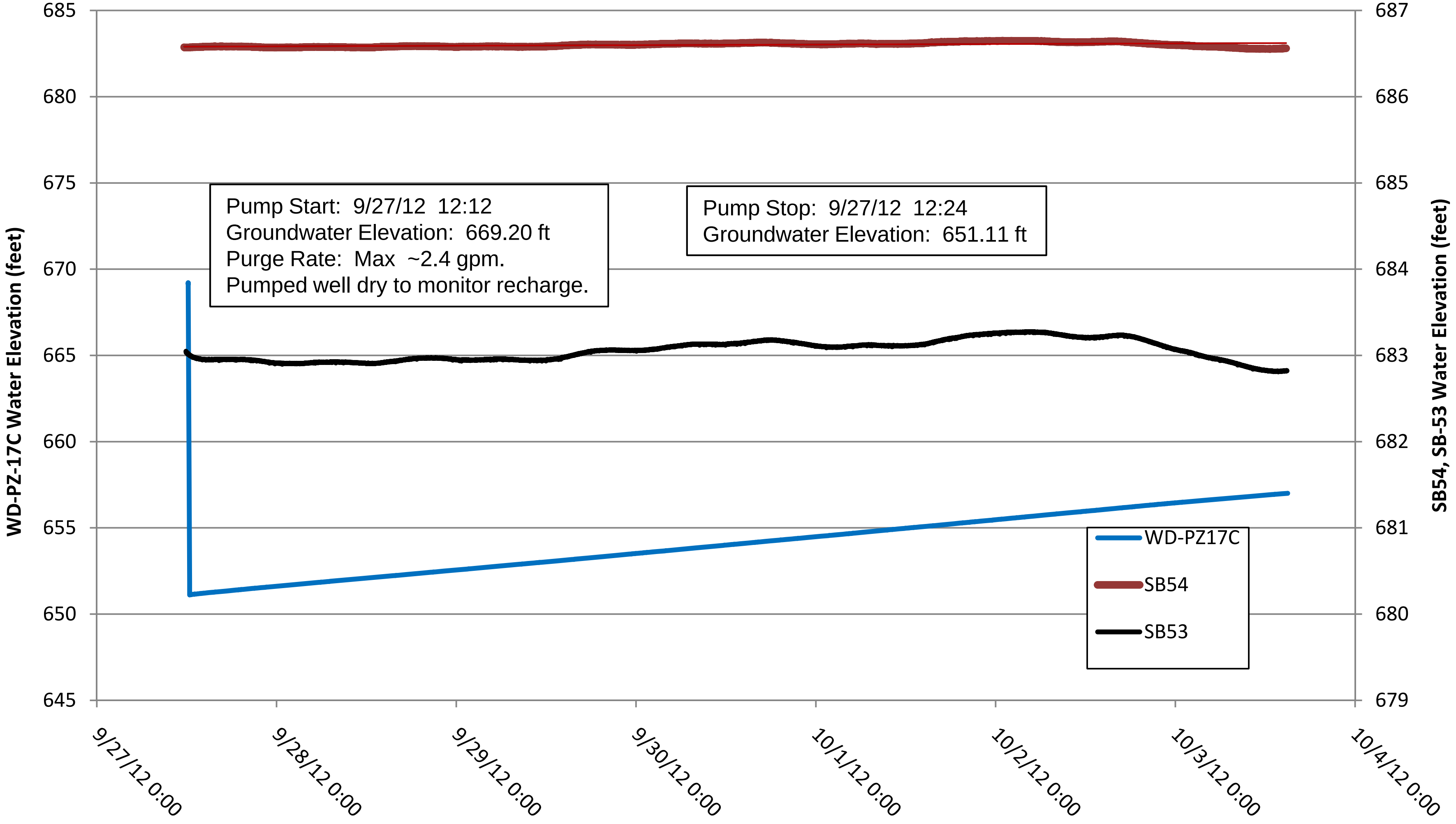
Figure 2-11 Yield Testing of Open Borehole WD-PZ16C (pumped) SB57 (monitored)



Pump Start: 9/27/12 11:01
Groundwater Elevation: 684.85 ft
Purge Rate: Max ~2.3 gpm.
Pumped well dry to monitor recharge.

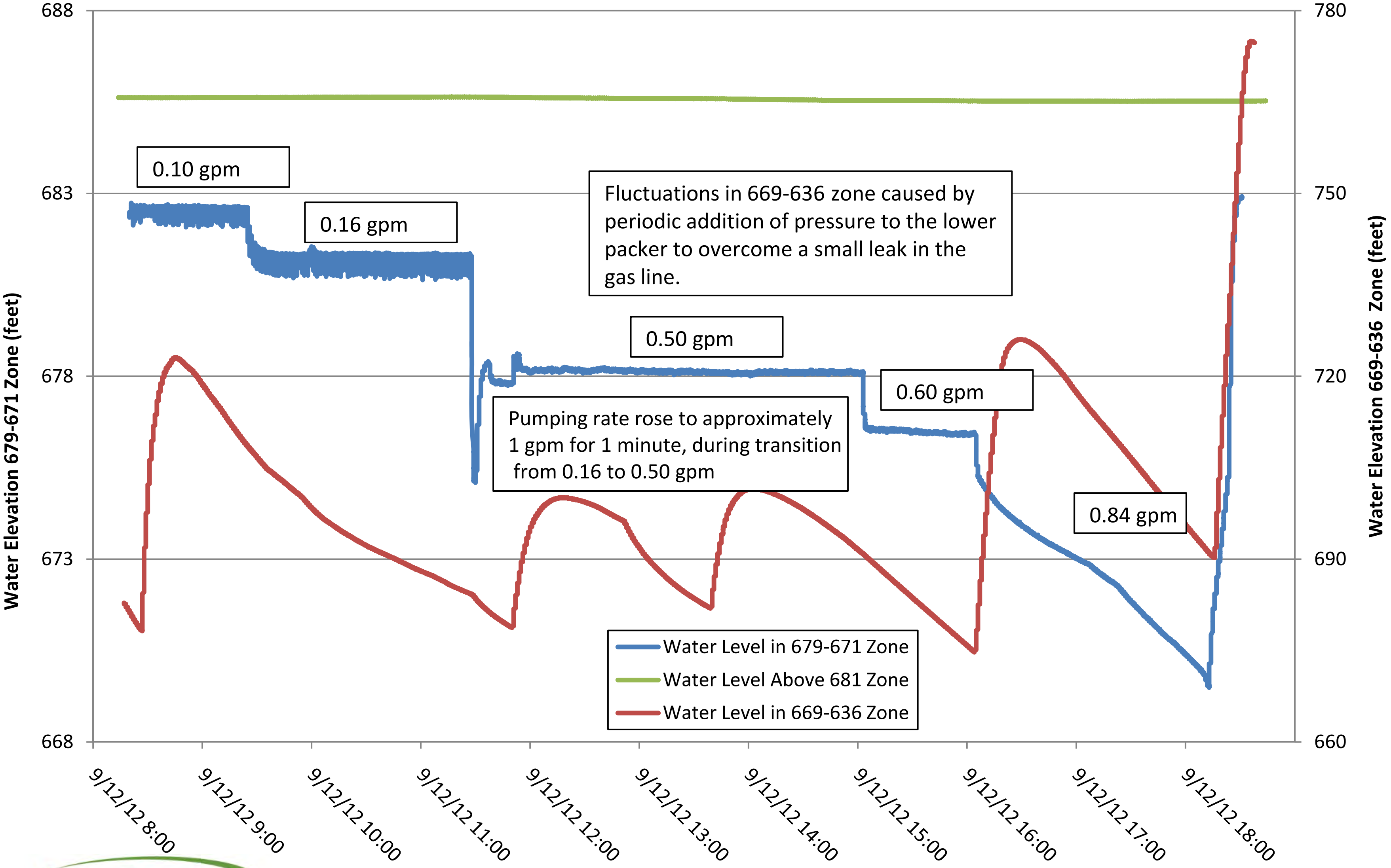
Pump Stop: 9/27/12 11:08
Groundwater Elevation: 673.83 ft

Figure 2-12 Yield Testing of Open Borehole WD-PZ17C (pumped) SB53, SB54 (monitored)


Pump Start: 9/27/12 12:12
Groundwater Elevation: 669.20 ft
Purge Rate: Max ~2.4 gpm.
Pumped well dry to monitor recharge.

Pump Stop: 9/27/12 12:24
Groundwater Elevation: 651.11 ft

Figure 2-13 Yield Testing Isolated Zone WD-PZ09C (679-671 feet)



0.10 gpm

0.16 gpm

Fluctuations in 669-636 zone caused by periodic addition of pressure to the lower packer to overcome a small leak in the gas line.

0.50 gpm

Pumping rate rose to approximately 1 gpm for 1 minute, during transition from 0.16 to 0.50 gpm

0.60 gpm

0.84 gpm

Figure 2-14 Yield Testing Isolated Zone WD-PZ09C (671-636 feet)

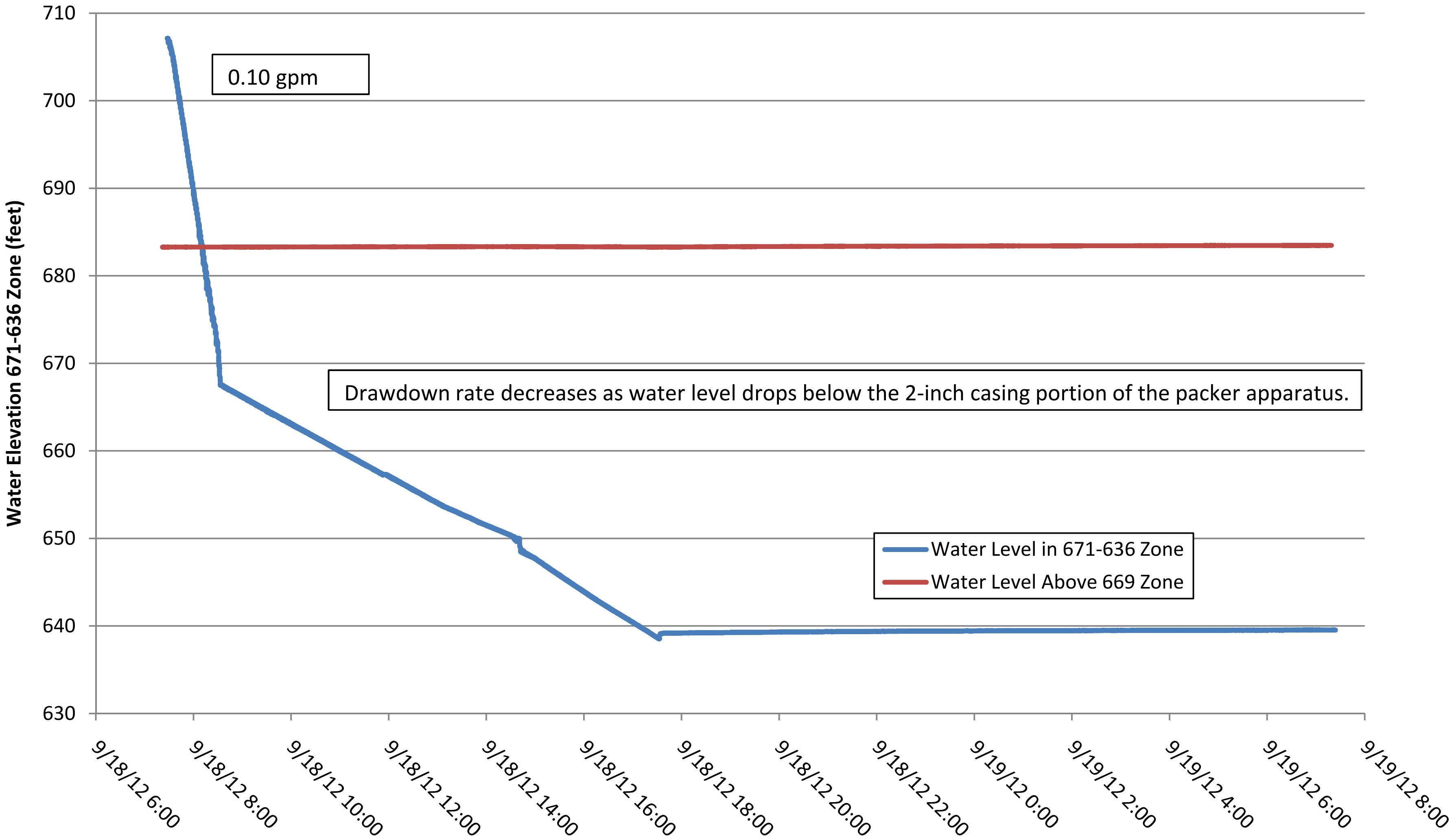
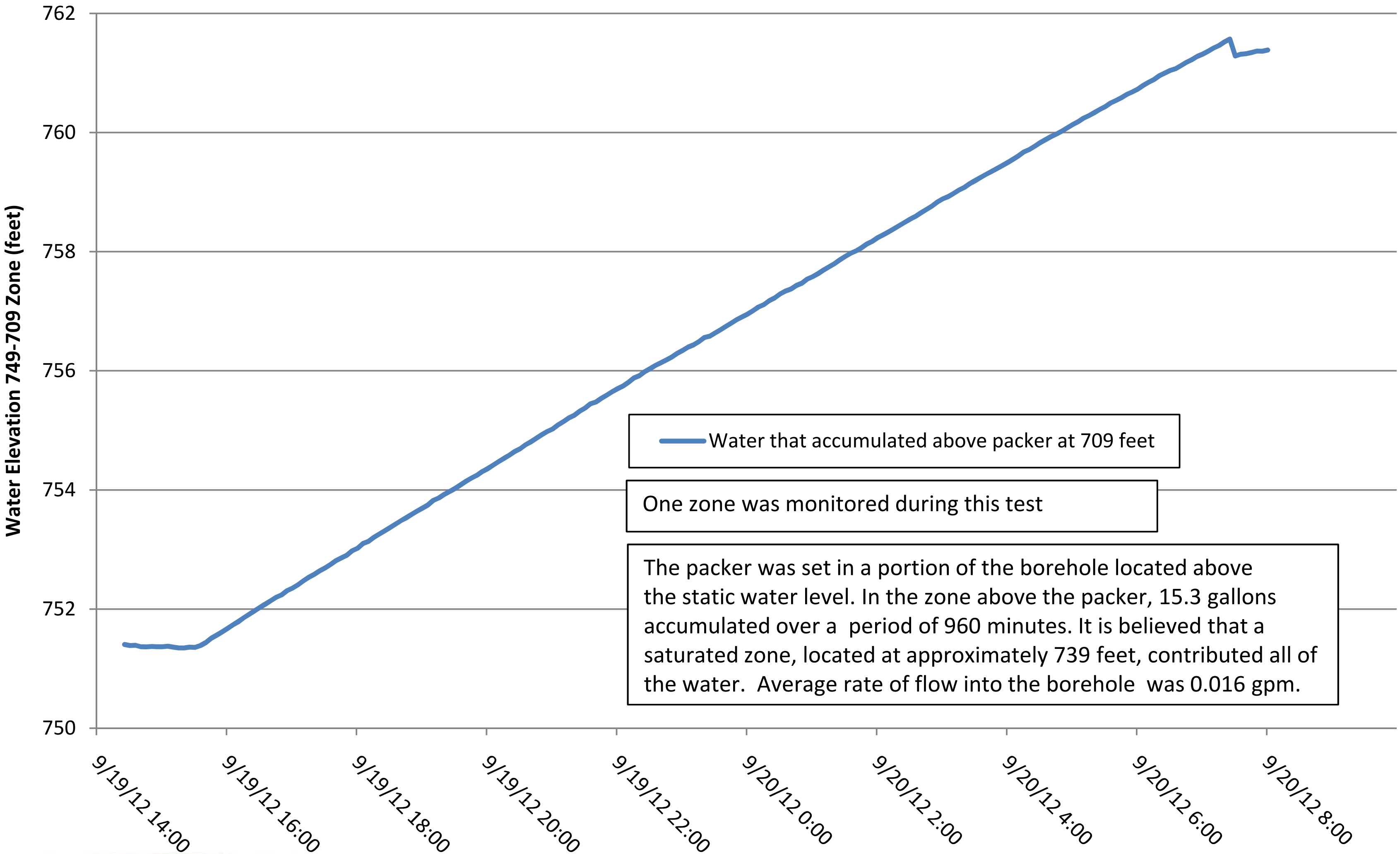


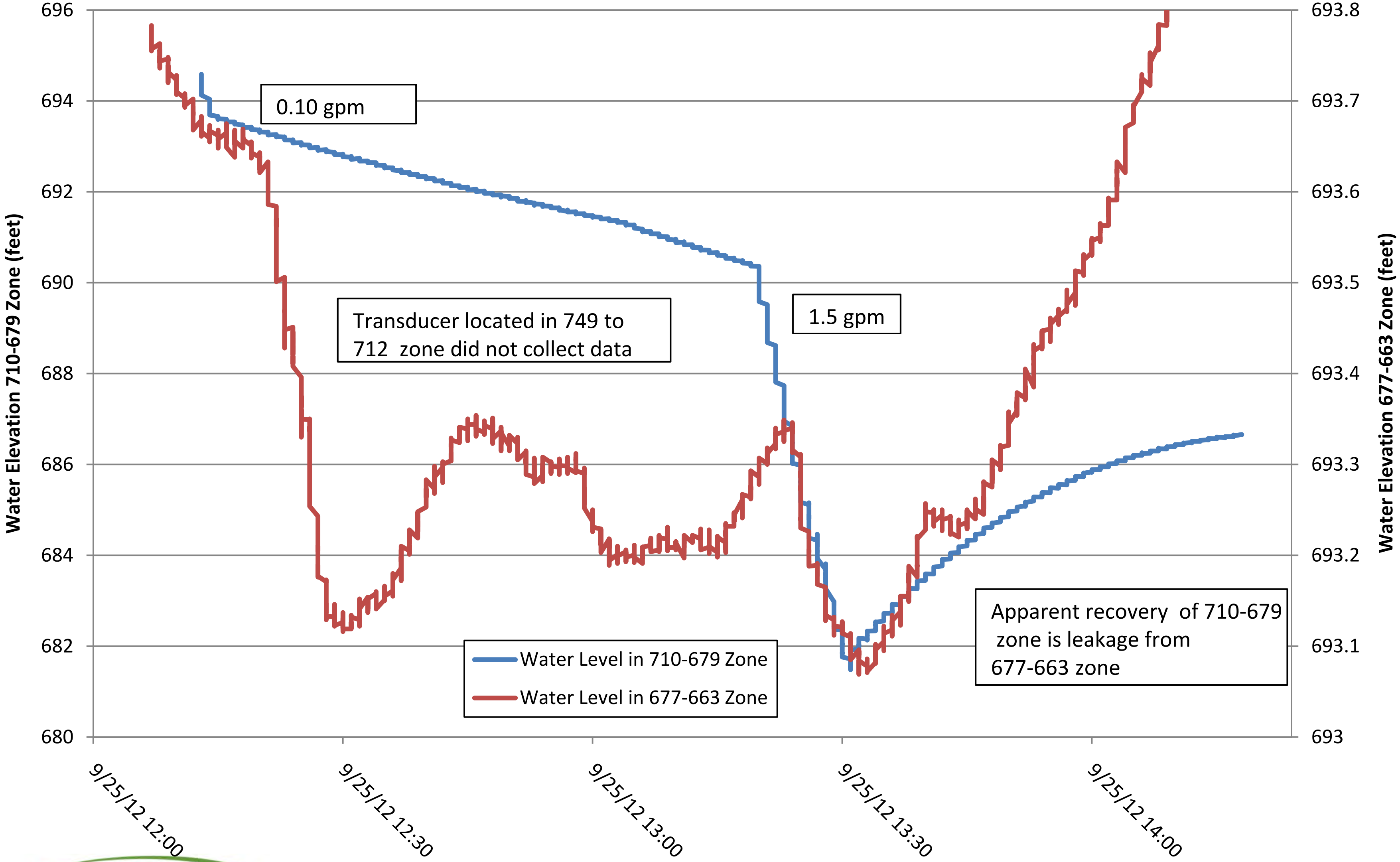
Figure 2-15 Yield Testing Isolated Zone WD-PZ12C (749-709 feet)



One zone was monitored during this test

The packer was set in a portion of the borehole located above the static water level. In the zone above the packer, 15.3 gallons accumulated over a period of 960 minutes. It is believed that a saturated zone, located at approximately 739 feet, contributed all of the water. Average rate of flow into the borehole was 0.016 gpm.

Figure 2-16 Yield Testing Isolated Zone WD-PZ12C (710-679 feet) Sandstone (675-673 feet)



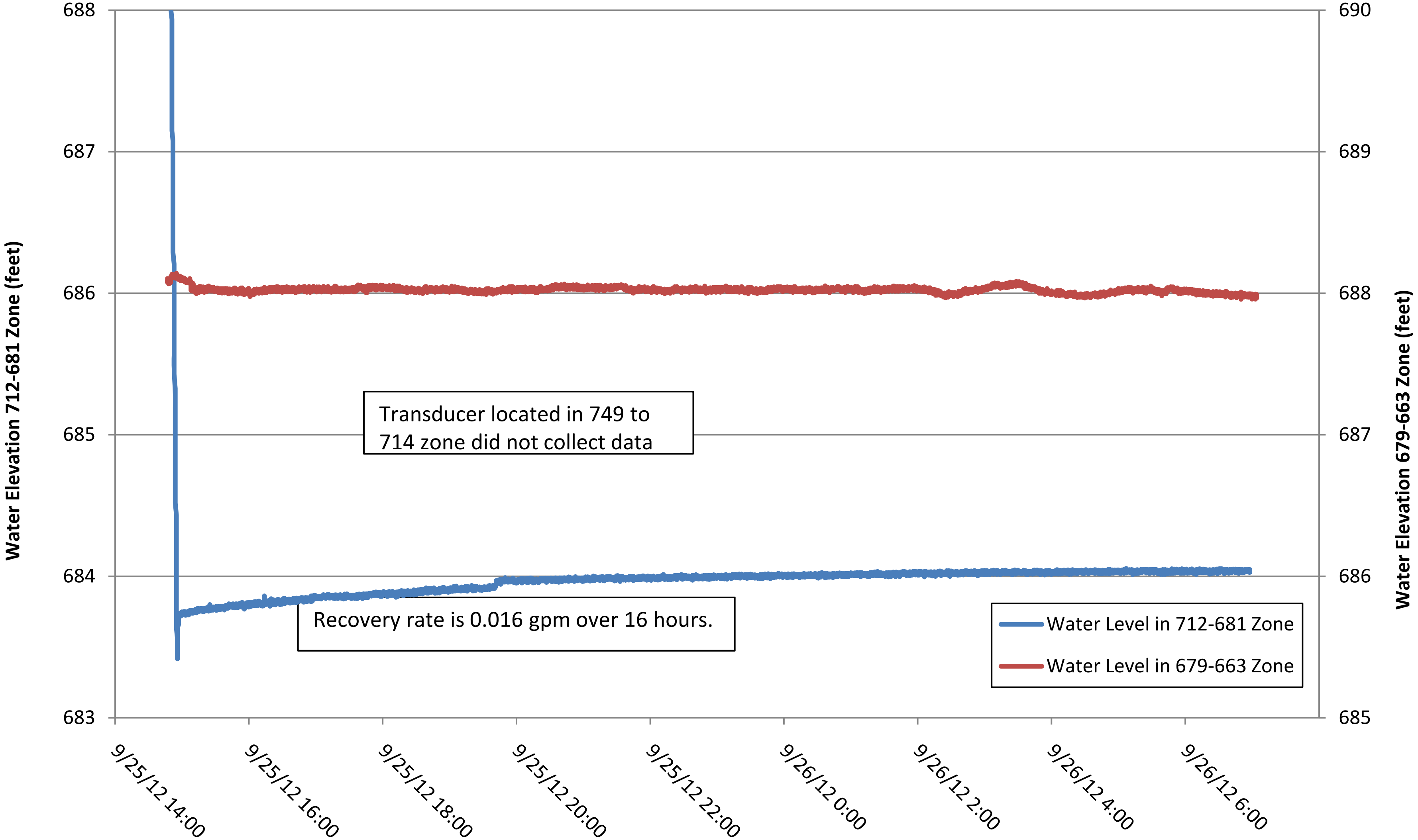
0.10 gpm

Transducer located in 749 to 712 zone did not collect data

1.5 gpm

Apparent recovery of 710-679 zone is leakage from 677-663 zone

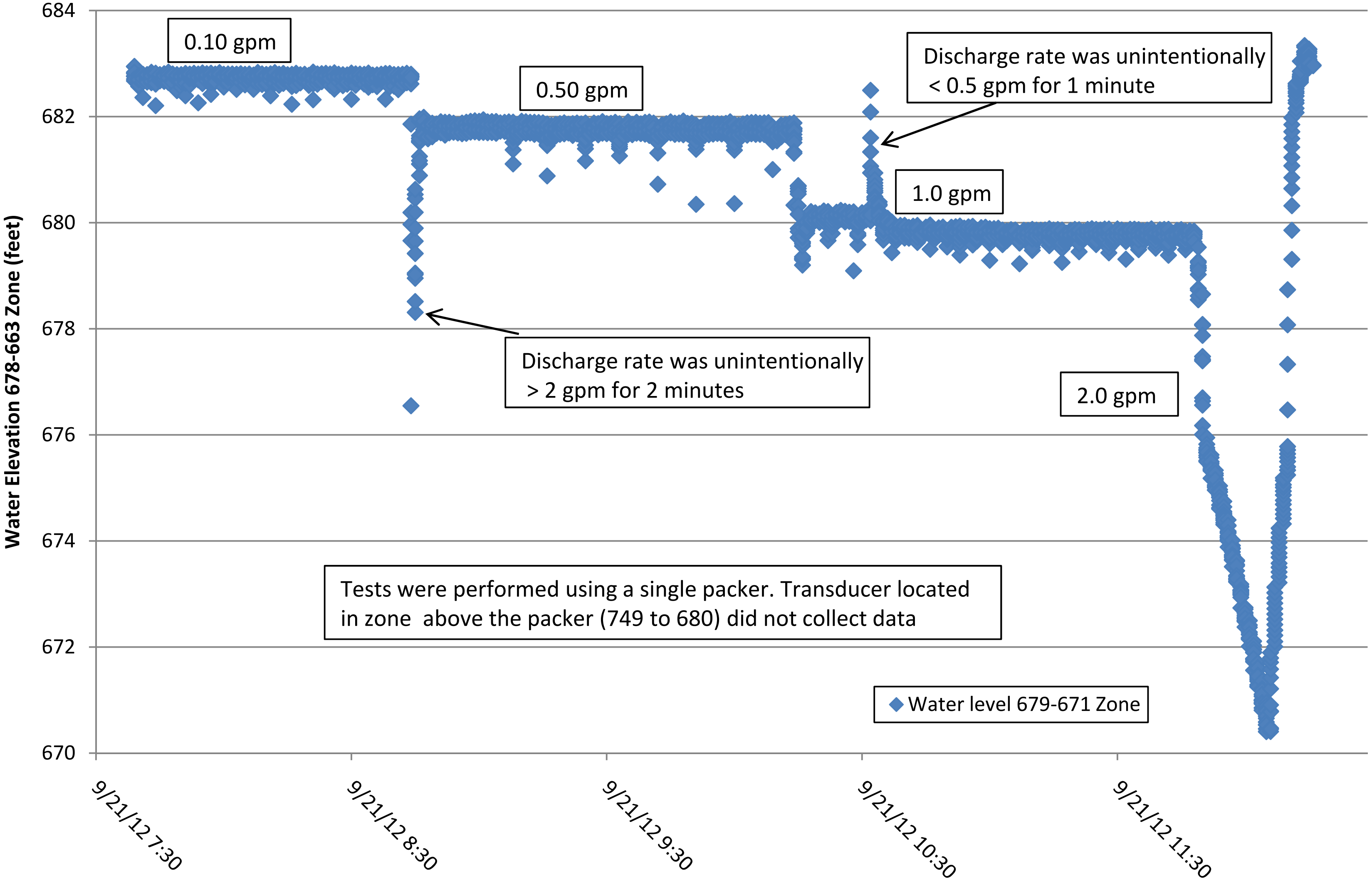
Figure 2-17 Yield Testing Isolated Zone WD-PZ12C (712-681 feet) Sandstone (675-673 feet)



Transducer located in 749 to 714 zone did not collect data

Recovery rate is 0.016 gpm over 16 hours.

Figure 2-18 Yield Testing Isolated Zone WD-PZ12C (678-663 feet)

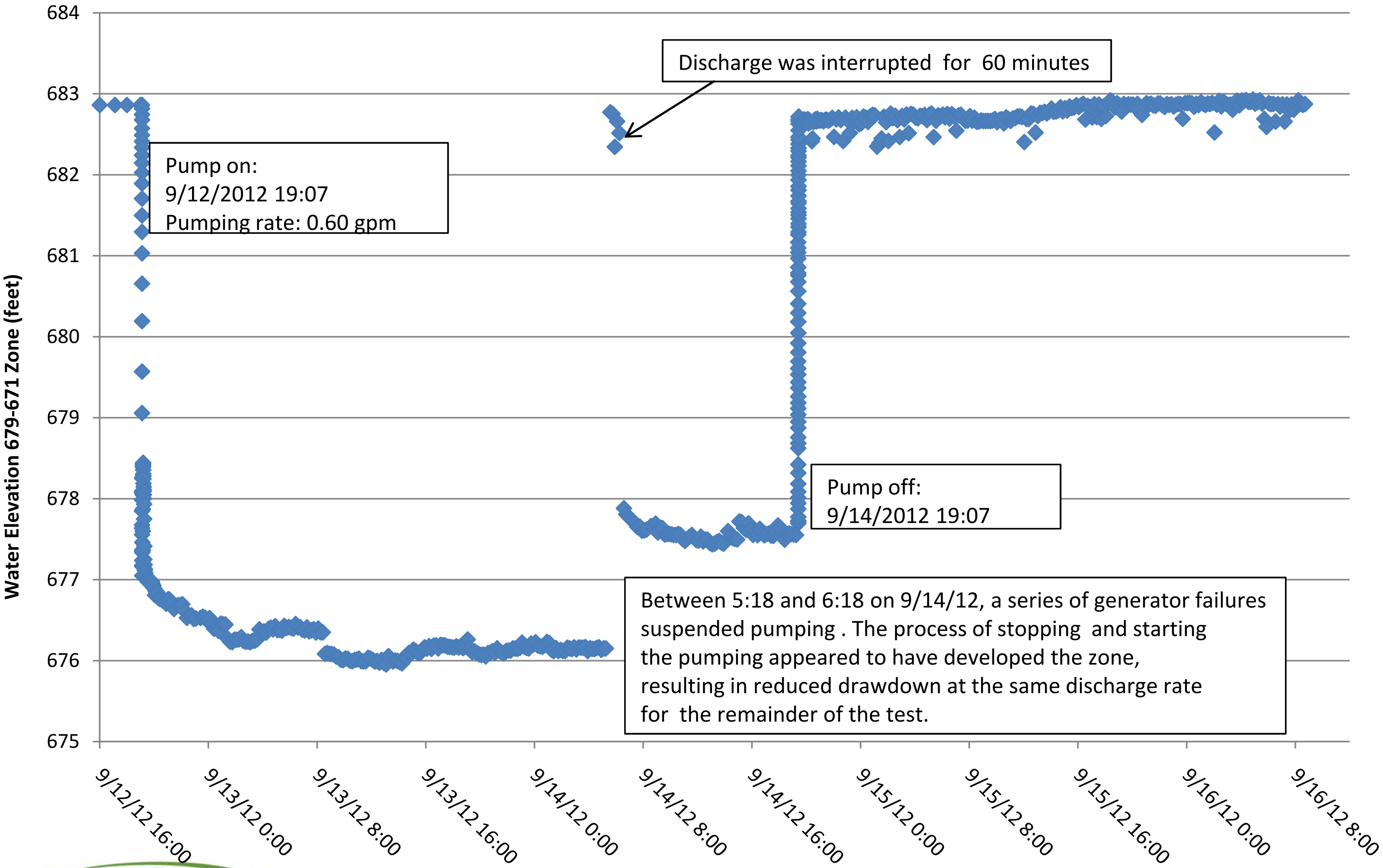


Discharge rate was unintentionally < 0.5 gpm for 1 minute

Discharge rate was unintentionally > 2 gpm for 2 minutes

Tests were performed using a single packer. Transducer located in zone above the packer (749 to 680) did not collect data

Figure 3-1 WD-PZ09C
Constant Rate Test (679-671 feet)



Discharge was interrupted for 60 minutes

Pump on:
9/12/2012 19:07
Pumping rate: 0.60 gpm

Pump off:
9/14/2012 19:07

Between 5:18 and 6:18 on 9/14/12, a series of generator failures suspended pumping . The process of stopping and starting the pumping appeared to have developed the zone, resulting in reduced drawdown at the same discharge rate for the remainder of the test.

Figure 3-2 WD-PZ11C Response to WD-PZ09C (CRT 679-671 feet)

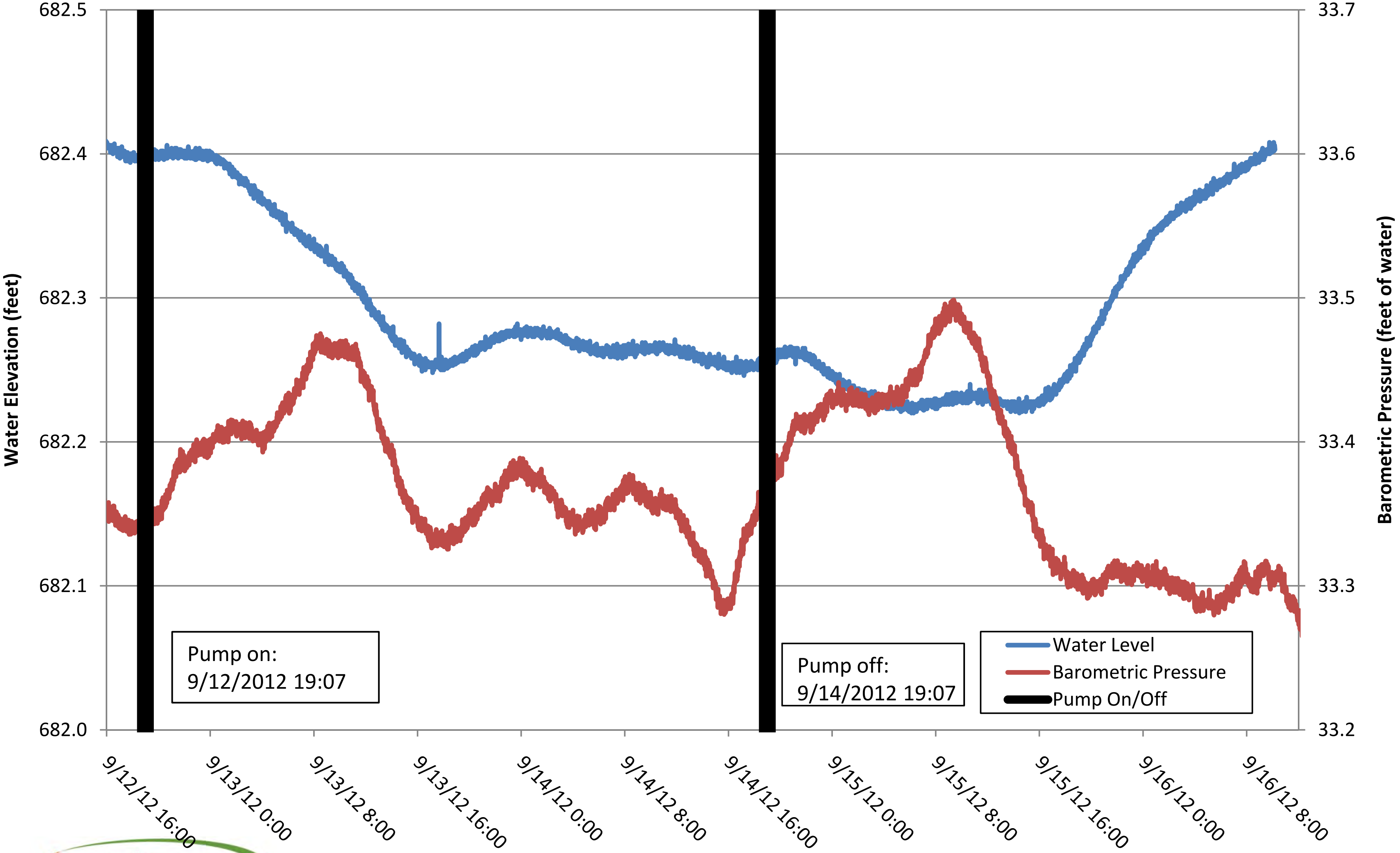
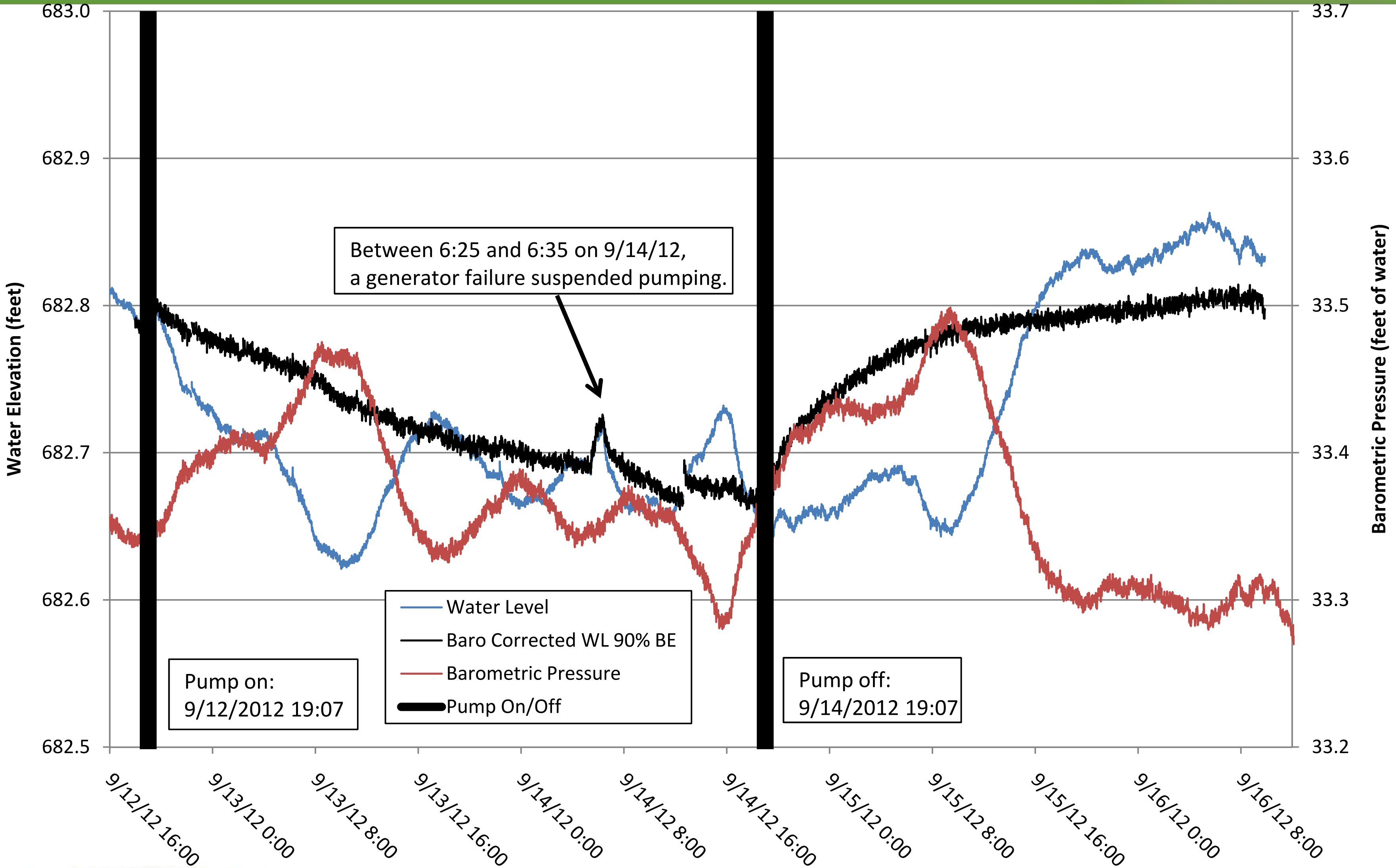


Figure 3-3 WD-PZ12C Response to WD-PZ09C (CRT 679-671 feet)



Between 6:25 and 6:35 on 9/14/12, a generator failure suspended pumping.

Pump on:
9/12/2012 19:07

Pump off:
9/14/2012 19:07

Figure 3-4 WD-PZ13C Response to WD-PZ09C (CRT 679-671 feet)

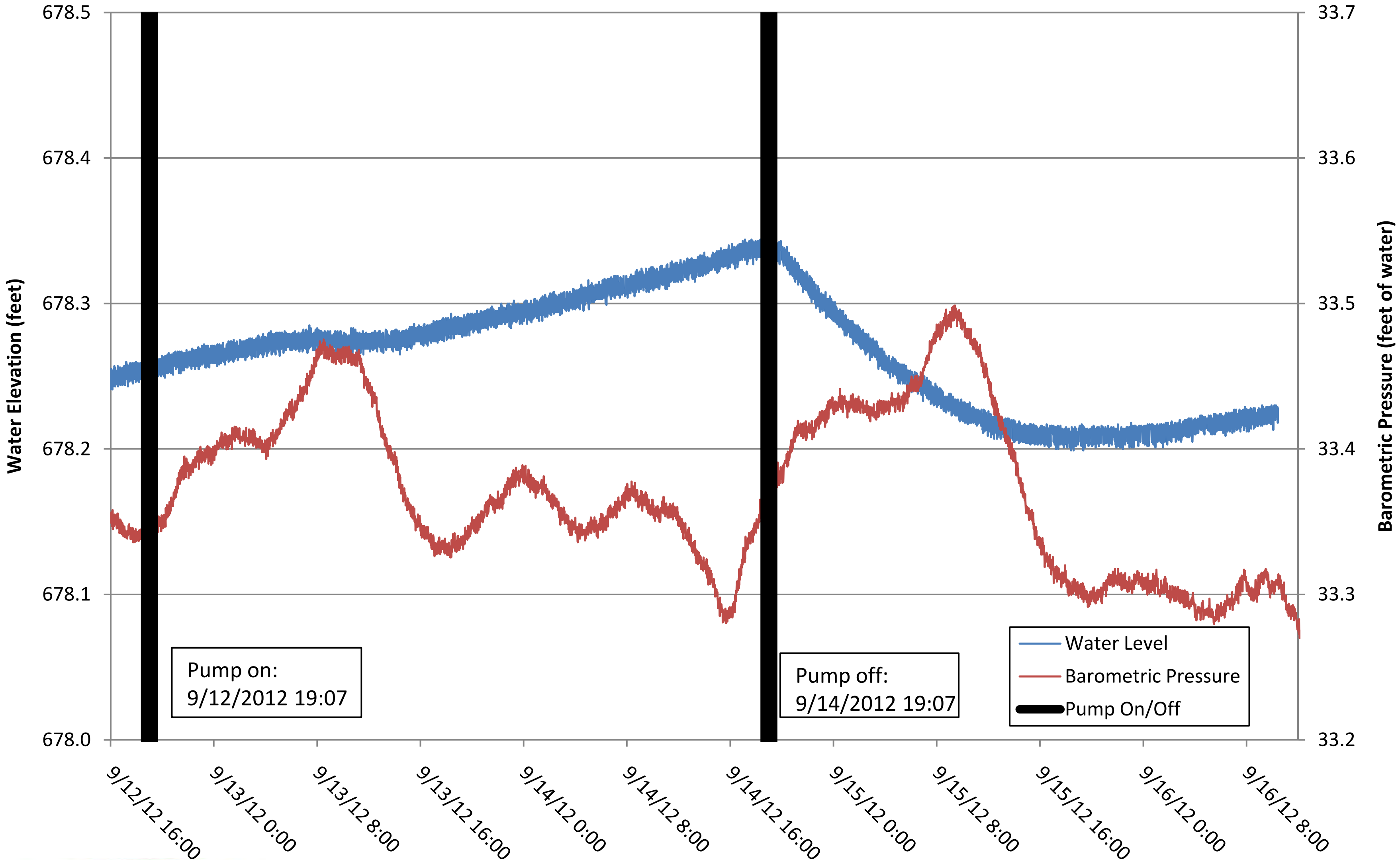


Figure 3-5 WD-PZ14C Response to WD-PZ09C (CRT 679-671 feet)

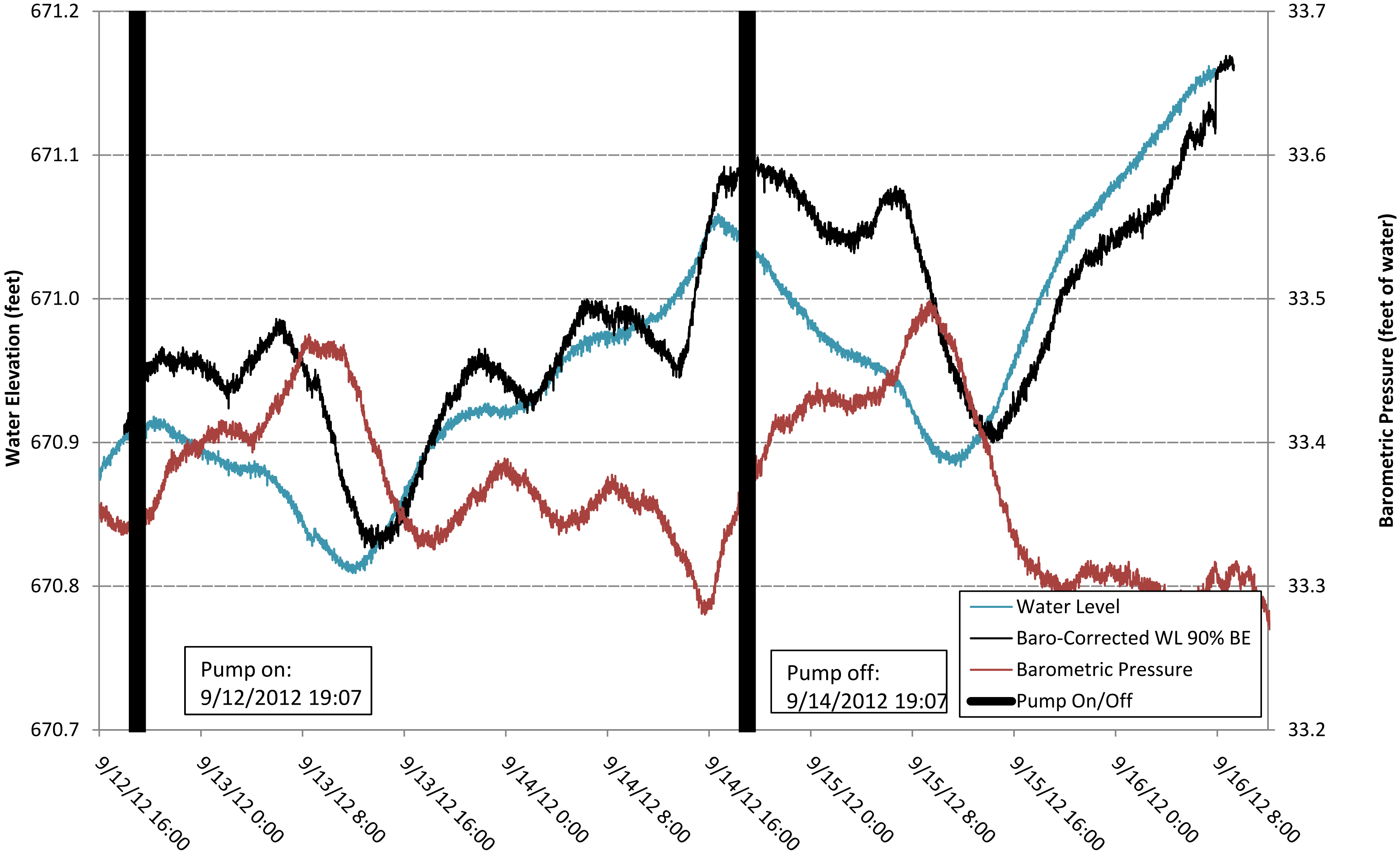


Figure 3-6 WD-MW03B Response to WD-PZ09C (CRT 679-671 feet)

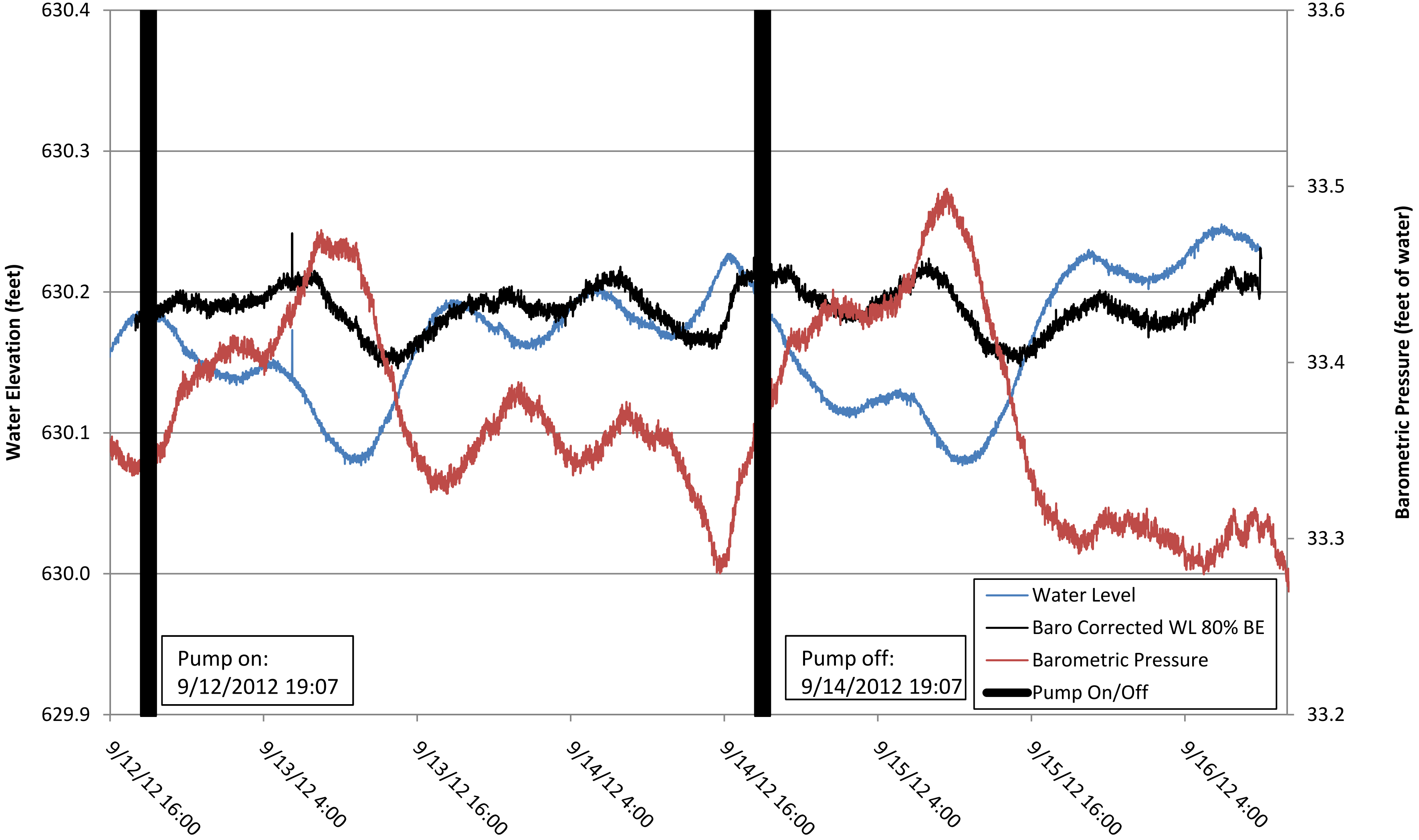


Figure 3-7 WD-MW04B Response to WD-PZ09C (CRT 679-671 feet)

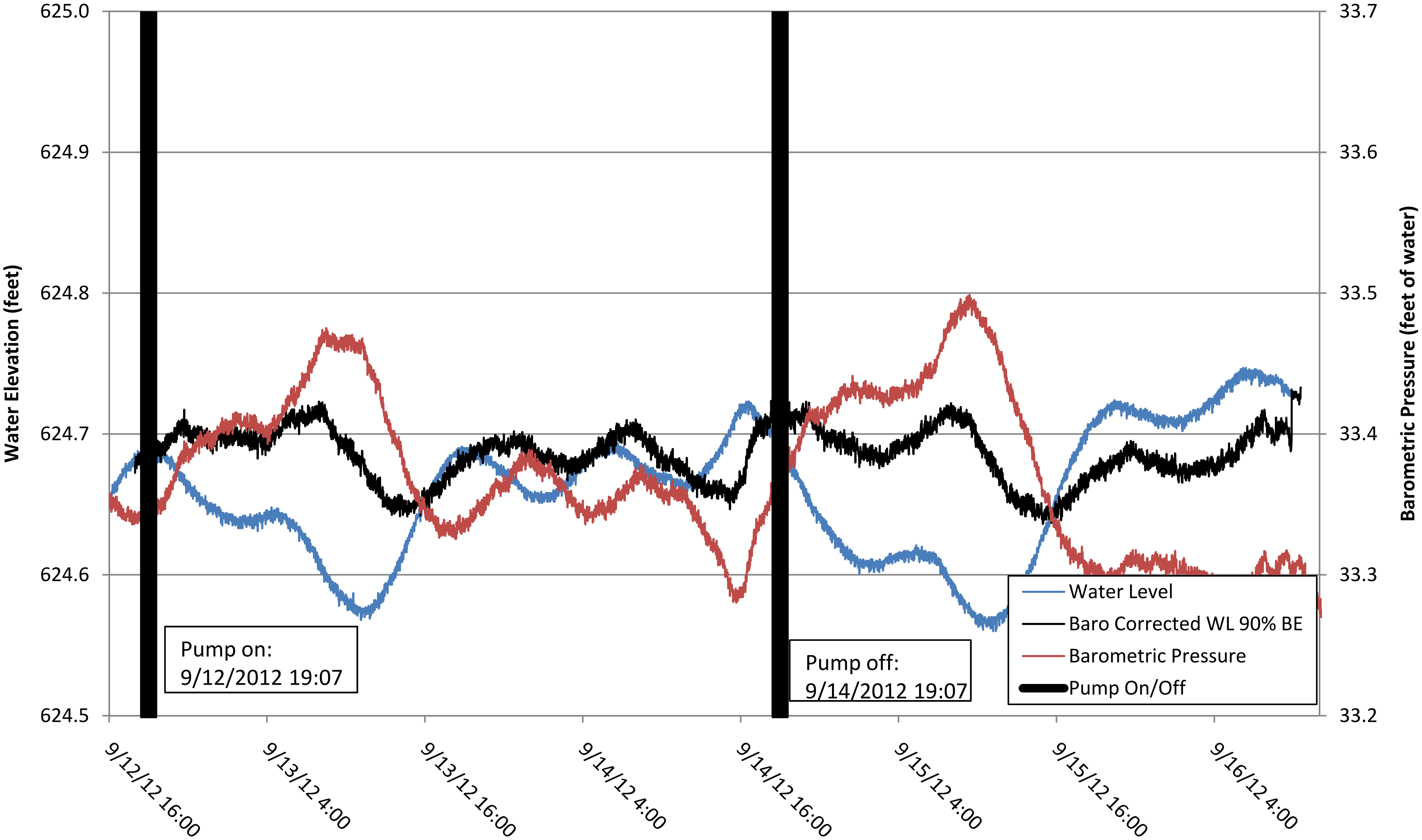


Figure 3-8 WD-MW05B Response to WD-PZ09C (CRT 679-671 feet)

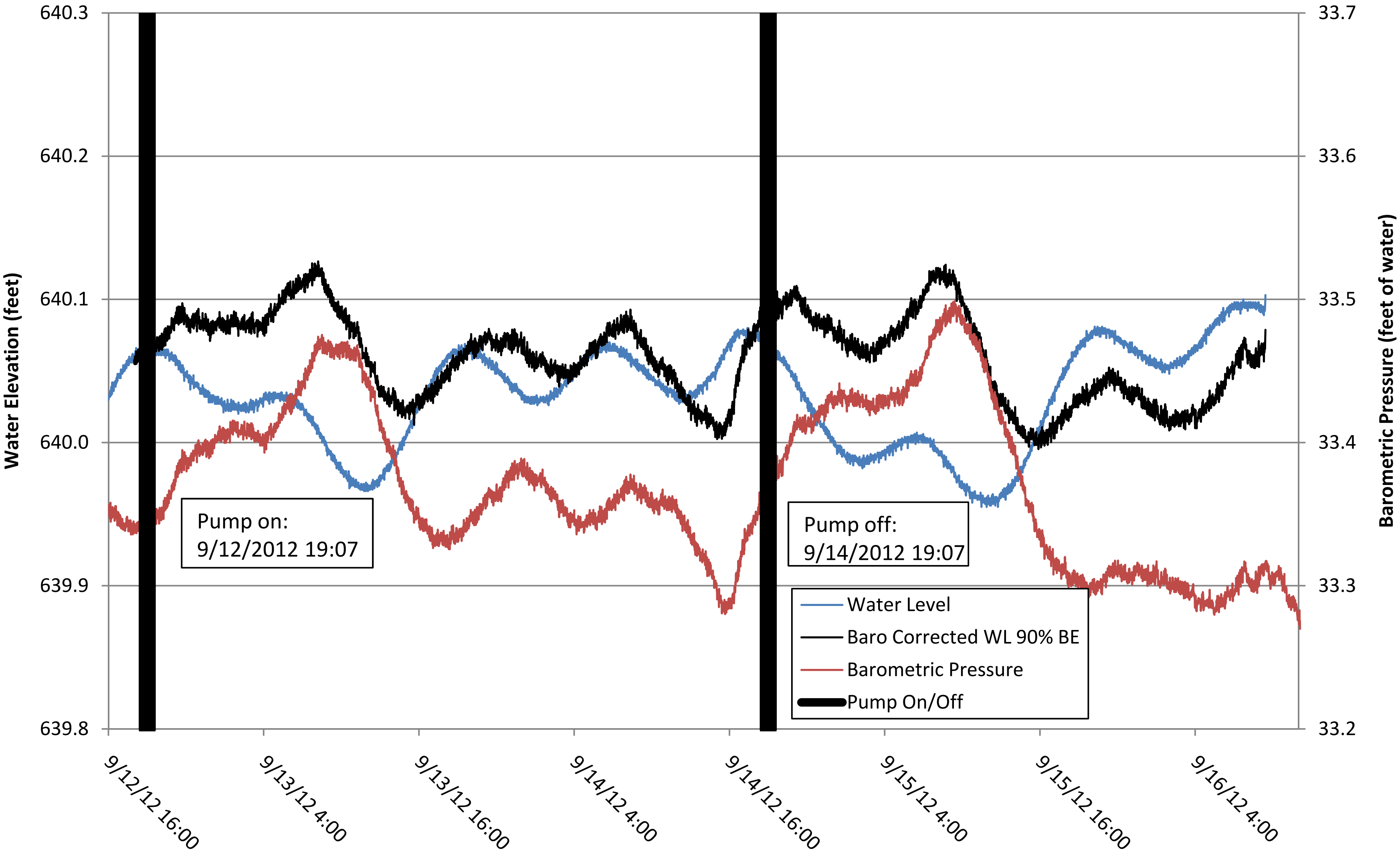
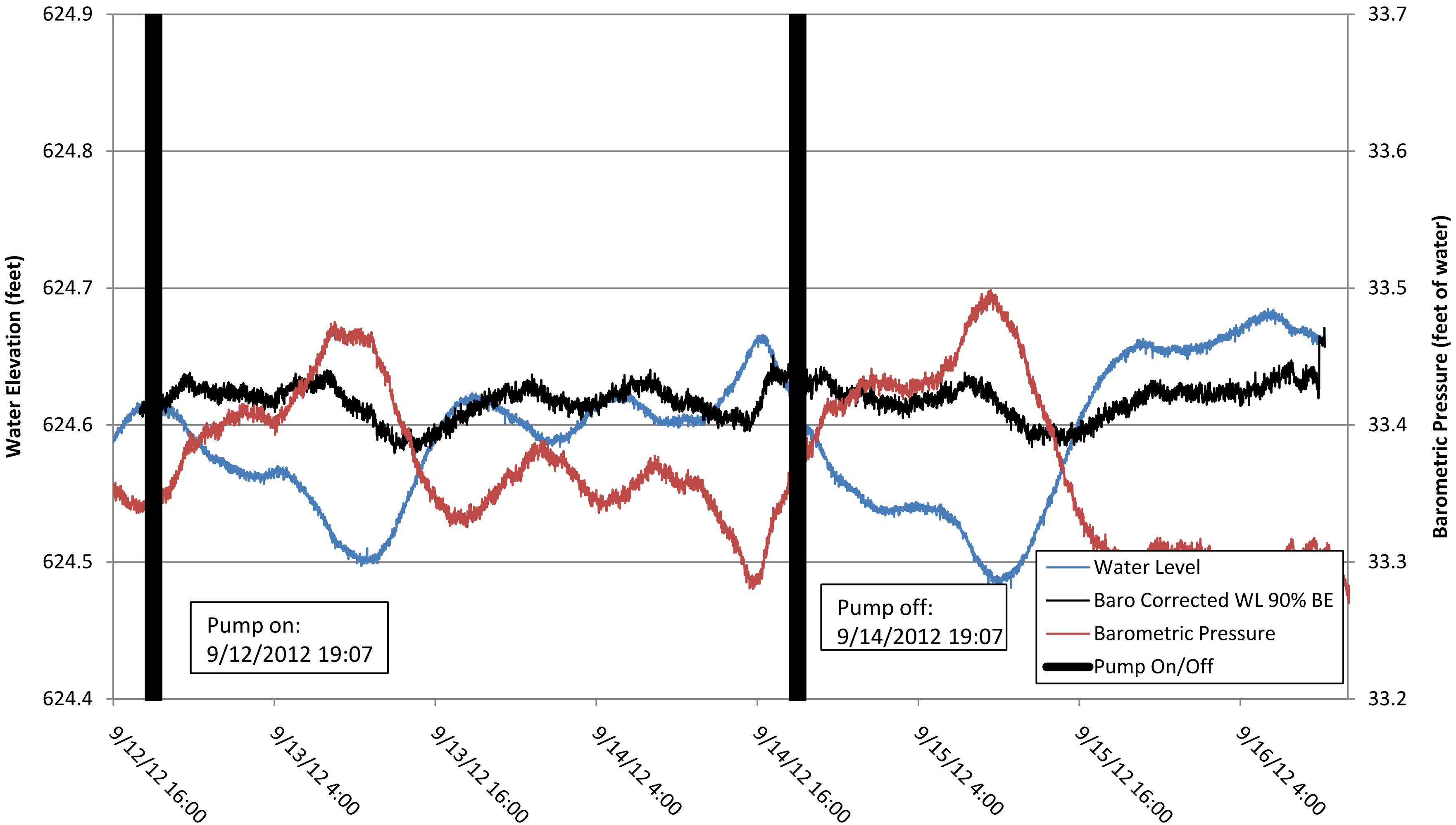


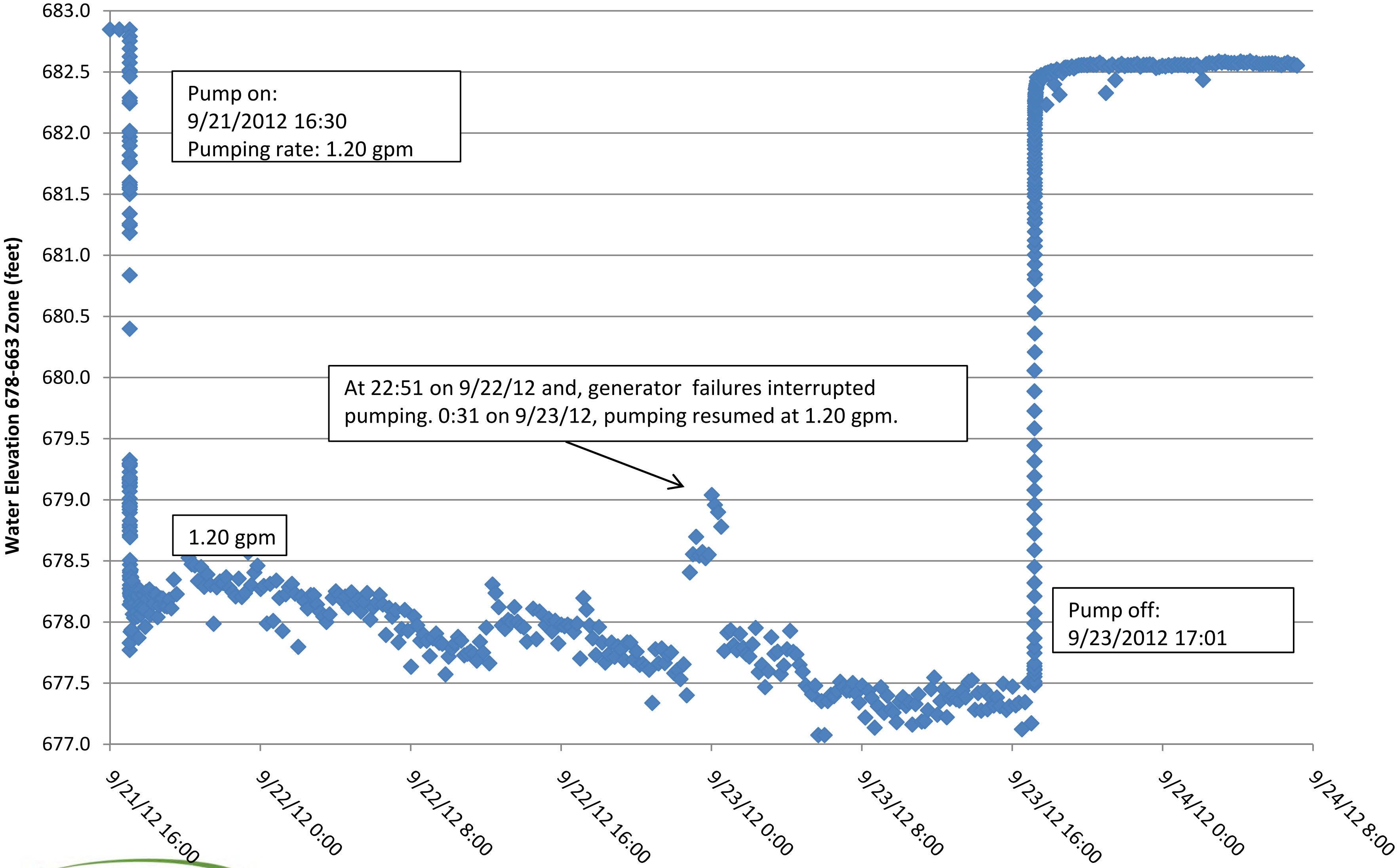
Figure 3-9 WD-MW06B Response to WD-PZ09C (CRT 679-671 feet)



Pump on:
9/12/2012 19:07

Pump off:
9/14/2012 19:07

Figure 3-10
WD-PZ12C Constant Rate Test (678-663 feet)



Pump on:
9/21/2012 16:30
Pumping rate: 1.20 gpm

At 22:51 on 9/22/12 and, generator failures interrupted pumping. 0:31 on 9/23/12, pumping resumed at 1.20 gpm.

1.20 gpm

Pump off:
9/23/2012 17:01

Figure 3-11
WD-PZ09C Response to WD-PZ12C (CRT 678-663 feet)

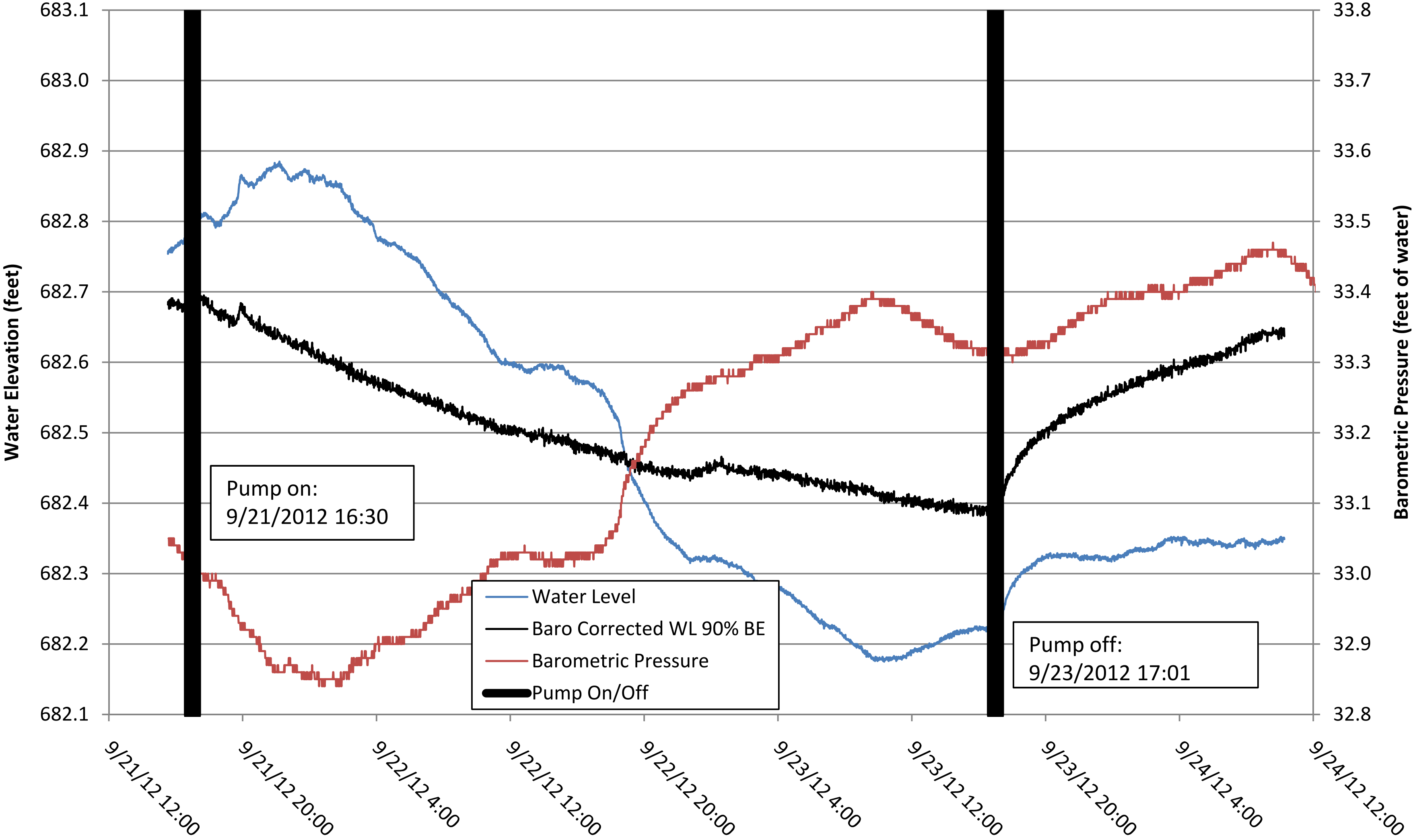
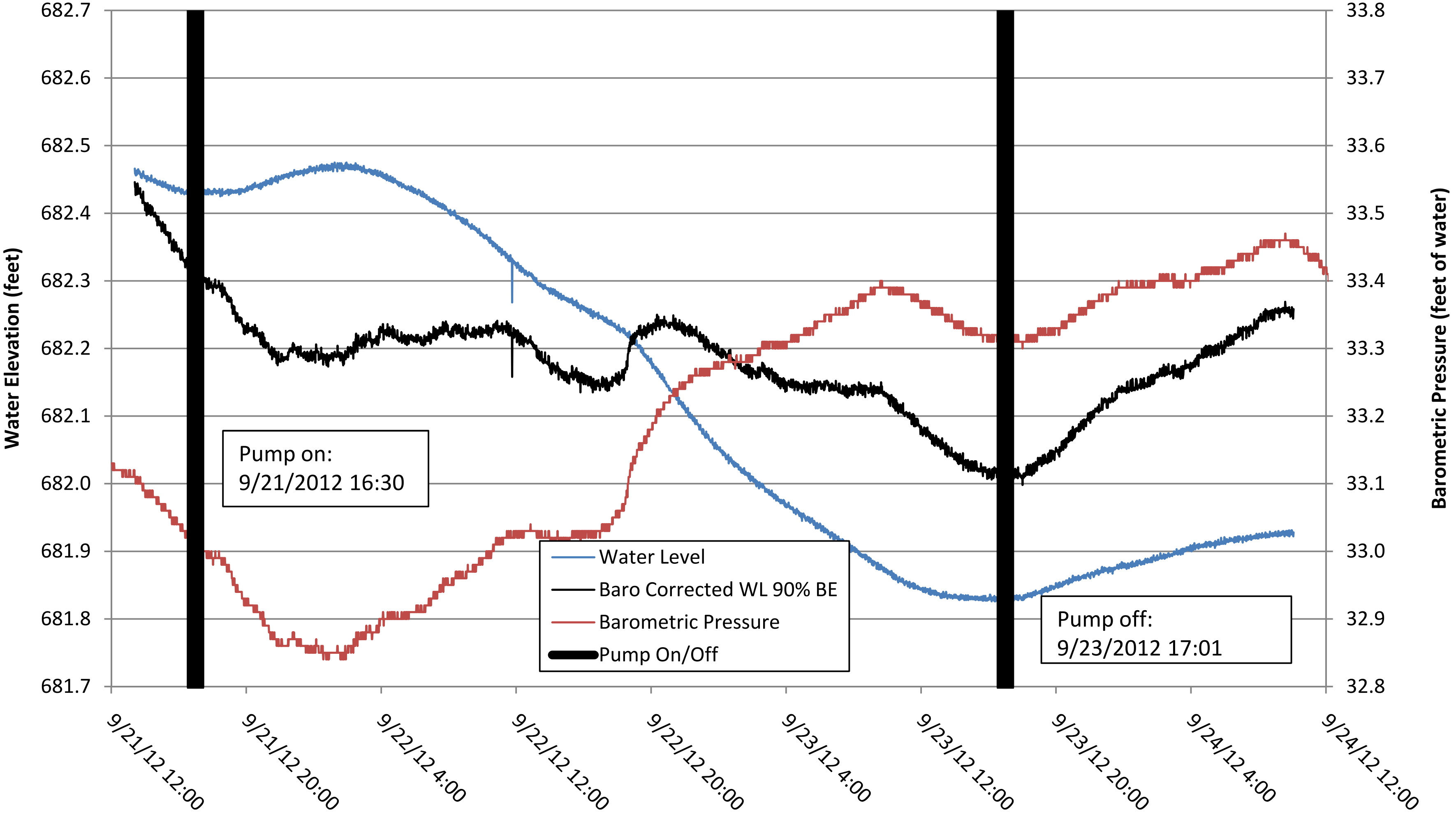


Figure 3-12
WD-PZ11C Response to WD-PZ12C (CRT 678-663 feet)



Pump on:
9/21/2012 16:30

Pump off:
9/23/2012 17:01

Figure 3-13
WD-PZ13C Response to WD-PZ12C (CRT 678-663 feet)

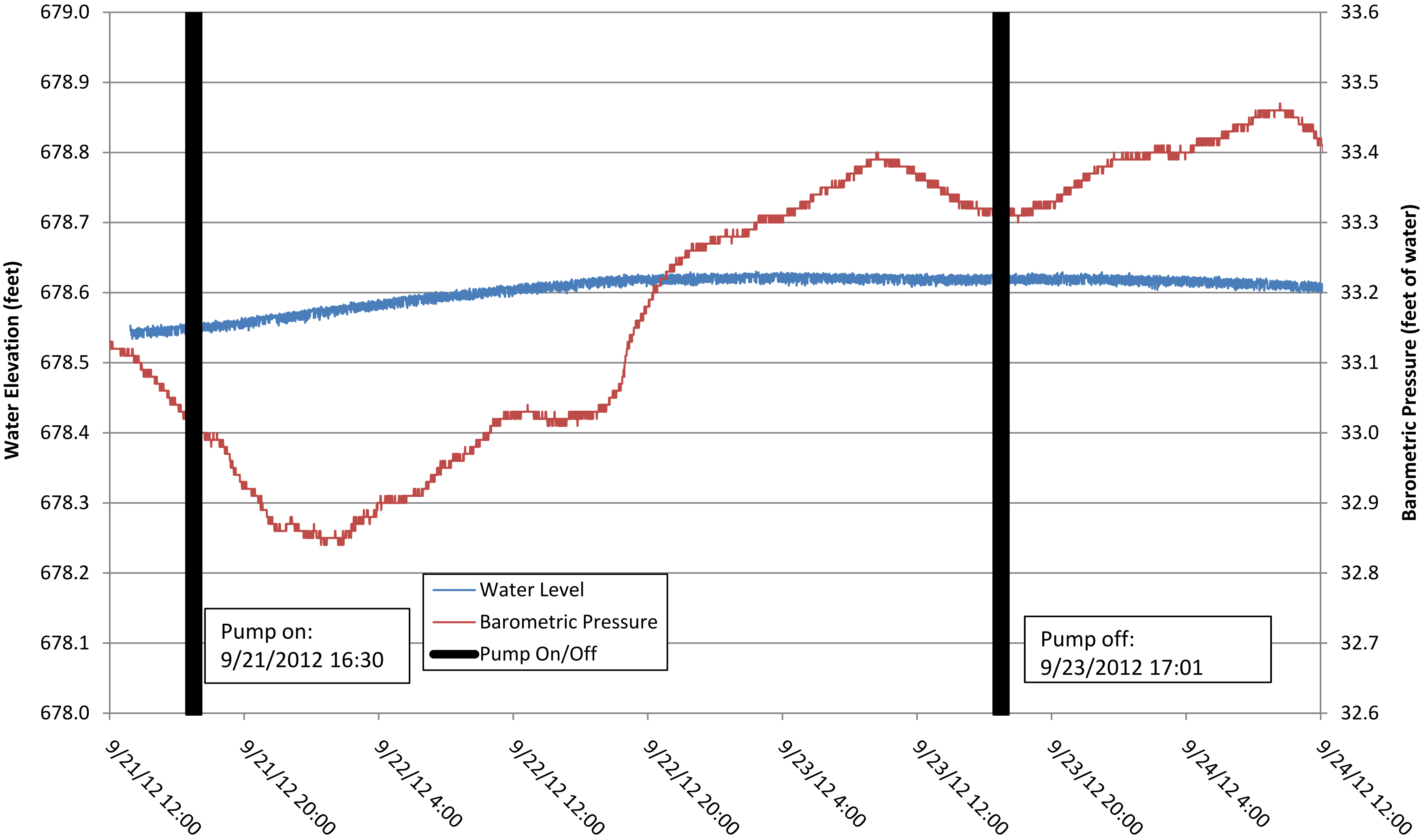


Figure 3-14
WD-PZ14C Response to WD-PZ12C (CRT 678-663 feet)

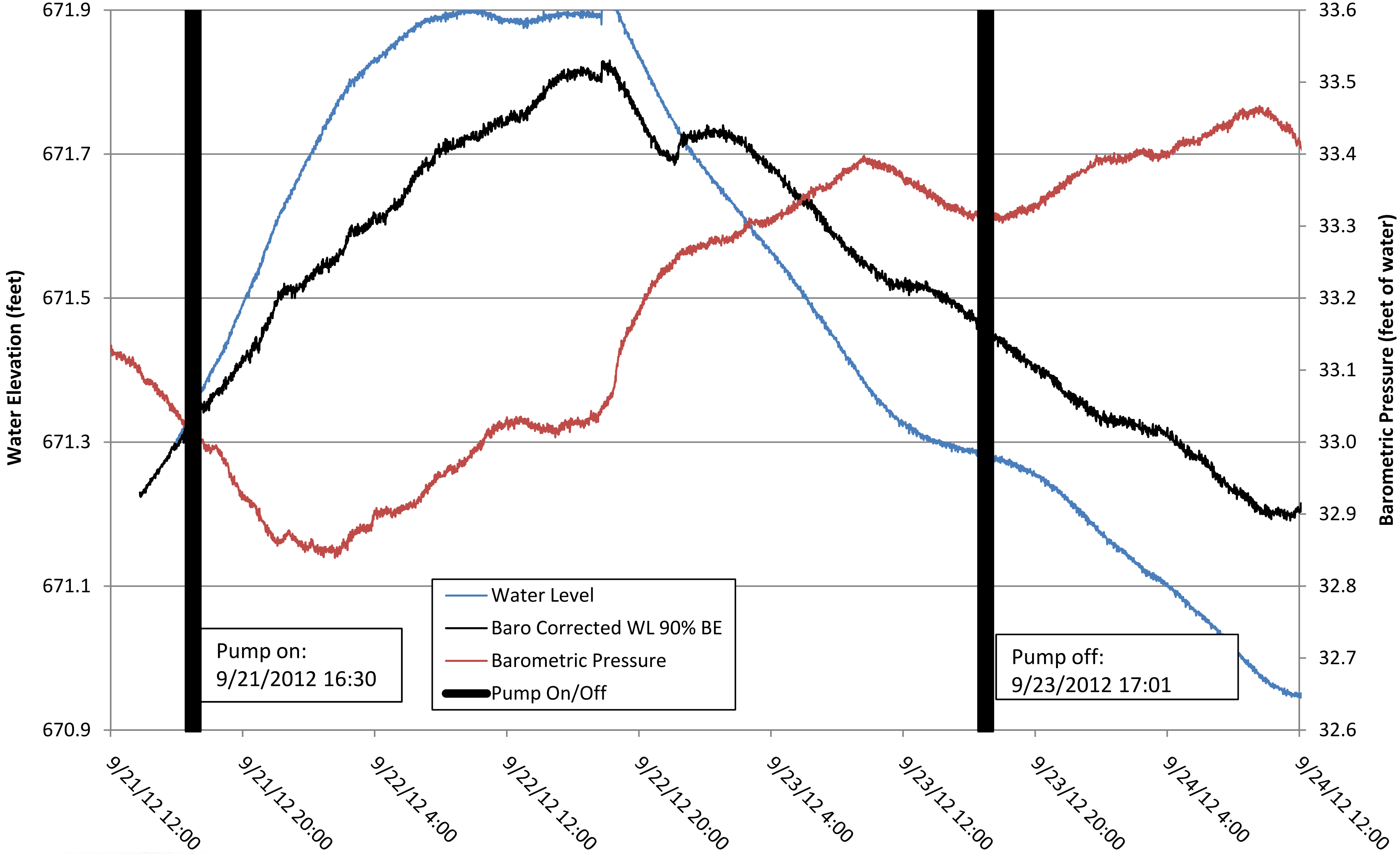
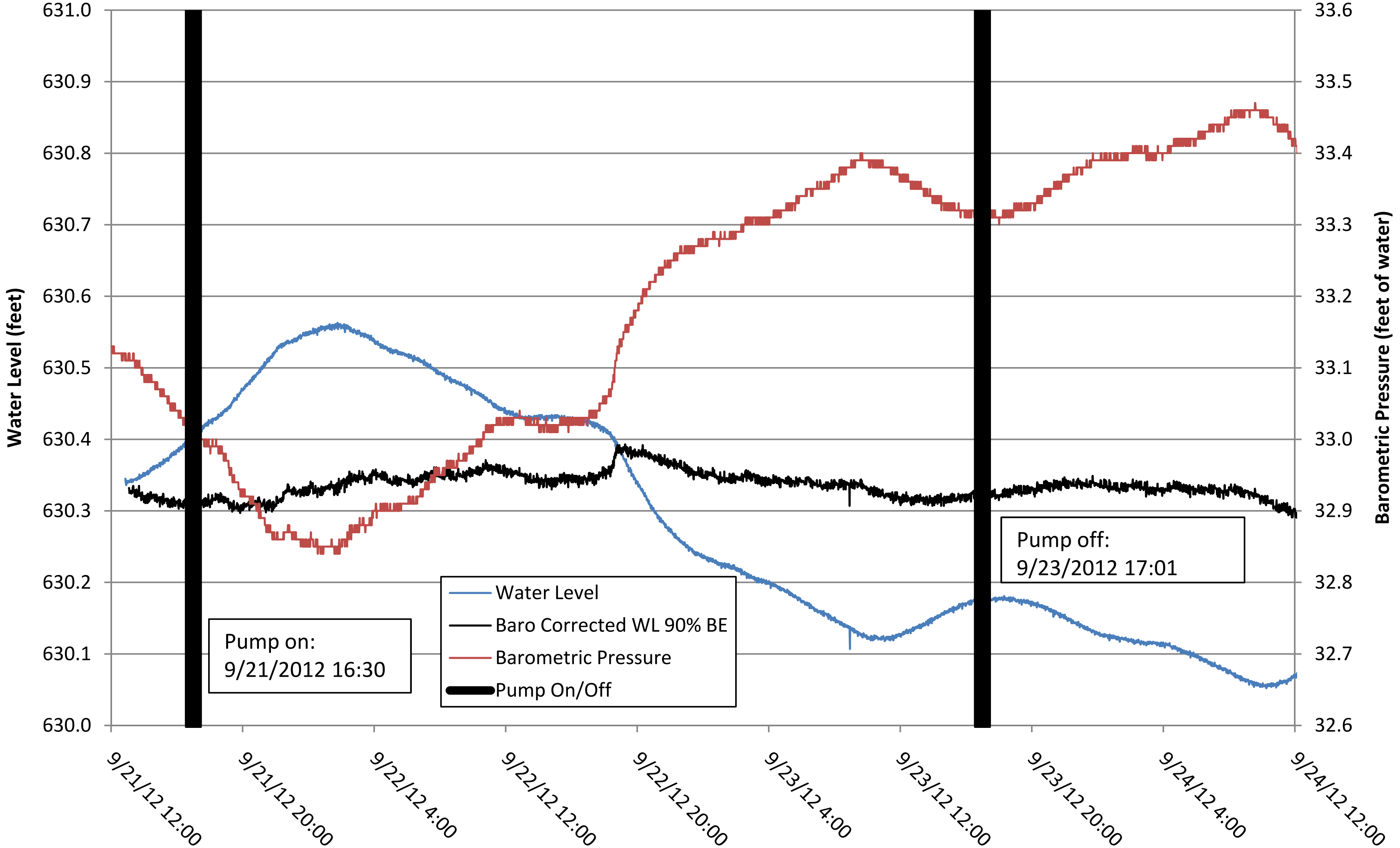


Figure 3-15 WD-MW03B Response to WD-PZ12C (CRT 678-663 feet)



Pump on:
9/21/2012 16:30

Pump off:
9/23/2012 17:01

Figure 3-16 WD-MW04B Response to WD-PZ12C (CRT 678-663 feet)

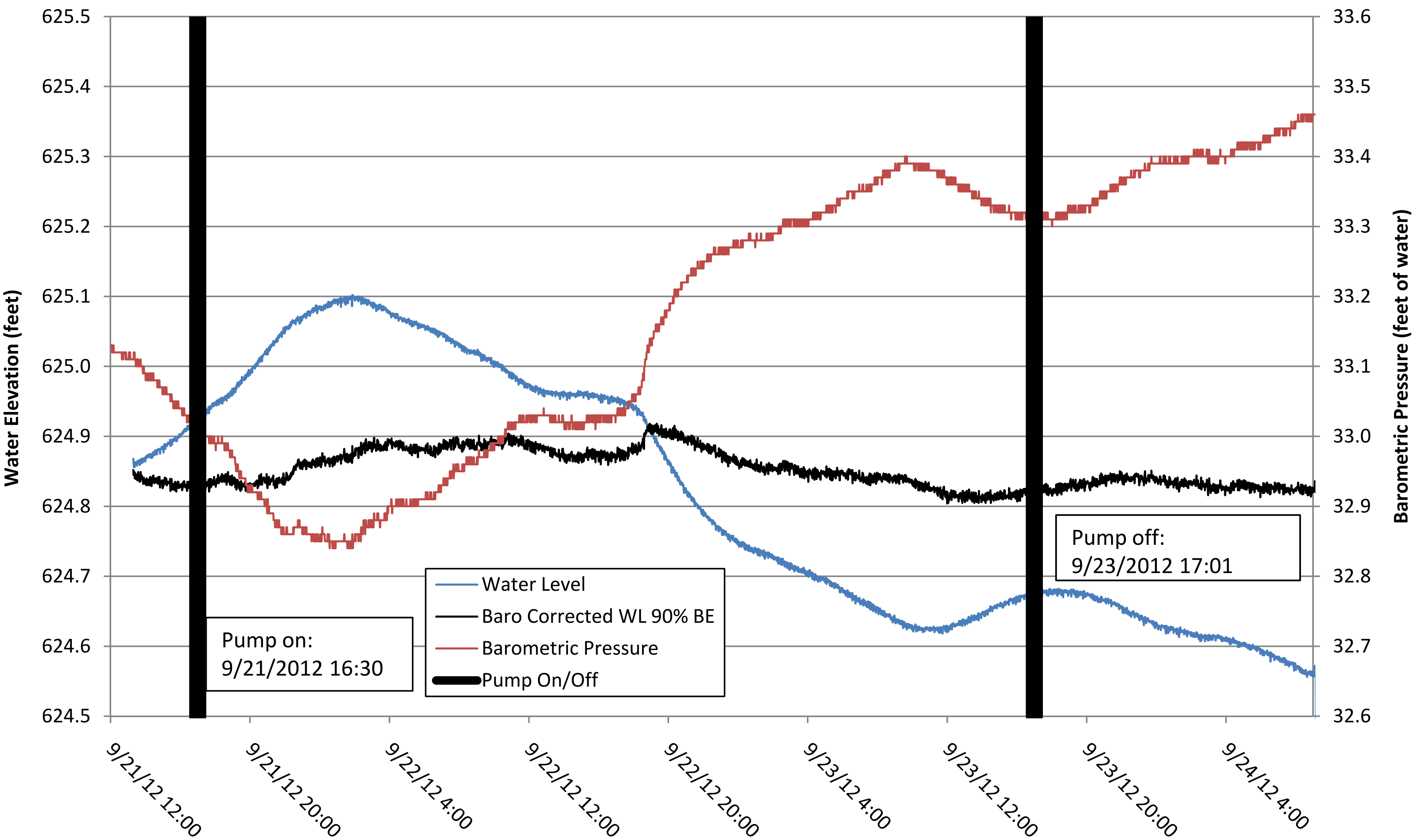


Figure 3-17 WD-MW05B Response to WD-PZ12C (CRT 678-663 feet)

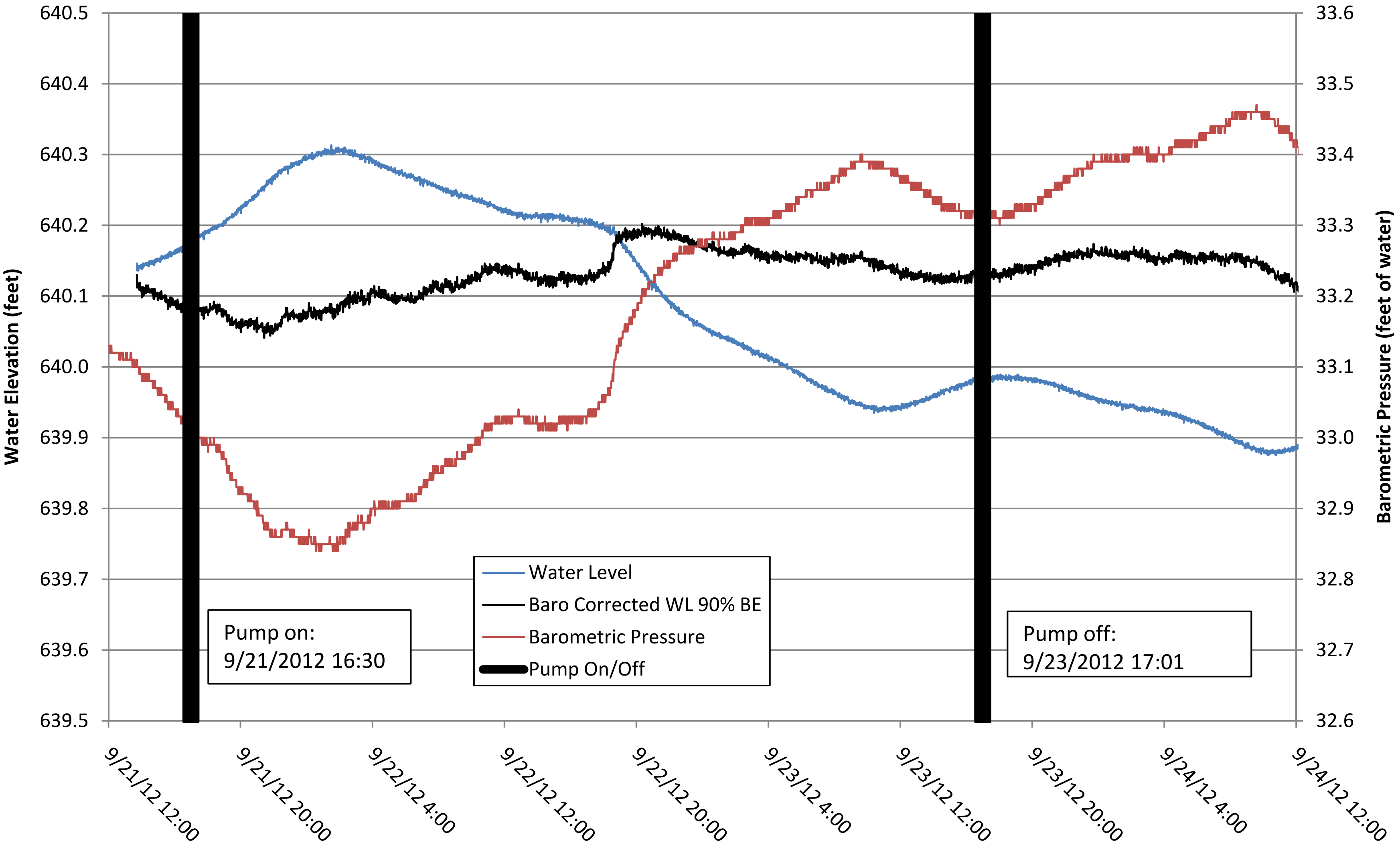


Figure 3-18 WD-MW06B Response to WD-PZ12C (CRT 678-663 feet)

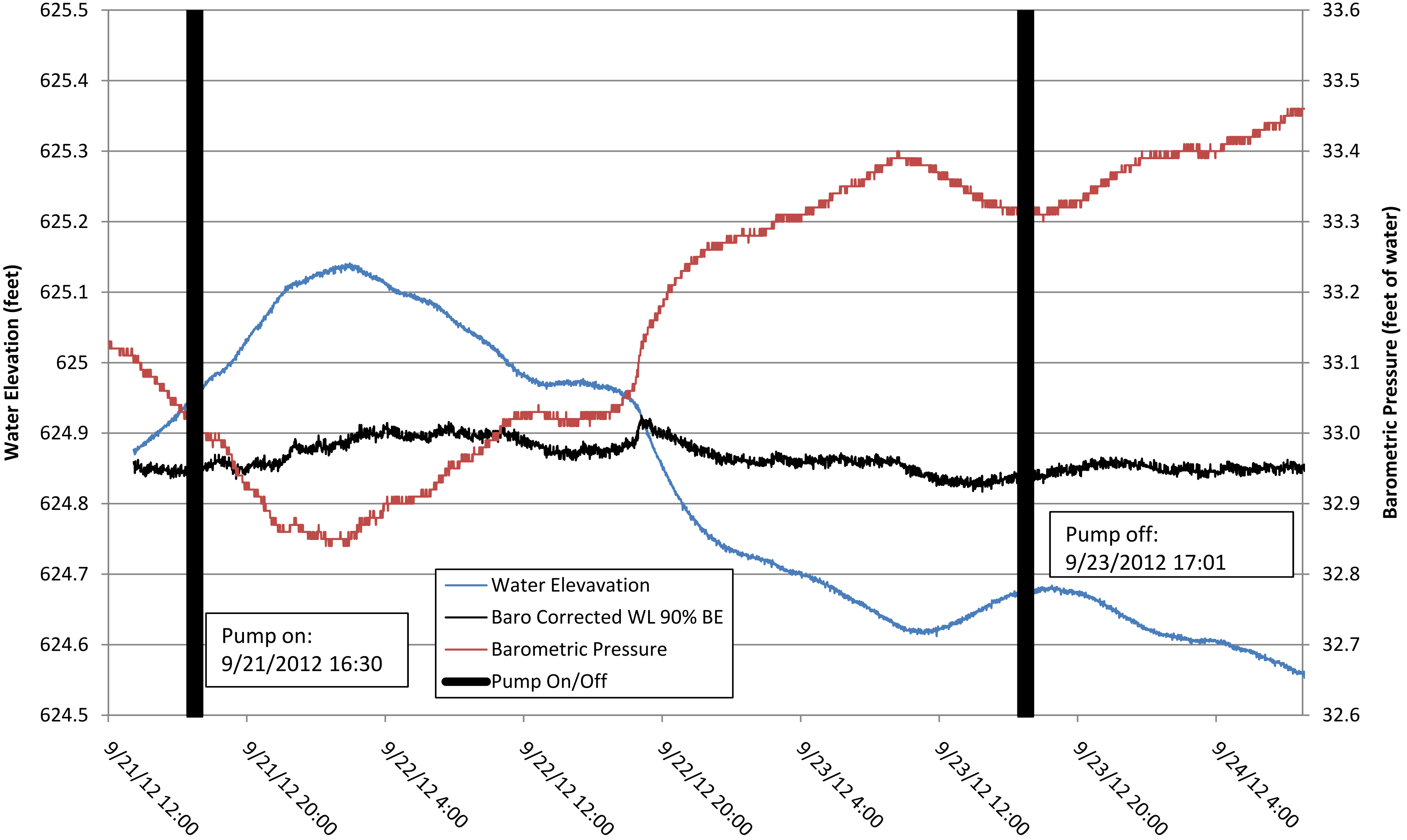
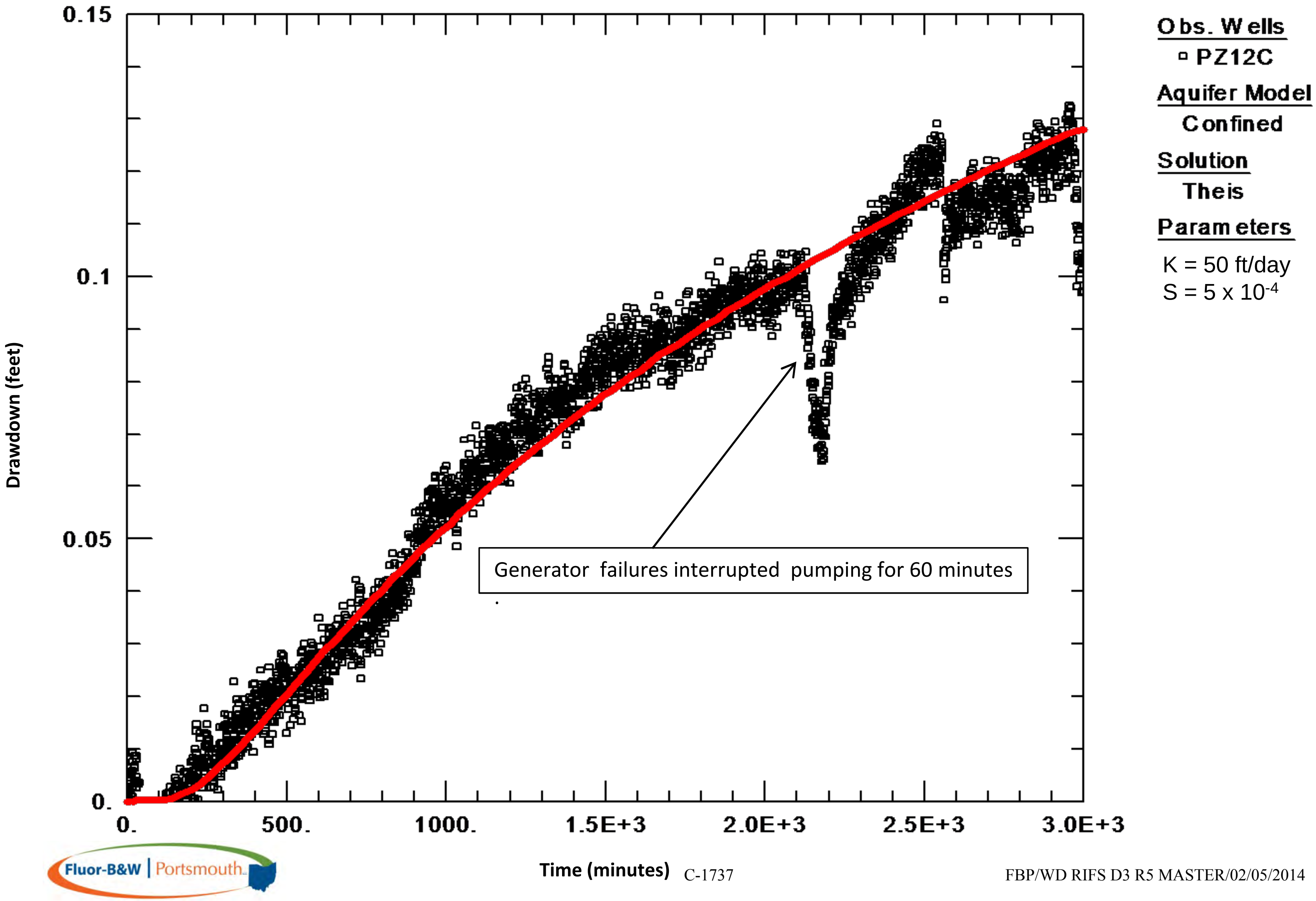


Figure 3-19
Response at WD-PZ12C While Pumping WD-PZ09C

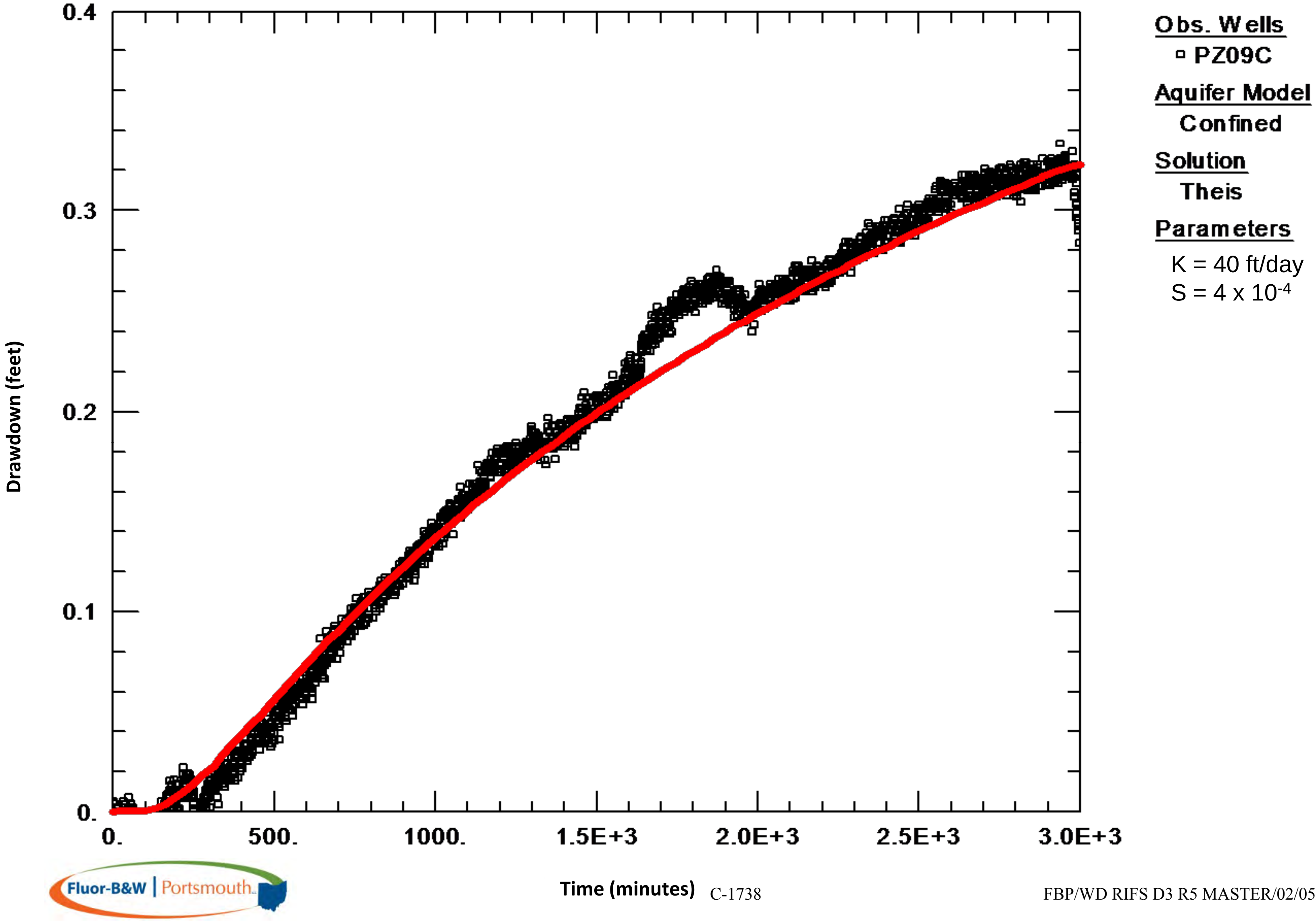


K = 50 ft/day
S = 5 x 10^{-4}

Generator failures interrupted pumping for 60 minutes

C-1737

Figure 3-20
Response at WD-PZ09C While Pumping WD-PZ12C



680 SANDSTONE LAYER AQUIFER TEST ANALYSIS SUMMARY

680 Sandstone Layer Aquifer Test Analysis Summary

Additional evaluation of Cuyahoga Formation aquifer performance tests (conducted by Dr. Changsheng Lu of Jacobs Engineering)

680 Sandstone Layer Aquifer Test Analysis Summary

1. The K values are in the 12-18 ft/day range. The Ks were calculated based on a 5-ft effective K zone. The testing intervals for the two tests are 8 and 15 ft, respectively.

2. Higher K range for the sandstone layer interval suggests the impact from the horizontal bedding planes existing within the test intervals (shale, sandstone). It is supported by the same K values derived used the horizontal fractured solution.

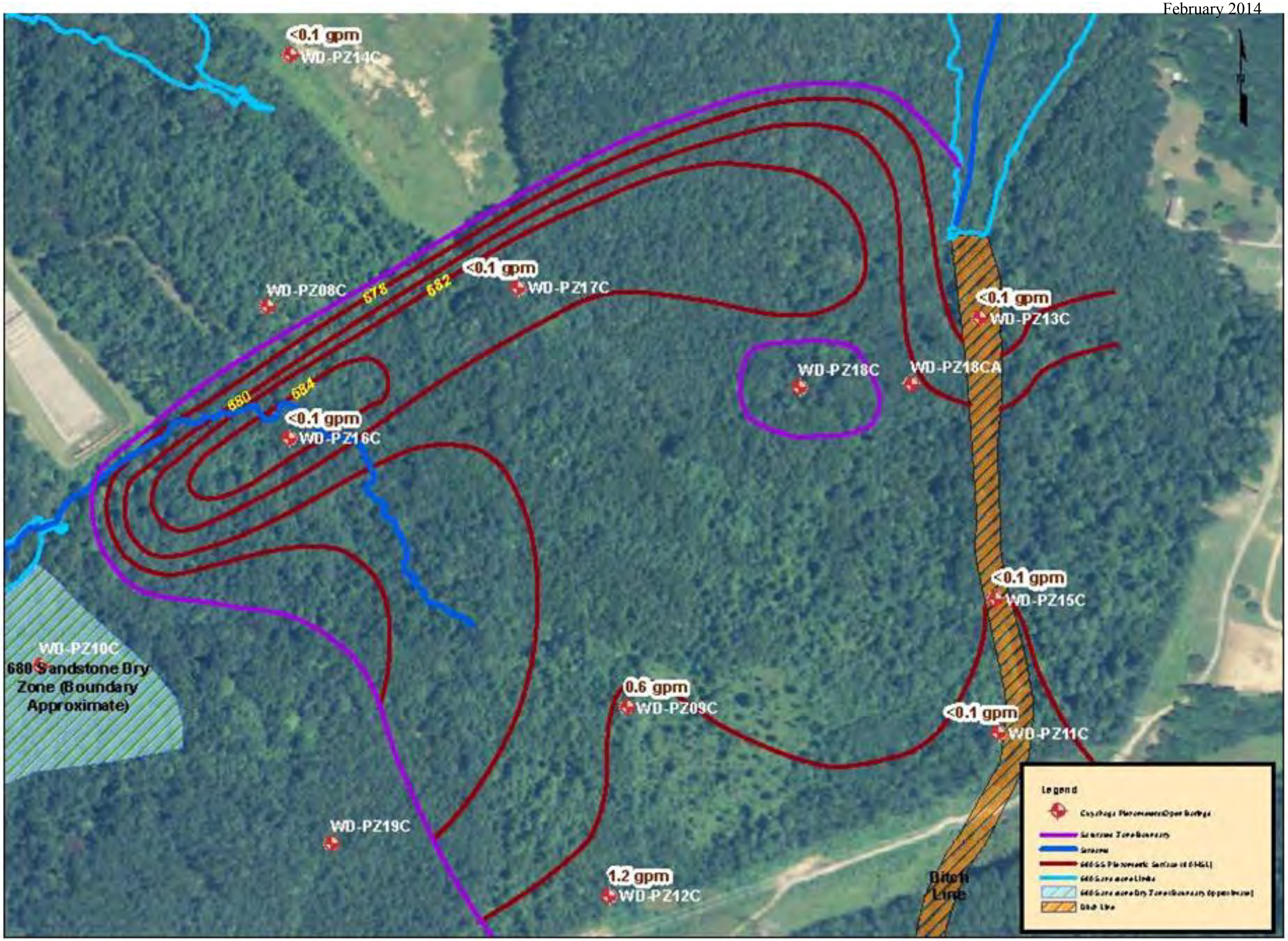
3. Leaky solution provide slightly lower K values.

4. The derived Ks are higher than the literature values of fractured sandstone (generally less than 1 ft/day). But most of the tests are based on thicker sandstone aquifer whereas this test is focused on shorter vertical interval where bedding plane is particularly abundant due to the lithology changes.

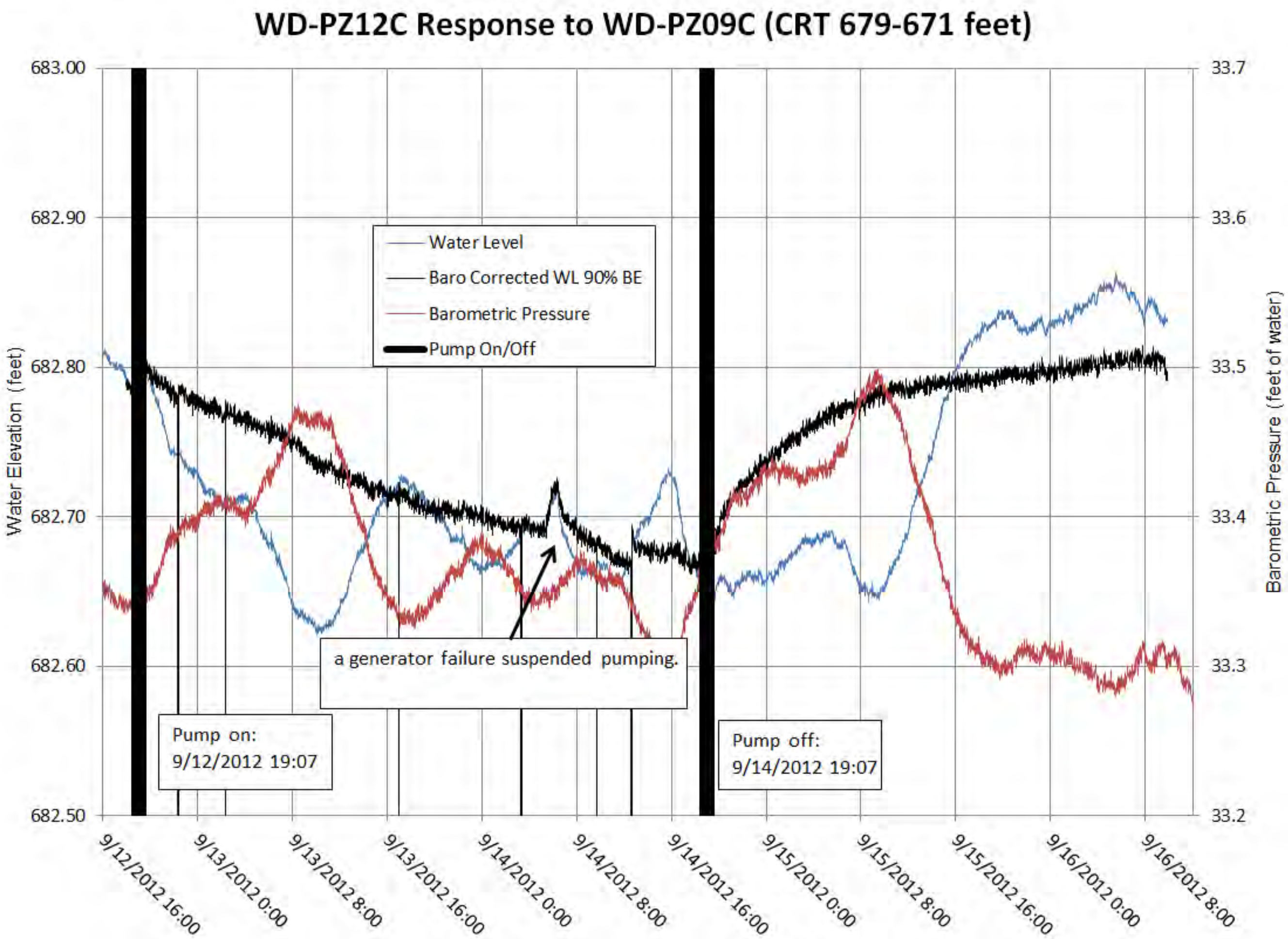
5. The lack of responses in other monitoring wells at other directions suggests the bedding planes may be controlled by localized depositional environments, such as change in layer elevation in a river delta depositional environments.

680 Sandstone Layer Aquifer Test Analysis Summary

	PZ-9C CP Test	PZ-12C CP Test
pumping interval (length)	679--671 (8)	678--663 (15)
pumping rate (gpm)	0.6	1.2
Monitoring Well	PZ-12C	PZ-9C
Monitoring Interval (length)	678--663 (15)	679--671 (8)
Hydraulic conductivity by Solutions	ft/day	ft/day
Confined (5 ft)	18	12
Leaky (5 ft)	17	8
Fractured (horizontal)	18	12

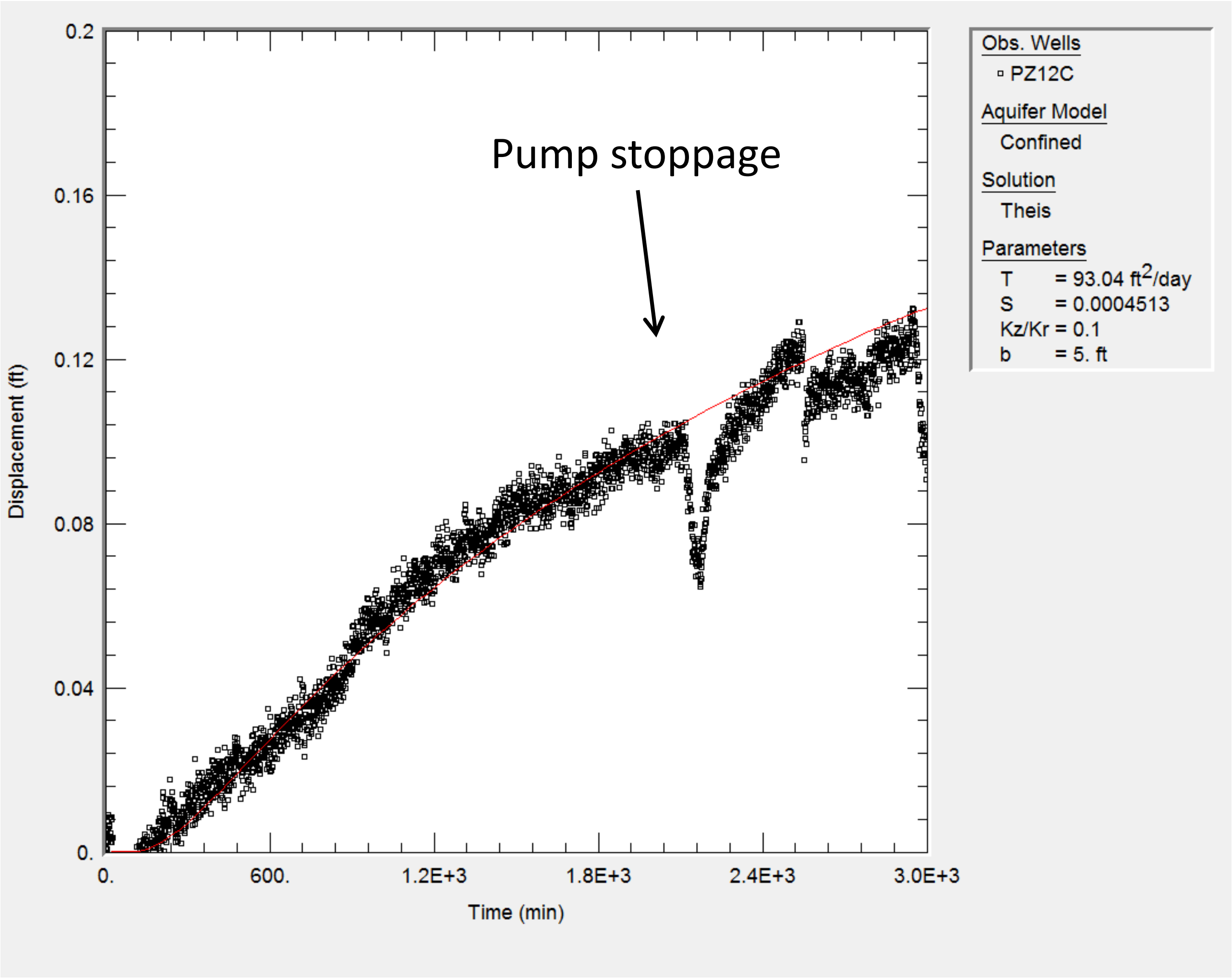

<0.1 gpm
WD-PZ14C
WD-PZ08C
678
682
<0.1 gpm
WD-PZ17C
<0.1 gpm
WD-PZ13C
WD-PZ18C
WD-PZ18CA
680
684
<0.1 gpm
WD-PZ16C
<0.1 gpm
WD-PZ15C
WD-PZ10C
680 Sandstone Dry Zone (Boundary Approximate)
0.6 gpm
WD-PZ09C
<0.1 gpm
WD-PZ11C
WD-PZ19C
1.2 gpm
WD-PZ12C
Ditch Line
Legend
Sandstone Zone Boundary
Ditch Line

Barometric effect corrected Water level (used barometric efficiency factor of 0.9)



Confined aquifer solution (drawdown based on Baro corrected water drop)

K = 18 ft/day



Pump stoppage

Obs. Wells
▫ PZ12C

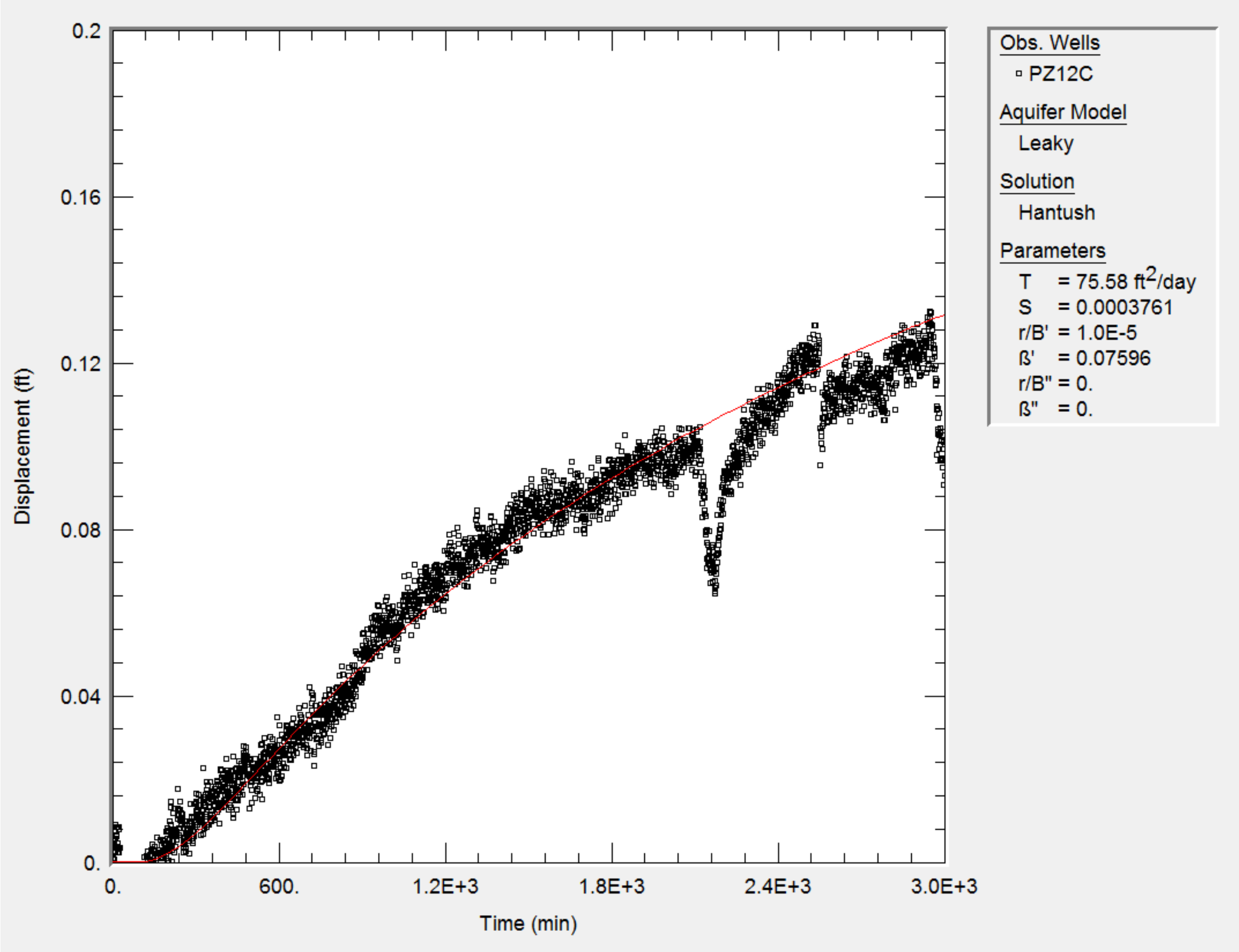
Aquifer Model
Confined

Solution
Theis

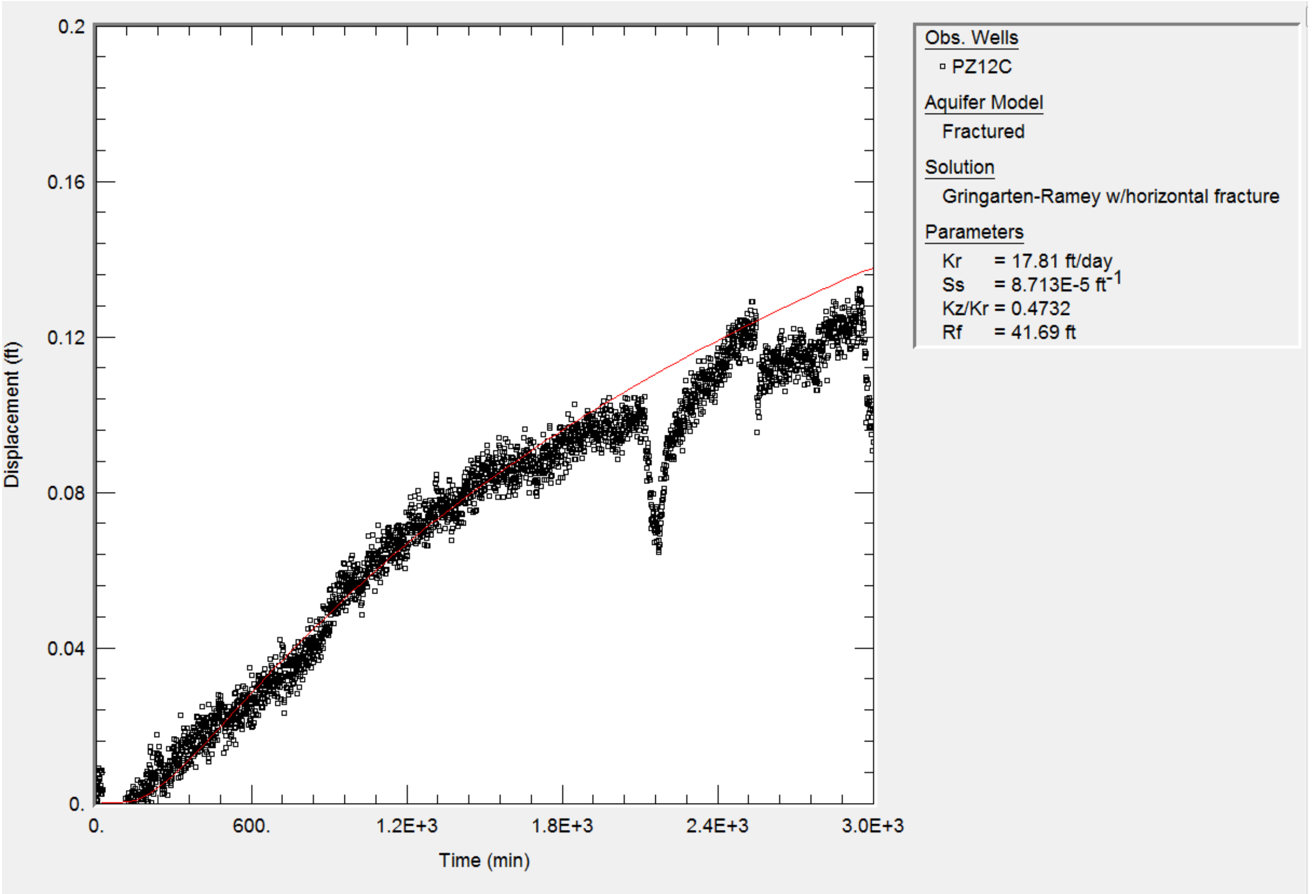
Parameters
T = 93.04 ft^2/day
S = 0.0004513
Kz/Kr = 0.1
b = 5. ft

Leaky (semi-confined) aquifer solution

K = 17 ft/day



Fractured aquifer solution



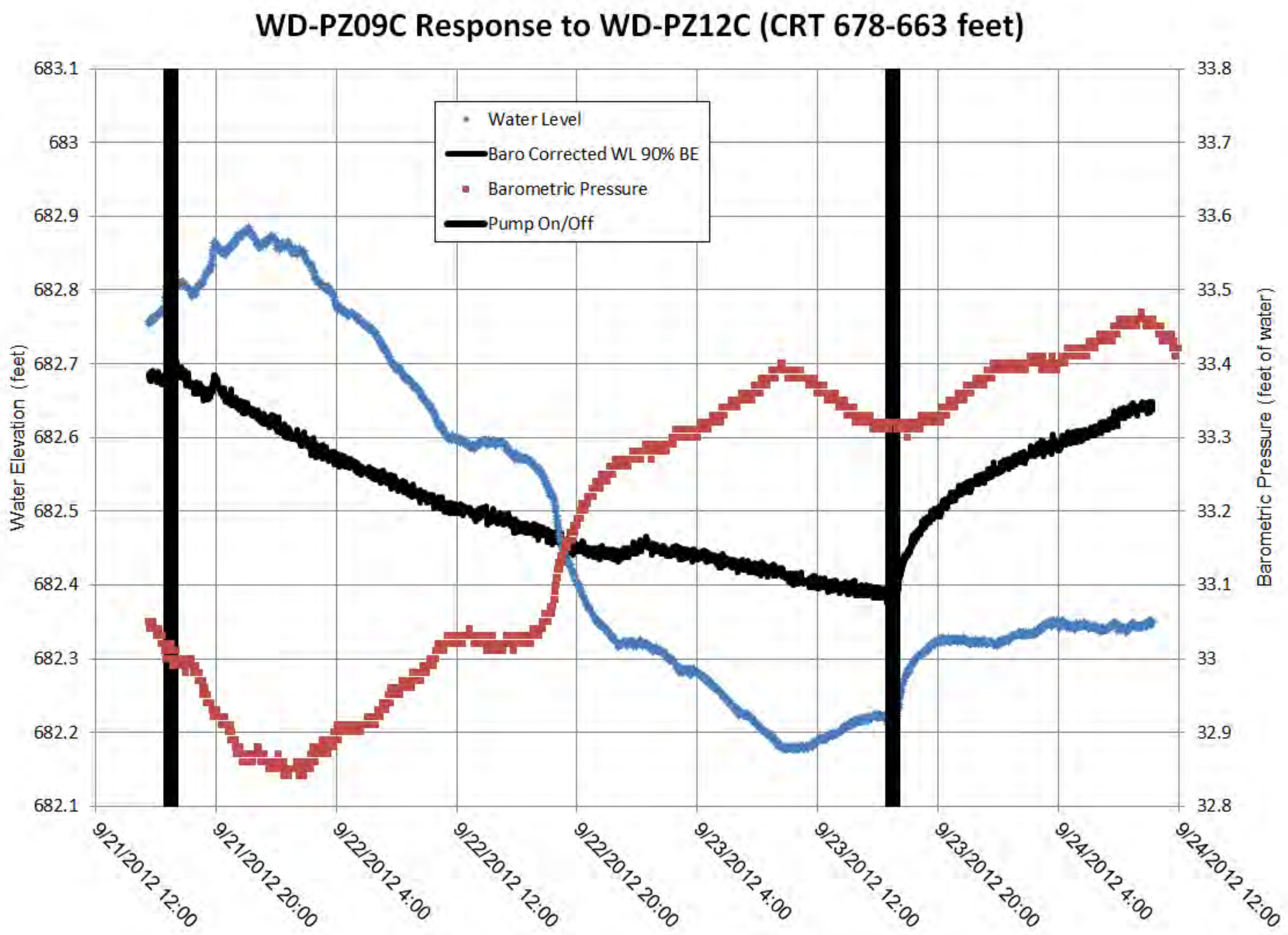
Obs. Wells
▫ PZ12C

Aquifer Model
Fractured

Solution
Gringarten-Ramey w/horizontal fracture

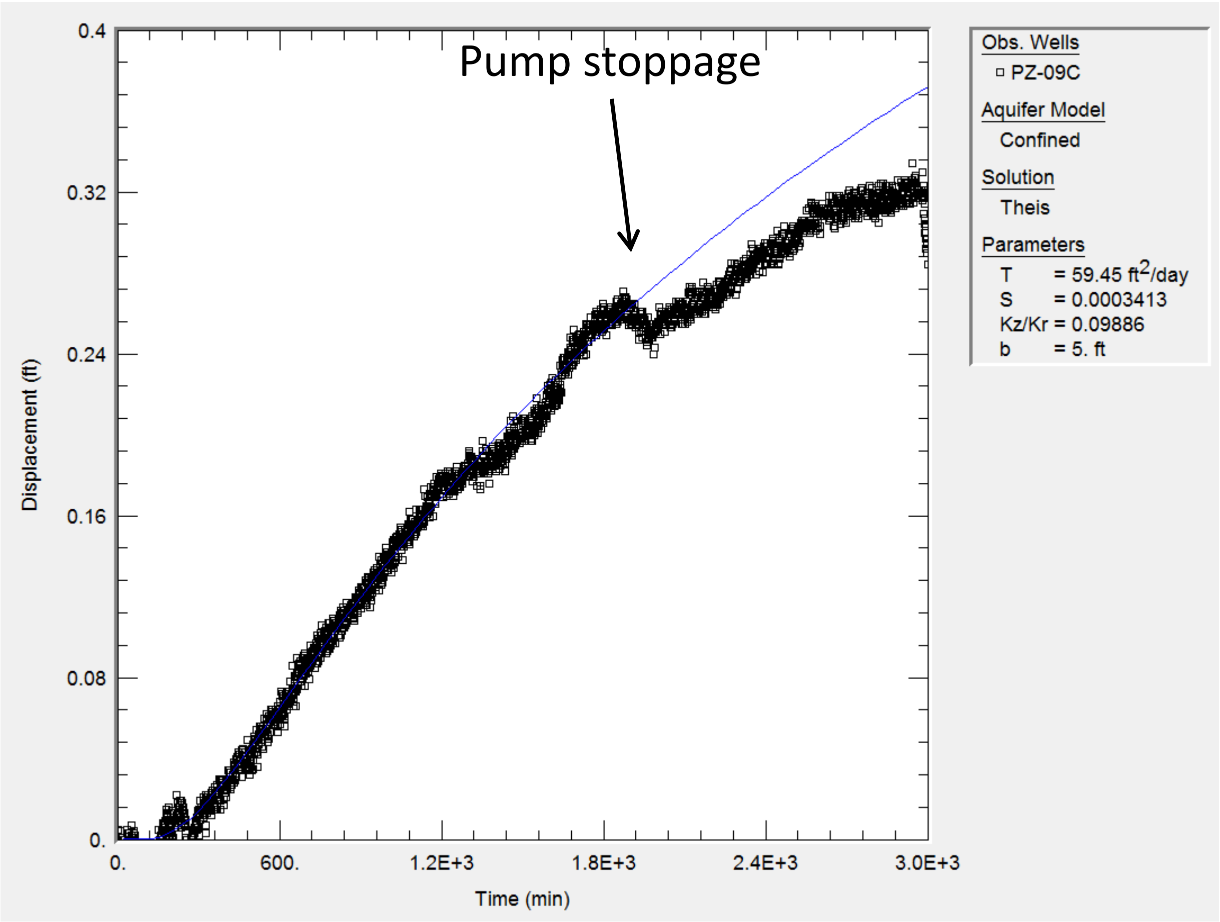
Parameters
Kr = 17.81 ft/day
Ss = 8.713E-5 ft^{-1}
Kz/Kr = 0.4732
Rf = 41.69 ft

Barometric effect corrected Water level (used barometric efficiency factor of 0.9)



Confined aquifer solution (drawdown based on Baro corrected water drop)

K = 12 ft/day

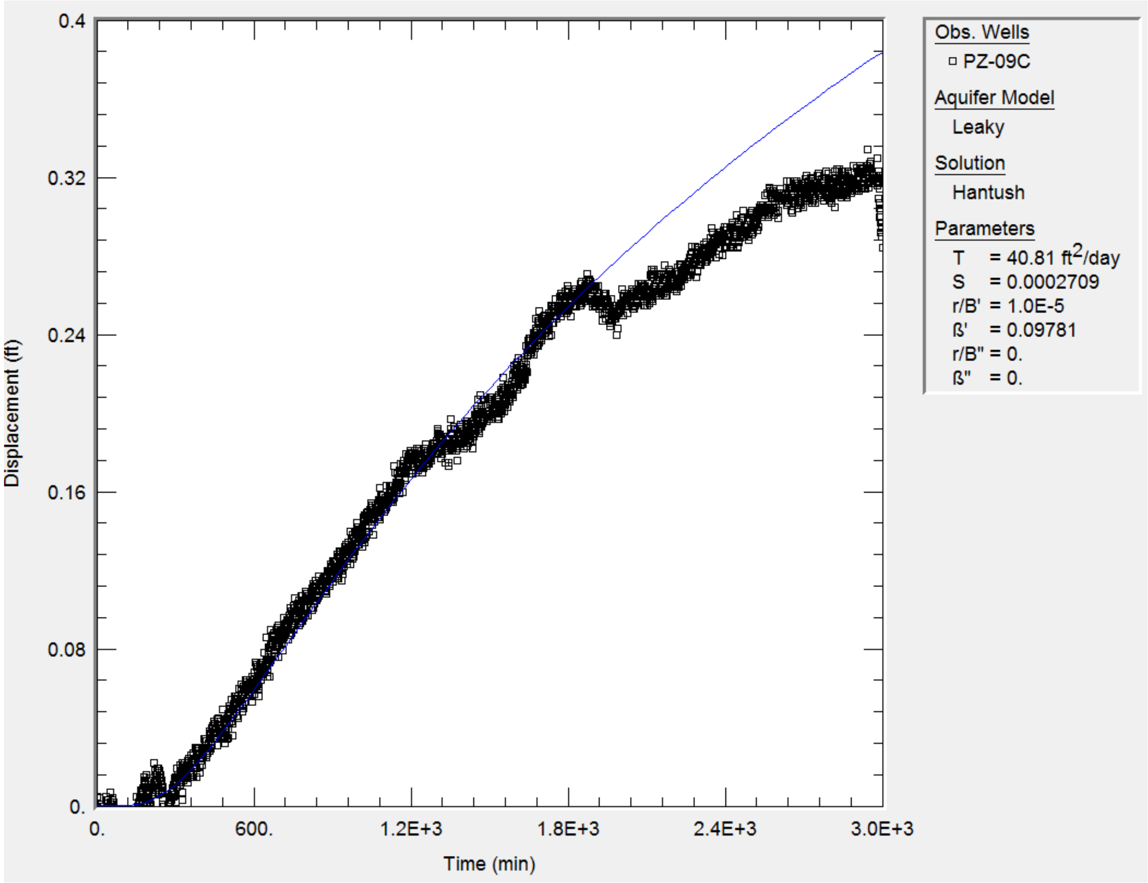


Pump stoppage

T = 59.45 ft^2/day
S = 0.0003413
Kz/Kr = 0.09886
b = 5. ft

Leaky (semi-confined) aquifer solution

K = 8 ft/day



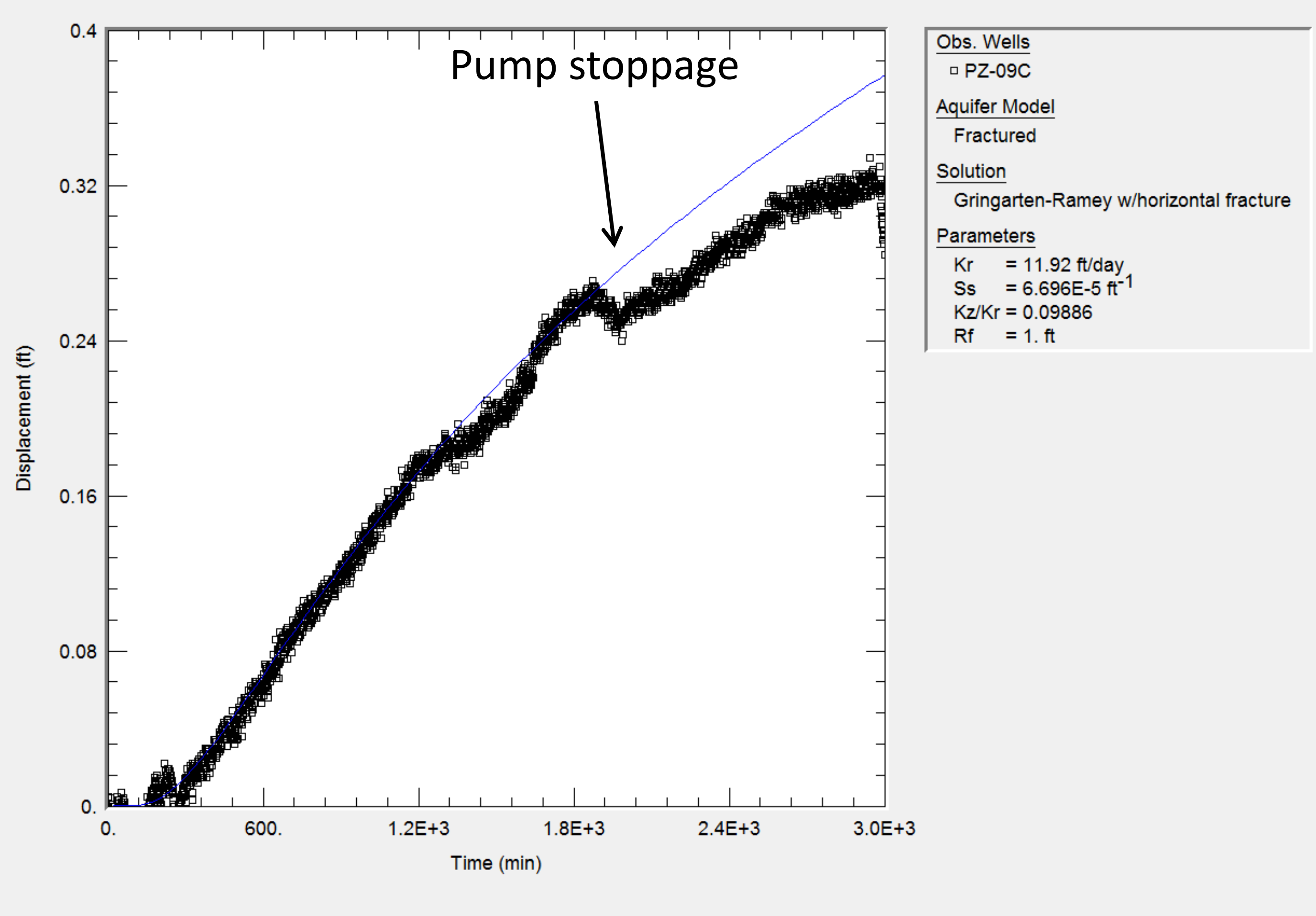
Obs. Wells
□ PZ-09C

Aquifer Model
Leaky

Solution
Hantush

Parameters
T = 40.81 ft^2/day
S = 0.0002709
r/B' = 1.0E-5
ß' = 0.09781
r/B" = 0.
ß" = 0.

Assumed the effective 5 ft sandstone layer thickness


Pump stoppage

Obs. Wells
□ PZ-09C

Aquifer Model
Fractured

Solution
Gringarten-Ramey w/horizontal fracture

Parameters
Kr = 11.92 ft/day
Ss = 6.696E-5 ft^{-1}
Kz/Kr = 0.09886
Rf = 1. ft

APPENDIX D: CHARACTERISTICS OF FINAL CANDIDATE LOCATIONS

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ACRONYMS

AMSL	above mean sea level
ARAR	applicable or relevant and appropriate requirement
BJC	Bechtel Jacobs Company LLC
CFR	*Code of Federal Regulations*
D&D	decontamination and decommissioning
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE	U.S. Department of Energy
FS	feasibility study
LiDAR	Light Detection and Ranging
LMES	Lockheed Martin Energy Systems, Inc.
MMES	Martin Marietta Energy Systems, Inc.
NRC	U.S. Nuclear Regulatory Commission
NRHP	National Register of Historic Places
OAC	*Ohio Administrative Code*
ODNR	Ohio Department of Natural Resources
Ohio EPA	Ohio Environmental Protection Agency
OHPO	Ohio Historic Preservation Office
OSDC	on-Site disposal cell
PHWH	Primary Headwater Habitat
PORTS	Portsmouth Gaseous Diffusion Plant
RCRA	Resource Conservation and Recovery Act of 1976 (as amended)
RI	remedial investigation
SSAB	Site Specific Advisory Board
Stantec	Stantec Consulting Services
TBC	to-be-considered
TSCA	Toxic Substances Control Act of 1976
USDA	U.S. Department of Agriculture
WAC	waste acceptance criteria

This appendix presents a summary of the final candidate study areas for a potential on-Site disposal cell (OSDC) at the Portsmouth Gaseous Diffusion Plant (PORTS). The U.S. Department of Energy (DOE) is evaluating waste management options for waste generated as a result of the potential decontamination and decommissioning (D&D) of facilities at PORTS. The feasibility study (FS) evaluates three alternatives for the waste: (1) no action; (2) on-Site disposal; and (3) off-Site shipment and disposal. One possible option for the on-Site disposal alternative is to design, construct, and operate a potential OSDC to accept the waste.

The evaluation of the study areas for development of a waste disposal facility, if the on-Site disposal alternative is selected, is presented in Section D.6 of this appendix. Study areas that do not merit further evaluation are first identified in a screening step after all viable areas are described. Then, those areas that are good candidates for a potential OSDC are further evaluated, and one location is selected to be a representative location for this FS. A single location is used to represent a potential OSDC in Section 8 of the remedial investigation (RI)/FS report, but other viable candidate locations could be reconsidered in the future.

The study areas were characterized to provide data to support evaluation of potential OSDC locations and to develop numerical waste acceptance criteria (WAC) for a potential OSDC (for the on-Site alternative). Important site-specific characteristics required by *Ohio Administrative Code (OAC)* 3745-27-06(C)(3) include the following:

Soil and bedrock characteristics
- Soil or rock type
- Color
- Moisture content
- Layering or interbedding
- Weathering
- Fracturing or jointing
- Mineral content
- Thickness
- Horizontal extent
- Depth and elevation.

Groundwater characteristics
- Uppermost aquifer system and significant zone of saturation
- Flow direction and rate
- Hydraulic conductivity
- Interconnection within upper aquifer system and significant zone of saturation
- Groundwater level elevation
- Temporal fluctuations
- Recharge and discharge
- Groundwater yield
- Groundwater chemistry.

Several intrusive field methods were used to obtain the required data to support the objectives, including, but not limited to, test pit excavation, cone penetration testing, hollow-stem auger drilling, and other drilling methods suitable for drilling in both unconsolidated and bedrock formations. Soil boring samples consisting of Shelby tube and split-spoon samples were collected from discrete depth intervals.

Piezometers and monitoring wells have been installed in three of the four study areas to determine depth to water and provide data on groundwater geochemistry. During the drilling program, soil/rock samples were collected for contaminant analyses (for example metals, radionuclides, volatile organics, semivolatile organics, and polychlorinated biphenyls), geochemical analyses (for example pH, cation exchange capacity, and total organic carbon), and geotechnical analyses (for example Atterberg limits, water content, consolidation, permeability, and unconfined compression). Soil/rock samples from the Minford and Gallia, as well as rock cores from the Cuyahoga Formation and Sunbury shale, were tested to determine site-specific distribution coefficients for uranium isotopes and technetium-99.

D.1 BACKGROUND

D.1.1 SUMMARY OF RESULTS OF PREVIOUS ECOLOGICAL AND CULTURAL RESOURCES STUDIES AT PORTS

Past consultations with the U.S. Fish and Wildlife Service indicate that some of the riparian areas on the PORTS Facility may be suitable summer habitat for the Indiana bat (*Myotis sodalis*), a federal- and state-listed endangered species. As a result of these consultations, DOE conducted surveys for the presence of the Indiana bat in 1994 and 1996. As part of the 1996 survey, potential summer habitat for the Indiana bat was identified in the Northwest Tributary stream corridor, particularly in an area of deciduous sugar maple forest within this corridor. Mist netting in this area was conducted in June and August 1996. Although 14 bats representing four common species were captured during the August survey, no Indiana bats were collected. Despite the position of the U.S. Fish and Wildlife Services, the survey concluded that most of the PORTS Facility has poor summer habitat for Indiana bats. The few woodlands that occur on the property are small, isolated, and not of sufficient maturity to provide good habitat for this species (Lockheed Martin Energy Systems, Inc. [LMES] 1997). Another bat mist-net survey was conducted in May 2011. During this survey, four nights of sampling resulted in the capture of eight bats, but no Indiana bats were observed (EnviroScience 2011). Additional mist netting occurred in July 2013 in Study Area D. Several bats were caught, including Northern Long-eared bats, but no Indiana bats were observed. Ohio University has completed a detailed habitat mapping study; the final report will be available early 2013. Preliminary findings from this study, using updated guidelines, are that the Indiana bat habitat may be more extensive than indicated in prior studies and in fact, the potential habitat extends over portions of both Study Area C and Study Area D (Ohio University 2012). The primary trees that produce exfoliating bark and nesting cavities (e.g., sycamore and shagbark hickory) are abundant in the older forest habitats. Additional consultation with the U.S. Fish and Wildlife Service in 2012 indicated that they had no record of Indiana bats being sighted or caught in Pike County, Ohio. They also confirmed that the species is still federally listed, and its home range does include the PORTS area.

The Carolina yellow-eyed grass, a state endangered plant species that prefers wet peaty or sandy soils typically found in marshes or bogs (U.S. Nuclear Regulatory Commission [NRC] 2006), was observed on the PORTS Facility in 1994 adjacent to the south side of the X-611B sludge lagoon. However, formal documentation of the species could not be performed because the grass was not in fruit or flower. Additional studies being completed by Ohio University may provide locations that harbor listed, high-interest plant species. No federally listed plant species have been observed during the current study but some state-listed species were tentatively identified.

The Ohio Environmental Protection Agency (Ohio EPA) previously determined that two state endangered fish species and four state threatened fish species exist near PORTS, but they are restricted to the Scioto River. Little Beaver Creek, the main body of water running through PORTS, does not provide sufficient habitat to support threatened or endangered species of fish (NRC 2006). However, the Ohio Department of Natural Resources (ODNR) lists Little Beaver Creek as an exceptional warmwater stream.

PORTS and its surrounding area have the potential to yield both prehistoric and historic cultural resources. The studies conducted to identify archeological resources began with a Phase I literature review and archaeological reconnaissance survey conducted in 1996 and 1997 at PORTS (Schweikart et al. 1997) and concluded with recent Phase II surveys being conducted in 2012 at Study Area D (Mustain 2013). The results of all these surveys are four sites eligible for inclusion as historic properties on the National Register of Historic Places (NRHP).

No prehistoric Native American mounds had been documented on the PORTS Facility. During May and June 2011, a study was conducted of the entire PORTS Facility to determine if there were prehistoric mound-like features on the plant (Burks 2011). This study included a detailed review of the PORTS preconstruction topographic maps and the use of high-density Light Detection and Ranging (LiDAR) data. As a result, 28 topographic features (1 ft – 10 ft tall and up to 82 ft in diameter) were identified on the PORTS Facility. However, archaeological ground-truthing visits to each location indicated that all of these features were either naturally occurring features or a result of historic-era or recent activity on the PORTS Facility (Burks 2011).

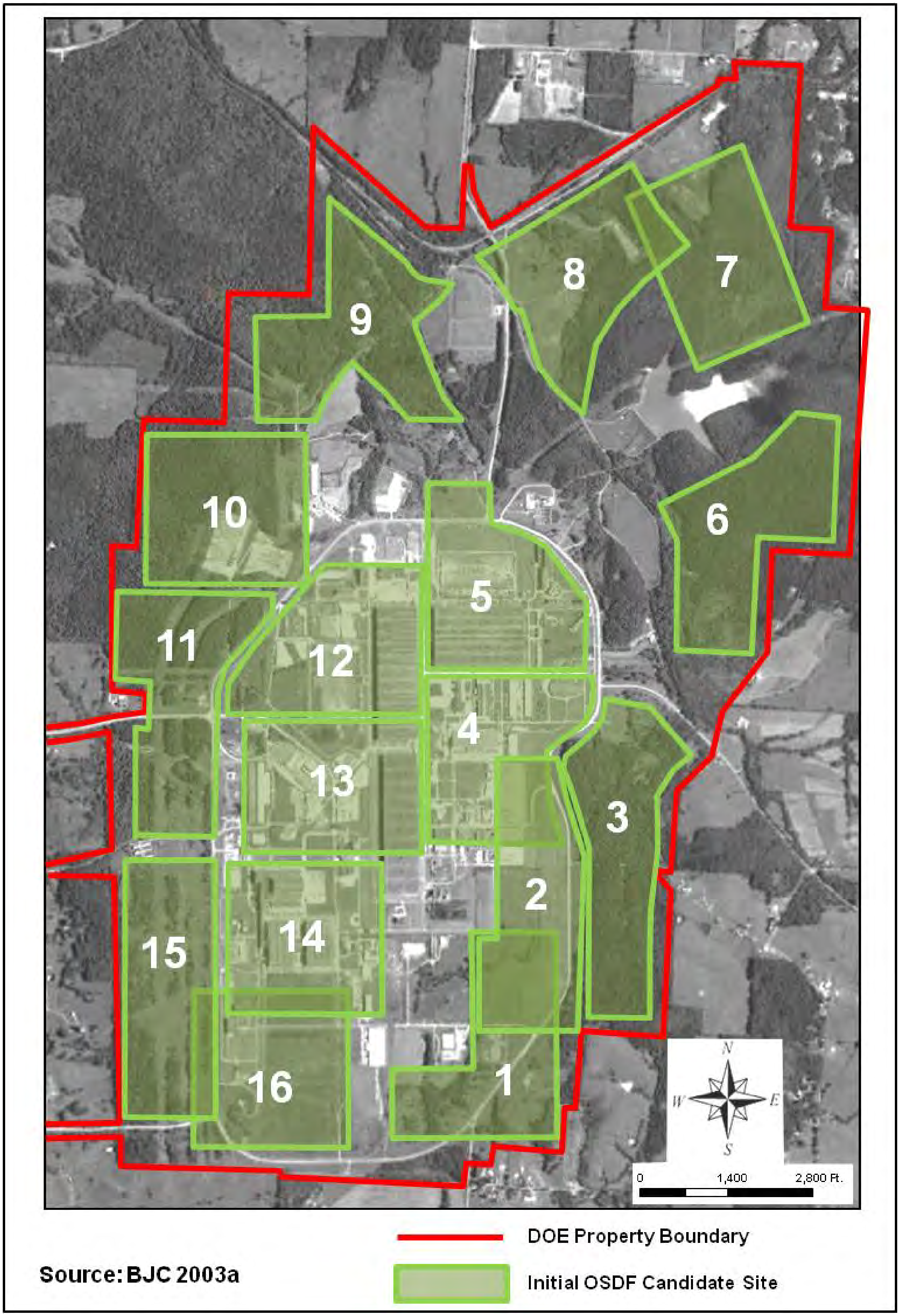
The study concluded that PORTS contains no prehistoric mounds 1 ft tall or taller, which is the vertical size range of nearly all such documented mounds in Ohio. If smaller or more deflated mounds are present on PORTS, they are not detectable using LiDAR data or visual examination for topographic features.

In 1996 and 1997, an architectural survey of the PORTS plant was conducted. During this survey, 196 architectural properties were identified at 160 architectural locations throughout constructed areas of the PORTS Facility. These properties consisted of various buildings, facilities, and structures. Based on the results of this survey, DOE prepared a National Historic Preservation Act (Section 110) survey report on the identified architectural resources and submitted this report to the Ohio Historic Preservation Office (OHPO) for review and approval (DOE 2011). The OHPO accepted the final report in March 2011.

D.1.2 HISTORICAL OSDC SITING STUDY RESULTS

DOE completed a preliminary assessment of the volumes, types, and forms of waste that would be generated from plant cleanup activities, which they continue to refine. An identification and screening report (Bechtel Jacobs Company LLC [BJC] 2003a) was prepared to identify candidate locations for a potential OSDC. This report considered a potential OSDC that would consist of an above-grade, Resource Conservation and Recovery Act of 1976 (as amended) (RCRA)-compliant earthen disposal cell with a capacity for 4 million cy of waste (based on preliminary estimates in the waste volume/characteristics inventory [BJC 2003b]) and a footprint of 150 acres for landfill, buffer, and support facilities. The current conceptual design is considering a potential OSDC with a capacity of up to 5 million cy, which could contain most D&D waste plus potential waste from environmental remediation.

Sixteen candidate locations were initially identified throughout the DOE property (Figure D.1). These locations met the preliminary siting requirements and could reasonably be considered acceptable areas for placement of a potential OSDC (BJC 2003a). To be considered an initial candidate location, the area had to be located entirely within DOE-owned property, contain at least 150 contiguous acres, and not be technically or administratively impracticable or cost prohibitive. The 16 potential locations were identified and screened against individual criteria categorized as threshold, modifying, or final criteria.



Source: BJC 2003a

Figure D.1. Initial Candidate Locations for a Potential On-Site Waste Disposal Cell at PORTS

D.1.3 STUDY AREAS CONSIDERED IN THE RI/FS

The results of the historical screening were reviewed to determine the most suitable study areas for further evaluation in an RI/FS. Beginning in early 2011, the RI/FS project team began discussions with Ohio EPA regarding the most favorable location for a potential OSDC. The original site 2 and modified site 5 were retained for further evaluation. Sites 3 and 8 were also added for consideration because of favorable underlying geology and distance to groundwater. Site 3 was originally screened out because of its location along a ridge and topographic relief of 135 ft, which requires extensive earthwork to prepare the location for a potential OSDC. However, being located along a ridge underlain by shale provides a favorable hydrogeologic condition when combined with a potential depth to groundwater beneath the cell liner of 50 ft or greater. At the time, only one monitoring well was near this location, and the measured depth to groundwater was approximately 80 ft below the ground surface. These candidate locations, sites 2, 5, 3, and 8 (Figure D.2), were subsequently renamed for this RI/FS as Study Areas A, B, C, and D, respectively, as a means to differentiate them from the previous studies.

The following sections provide additional details for consideration with regard to these four study areas. Each study area is larger than any potential footprint of a potential OSDC. Each study area description provides a summary of the geology and hydrogeology required by *OAC* 3745-27-06(C)(3). Most of the geologic and hydrogeologic information for these areas is derived from the RCRA Facility Investigation reports completed for each quadrant (DOE 1996a, 1996b, 1996c, 1996d).

D.2 DESCRIPTION OF STUDY AREA A

Study Area A is located in the southeastern portion of the PORTS reservation. It has low to moderate topographic relief (110 ft) with topography ranging from 660 to 770 ft above mean sea level (AMSL) (Figure D.3). Study Area A has only been marginally impacted by plant operations. The only major surface structures within the area include an abandoned airstrip, parking areas, and a portion of Perimeter Road (approximately 3,800 ft) that lies along the eastern and southeastern edges of the study area. Study Area A does not contain any buildings or structures located in a land-use conflict area or scheduled for D&D, reindustrialization and reuse, or future redevelopment infrastructure. Study Area A offers engineering options such as using the existing landscape as part of the design for a potential OSDC by building the cell into the hillside and blending it with the topography.

Study Area A is in close proximity to existing utilities, which is beneficial for construction and operation of a potential OSDC. However, this area contains approximately 4,800 ft of natural gas pipeline that would need to be relocated if it were selected for a potential OSDC. This area is relatively close to the East and South Access Roads, but a portion of Perimeter Road would need to be relocated if a potential OSDC were constructed here.

Land use within Study Area A is primarily managed grassland and forest. The only developed areas are Perimeter Road, which runs north-south through the approximate center of the area, the south half of the large X-206A Parking Lot, and part of its connector road, which intersects Perimeter Road. The managed grassland is around the parking lot and roads in the central and western portions of the study area. Upland forest occupies the entire eastern portion of Study Area A.

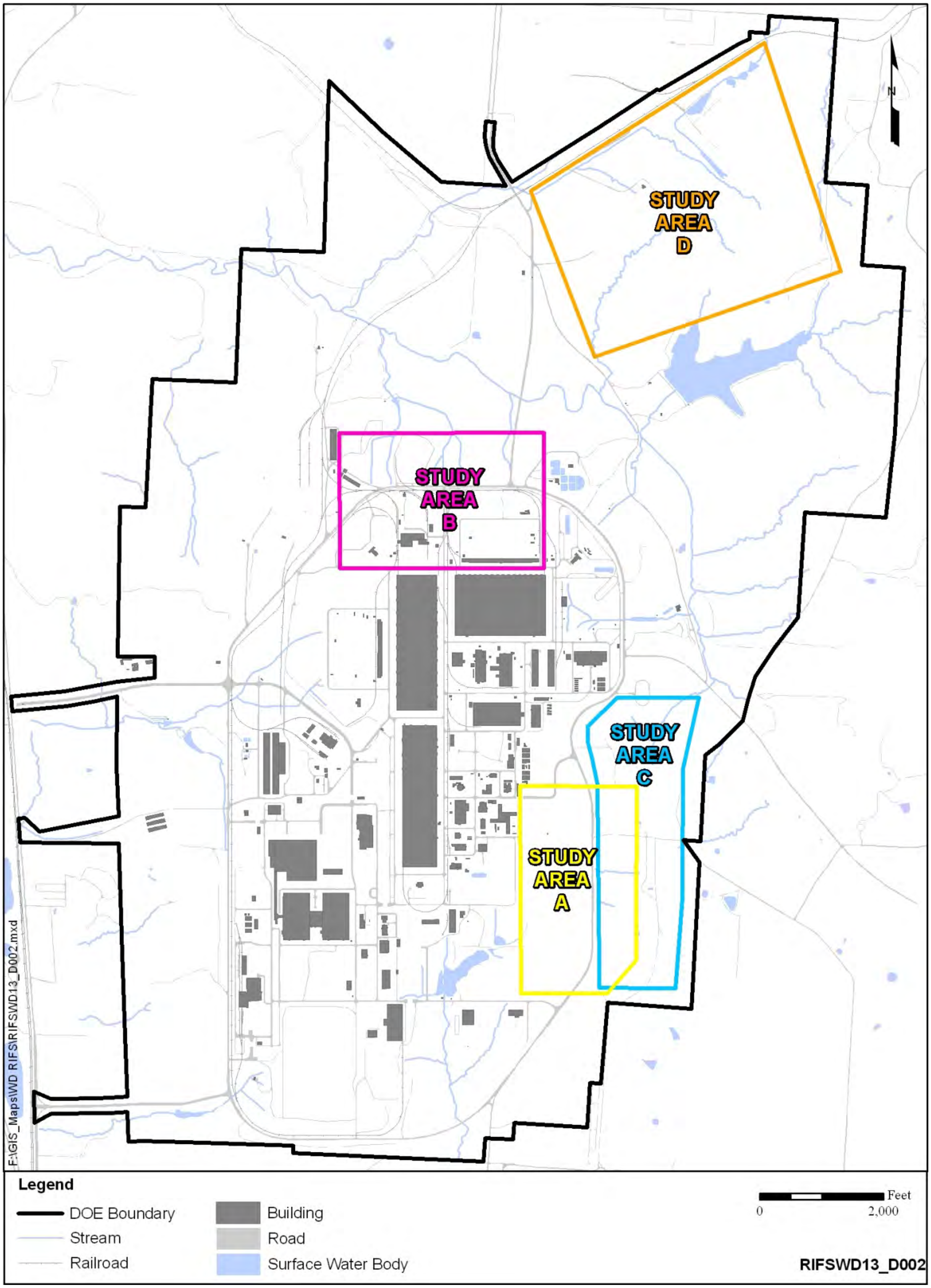


Figure D.2. Four Study Areas Being Evaluated for a Potential On-Site Waste Cell at PORTS

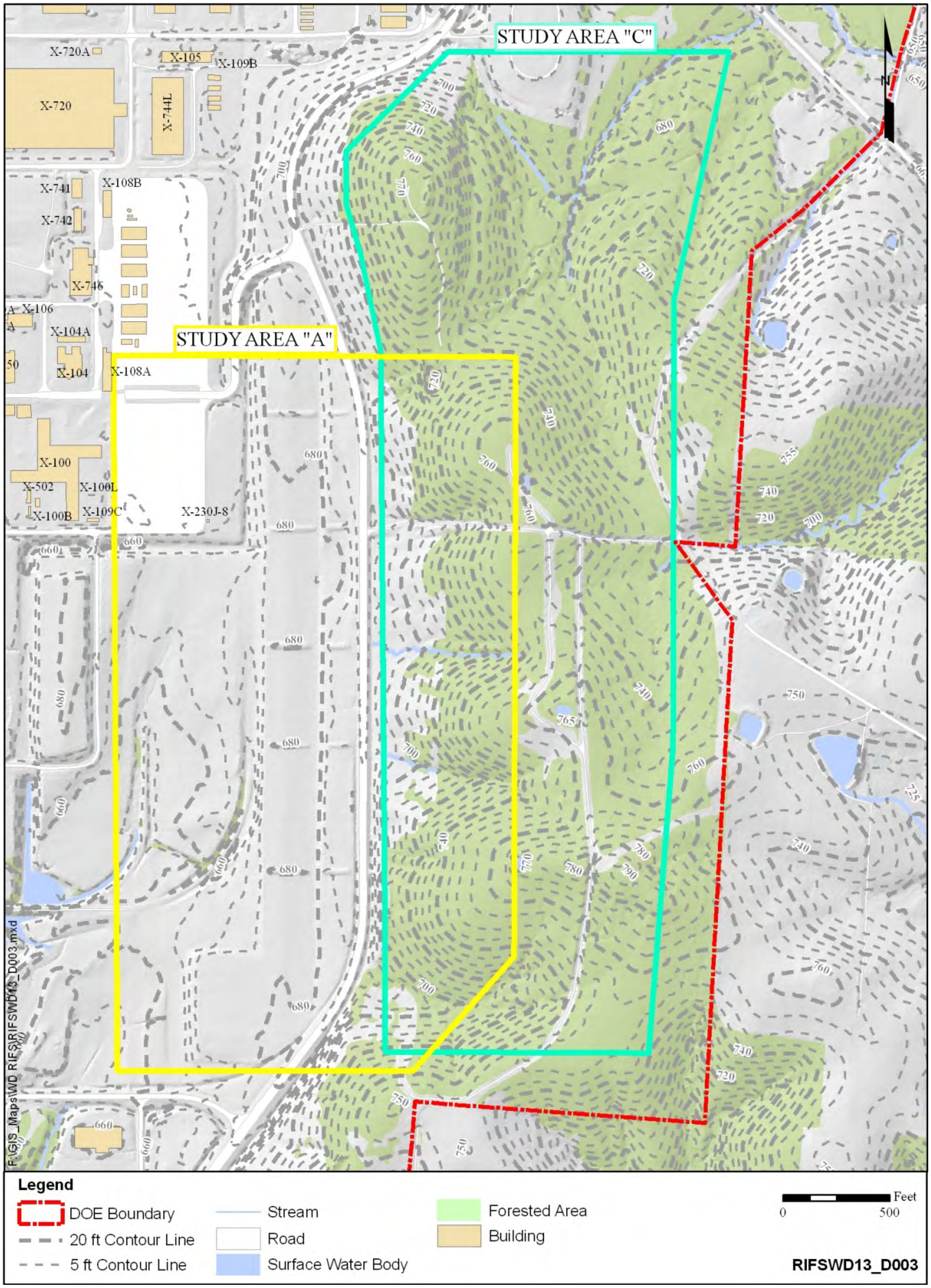


Figure D.3. Topography of Study Areas A and C at PORTS

D.2.1 GEOLOGY, HYDROGEOLOGY, AND SOILS

Study Area A lies on the eastern edge of the ancestral Portsmouth River valley. Stratigraphic units from youngest to oldest in age include the Quaternary Teays Formation (Minford Member/Gallia Member) unconformably overlying the Mississippian to Upper Devonian Cuyahoga Formation, Sunbury shale, Berea sandstone, and Bedford shale.

The Teays Formation is a 30- to 40-ft-thick unconsolidated unit consisting of fluvial Gallia sand and gravel overlain by Minford clay and silt. These units were deposited in an erosional valley cut by the ancestral Portsmouth River during the Pleistocene Epoch. The Gallia averages less than 5 ft in thickness and is characterized as reddish-brown, clayey, poorly-sorted, medium-to-coarse sand and gravel. The Minford consists of two units with a gradational contact. The upper unit is predominantly silty clay with some very fine-grained sand, and the lower silt unit is composed of clayey silt and very fine to fine-grained sand. Geotechnically, the Minford consists primarily of overconsolidated lean clays and silts (Law Engineering 1978). This overconsolidation possibly resulted from the weight of perhaps as much as 200 ft of similar material previously overlying the existing deposits. A summary of the Atterberg limits from samples collected within and near Study Area A (211 samples from 27 soil borings) is shown in Figure D.4. This plot is very similar to the one for samples collected from the Minford in the southwestern portion of PORTS near the centrifuge plant and indicates the geotechnical properties of the Minford are likely similar across the plant. The plastic limits of the clays are relatively constant with depth and average about 20 percent. As expected of highly overconsolidated soils, the Minford materials are quite strong (Law Engineering 1978).

Figure D.5 shows the locations of geologic cross sections for the study areas. Figure D.6 shows the configuration of the top of the bedrock surface within Study Area A and clearly indicates the edge of the ancestral valley against the higher ridge on the eastern edge of Study Area A. The depth to bedrock varies from less than 10 ft on the eastern portion of the study area to greater than 40 ft in the western half of the area. The Teays Formation directly overlies the Sunbury shale west of Perimeter Road and the Cuyahoga Formation east of Perimeter Road.

The topographic ridge in the eastern one-third of the study area is underlain by the Cuyahoga Formation. Thickness of the Cuyahoga Formation varies from 0 ft where it has been removed by erosion to approximately 140 ft on the extreme eastern edge of Study Area A. The Cuyahoga Formation (a moderately hard, thinly laminated shale with sandstone laminations) is then underlain by the Sunbury shale, which is approximately 20 to 25 ft thick. The Berea sandstone, with an average thickness of approximately 35 ft in the PORTS area, lies beneath the Sunbury shale. The Berea is composed of a light gray, hard, thickly bedded, fine-grained sandstone with thin shale laminations. The bedrock formations dip gently to the east-southeast at approximately 30 ft/mile. Stratigraphic relationships are shown in Figure D.7.

The groundwater flow system at Study Area A includes the aquifers consisting of the unconsolidated Gallia sand and gravel and the Berea sandstone, along with the aquitards of Cuyahoga/Sunbury shale, Bedford shale, and unconsolidated Minford clay and silt. The basal portion of the Minford is generally grouped with the Gallia to form the uppermost aquifer and primary water-bearing unit at PORTS.

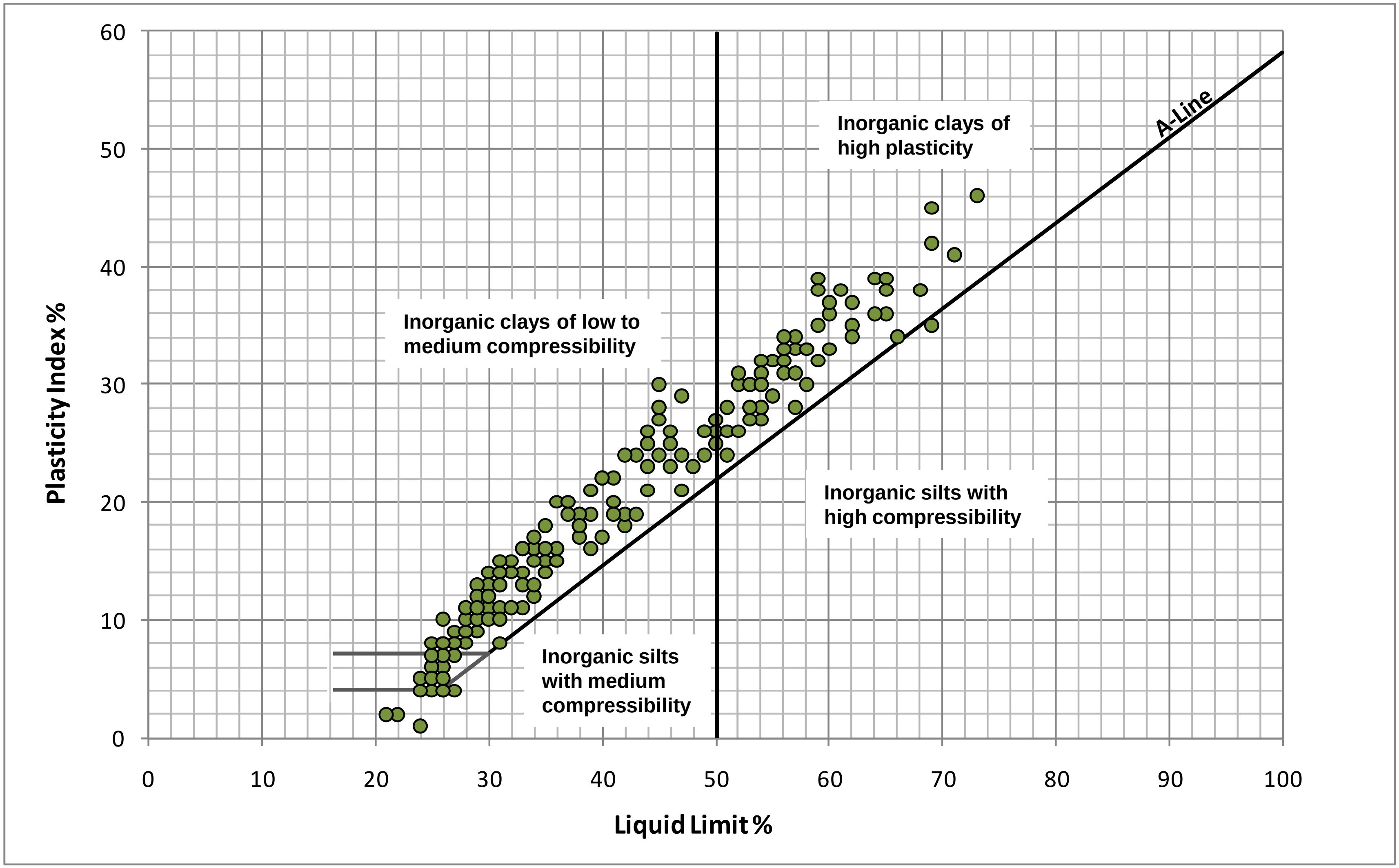


Figure D.4. Atterberg Limits of the Minford Member in Study Area A at PORTS

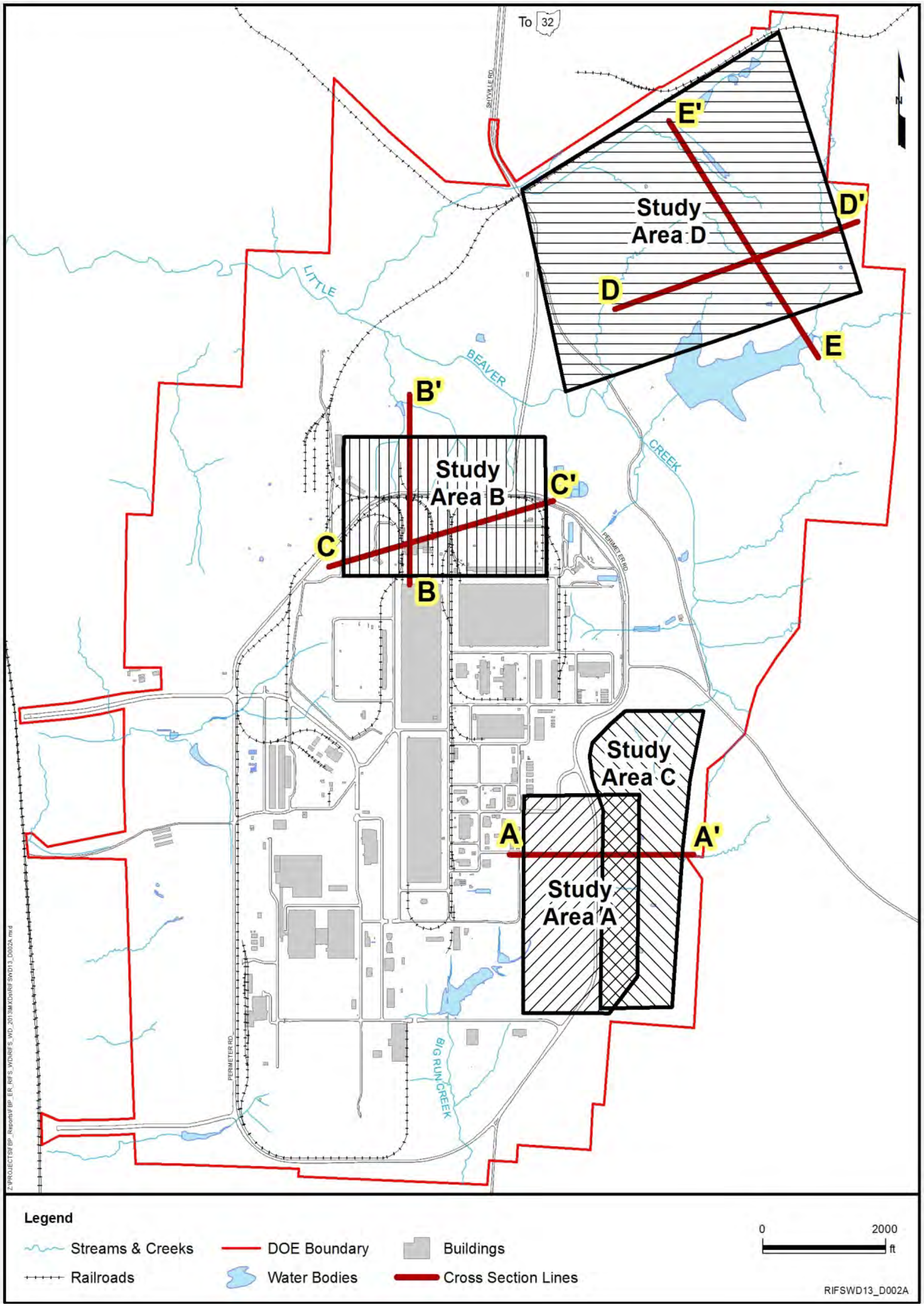


Figure D.5. Geologic Cross-section Locations

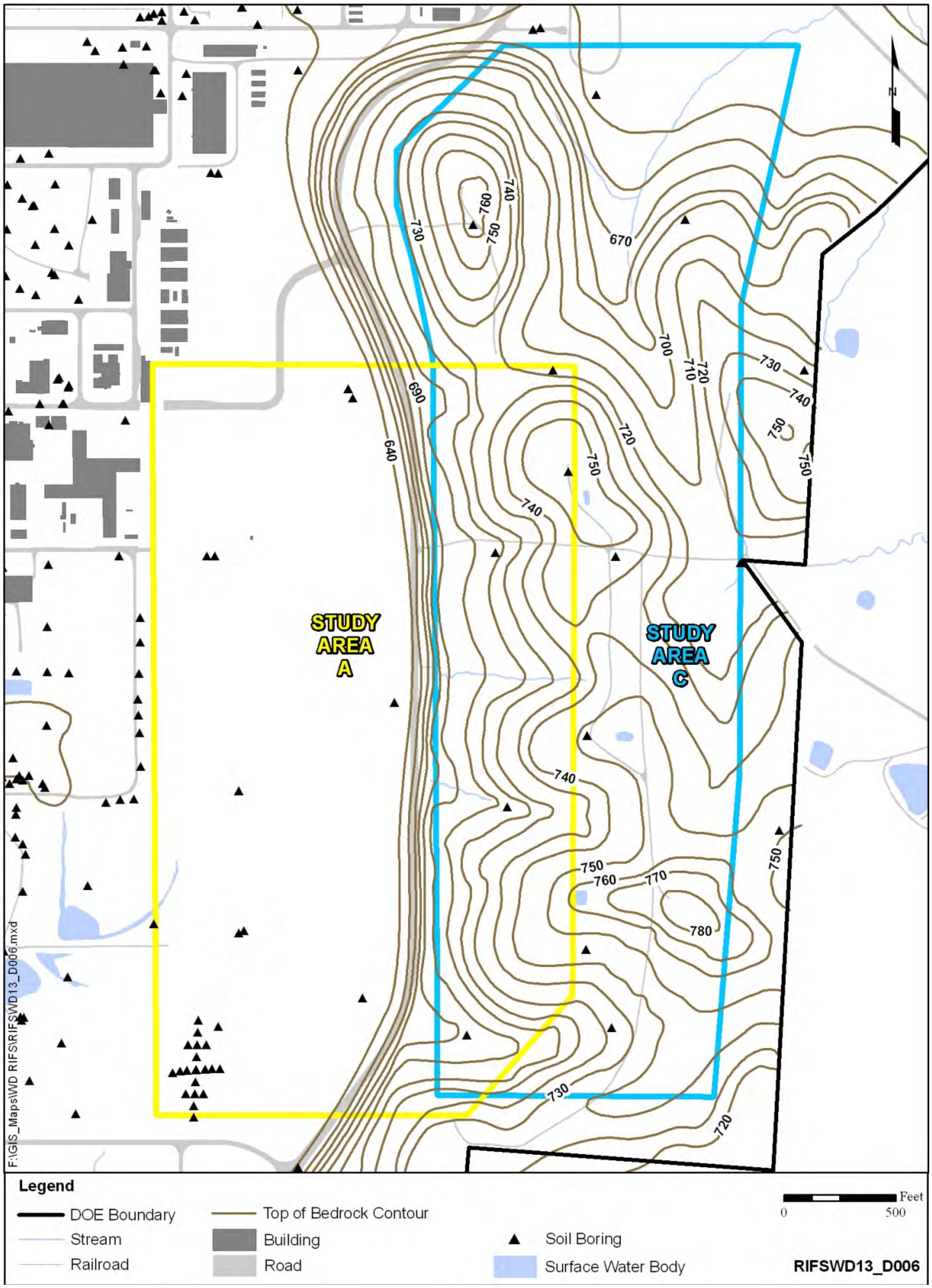


Figure D.6. Top of Bedrock in Study Areas A and C at PORTS

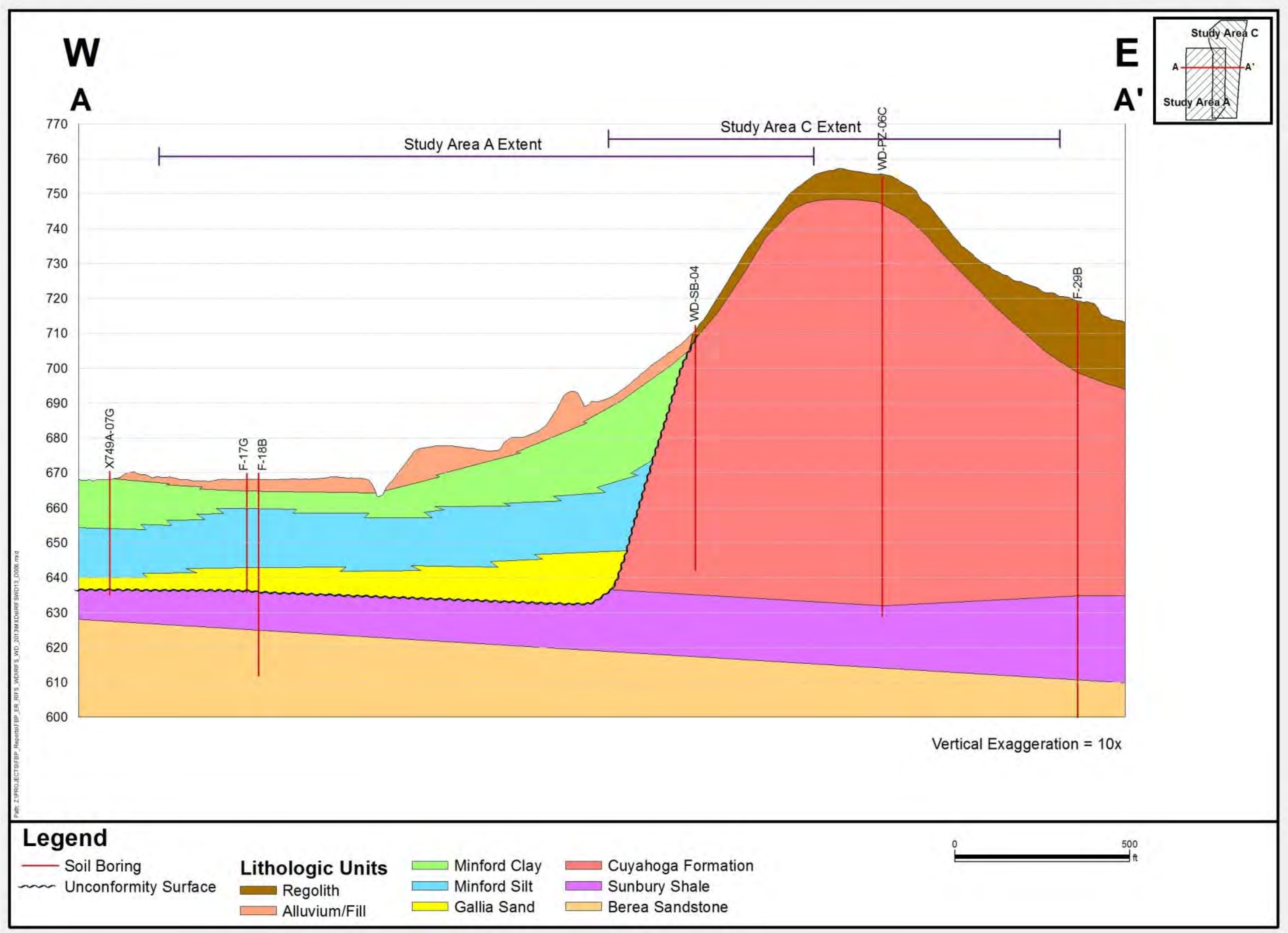


Figure D.7. Geologic Cross Section for Study Areas A and C at PORTS

Groundwater recharge and discharge areas at PORTS include both natural and man-made recharge and discharge areas. Natural recharge to the groundwater flow system comes mainly from precipitation, although land use and the presence of thick upper Minford clay deposits and the Sunbury shale effectively reduce recharge to underlying units. Discharge of groundwater to the surface occurs primarily along streams that transect the plant. Natural recharge to the central portion of the plant is approximately 4 to 7 in./year whereas recharge in the uplands (areas underlain by shale bedrock) is 2 to 4 in./year (ODNR 2003). Along the eastern portion of Study Area A, the portion underlain by the Cuyahoga Formation, shallow groundwater may be found in the lower portion of the regolith above the more impermeable bedrock. Regolith includes soil, residuum, and colluvium overlying the Cuyahoga Formation in the upland areas at PORTS. A couple of shallow-dug wells were found just to the east of Study Area A, and the depth to water in one of those wells was approximately 14 ft. (The other well, with a total depth of almost 13 ft, was dry.)

Groundwater flow within the Gallia at PORTS is generally divided into four separate flow regions, or quadrants. Study Area A lies within the southern portion of PORTS. The direction of groundwater flow in this area is controlled by the presence of surface drainages (Big Run Creek and the Southwest Drainage Ditch), the storm sewer system, and bedrock topography. In general, groundwater in the Gallia at Study Area A flows from north to south (Figure D.8) toward the X-230K Holding Pond and eventually discharges into Big Run Creek. Figure D.8 is modified from the 2012 annual groundwater report for PORTS (DOE 2013), and it shows the third quarter 2012 potentiometric surface. The depth to the Gallia potentiometric surface ranges from approximately 25 to 30 ft at WD-PZ01G and WD-PZ02G to 5 ft at WD-PZ03G, which lies at a lower elevation. The water table within the Minford generally lies 10 to 15 ft below ground surface. The hydraulic gradient is low (ranging from approximately 0.002 ft/ft to 0.005 ft/ft) because of the flat valley floor and the presence of thicker, more permeable Gallia deposits. The vertical hydraulic gradient from the Gallia to the Berea is steep, ranging from approximately 0.4 ft/ft to 0.6 ft/ft with the potentiometric surface of the Berea approximately 10 to 20 ft below that of the Gallia at Study Area A. The vertical hydraulic gradient between the Gallia and Berea decreases to the west of Study Area A as the Sunbury shale thins.

Groundwater flow in the Berea is northwest to southeast with a gradient varying from approximately 0.004 to 0.007 ft/ft (Figure D.9). Figure D.9 represents the potentiometric surface for the third quarter of 2012 (DOE 2013). The gradient in the Berea is slightly greater than the horizontal gradient observed in the Gallia. While groundwater yield in the Berea is typically lower than the yield in the Gallia, the Berea is a widespread unit and is considered to be a regional aquifer. The potentiometric surface of the Gallia fluctuates 5 ft or less on a seasonal basis with groundwater flow direction remaining essentially the same (DOE 2013). Seasonal fluctuation in the groundwater levels for the Berea are similar to the Gallia where the two aquifers are interconnected, but the Berea potentiometric surface fluctuates less on a seasonal basis where it is confined by the Sunbury Shale.

The hydraulic properties of the hydrogeologic units have been defined during previous investigations at the facility. The average hydraulic conductivity for the Minford clay is 2.3×10^{-4} ft/day, and the average hydraulic conductivity for the Minford silt is 4.3×10^{-3} ft/day. These values are based on numerous laboratory tests (DOE 1996a). The vertical hydraulic conductivities of Minford clay and Minford silt are approximately an order of magnitude lower than their horizontal hydraulic conductivities. Minford hydraulic conductivity determined during the geotechnical investigation of the centrifuge site ranged from 3.12×10^{-2} ft/day for the silty facies to 2.5×10^{-5} ft/day for the clay facies (Law Engineering 1978).

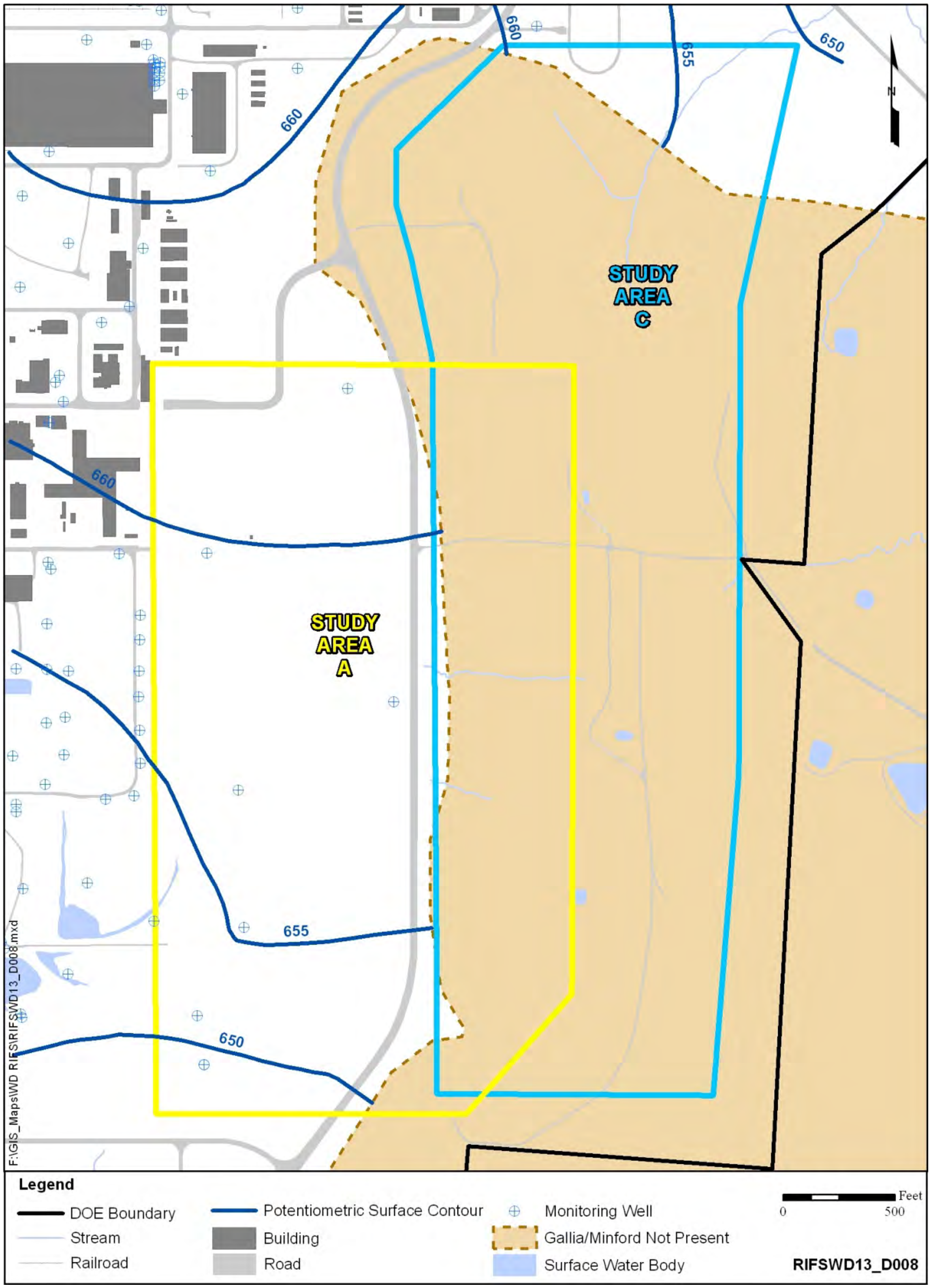


Figure D.8. Potentiometric Map of the Gallia in Study Areas A and C at PORTS

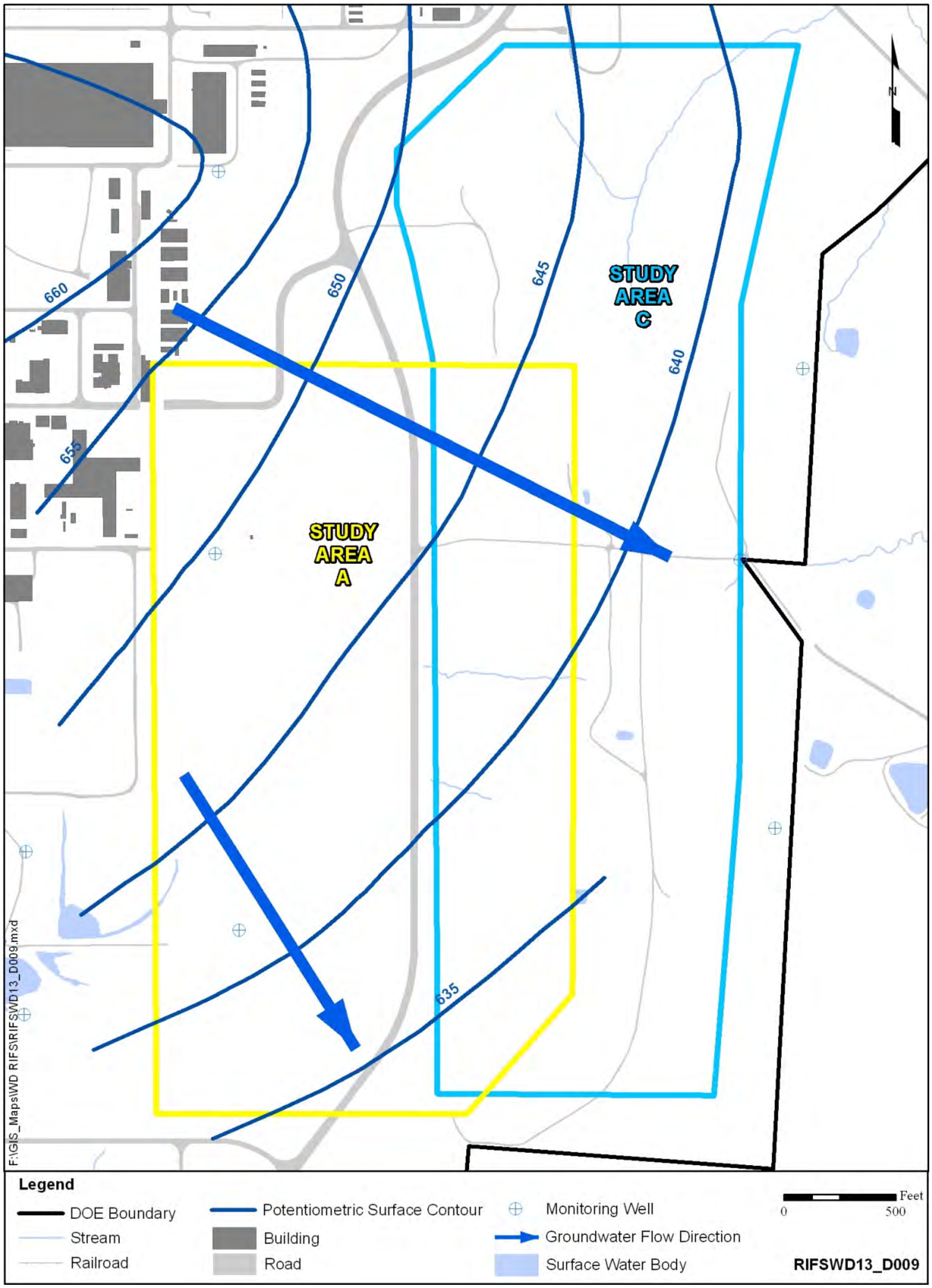


Figure D.9. Potentiometric Map of the Berea Sandstone in Study Areas A and C at PORTS

The hydraulic conductivity determined by single-well aquifer tests of the Gallia ranges from 0.11 to 150 ft/day with a mean value of 3.4 ft/day (DOE 1996a). Hydraulic conductivity tests on Gallia material from the gaseous centrifuge site averaged approximately 0.42 ft/day (Law Engineering 1978). While typically referred to as a sand and gravel unit, the Gallia has been reported to have an average clay content of 30 percent (Law Engineering 1978).

The estimated hydraulic conductivity of the Sunbury shale is based on numerical groundwater modeling with ranges from 1.6×10^{-4} to 9.6×10^{-4} ft/day (DOE 2009). The vertical hydraulic conductivity of the Sunbury shale is assumed to be an order of magnitude lower than its horizontal hydraulic conductivity. (Samples collected from Study Areas C and D provided an average vertical hydraulic conductivity of 1.2×10^{-5} ft/day.) Permeability testing on samples from the deeper Bedford shale yielded an average value of approximately 8.2×10^{-2} ft/day (Law Engineering 1978). The hydraulic conductivity determined by single-well aquifer tests of the Berea sandstone ranges from 4.5×10^{-3} to 15.0 ft/day with a mean value of 0.16 ft/day. The higher hydraulic conductivity tends to occur in areas where the Sunbury shale is absent.

In areas where stress-relief fractures occur in the Cuyahoga Formation, some of the groundwater moves downward from the regolith to provide recharge to the deeper bedrock system. (In test pits, the more brittle sandstone layers were observed to have vertical fractures that did not extend into the overlying or underlying shale.) In a previous test trench located approximately 1,400 ft south of Study Area A, a few joints were visible in the weathered shale. The joints had preferred strikes of about north 50° west, and joint spacing varied from approximately 5 ft to greater than 25 ft. A continuous 1-ft-thick sandstone at approximately 672 ft AMSL was described as highly fractured. Groundwater that migrates into the fractures eventually migrates laterally along the joints or sandstone layers and likely emerges as ephemeral seeps along the hillside downgradient from the recharge areas.

Figure D.10 is taken from a pollution potential map of Pike County (ODNR 2003). The pollution potential map ranks areas with respect to relative vulnerability to contamination of underlying groundwater based on geologic parameters (such as the higher the number, the greater potential for groundwater impacts). This figure indicates that the portion of Study Area A underlain by the Minford and Gallia has a higher relative pollution potential (relative pollution potential of 122) than the eastern portion of the study area, which is underlain by shale (relative pollution potential ranging from 95 to 103). This would be expected because the Gallia does not exist in the eastern portion of Study Area A, and the permeability of the shale bedrock reduces the overall recharge in that area. The permeability of the shale would also provide a longer travel time if a contaminant were present.

The most relevant potential contaminant migration pathway from an engineered disposal facility is by water infiltration from the waste, through the unsaturated zone, and to the groundwater system beneath the facility. Many physical, chemical, and biological processes influence the contaminant fate and transport in these zones. The major processes include advection, hydrodynamic dispersion, retardation, biodegradation, and reactive transformation. For unsaturated and saturated zones at PORTS, the fate and transport of the contaminants would be primarily controlled by the retardation process. The retardation factor (R_f) for a particular chemical species is the ratio of the rate of contaminant movement to the rate of groundwater movement. R_f is a bulk property for the entire system, combining all the effects of solution chemistry, soil properties, and chemical reactions. Both ion exchange and sorption are the processes that tend to remove specific species from solution and retard their migration through the subsurface. Sorption refers to the process where a contaminant species leaves the solution and is adsorbed onto the surface of a solid, resulting in an increase in the concentration of the contaminant in the soil and a relatively lower concentration in the groundwater. Ion exchange is important in clay minerals that are composed of layered sheets, which can have interlayered ionic species such as Na^+, Ca^{2+}, K^+, and H_2O.

These can exchange with many types of metal ions. The R_f is defined as:

$$R_f = 1 + K_d \frac{\rho_b}{n_e}$$

where: ρ_b = bulk density of the soil (g/cm^3)
n_e = effective porosity of aquifer matrix (ratio)
K_d = soil/water partition coefficient (g/mL).

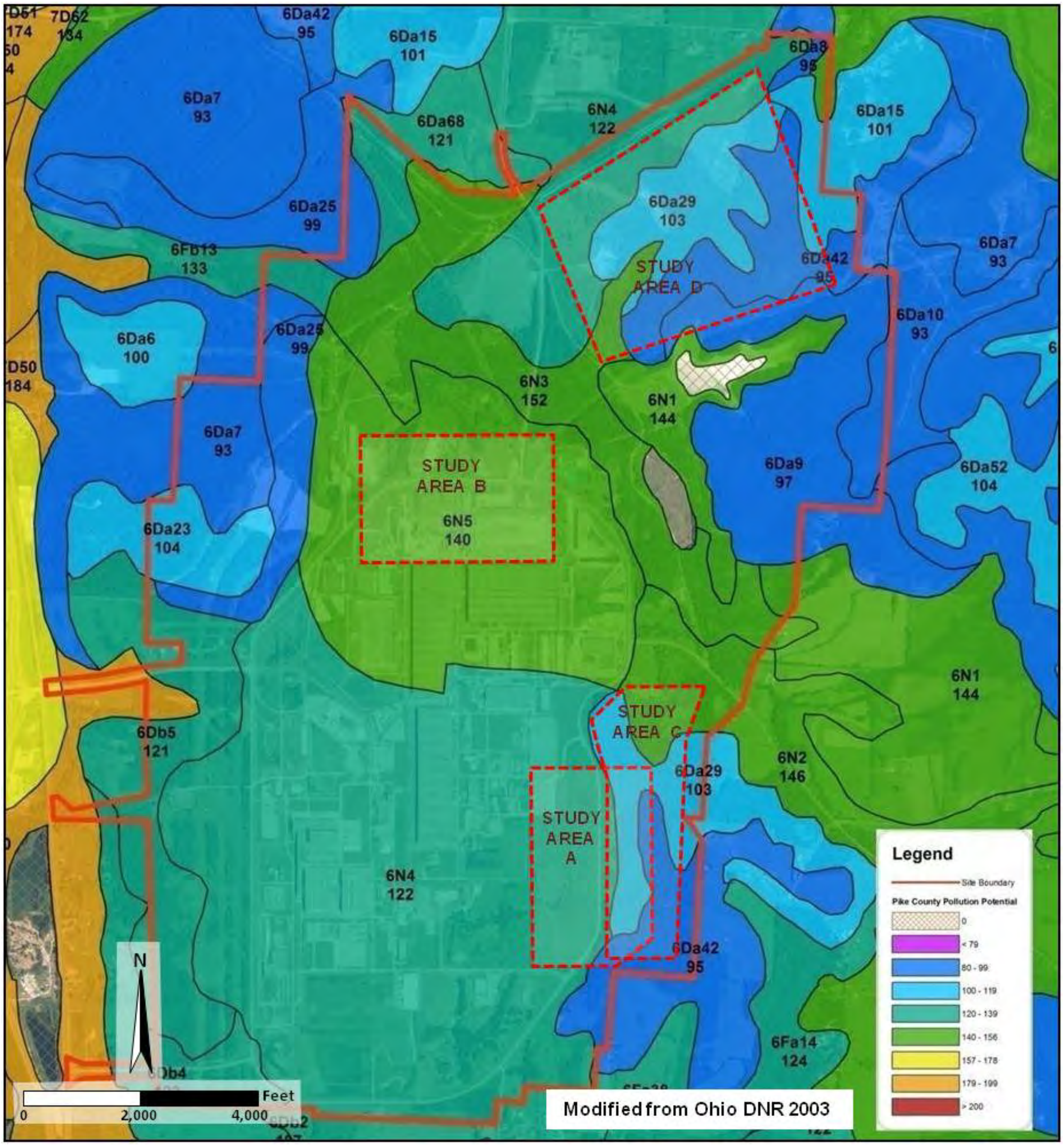


Figure D.10. Pollution Potential Map for the Four Study Areas at PORTS

For a given mass of contaminant, the fraction available for transport with the groundwater is influenced by the adsorptive properties of the soil matrix. The soil/water partition coefficient (K_d) is very important for estimating the potential for adsorption of dissolved contaminants in contact with subsurface media. Because of the retardation process, the movement of the contaminant is generally slow in the unsaturated and groundwater zones for Study Area A where a lot of clayey soil exists for the two zones. With regard to the same contaminant, the K_d for a clayey soil is generally higher than that for a sandy soil.

Contaminant travel times (time at which a constituent reached its peak concentration or dose) were simulated for several constituents as part of the development of preliminary WAC modeling (DOE 2012). The modeling for preliminary WAC considered a potential OSDC with capacities to contain 1 million cy of waste and 3 million cy of waste. Travel times were calculated for constituents (including four inorganic, six organic, and six radionuclide constituents) migrating from the waste mass to specific locations, called points of assessment, downgradient from the conceptual OSDC locations. Table D.1 provides the modeling results for Study Area A. Three compounds (1,1-dichloroethene, methylene chloride, and trichloroethene) had modeled times of peak dose between approximately 600 and 825 years. Radiological constituents such as technetium-99 and uranium had travel times to peak dose of approximately 5,800 years and 47,000 years, respectively. Based on this modeling, most of the contaminants were estimated to migrate downward into the Gallia, then laterally to discharge into Big Run Creek (DOE 2012).

Table D.1. Time of Peak Dose for a Potential OSDC at Study Area A

	1,000,000 cy		3,000,000 cy	
SRC	On-Site POA (years)	DOE Boundary POA (years)	On-Site POA (years)	DOE Boundary POA (years)
Antimony	44,133	44,133	44,039	44,039
Arsenic	44,133	44,133	44,039	44,039
Barium	126,981	126,981	126,724	126,724
Chloroform	2,200	2,200	1,823	1,823
Chromium III	23,420	23,420	23,367	23,367
Cyanide	23,190	23,190	23,138	23,138
1,1-Dichloroethene	664	664	654	654
Methylene Chloride	608	608	599	599
n-Nitroso-di-N-propylamine	1,316	1,316	1,306	1,306
Aroclor 1232	39,070	39,070	38,986	38,986
Trichloroethene	822	822	812	812
Tc-99	5,846	5,846	5,845	5,845
U-234	38,812	38,812	39,076	39,076
U-235	47,202	47,202	46,876	46,876
U-238	47,202	47,202	46,876	46,876
Np-237	84,517	84,517	85,950	85,950
Pu-239	83,170	83,170	84,512	84,512

Source: DOE 2012

DOE = U.S. Department of Energy
POA = point of assessment
SRC = site-related contaminant

Based on the soil survey of Pike County, three soil types occur within the Study Area A boundary. The predominant soil type is Omulga silt loam (U.S. Department of Agriculture [USDA] 1990). Most of the area west of Perimeter Road is classified as Urban Land-Omulga complex with a 0 to 6 percent slope, which consists of urban land and a deep, nearly level, gently sloping, moderately well-drained Omulga soil in preglacial valleys. The soil in this area has been so disturbed by previous construction activities that assignment of specific soil series is not feasible.

The surface layer of Omulga silt loam is dark grayish-brown, friable, and approximately 10 in. thick. The subsoil is approximately 54 in. thick and is composed of three portions: (1) a yellow-brown, friable silt loam; (2) a fragipan (brittle, compacted subsurface soil) of yellow-brown, mottled, firm, and brittle silty clay loam; and (3) a yellow-brown, mottled, friable silt loam approximately 20 in. thick. Well developed soil horizons may not be present in areas inside Perimeter Road because of cut and fill operations related to plant construction.

Two soil series are present in Study Area A in the upland area east of Perimeter Road. The Rarden series consists of moderately deep, moderately well-drained, slowly permeable soils formed in acid, clayey shale residuum on ridgetops and hillsides. The Coolville series, nearer the top of the ridge, consists of deep, moderately well-drained soils formed in a thin silty mantle weathered from acid shale that has thin strata of siltstone.

D.2.2 SURFACE WATER RESOURCES

There are no perennial streams within or adjacent to Study Area A. The area lies within the headwater area of Big Run Creek. Big Run Creek is the small tributary of the Scioto River that drains the southern portion of the PORTS property. This stream primarily receives outfall effluent from the X-230K South Holding Pond, which is located immediately west of Study Area A, at its headwaters. Big Run Creek flows south-southwest from the area for approximately 4 miles until it intersects the Scioto River. The substrates of Big Run Creek are predominantly gravel and cobble, and the stream channel remains unmodified. Because of the small stream size and high gradient, deep pools are absent (Ohio EPA 1993).

D.2.3 ECOLOGICAL RESOURCES

Study Area A contains forest and managed grasslands that are interspersed with man-made features such as roads and parking areas. Study Area A is primarily managed grassland with a long north-south strip of forest on its east side. In the western portion of Study Area A, managed grassland is dominant. Within this managed grassland, trees line the banks of several short drainage ditches that flow out of Study Area A and into the X-230K Holding Pond. No jurisdictional wetlands or ecologically sensitive areas are located within Study Area A.

There are no endangered species habitat areas, endangered plant species, or exceptional warmwater habitat streams with Study Area A.

D.2.4 CULTURAL RESOURCES

None of the archaeological sites identified at PORTS are located within Study Area A. Also, no architectural resources are present in Study Area A.

D.3 DESCRIPTION OF STUDY AREA B

Study Area B was selected for evaluation primarily because it represents a location impacted by plant operations. This area has low to moderate topographic relief of less than 65 ft with elevations ranging from approximately 635 to 700 ft AMSL (Figure D.11). The majority of the study area has a relief of less than 20 ft with elevations varying from 650 to 670 ft AMSL. This study area is easily accessible by road and railway and is in close proximity to existing utilities necessary for construction and operation of a potential OSDC. Major surface structures within the location include the X-344 facility, four electrical transmission towers, cylinder yards, and a portion of Perimeter Road (approximately 4,500 ft). The potential removal of these structures is part of a separate decision. The X-344 facility may be among the last facilities scheduled for D&D, which would impact construction of a potential OSDC.

Study Area B is the most developed of the four study areas, consisting mostly of man-made features and grassland. The man-made features include numerous buildings, roads, railroad tracks, and other facilities. Development is dense in the southern portion of Study Area B, which is south of Perimeter Road. The northern portion of Study Area B is primarily grassland with a few small stands of trees. Development in Study Area B consists of the X-745G-1/X-745G-2 Cylinder Storage Yard, X-747H Northwest Surplus Scrap Yard, and X-752 Warehouse. The X-206H Parking Lot is located in the south central portion of Study Area B.

D.3.1 GEOLOGY, HYDROGEOLOGY, AND SOILS

Study Area B lies near the center of the ancestral Portsmouth River valley. Stratigraphic units from youngest to oldest in age include the Quaternary Teays Formation (Minford Member/Gallia Member) unconformably overlying the Mississippian to Upper Devonian Sunbury shale, Berea sandstone, and Bedford shale.

The Teays Formation is a 30- to 40- ft-thick unconsolidated unit consisting of fluvial Gallia sand and gravel overlain by Minford clay and silt. The Gallia averages less than 5 ft in thickness and is characterized as reddish-brown, clayey, poorly-sorted, medium-to-coarse sand and gravel. The Gallia reportedly contains an average of 30 percent clay material (Law Engineering 1978). Within Study Area B, the Gallia ranges from 0 to less than 10 ft in thickness. The Minford consists of two units with a gradational contact. The upper unit is predominantly silty clay with some very fine-grained sand, and the lower silt unit is composed of clayey silt and very fine to fine-grained sand. Geotechnically, the Minford consists primarily of overconsolidated lean clays and silts (Law Engineering 1978).

The Gallia is not present in the east-central portion of Study Area B because the bedrock has a higher elevation. Figure D.12 shows the configuration of the top of the bedrock surface within Study Area B and demonstrates the higher bedrock in the eastern portion of the study area. The depth to bedrock varies from less than 20 ft on the eastern portion of the study area to greater than 30 ft in the western half of the area. The Teays Formation directly overlies the Sunbury shale across the eastern portion of the study area. However, the Sunbury has been removed by erosion along the western portion of the study area, and the Teays Formation directly overlies the Berea.

Stratigraphic relationships at Study Area B are shown in Figures D.13 and D.14, which present south-to-north and west-to-east cross sections, respectively. These cross sections illustrate the discontinuous nature of the Gallia across Study Area B and also the nature of the unconformity on the Sunbury and Berea. North of the study area, Little Beaver Creek has cut through the Berea sandstone into the underlying Bedford shale.

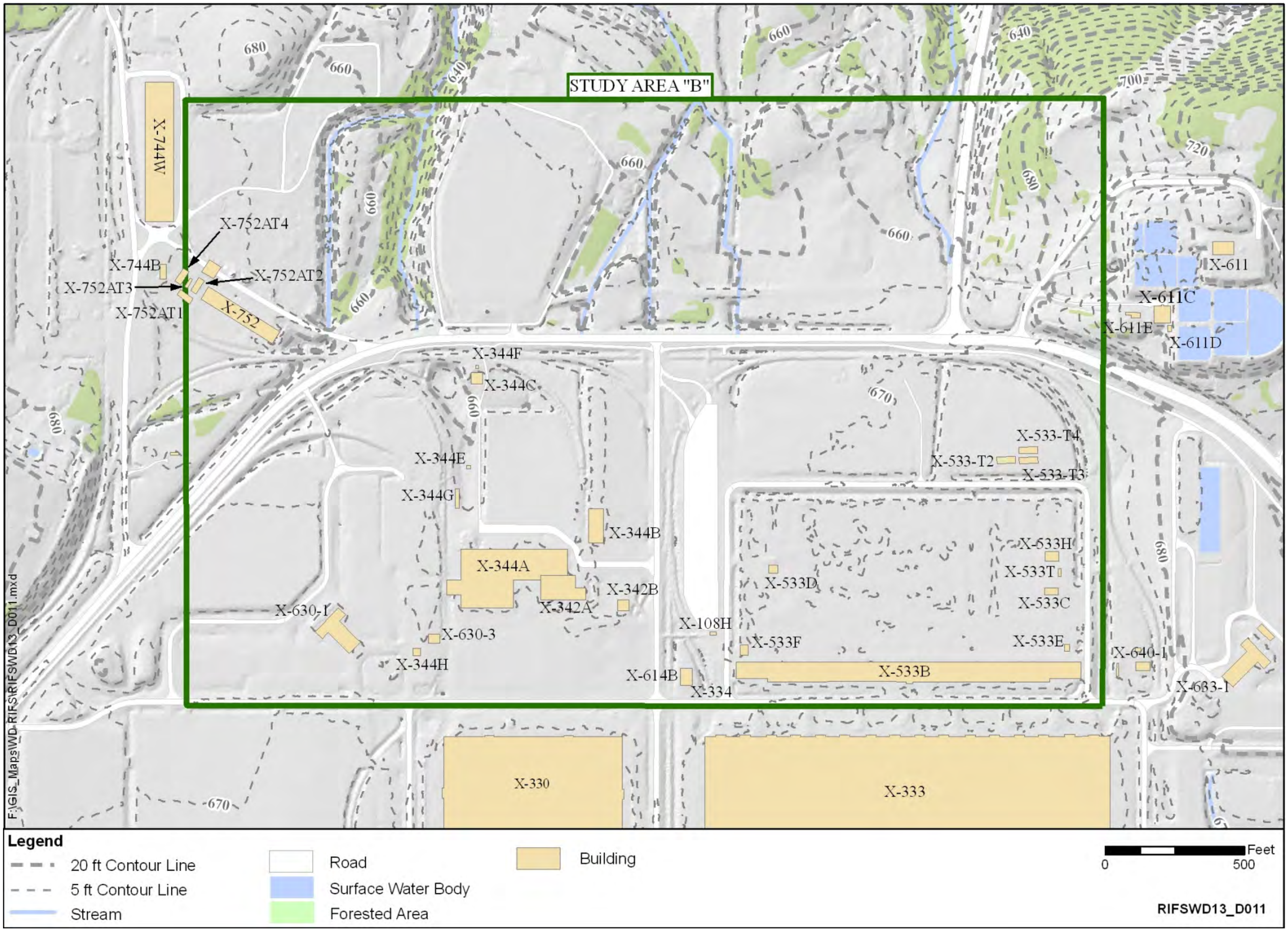


Figure D.11. Topography of Study Area B at PORTS

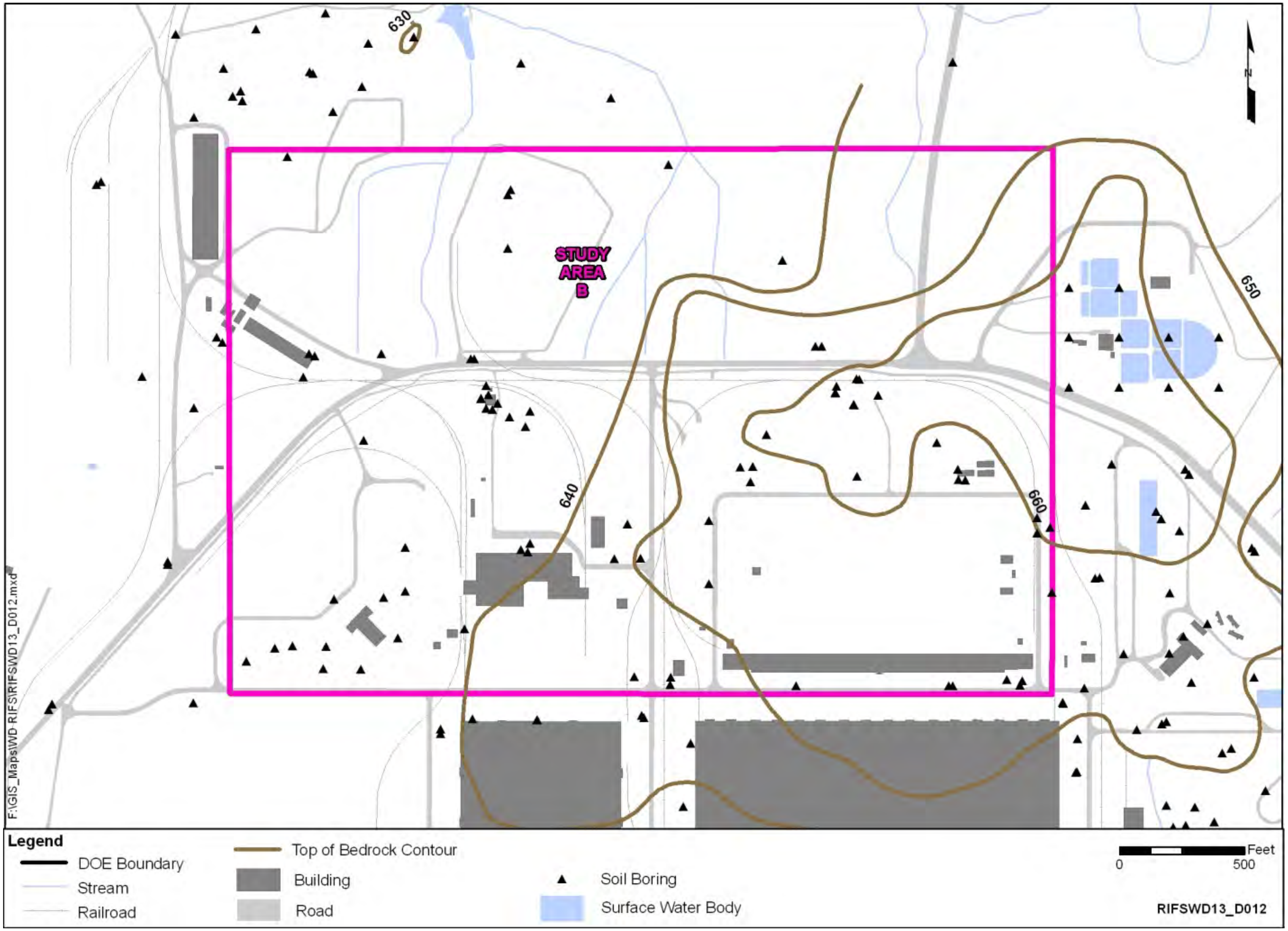


Figure D.12. Top of Bedrock in Study Area B at PORTS

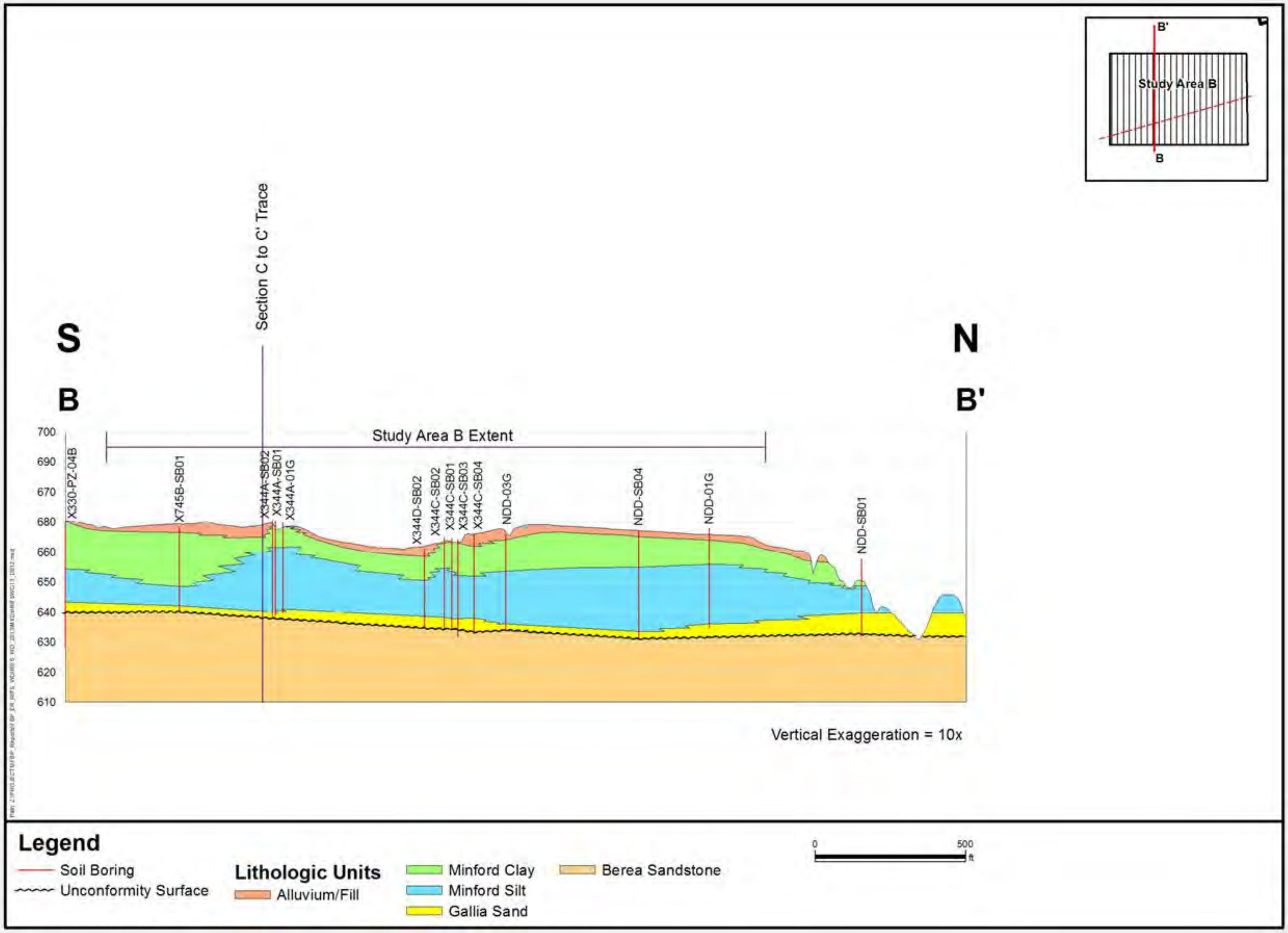


Figure D.13. South to North Geologic Cross Section of Study Area B at PORTS

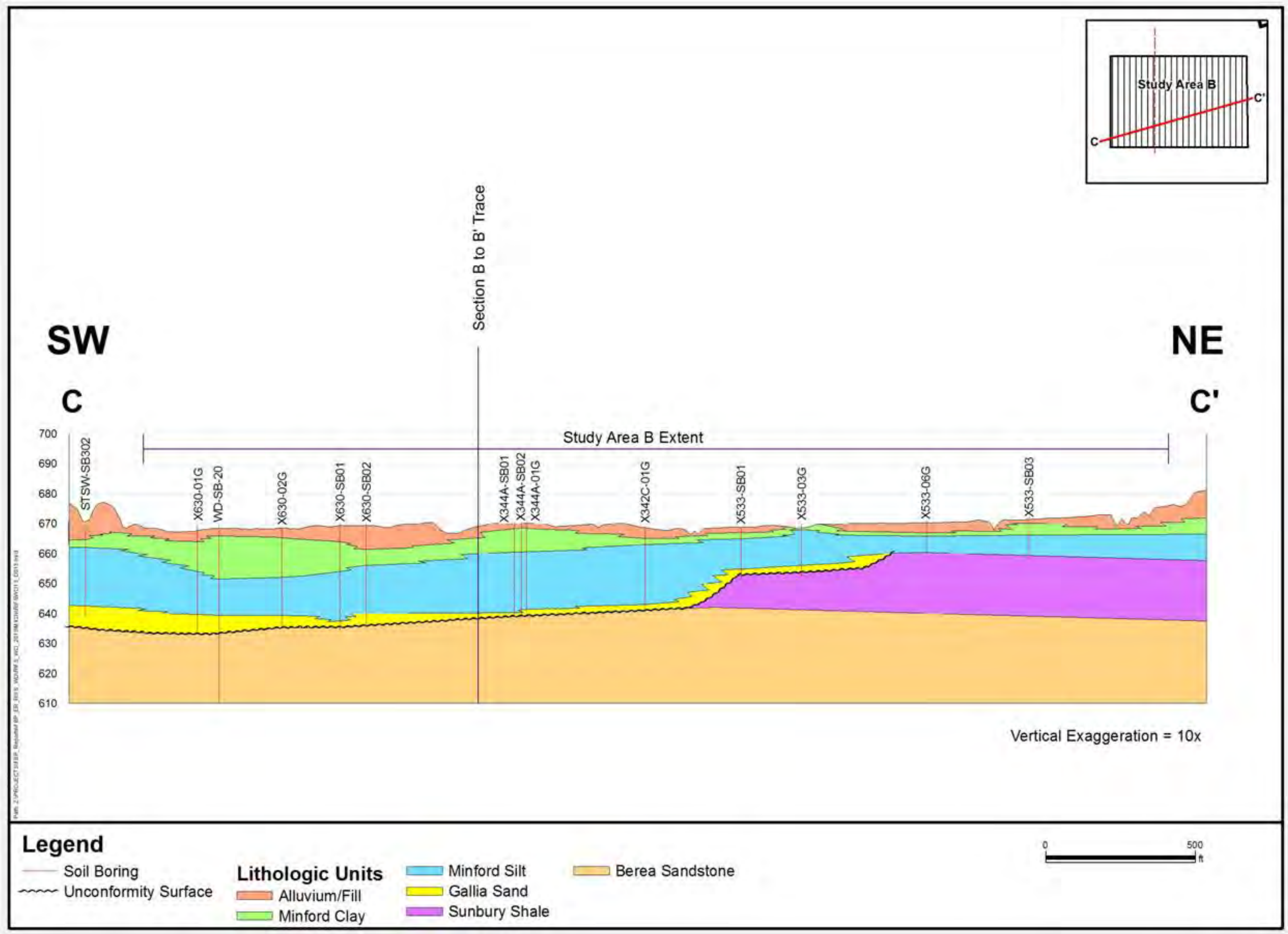


Figure D.14. West to East Geologic Cross Section of Study Area B at PORTS

The groundwater flow system at Study Area B includes the aquifers consisting of the unconsolidated Gallia sand and gravel and the Berea sandstone, along with the aquitards of Sunbury shale and unconsolidated Minford clay and silt. The basal portion of the Minford is generally grouped with the Gallia to form the uppermost aquifer and primary water-bearing unit within this study area. Groundwater flow in Study Area B is strongly controlled by the presence of surface drainages and bedrock highs (DOE 1996d). Little Beaver Creek is the surface water receptor for groundwater in both the Gallia and Berea in the area.

Groundwater flow in the Gallia (Figure D.15) is essentially parallel to that in the Berea (Figure D.16) with flow generally to the north towards Little Beaver Creek, and to a lesser extent, toward portions of the North Drainage Ditch. Both Figures D.15 and D.16 represent the potentiometric surfaces for the third quarter 2012 (DOE 2013). The depth to the Gallia potentiometric surface in Study Area B is approximately 8 to 15 ft below surface. Because the Berea underlies the Sunbury shale, groundwater flow in the Berea is unaffected by the bedrock high of the Cuyahoga Shale on the eastern end of the study area. The hydraulic gradient in the Gallia is low (ranging from approximately 0.01 ft/ft to 0.005 ft/ft) with the steeper gradients existing closer to the discharge areas. The downward vertical hydraulic gradient from the Gallia to the Berea is approximately 0.35 ft/ft in the area of the former X-533A Switchyard, but overall in and around the study area, the potentiometric surfaces of the Gallia and Berea are at similar levels. Upward gradients from the Berea into the Gallia are observed where the Sunbury shale is absent (DOE 1996d) and closer to Little Beaver Creek. Groundwater flow in the Berea is north to northeast towards Little Beaver Creek with a gradient averaging approximately 0.01 ft/ft (Figure D.16). The seasonal fluctuations of the potentiometric surfaces for both the Gallia and the Berea are less than 5 ft.

The pollution potential map (Figure D.10) indicates that Study Area B, which (1) is underlain by the Minford and Gallia, (2) has a higher recharge, and (3) would have faster contaminant travel times, has a higher relative pollution potential (140) than the other three study areas. Both ion exchange and sorption are important processes that tend to remove specific contaminant species from solution and retard their migration through the subsurface. Similar to the situation in Study Area A, because of these retardation processes, the movement of contaminants is generally slow in the unsaturated and groundwater zones for Study Area B where a lot of clayey soil exists in the two zones.

Modeling for the preliminary WAC at Study Area B (Table D.2) provided similar results as discussed previously for Study Area A. Three compounds (1,1-dichloroethene, methylene chloride, and trichloroethene) had modeled times of peak dose between approximately 500 and 725 years, slightly faster than travel times at Study Area A. Radiological constituents, such as technetium-99 and uranium, had travel times to peak dose of approximately 4,700 years and 40,000 years, respectively. Based on the modeling, most of the contaminants were estimated to migrate downward into the Gallia, then laterally to discharge into Little Beaver Creek (DOE 2012).

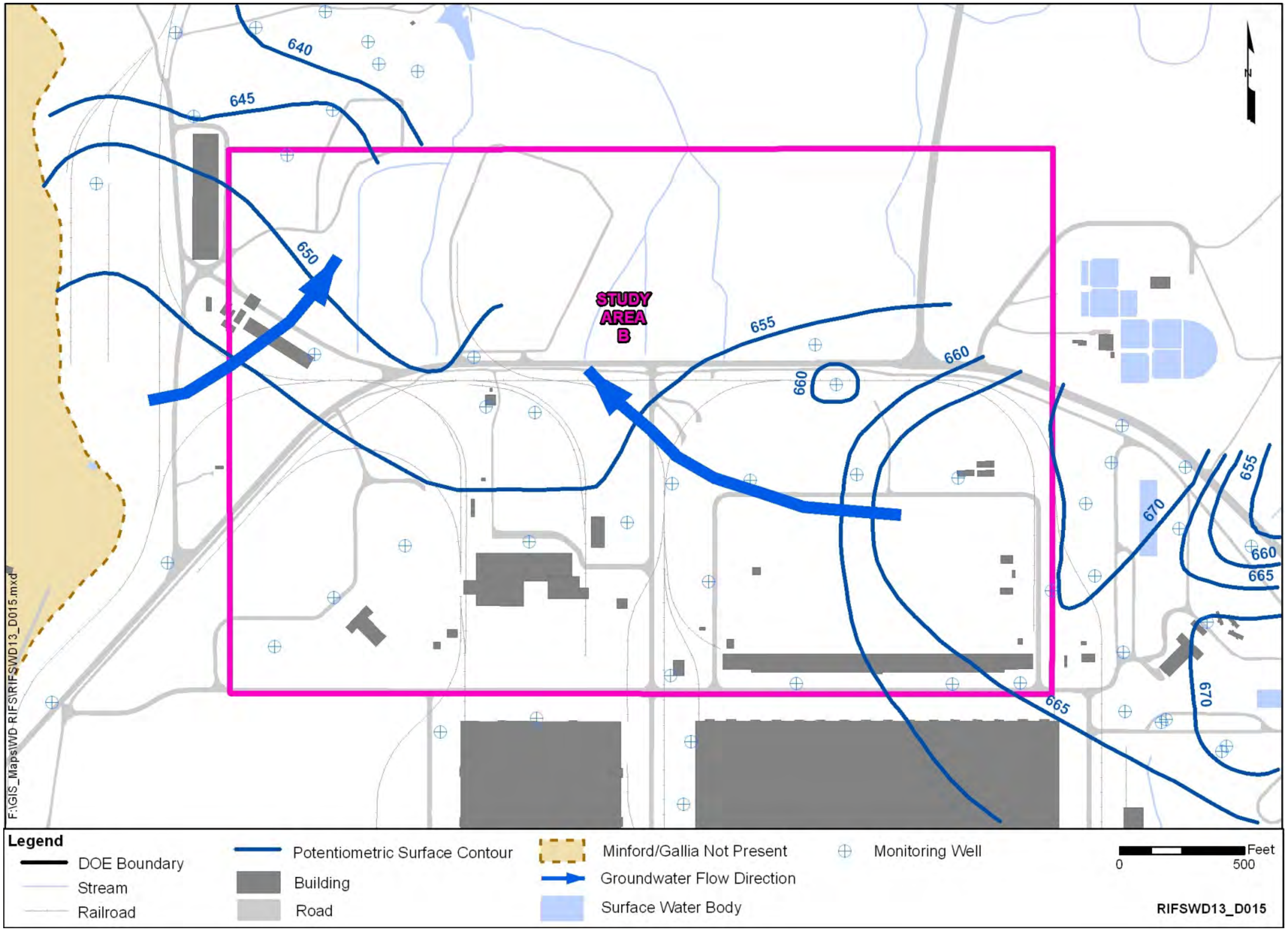


Figure D.15. Potentiometric Map of the Minford/Gallia in Study Area B at PORTS

Figure D.16. Potentiometric Map of the Berea Sandstone in Study Area B at PORTS

Table D.2. Time of Peak Dose for a Potential OSDC at Study Area B

	1,000,000 cy		3,000,000 cy	
SRC	On-Site POA (years)	DOE Boundary POA (years)	On-Site POA (years)	DOE Boundary POA (years)
Antimony	35,960	35,960	35,746	35,746
Arsenic	35,960	35,960	35,746	35,746
Barium	103,379	103,379	102,793	102,793
Chloroform	1,847	1,847	1,819	1,819
Chromium III	19,106	19,106	18,985	18,985
Cyanide	18,918	18,918	18,799	18,799
1,1-Dichloroethene	497	497	479	479
Methylene Chloride	551	551	442	442
n-Nitroso-di-N-propylamine	1,128	1,128	1,103	1,103
Aroclor 1232	31,840	31,840	31,649	31,649
Trichloroethene	726	726	703	703
Tc-99	4,728	4,728	4,723	4,723
U-234	33,274	33,274	32,966	32,966
U-235	40,029	40,029	39,289	39,289
U-238	40,029	40,029	39,289	39,289
Np-237	80,003	80,003	78,258	78,258
Pu-239	77,757	77,757	75,870	75,870

Source: DOE 2012

DOE = U.S. Department of Energy
POA = point of assessment
SRC = site-related contaminant

Based on the soil survey of Pike County, the predominant soil type within Study Area B is Omulga silt loam (USDA 1990). Most of the area is classified as Urban Land-Omulga complex with a 0 to 6 percent slope, which consists of urban land and a deep, nearly level, gently sloping, moderately well-drained Omulga soil in preglacial valleys. The soil in this area has been so disturbed by previous construction activities that assignment of specific soil series is not feasible.

D.3.2 SURFACE WATER RESOURCES

There are no perennial streams within Study Area B. The area lies within the drainage area of Little Beaver Creek, which drains the eastern and northern portions of the area before discharging into Big Beaver Creek. Little Beaver Creek is a small, high-gradient, unmodified stream that receives the majority of its flow from the X-230J7 East Holding Pond discharge through the East Drainage Ditch. Little Beaver Creek also receives effluent via the Northeast Drainage Ditch through the outfall from the X-230J6 Northeast Holding Pond and via the North Drainage Ditch through the outfall from the X-230L North Holding Pond. Substrates are predominantly slab boulders and bedrock at the upper reach to gravel and sand near the mouth of the stream. During parts of the year, intermittent flow conditions exist upstream from the X-230J7 discharge. During the summer/fall low-flow time of the year, the upstream section is composed of shallow, isolated pools with intermittent flow (Ohio EPA 2006).

D.3.3 ECOLOGICAL RESOURCES

Study Area B, particularly the southern portion, is highly developed. Managed grassland is dominant among the various man-made features. A few isolated stands of trees are present within the grassland in the northern portion of Study Area B.

Three jurisdictional wetlands (Q4-18, Q4-22, and Q4-26) are located partially or entirely within Study Area B. The wetlands in Study Area B are described in Table D.3 (LMES 1996).

Table D.3. Wetlands in Study Area B

Wetland Number	Status	Acreage	Location	Comments
Q4-18	Jurisdictional	0.322	North Access Road	Drainage ditch
Q4-22	Jurisdictional	0.018	X-745G Cylinder Yard	Drainage ditch
Q4-26	Jurisdictional	0.160	X-752 Warehouse	Man-made ditch

Source: LMES 1996

LMES = Lockheed Martin Energy Systems, Inc.

No endangered species habitat areas or endangered plant species are present in Study Area B; no endangered or threatened fish species are present within the boundaries of Study Area B. Little Beaver Creek, which is classified as meeting exceptional warmwater criteria in some reaches, is outside Study Area B. Study Area B drains to Little Beaver Creek.

D.3.4 CULTURAL RESOURCES

None of the archaeological sites identified on the PORTS Facility are located within Study Area B.

Study Area B is the most densely developed of the four study areas, particularly in the portion south of Perimeter Road; therefore, it contains numerous architectural resources. Many of these have been demolished in recent times, but a number of architectural resources are still present in Study Area B.

D.4 DESCRIPTION OF STUDY AREA C

Study Area C was selected as a location for evaluation primarily because of the underlying hydrogeology. Study Area C is mostly underlain by Cuyahoga Shale, and its topographic relief (approximately 135 ft) may provide a separation of the water table from the bottom liner of a potential OSDC by more than 50 ft, required by 40 *Code of Federal Regulations* (*CFR*) 761.75(b)(3). The study area topography ranges from approximately 660 to 795 ft AMSL (Figure D.3). This area does not contain any buildings or structures in a land-use conflict area or scheduled for D&D, reindustrialization and reuse, or future redevelopment infrastructure. This location is relatively close to the East and South Access Roads.

The land in Study Area C consists almost entirely of upland forest. An isolated area of managed grassland is present along the western boundary of this study area, and small areas of grassland occupy the northern portion of it. Segments of unimproved roads are the only development features in Study Area C.

No major roads are present within Study Area C. Short segments of unimproved roads are the only transportation infrastructure in this study area.

D.4.1 GEOLOGY, HYDROGEOLOGY, AND SOILS

Study Area C lies on a ridge outside the eastern edge of the ancestral Portsmouth River valley. Stratigraphic units from youngest to oldest in age include the Mississippian to Upper Devonian Cuyahoga Formation, Sunbury shale, Berea sandstone, and Bedford shale. The Quaternary Teays Formation

(Minford Member/Gallia Member) unconformably overlies the bedrock within the ancestral valley and pinches out on the western and northern flanks of the ridge.

Figure D.6 shows the configuration of the top of the bedrock surface within Study Area C and prominently indicates the edge of the ancestral valley against the ridge that is prominent within Study Area C. The depth to bedrock is shallow in Study Area C, ranging from less than 10 ft to approximately 20 ft deep on the western and northern boundaries. The Cuyahoga is overlain by a combination of a thin veneer of Minford silt/clay (on the western portion) and regolith on the bedrock. The topographic ridge in Study Area C is underlain by the Cuyahoga Formation. The maximum thickness of the Cuyahoga Formation is approximately 140 ft where the ridge is at its greatest height.

The Cuyahoga Formation is a medium gray, hard, thinly bedded shale with occasional thin (0.5 in. to 1 ft) fine-grained sandstone and siltstone lenses and layers. The Cuyahoga Formation is underlain by the Sunbury shale, which is approximately 20 to 25 ft thick. The Berea sandstone, with an average thickness of approximately 35 ft in the PORTS area, lies beneath the Sunbury shale. The Berea is composed of a light gray, hard, thickly bedded, fine-grained sandstone with thin shale laminations. The bedrock formations dip gently to the east-southeast at approximately 30 ft/mile. Stratigraphic relationships are shown in Figure D.7.

Based on drilling in the Cuyahoga Formation in Study Area C, three zones of weathering can be recognized in the shale. The upper zone is characterized as regolith (comprised of a lean clay residual soil mixed with colluvium) that generally extends from less than 10 ft to 20 ft in depth and does not retain any of the parent shale structural characteristics. The top of the bedrock is at the base of this regolith zone. The second weathering zone is highly weathered shale that is light tan to brown in color. In this zone, although the rock structure (bedding and jointing) is still evident, the shale is very weak and generally can be broken by hand. (Auger drilling typically hits refusal at the base of this zone.) The thickness of this second zone is approximately 10 ft. The third zone of weathering consists of moderately weathered shale and extends to 30 ft below the surface. This zone exhibits tan to brown bands of weathered shale that parallel both sides of some bedding planes and/or joints, with alternating intervals of unweathered gray shale. The top of the unweathered shale has been placed at the point where the shale becomes continuously gray in color with depth and significant weathering along joints or fractures no longer occurs. Although jointing or fracturing was evident in the weathered zones, joints/fractures were less prevalent in the unweathered shale.

The groundwater flow system at Study Area C includes the groundwater system in the shallow regolith and the Berea sandstone aquifer, along with the aquitards of the Cuyahoga Formation, Sunbury shale, and Bedford shale. Natural recharge to the groundwater flow system comes mainly from precipitation, although land use and the presence of the bedrock shale units effectively reduce recharge to underlying units. Discharge of groundwater to the surface occurs primarily along streams that transect the plant. Natural recharge to the central portion of the plant is approximately 4 to 7 in./year whereas recharge in the uplands such as those at Study Area C (areas underlain by shale bedrock) is 2 to 4 in./year (ODNR 2003). The recharge is less in the uplands due to topography (steeper slopes promoting runoff) and low permeability of the bedrock and residual clayey soil in the regolith. Most of the water that infiltrates through the regolith likely moves laterally upon reaching the base of the deeply weathered zone due to the very low vertical permeability of the Cuyahoga Formation (1×10^{-3} to 1×10^{-6} ft/day). A couple of historical shallow-dug wells were found in Study Area C, and the depth to water in one of these wells, which had a total depth of approximately 28 ft, was approximately 14 ft below surface. (The other well, with a total depth of almost 13 ft, remained dry after existing water was removed.) These wells are completed in the regolith/weathered bedrock zone.

In areas where stress-relief fractures occur in the Cuyahoga Formation, some of the groundwater moves downward from the regolith to provide recharge to the deeper bedrock system. (In test pits, the more brittle sandstone layers were observed to have vertical fractures that did not extend into the overlying or underlying shale.) In a previous test trench located approximately 2,000 ft southwest of Study Area C, a few joints were visible only in the moderately weathered shale. The joints had preferred strikes of about north 50° west, and joint spacing varied from approximately 5 ft to greater than 25 ft. A continuous 1-ft-thick sandstone at approximately 672 ft AMSL was described as highly fractured. Groundwater that migrates into the fractures eventually migrates laterally along the joints or sandstone layers and likely emerges as ephemeral seeps along the hillside downgradient from the recharge areas.

Four piezometers were drilled into the Cuyahoga Formation/Sunbury Formation. The Cuyahoga/Sunbury piezometers (as well as adjacent, temporary air-rotary-drilled borings) at Study Area C often had too little water to allow a water level measurement. Only piezometers WD-PZ04C and WD-PZ05C have shown significant water level fluctuations, which were 22.3 ft and 6.2 ft, respectively. The large fluctuations in water levels in WD-PZ04C suggest this piezometer may be in hydraulic connection with a fracture/joint that is also in connection with the regolith zone. On the other hand, piezometers WD-PZ06C and WD-PZ07C exhibit water level fluctuations of only 1.1 ft and 0.5 ft, respectively. The three air-rotary borings adjacent to WD-PZ04C, WD-PZ06C, and WD-PZ07C never had sufficient water to allow a depth-to-water measurement.

Groundwater flow in the Berea is northwest to southeast with a gradient varying from approximately 0.004 to 0.007 ft/ft (Figure D.9). Seasonal fluctuation of the Berea's potentiometric surface is typically less than 2 ft with no change in groundwater flow direction. While groundwater yield in the Berea is typically lower than the yield in the Gallia, the Berea is a widespread unit and is considered to be a regional aquifer.

The estimated hydraulic conductivity of the Sunbury shale is based on numerical groundwater modeling with ranges from 1.6×10^{-4} to 9.6×10^{-4} ft/day (DOE 2009). The vertical hydraulic conductivity of the Sunbury shale is assumed to be an order of magnitude lower than its horizontal hydraulic conductivity. (Samples collected from Study Areas C and D yielded a vertical hydraulic conductivity of 1.2×10^{-5} ft/day.) Permeability testing on samples from the deeper Bedford shale yielded an average value of approximately 8.2×10^{-2} ft/day (Law Engineering 1978). The hydraulic conductivity determined by single-well aquifer tests of the Berea sandstone ranges from 4.5×10^{-3} to 15.0 ft/day with a mean value of 0.16 ft/day. The higher hydraulic conductivity tends to occur in areas west of the study area where the Sunbury shale is absent.

The pollution potential map of Pike County (ODNR 2003) indicates that most of Study Area C, which is underlain by shale, has a relative pollution potential ranging from 95 to 103. This would be expected because the unconsolidated Gallia does not exist over most of Study Area C, and the permeability of the shale bedrock reduces the overall recharge in that area. The extreme northern portion of the study area has a higher pollution potential where the Minford/Gallia exists. The rate of groundwater flow, and potential contaminant migration, vertically through the Cuyahoga Formation and Sunbury shale is expected to be very slow.

The pollution potential of the area can also be related to contaminant fate and transport migration within the subsurface at the study area. The travel time for any contaminant to migrate from a potential OSDC to an exposure point is a function of the properties of the unsaturated and aquifer zones as well as the contaminant-specific chemical properties.

Because of the presence of the thick shale and abundance of clay minerals within the unsaturated zone at Study Area C, the retardation processes for contaminants are much more predominant than they are at either Study Areas A or B. The movement of the contaminants is likely to be much slower in the unsaturated zone than at Study Areas A and B. Therefore, because of the thick shale bedrock, Study Area C will provide greater protection to groundwater than Study Areas A and B. As shown in Table D.4, modeling for the preliminary WAC indicated travel times for peak dose to the DOE property boundary for some of the more highly mobile organic compounds to take greater than 2,000 years (compared to less than 1,000 years for Study Areas A and B). The time to peak dose for technetium-99 was approximately 24,500 years and uranium was greater than 150,000 years (DOE 2012). The modeling indicated the contaminants would migrate slowly downward through the Cuyahoga and Sunbury Shale and eventually reach the Berea Sandstone.

Table D.4. Time of Peak Dose for a Potential OSDC at Study Area C

	1,000,000 cy	**3,000,000 cy**
SRC	**DOE Boundary POA**	**DOE Boundary POA**
Antimony	> 100,000	> 100,000
Arsenic	> 100,000	> 100,000
Barium	> 100,000	> 100,000
Chloroform	7,657	6,864
Chromium III	83,346	83,293
Cyanide	83,527	82,475
1,1-Dichloroethene	2,316	2,309
Methylene Chloride	2,108	2,101
n-Nitroso-di-N-propylamine	4,657	4,636
Aroclor 1232	> 100,000	> 100,000
Trichloroethene	3,205	3,198
Tc-99	24,500	24,400
U-234	> 150,000	> 150,000
U-235	> 150,000	> 150,000
U-238	> 150,000	> 150,000
Np-237	> 150,000	> 150,000
Pu-239	> 150,000	> 150,000

Source: DOE 2012

DOE = U.S. Department of Energy
POA = point of assessment
SRC = site-related contaminant

Based on the soil survey of Pike County, three soil types occur within the Study Area C boundary (USDA 1990). Two soil series are present in the upland area that makes up the topographic ridge. The Rarden series consists of moderately deep, moderately well-drained, slowly permeable soils formed in acid, clayey shale residuum on ridgetops and hillsides. The Coolville series, nearer the top of the ridge, consists of deep, moderately well-drained soils formed in a thin, silty mantle weathered from acid shale that has thin strata of siltstone.

The third soil type is Omulga silt loam. The surface layer of Omulga silt loam is dark grayish-brown, friable, and approximately 10 in. thick. The subsoil is approximately 54 in. thick and is composed of three portions: (1) a yellow-brown, friable silt loam; (2) a fragipan (brittle, compacted subsurface soil) of yellow-brown, mottled, firm, and brittle silty clay loam; and (3) a yellow-brown, mottled, friable silt loam approximately 20 in. thick. The extreme northern area of Study Area C is classified as Urban Land-Omulga complex with a 0 to 6 percent slope, which consists of urban land and a deep, nearly level, gently sloping, moderately well-drained Omulga soil in preglacial valleys. The soil in this area has been disturbed by previous construction activities.

D.4.2 SURFACE WATER RESOURCES

No perennial streams are within or adjacent to Study Area C. A topographic ridge is present along this study area. It acts as a drainage divide with surface water originating on the western portion flowing toward Big Run Creek and that originating on the eastern portion flowing to Little Beaver Creek. There are three small ponds, which may be related to former farmsteads. These ponds, which seasonally contain standing water, appear to be man-made (excavated) features. They may also be considered wetlands although previous wetland surveys did not identify them as such.

Big Run Creek is the small tributary of the Scioto River that drains the southern portion of the PORTS property. This stream primarily receives outfall effluent from the X-230K South Holding Pond, which is located west of Study Area C. Big Run Creek flows south-southwest from the area for approximately 4 miles until it intersects the Scioto River. The substrates of Big Run Creek are predominantly gravel and cobble, and the stream channel remains unmodified. Because of the small stream size and high gradient, deep pools are absent (Ohio EPA 1993).

Little Beaver Creek is a small, high-gradient, unmodified stream that receives the majority of its flow from the X-230J7 East Holding Pond discharge through the East Drainage Ditch. Substrates are predominantly slab boulders and bedrock at the upper reach to gravel and sand near the mouth of the stream. During parts of the year, intermittent flow conditions exist upstream from the X-230J7 discharge. During the summer/fall low-flow time, the upstream section is composed of shallow, isolated pools with intermittent flow (Ohio EPA 2006).

D.4.3 ECOLOGICAL RESOURCES

Study Area C is almost entirely upland forest with small zones of grassland to the north and west. No wetlands have been identified in Study Area C. No endangered species habitat areas or endangered plant species are present in Study Area C. Preliminary findings from a detailed habitat mapping study being performed by Ohio University indicate Indiana bat habitat may be more extensive than identified in previous studies. The primary trees that produce exfoliating bark and nesting cavities (e.g., sycamore and shagbark hickory) are abundant in the older forest habitats, including forest habitats in Study Area C (Ohio University 2012). Figure D.17 shows the results of the preliminary habitat mapping in Study Area C. There are no endangered or threatened fish species or exceptional warmwater streams within the boundaries of Study Area C.

D.4.4 CULTURAL RESOURCES

Five of the 36 archaeological sites identified during the 1996-1997 Phase I archaeological survey are located within Study Area C. New archaeological sites were identified as a result of recent Phase I investigations in Study Area C. Of the 10 newly-identified sites, six consist of isolated finds and do not have the potential to yield additional data significant to the prehistory or history of the region. At one site, several prehistoric and historical artifacts were collected, but based on the lack of an intact cultural context, the site was not recommended as eligible for NRHP. The three remaining newly-identified sites date to the historic period and require no further investigation since they yielded low-density artifact scatter. No sites eligible for listing on the NRHP are in Study Area C.

No architectural resources are present in Study Area C.

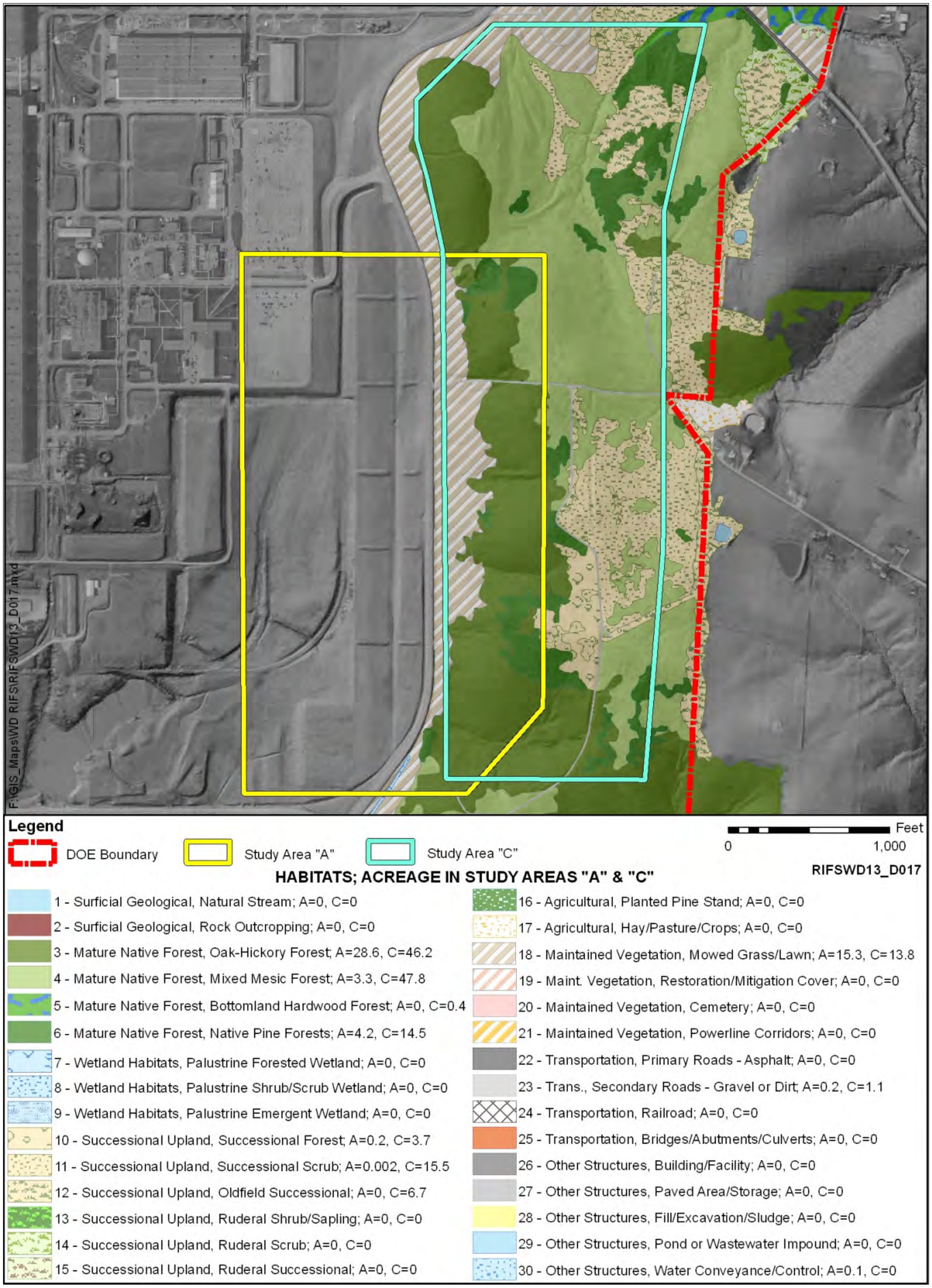


Figure D.17. Preliminary Habitats for Study Areas A and C

D.5 DESCRIPTION OF STUDY AREA D

Study Area D was selected as a location for evaluation primarily because of the underlying geology and the remote location relative to the developed portion of PORTS, despite its having a potential future land use for industrial development. Study Area D has moderate topographic relief of approximately 145 ft (elevations range from approximately 640 to a little more than 780 ft AMSL) (Figure D.18) and is mostly underlain by Cuyahoga shale. Therefore, it may provide a separation of the water table from the bottom liner of a potential OSDC per 40 *CFR* 761.75(b)(3). This area does not contain any buildings or structures except for the X-114A New Firing Range, which is identified to be demolished early.

Study Area D contains minimally developed land and consists primarily of forest growth and grassland. The only developed land consists of the X-114A New Firing Range near its center, the access road to the firing range, and two unimproved roads.

Study Area D contains most of the access road to the X-114A Firing Range. The only other transportation features are two unimproved roads and a railroad just outside the northern boundary.

D.5.1 GEOLOGY, HYDROGEOLOGY, AND SOILS

Study Area D lies in an upland area predominantly outside the ancestral Portsmouth River valley. Stratigraphic units from youngest to oldest in age include the Mississippian to Upper Devonian Cuyahoga Formation, Sunbury shale, Berea sandstone, and Bedford shale. The Quaternary Teays Formation (Minford Member/Gallia Member) unconformably overlies the bedrock within the ancestral valley and pinches out on the western and northern flanks of the uplands.

Figure D.19 is a block diagram illustrating the general surface and subsurface geologic units at Study Area D. The northern and western portions are underlain by the Minford/Gallia whereas most of the study area is underlain by the Cuyahoga Formation. The depth to bedrock in Study Area D ranges from less than 10 ft in the upland areas to up to 40 ft deep on the western and northern boundaries. The Cuyahoga Formation is overlain by a combination of a thin veneer of Minford silt/clay and regolith on the bedrock. The average depth to competent bedrock (based on auger refusal) at Study Area D was approximately 13 ft. The average depth of weathering within the Cuyahoga Formation, based primarily on color change in the rock core, was 22 ft. Figure D.20 shows the approximate elevation of the top of competent bedrock at Study Area D. The maximum thickness of the Cuyahoga Formation is estimated to be up to 120 ft where the uplands are at their greatest height. The Cuyahoga Formation is a moderately hard, thinly laminated shale with sandstone laminations. Unlike the geology at Study Area C, the Cuyahoga at Study Area D contains numerous thin (less than 3-in.-thick) sandstone layers, and borings indicate a 2-ft-thick sandstone layer at an approximate elevation of 680 ft AMSL. This layer is continuous across the study area and a thinner (0.4-ft-thick), mostly continuous sandstone is commonly found approximately 2 ft below this layer.

The 680-ft sandstone layer is continuous away from the study area except where it has been removed by erosion in the deeper valleys, such as the Big Beaver Creek valley northeast of the study area. This 2-ft-thick sandstone layer may be correlated to the 5-ft-thick “670 Sandstone Unit” at the Pike Sanitation, Inc. landfill located approximately 5 miles north-northwest of Study Area D. (Both units occur 30 to 40 ft above the contact between the Cuyahoga and Sunbury.) Figure D.21 shows the extent and top elevation of the 680-ft sandstone layer at Study Area D.

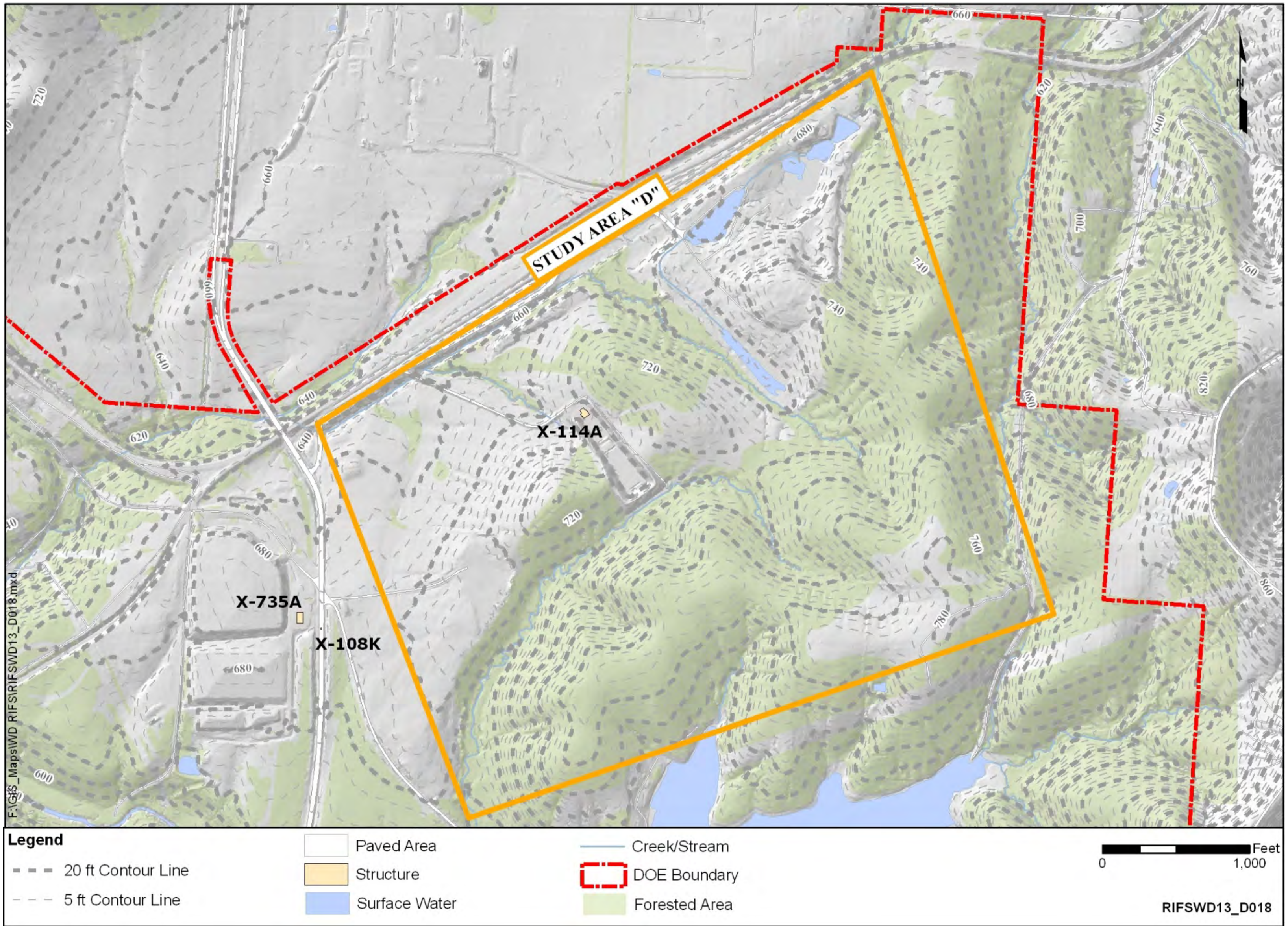


Figure D.18. Topography of Study Area D at PORTS

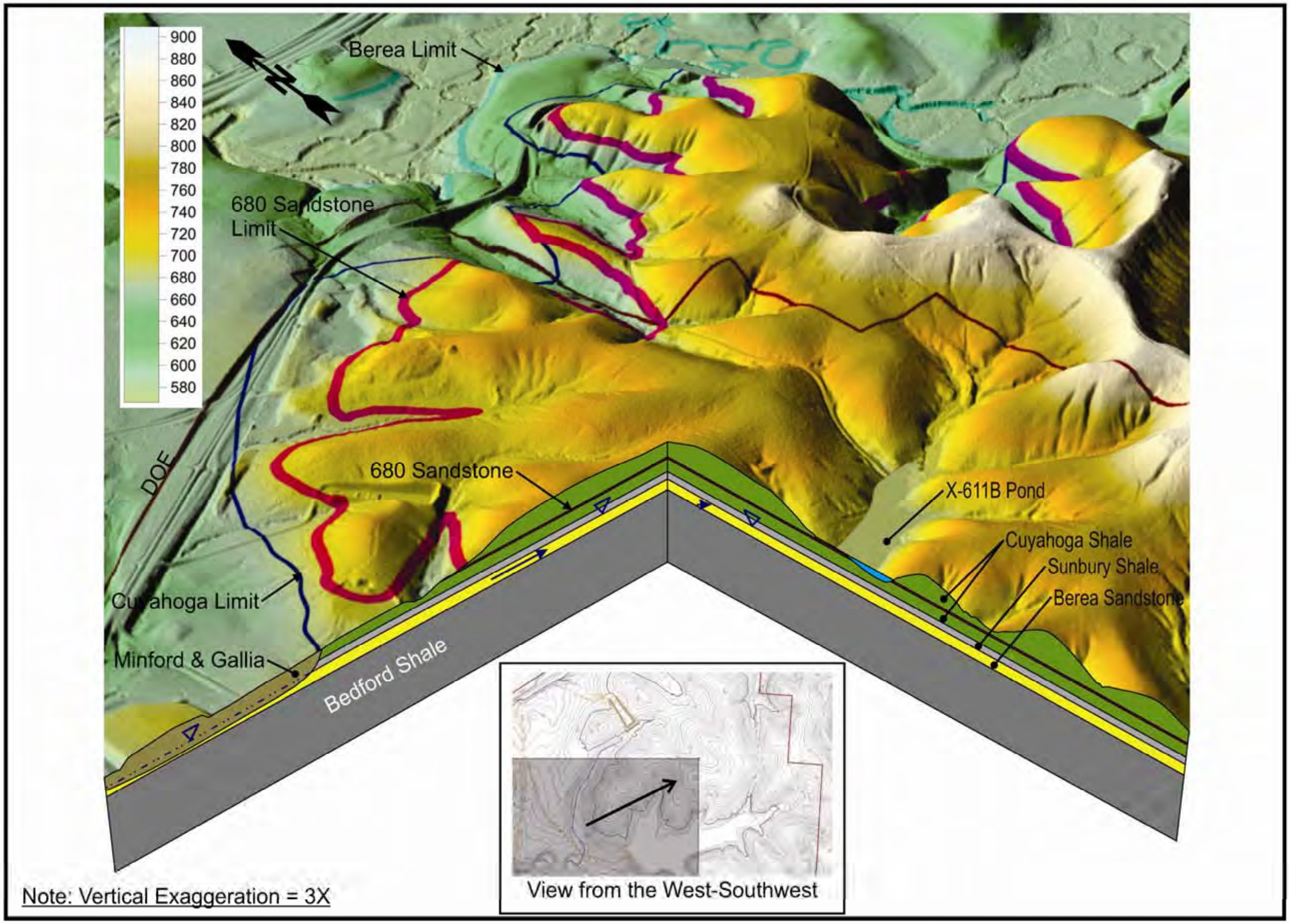


Figure D.19. Geology of Study Area D at PORTS

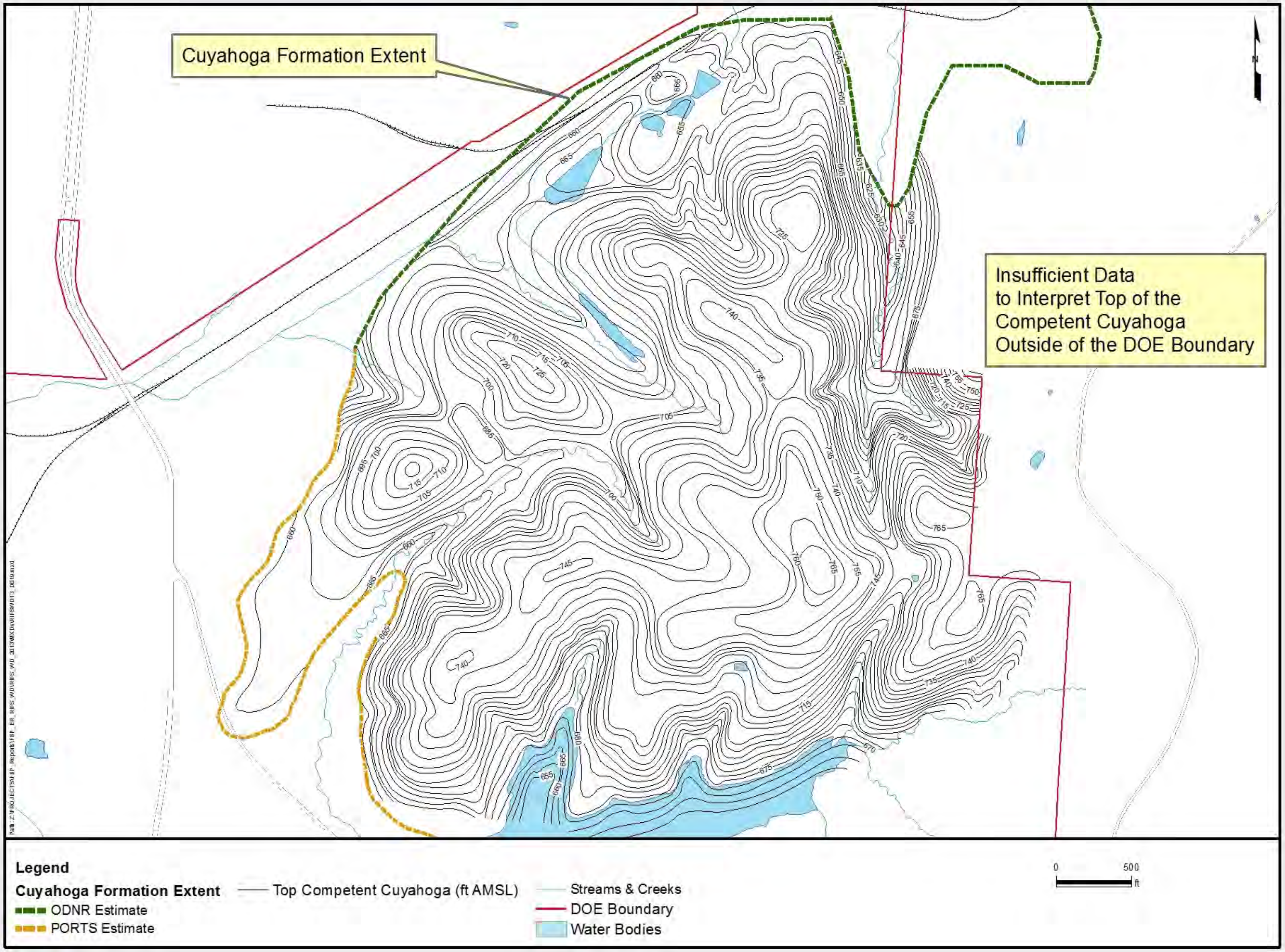


Figure D.20. Elevation of the Top of Competent Bedrock in Study Area D at PORTS

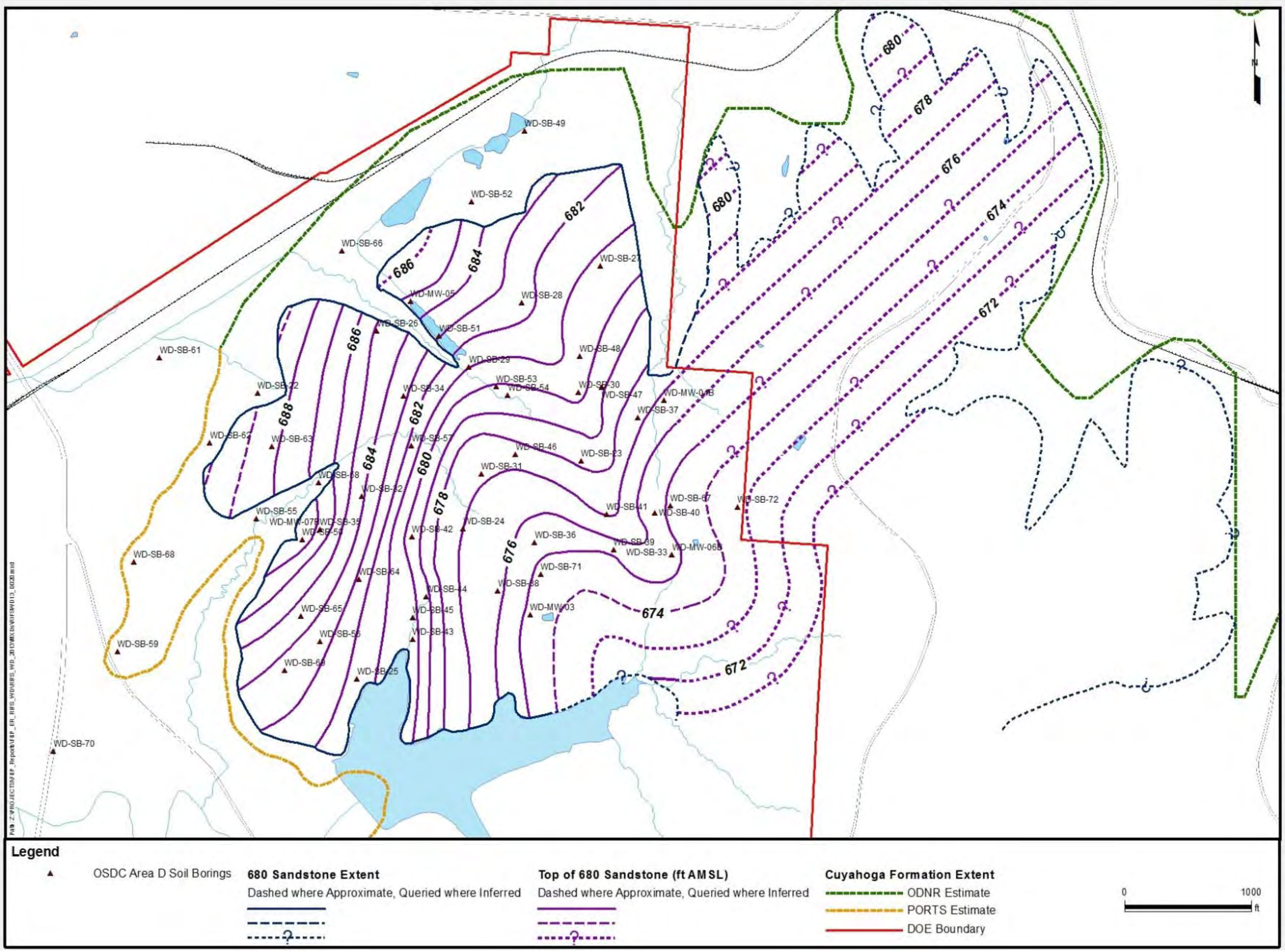


Figure D.21. Elevation of the Top of the 680-ft Sandstone Layer in the Cuyahoga Formation at Study Area D at PORTS

The Cuyahoga Formation also contains other thin sandstone layers with several layers occurring near the 720-ft AMSL horizon. These upper Cuyahoga Formation sandstones have been grouped into geologic facies, based on the presence of the different sandstone lenses (Figure D.22). These sandstone units are thinner than the 680-ft sandstone layer and are not readily correlated from one boring to the next. The thickness of the individually significant sandstone layers in the 720-ft sandstone lens zone ranges from 0.3 to 1.5 ft with an average of 0.5 ft. Several borings intersected multiple sandstone layers in this zone with WD-SB-36 intersecting five separate sandstone layers between 715 ft AMSL and 725 ft AMSL. There were a few locations where these lenses had a thickness of 1 ft or greater (borings WD-SB-23, WD-SB-33, WD-SB-65, WD-SB-69, and WD-SB-71). While this “zone” is fairly continuous across the study area, the individual sandstone lenses that comprise this zone are difficult to correlate from boring to boring and do not appear to be continuous across Study Area D.

If Study Area D is selected as the location for a potential OSDC, most of these upper sandstone lenses would be removed during construction. Figure D.23 is a histogram illustrating the thickness of all sandstone lenses encountered between 700 ft and 740 ft AMSL in soil borings in Study Area D. This figure shows that almost 75 percent of all the lenses encountered were 0.2-ft thick or less. The two thickest lenses occurred highest up in the stratigraphic sequence (a 1.5-ft-thick sandstone in WD-SB-46 at approximately 730 ft AMSL and a 1.9-ft-thick sandstone in WD-SB-42 at approximately 735 ft AMSL).

The various sandstone lenses and layers in the Cuyahoga Formation represent deposition during a series of regressive and transgressive marine events in Early Mississippian time, approximately 350 million years before present (Coogan 1996). During that time, this part of Ohio was a marginal marine environment with highlands to the east (Acadian Highlands) and north (along the Cincinnati Platform), shedding sediment to the coast by a series of stream systems.

The Cuyahoga Formation is composed of sequences of marine shales and interbedded terrestrial sandstones, with the vertical profile resembling modern sediments deposited along a prograding shoreline or in a delta. In Study Area D, the Cuyahoga contains thick gray shales and fine-grained interbedded sandstones and siltstones. As one moves stratigraphically higher in the Cuyahoga, the rocks are characterized by more frequent sandstone layers and lenses, representing the advancing near-shore environments.

The Cuyahoga is then underlain by the Sunbury shale (approximately 20 ft thick) and the Berea sandstone (average thickness of approximately 35 ft) in the PORTS area. The Berea is composed of a light gray, hard, thickly bedded, fine-grained sandstone with thin shale laminations. The Berea sandstone overlies the Bedford shale.

The geologic structure of the study area is relatively simple with the bedrock formations dipping gently to the east-southeast at approximately 30 ft/mile. Figures D.24 and D.25 show site-specific geologic cross sections across the area where a potential OSDC might be located. Two distinct joint sets are present in outcrops of thin sandstone laminations in the Cuyahoga Formation and the lower Berea/upper Bedford Formations at PORTS. The joint sets strike northeast (N65°E) and northwest (N25°W) (DOE 1996d).

The groundwater flow system at Study Area D includes the aquifers consisting of the unconsolidated Gallia sand and gravel and the Berea sandstone, along with the aquitards of Cuyahoga/Sunbury shale, Bedford shale, and unconsolidated Minford clay and silt. The basal portion of the Minford is generally grouped with the Gallia to form the uppermost aquifer and primary water-bearing unit at PORTS. (This also represents the uppermost aquifer system in the northwestern portion of Study Area D.)

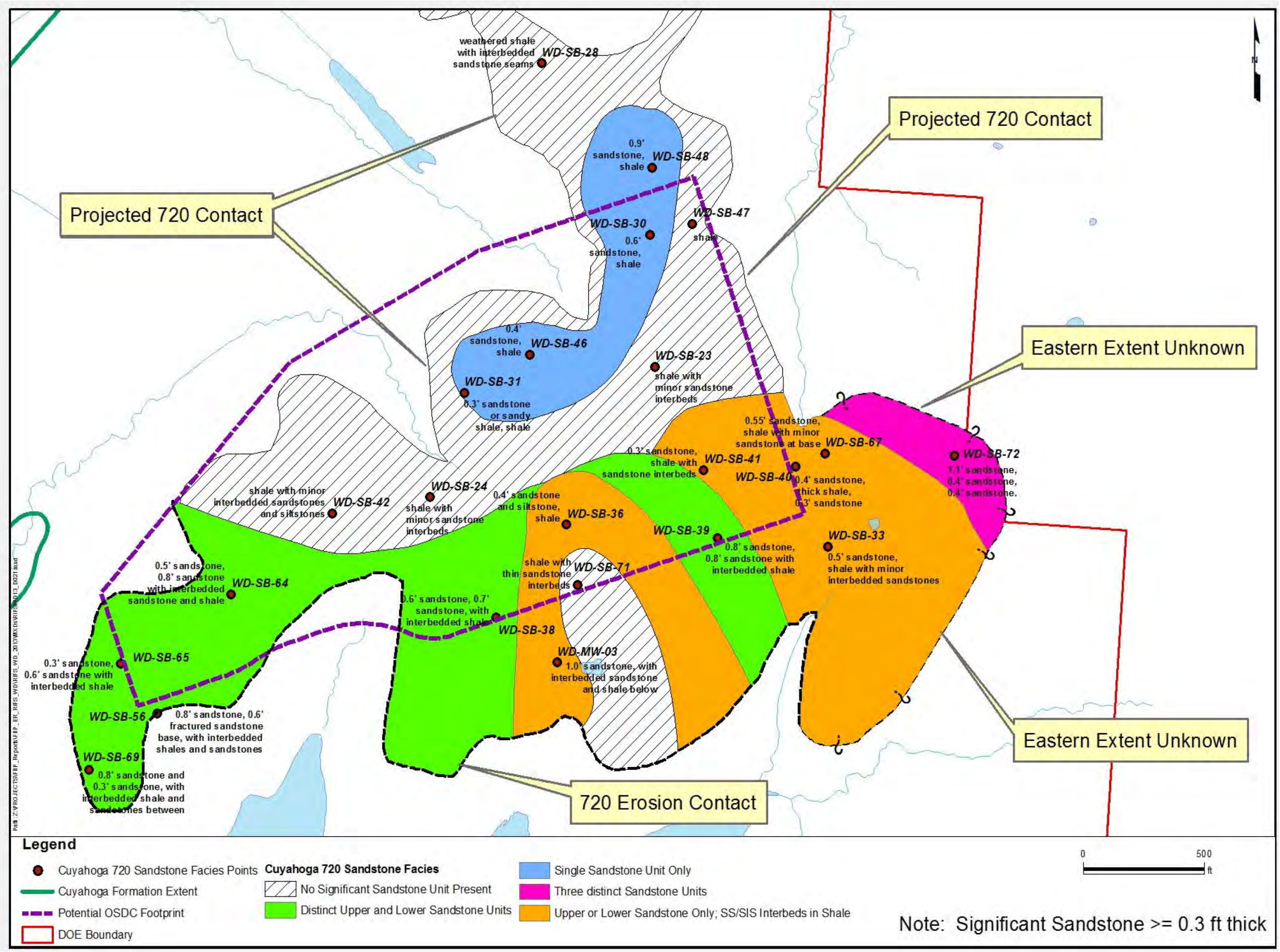


Figure D.22. Distribution of Lithologic Facies for the 720-ft Sandstone Layers in the Cuyahoga Formation at Study Area D at PORTS

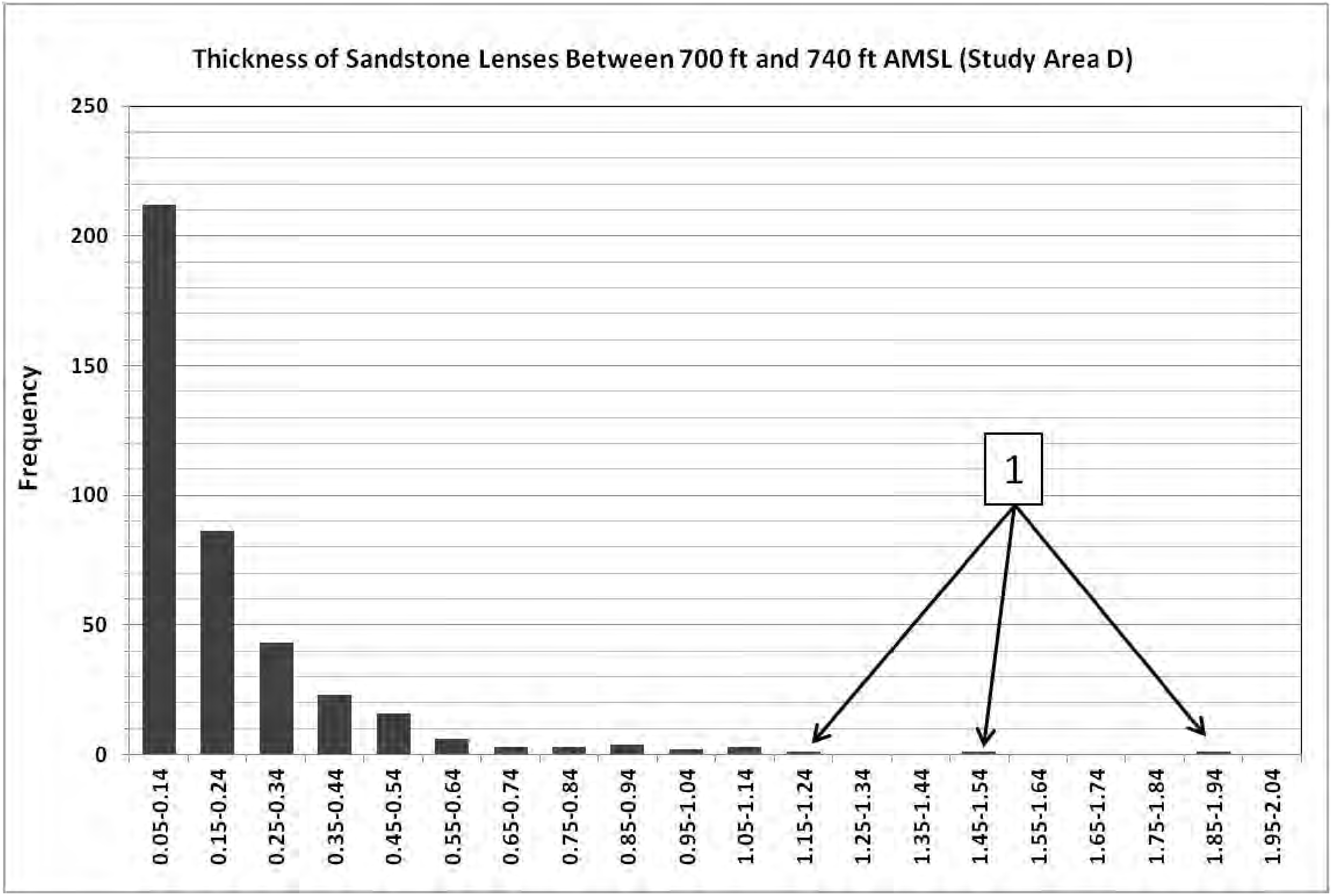


Figure D.23. Histogram of Sandstone Lense Thickness between 700 ft and 740 ft AMSL

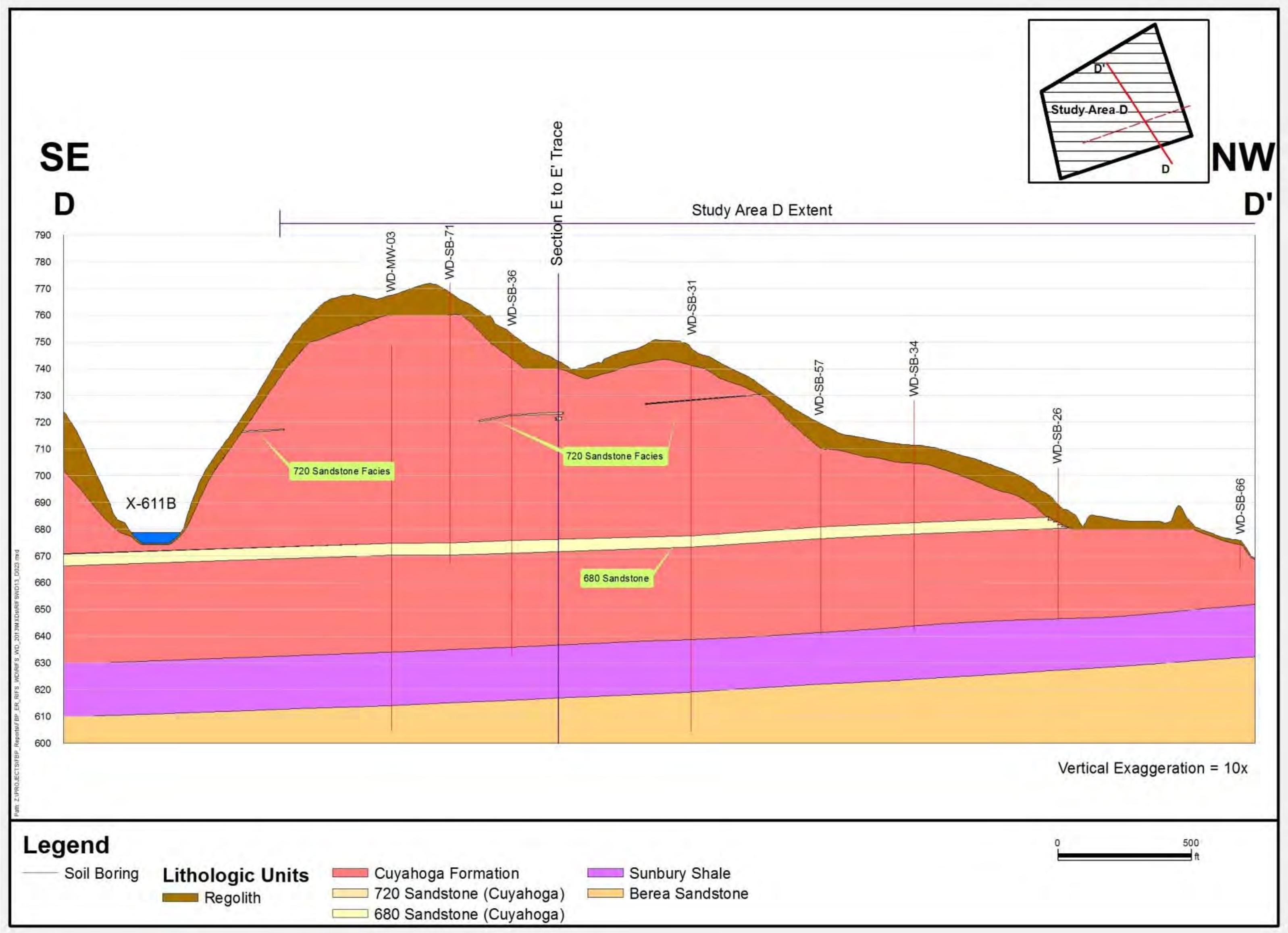


Figure D.24. Detailed Geologic Cross Section for Study Area D at PORTS

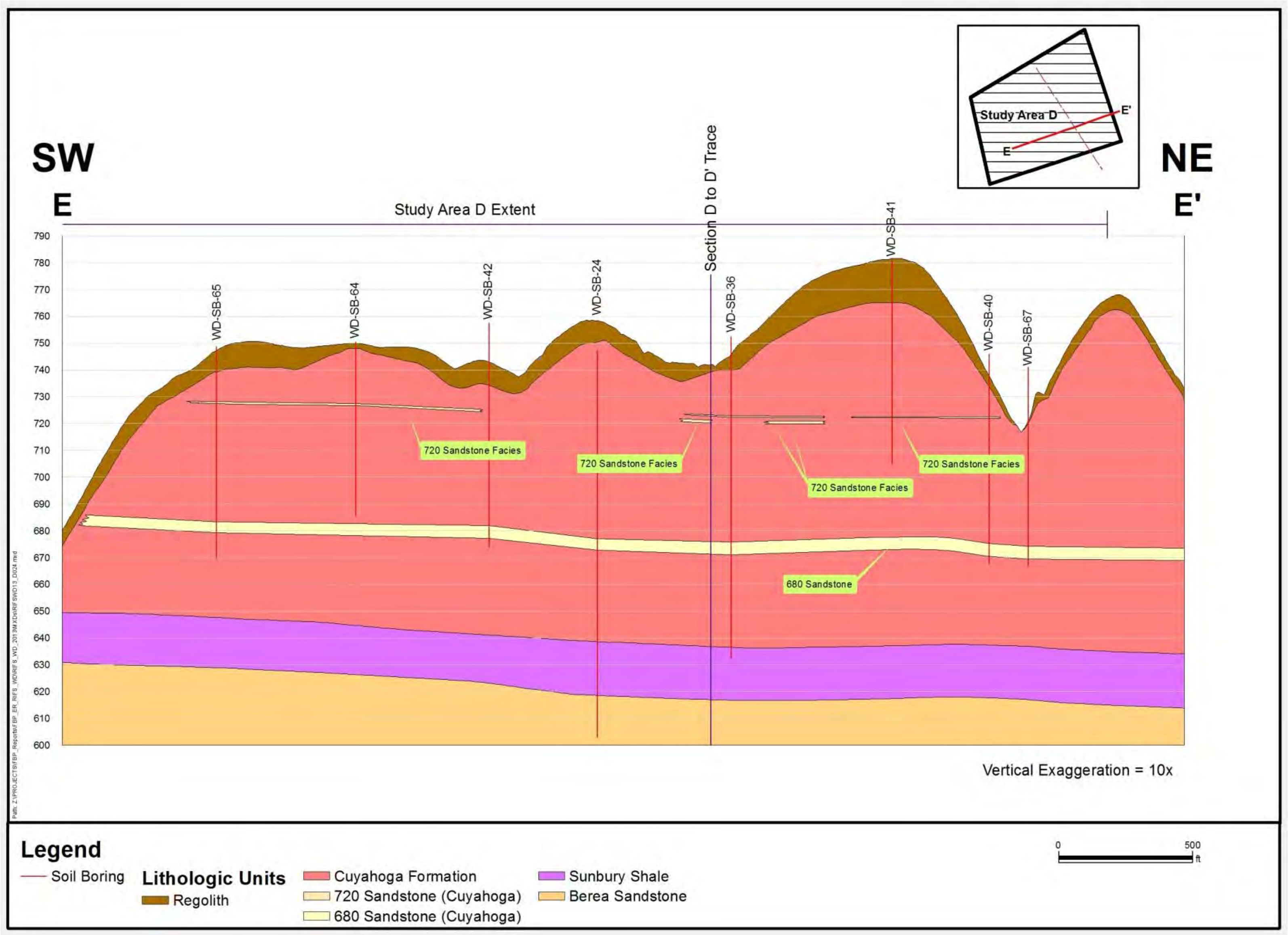


Figure D.25. Detailed Geologic Cross Section for Study Area D at PORTS

The Minford/Gallia are found only in the western and extreme northern portions of the study area and are absent in the upland areas (Figure D.19). Horizontal permeability tests on the Minford from the western portion of Study Area D ranged from 1.3×10^{-3} to 1.5×10^{-2} ft/day. Vertical permeability from the same samples ranged from 9.4×10^{-5} to 1.3×10^{-2} ft/day. Groundwater flow in the Gallia (Figure D.26) is essentially toward Little Beaver Creek and an unnamed tributary to Little Beaver Creek. This tributary lies west of the study area. The hydraulic gradient in the Gallia is low (ranging from less than 0.004 ft/ft to 0.015 ft/ft) with the steeper gradients existing closer to the discharge areas. Horizontal gradients measured in the Gallia during an 8 month period in 1994 averaged 0.0041 ft/ft (Martin Marietta Energy Systems, Inc. [MMES] 1994).

Natural recharge to the groundwater flow system comes mainly from precipitation, although land use and the presence of the bedrock shale units effectively reduce recharge to underlying units. Discharge of groundwater to the surface occurs primarily along streams that transect the plant. Natural recharge to the central portion of the plant is approximately 4 to 7 in./year whereas recharge in the uplands such as those at Study Area D (areas underlain by shale bedrock) is only 2 to 4 in./year (ODNR 2003). The recharge is less in the upland areas due to topography and low permeability of the bedrock and residual clayey soil. Water that infiltrates through the regolith likely moves laterally upon reaching the base of the deeply weathered zone due to the very low vertical permeability of the unweathered Cuyahoga Formation (1×10^{-3} to 1×10^{-6} ft/day).

Groundwater flow in the upland areas of Study Area D begins within the regolith. The movement of groundwater in the regolith is considered to be groundwater interflow and/or throughflow (i.e., subsurface stormflow). Groundwater interflow is the lateral movement of water in the soil zone, where a more permeable geologic unit (such as the regolith) overlies the less permeable bedrock. Most of the infiltrated water moves laterally and then discharges on hillsides as ephemeral seeps or directly into stream headwaters. If a disposal cell is constructed in this area, the regolith would be removed for installation of the bottom liner directly on top of competent bedrock.

In areas where stress-relief fractures occur in the bedrock, or the bedrock is sandy and more permeable, some of the groundwater in the regolith moves downward to provide recharge to the bedrock system. (In test pits, the more brittle sandstone layers were observed to have vertical fractures that did not extend into the overlying or underlying shale.) The Cuyahoga Formation contains several zones of thin sandstone layers.

The upper sandstone zone, recognized only at Study Area D, is referred to as the 720-ft sandstone lense zone. (This zone was first noted at an elevation of approximately 720 ft AMSL.) The thicknesses of the individually significant sandstone lenses in the 720-ft sandstone lense zone range from 0.3 to 1.5 ft with an average of 0.5 ft. A localized area of saturation is associated with the 720-ft sandstone lenses in the vicinity of WD-SB-40 and WD-PZ15C. The sandstone lenses receive recharge where they outcrop, or subcrop beneath the regolith (within the stream valley that WD-PZ15C is located within), or where fractures occur. The groundwater then moves laterally along the sandstone lense (or along bedding plane partings) and may re-emerge along the hillside in an ephemeral seep. None of the other open-hole piezometers had a groundwater elevation that coincided with the 720-ft sandstone zone. Hydraulic testing was conducted in two isolated zones in WD-PZ12C, which included the thin sandstone layers in the 720-ft sandstone lens zone, and neither zone could maintain a rate of 0.1 gpm. WD-PZ15C, which appears to have a water level consistent with an isolated zone of saturation in the 720-ft sandstone lens zone, had an estimated yield of 0.0007 gpm (over the entire borehole) and a conductivity of 0.001 ft/day.

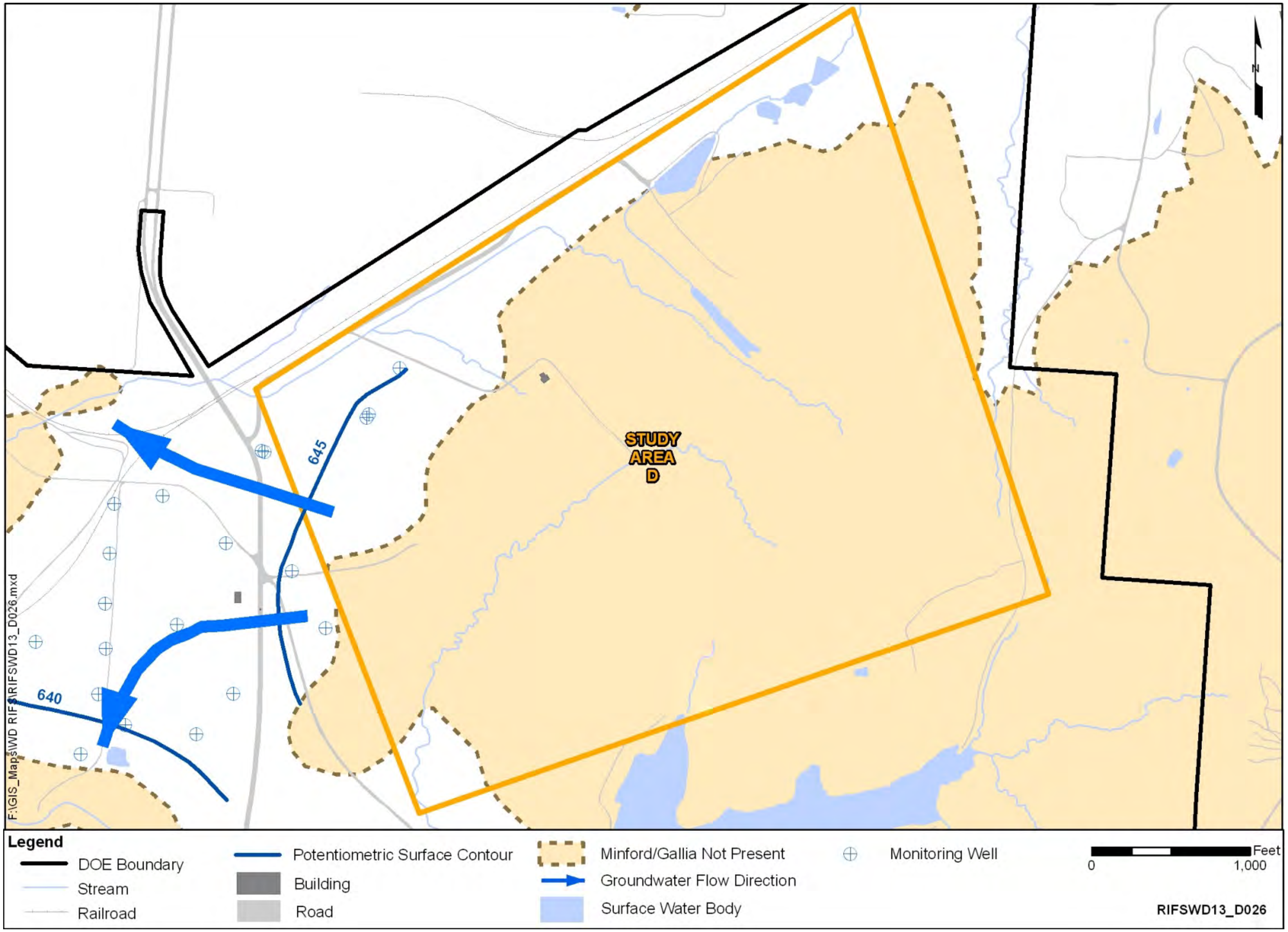


Figure D.26. Potentiometric Map of the Minford/Gallia in Study Area D at PORTS

The next recognizable zone in depth is the 680-ft sandstone zone, which was first noted at an elevation of 680 ft AMSL. This zone is comprised of an upper 2-ft-thick layer and a lower 0.4-ft-thick sandstone separated by approximately 2 ft of shale. Unlike the 720-ft sandstone zone, the individual sandstone layers in the 680-ft sandstone zone are continuous across Study Area D, except where removed by erosion to the west and north. They probably extend outside of the study area to the northeast and east, although the extent is limited by topography with the layer being eroded in the deeper valleys.

These sandstone zones in the Cuyahoga Formation are considered to be “significant zones of saturation” where they are in connection with fractures, including bedding plane partings, which facilitate groundwater flow. The vertical hydraulic conductivity of the 680-ft sandstone zone at Study Area D was determined in laboratory testing to be 0.0005 to 0.004 ft/day. The horizontal hydraulic conductivity is estimated to be 10 times that value. Eleven piezometers at Study Area D were geophysically logged to evaluate fracturing in the bedrock. The shallow weathered bedrock (to a depth of approximately 25 ft) did include some degree of fracturing. (Bedding plane partings were more recognizable in this zone.) Bedding plane fractures were noted at the top of the 680-ft sandstone in WD-PZ08C and WD-PZ13C, and a vertical fracture in the 680-ft sandstone was observed in WD-PZ09C and WD-PZ12C. These fractures in the 680-ft sandstone did not appear to extend into the shale above or below the sandstone. The shale in the Cuyahoga Formation had vertical hydraulic conductivities much lower than the sandstone (range from 0.000001 to 0.0009 ft/day), based on laboratory testing.

The water level data indicate the Cuyahoga Formation is saturated in some locations with a water table elevation varying between approximately 646 and 717 ft AMSL. The average depth to groundwater measured in the open-borehole Cuyahoga piezometers is approximately 50 ft below surface (ranges between 21 ft and 97 ft, depending on topography).

Figures D.27 and D.28 show possible groundwater flow directions for the 680-ft sandstone unit. (Figure D.27 shows current conditions, and Figure D.28 shows potential future conditions after the water level in X-611B is lowered.) A typical potentiometric map is not provided because the water level and yield data suggest there may be limited hydraulic connection across the entire area. For the future condition shown in Figure D.28, it is assumed the water level in X-611B is 660 ft AMSL or lower. Throughout the study period, the depth to the potentiometric surface as measured in the piezometers and monitoring wells was relatively consistent. The southern area near WD-PZ09C and WD-PZ12C appears to be influenced by interconnected fractures providing recharge, and bedding plane partings and fractures within the 680-ft sandstone (allowing greater transmissivity). During the wetter times of the year, recharge occurs where the 680-ft sandstone is closer to the surface, and stress-relief fractures provide a pathway for water in the regolith to recharge the upper bedrock. This is most evident near WD-PZ16C, which often has the highest water levels in the 680-ft sandstone. WD-PZ16C lies in a valley, and the sandstone subcrops beneath the regolith just below the surface. The hydraulic gradient in the center of the area is very small, and WD-PZ23C is slow to stabilize. Groundwater moves towards areas of lower hydraulic head along valleys where the sandstone outcrops and towards the east-southeast in a structurally down-dip direction.

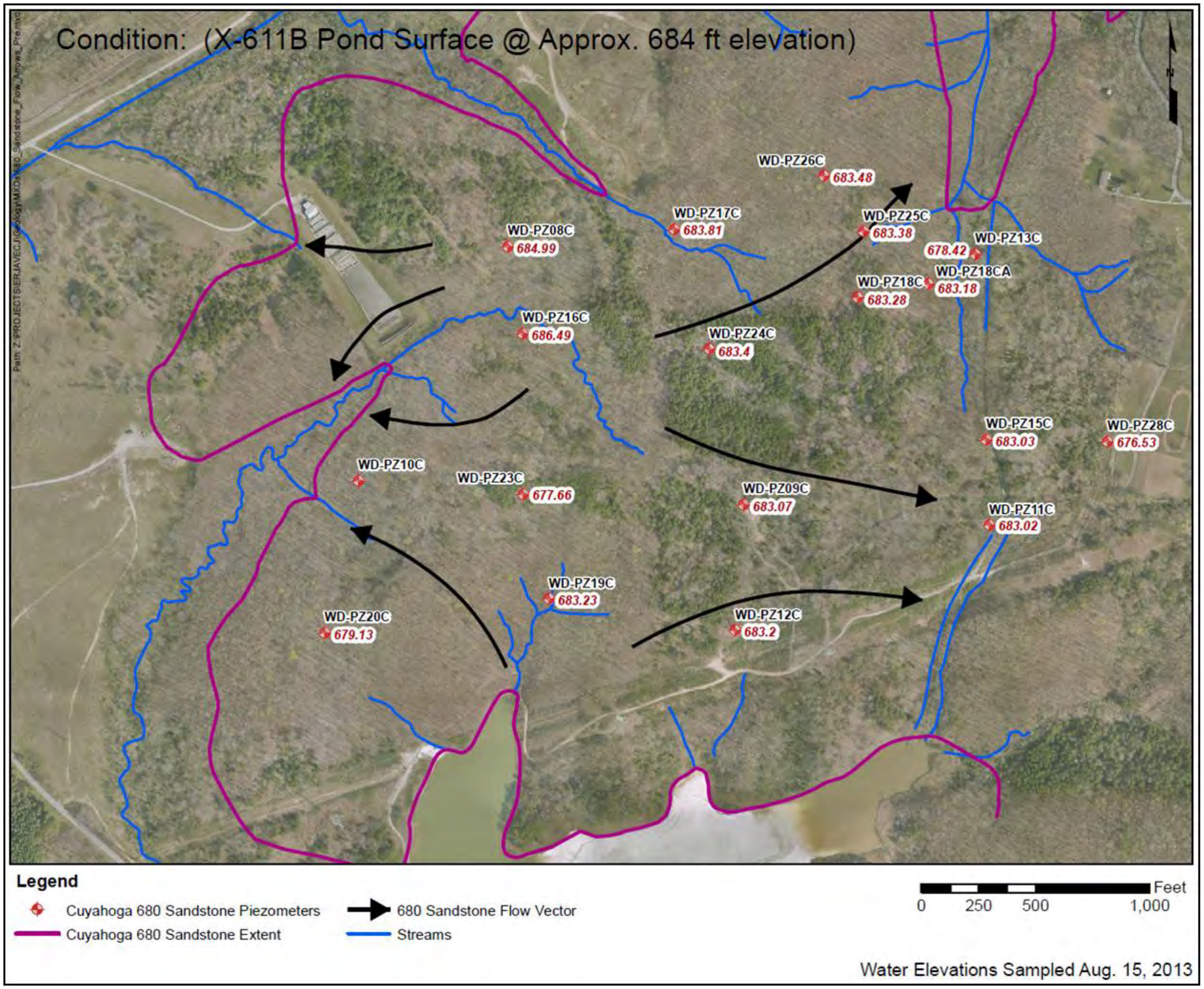


Figure D.27. Groundwater Flow in the 680-ft Sandstone Unit under Current Conditions

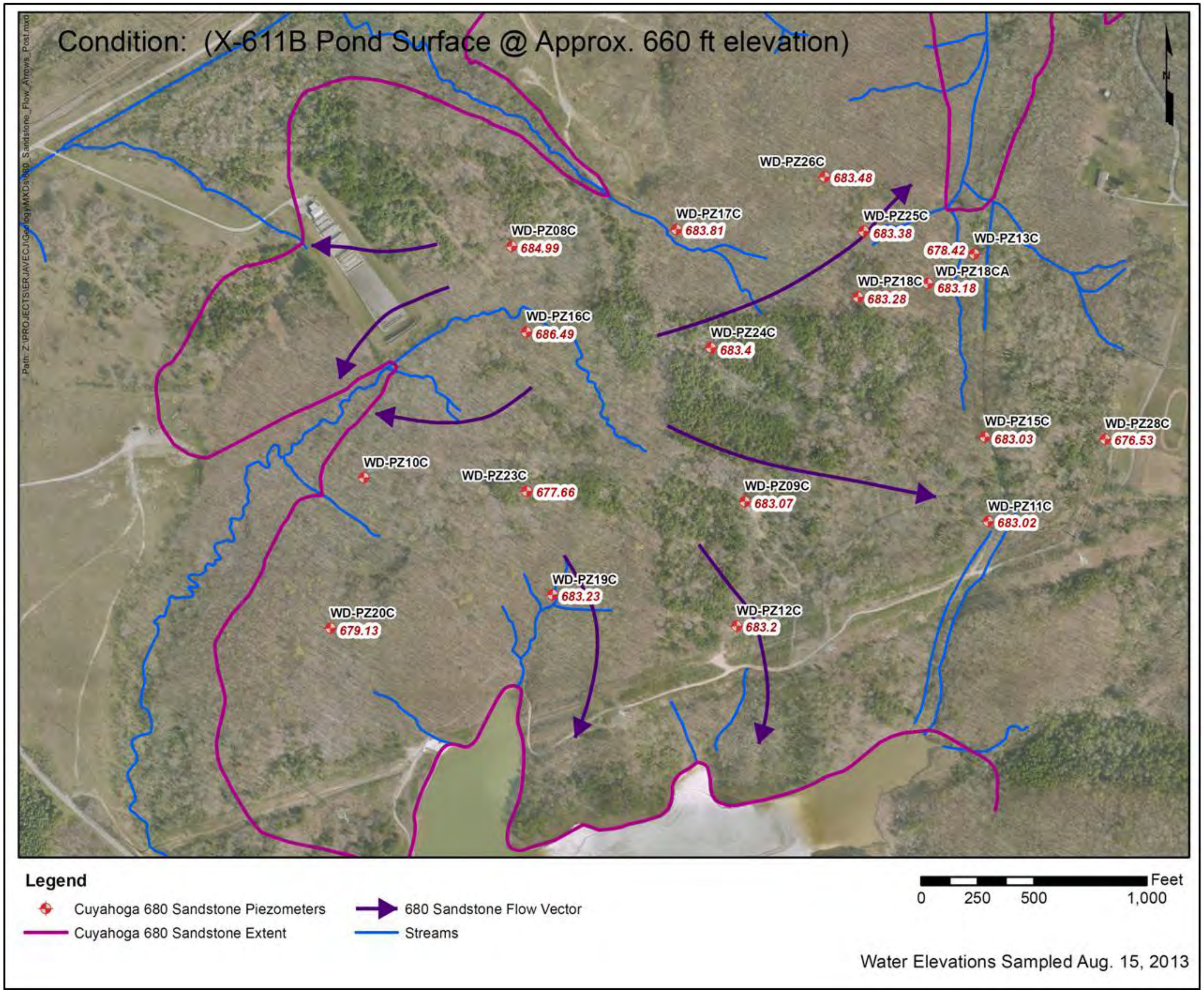


Figure D.28. Groundwater Flow in the 680-ft Sandstone Unit under Future Conditions

Hydraulic testing was performed in several of the Cuyahoga piezometers to determine yield and hydraulic conductivity of the 680-ft sandstone layer, and to investigate the connectivity of the saturated zones in the Cuyahoga Formation with the deeper Berea sandstone. Only two piezometers yielded greater than 0.1 gpm. WD-PZ09C and WD-PZ12C yielded 0.6 gpm and 1.2 gpm, respectively, while yields at WD-PZ11C, WD-PZ13C, WD-PZ14C, WD-PZ15C, WD-PZ16C, and WD-PZ17C were four orders of magnitude less (ranging from 0.0007 to 0.05 gpm) (Figure D.29). The average of all Cuyahoga piezometer yields was 0.16 gpm with a median yield of 0.002 gpm. The logarithmic mean, which may be more appropriate given the distribution, is less than 0.01 gpm. WD-PZ09C and WD-PZ12C also exhibited high barometric efficiency (approximately 90 percent), which suggests the tested zone is confined to a high degree. (Barometric efficiency is related to the magnitude of water level response due to changes in barometric pressure.) The hydraulic conductivity of the 680-ft sandstone layer, determined from preliminary evaluation of constant rate testing in WD-PZ09C and WD-PZ12C, was estimated to be in the range of 40 to 50 ft/day. This conductivity is higher than would be expected, based on literature values for fractured sandstone. The limited response to pumping observed in other, nearby piezometers would also suggest a lower hydraulic conductivity. Hydraulic conductivity in piezometers WD-PZ15C, WD-PZ16C, and WD-PZ17C was estimated to be much lower, ranging from 0.001 to 0.004 ft/day, but this may have been related to formation damage (skin effect) during drilling and poor piezometer development due to little water being produced from the formation. These piezometers also exhibited lower barometric efficiencies. In addition, testing indicated no hydraulic communication between the Cuyahoga Formation and the Berea sandstone. The 680-ft sandstone in the Cuyahoga Formation occurs approximately 55 to 60 ft above the Berea sandstone, which represents the uppermost aquifer system in this area.

The weathered/jointed zone in the Cuyahoga Formation at Study Area D also exhibited a shallow groundwater table lying above the unweathered shale at some locations (near WD-PZ12C in the southern portion of Study Area D, WD-PZ15C and SB-40 in the eastern portion of Study Area D, and WD-PZ14C on the northern side of the hill in Study Area D). These saturated zones appear to be more localized than the 680-ft sandstone layer. (The 720-ft zone appears to be locally saturated in the vicinity of WD-PZ15C and SB-40.)

The water level in WD-PZ12C, which is located near a small pond on the south side of Study Area D, was approximately 717 ft AMSL until the boring was extended to a depth just above the 680-ft sandstone. After being extended, the groundwater level stabilized at approximately 684 ft AMSL. The initial water level at an approximate elevation of 720 ft AMSL appears to be related to the thin, mostly discontinuous, sandstone layers in the upper Cuyahoga Formation. Any saturated conditions above the 680-ft sandstone layer appear to be very limited. Also, if a potential OSDC is constructed at Study Area D, much of the weathered bedrock, including much of the 720-ft sandstone facies, would be removed for installation of the bottom liner on top of competent bedrock.

At piezometer WD-PZ14C, on the northern side of the hill in Study Area D, the water level is at an elevation of approximately 670 ft AMSL. This elevation is below the occurrence of the 680-ft sandstone described above. The area appears to be a localized saturated zone, within the Cuyahoga shale, that is not continuous to the south in areas of higher topography, as observed in WD-PZ17C. A review of historical aerial photographs shows that WD-PZ14C is located within the area of a backfilled pond that was associated with the activities in a former borrow area. This piezometer has an open-borehole design with the surface casing set in the top of competent bedrock. The disturbed soil immediately overlying the bedrock likely has a higher storage capacity (due to higher porosity) and may allow higher infiltration rates, creating a localized saturated condition in the shallow bedrock.

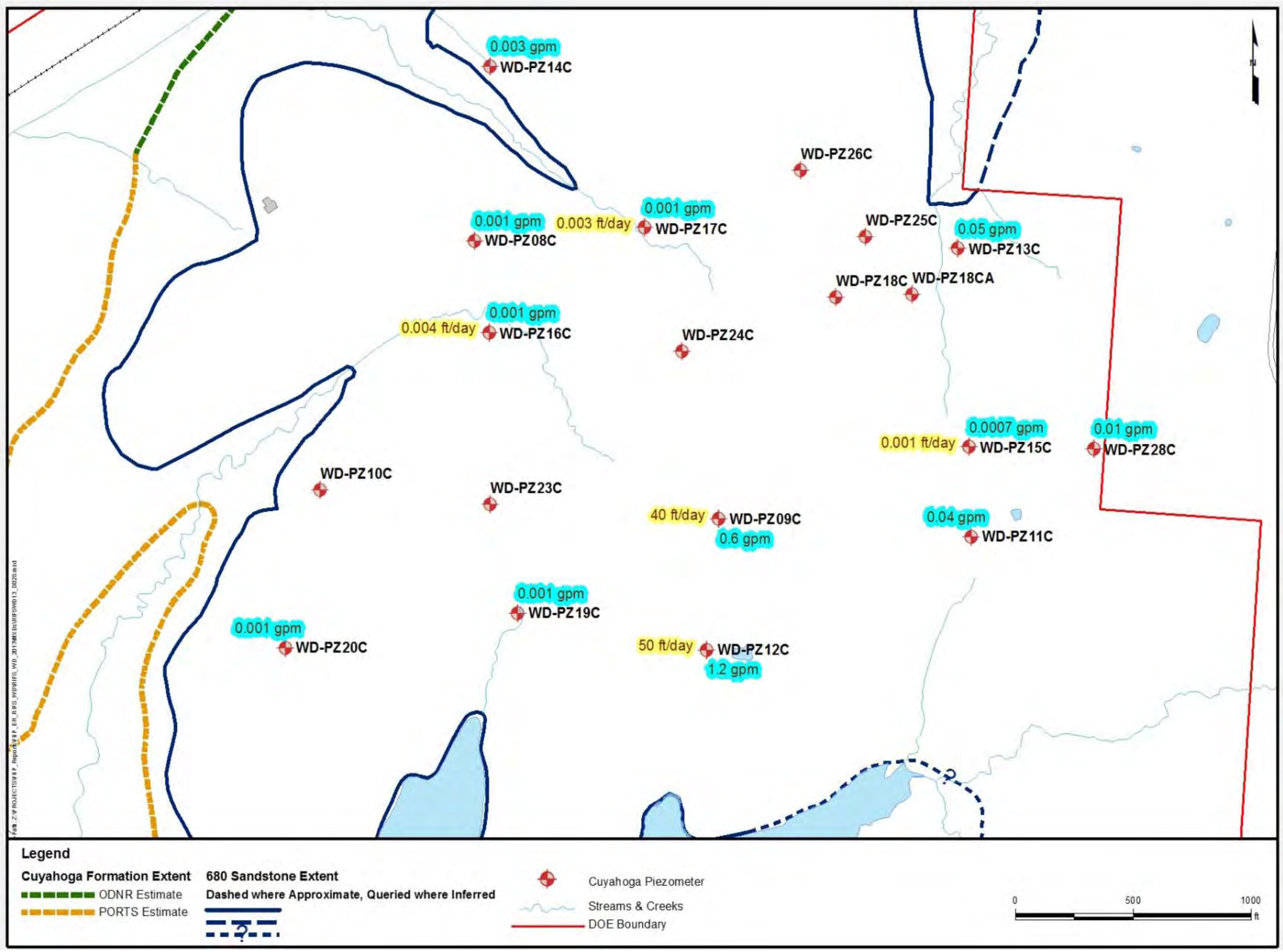


Figure D.29. Yield and Hydraulic Conductivity of Piezometers in the 680-ft Sandstone Unit

The Berea sandstone, occurring at an average elevation of approximately 619 ft AMSL in Study Area D, is considered to be the uppermost aquifer system in this area. The upper 10 to 15 ft of the Berea, which has a total thickness of approximately 35 ft, consists of a massive sandstone bed. The hydraulic conductivity determined by single-well aquifer tests of the Berea sandstone ranges from 4.5×10^{-3} to 15.0 ft/day with a mean value of 0.16 ft/day. The higher hydraulic conductivity tends to occur in areas where the Sunbury shale is absent and the Berea has been weathered. The Berea typically has yields greater than 1 gpm. Yield measurements are available for three wells (two residential wells and one PORTS Berea monitoring well) within a 1-mile radius around Study Area D. Based on these three wells, the average yield is 1.0 gpm. Table D.5 provides data on the residential wells within 1 mile of Study Area D, and these data are based on ODNR records. Low yields in the monitoring wells tested at Study Area D (logarithmic mean of 0.01 gpm) may be attributed to those wells having smaller diameters and shorter screened intervals (5 ft) when compared to a typical water supply well.

Table D.5. Residential Wells within 1 Mile of Study Area D (Based on ODNR Records)

ODNR Well	Surface Elev. (ft AMSL)	Total Depth (ft)	Casing Depth (ft)	Static Water Level (ft)	Yield (gpm)	Type of Well	Screened Formation	Description
112503	662	55	21	12	<1	Open Hole	Cuyahoga	Developed Yield at 50 gal/hour
124078	616	68	25	NM	NM	Open Hole	Berea	Sandstone
845220	860	170	28	50	1	Open Hole	Cuyahoga	Sandstone and shale, water at the sandstone/shale interface

Note: While the driller's log shows Well 112503 in shale, regional stratigraphic relationships suggest it is open to the Berea.

AMSL = above mean sea level
NM = not measured
ODNR = Ohio Department of Natural Resources

The horizontal permeability determined on tests of Berea sandstone cores ranges from 5.4×10^{-3} to 9.9×10^{-2} ft/day with a mean value of 2.0×10^{-2} ft/day. Vertical permeability was slightly less than horizontal permeability with a mean value of 1.0×10^{-2} ft/day (MMES 1994). Based on tests of Berea cores from the X-737 area, the horizontal conductivity varied from 1 to 2.5 times greater than the vertical conductivity. Porosity of the Berea, measured in the western portion of Study Area D, was approximately 15 to 20 percent. Yield testing in four Berea monitoring wells at Study Area D ranged from 0.008 gpm at WD-MW05B to 0.02 gpm at WD-MW06B with an average yield (and logarithmic mean) of 0.01 gpm.

In the far western portion of Study Area D, groundwater flow in the Berea is towards the south-southwest, also discharging to Little Beaver Creek, with a gradient varying from less than 0.002 to 0.004 ft/ft (Figure D.30). Horizontal gradients measured in the Berea in 1994 averaged 0.0025 ft/ft. Monitoring wells in the western portion of Study Area D showed no difference in water level elevation between the Gallia and Berea and suggest free groundwater exchange between the two units in this area (MMES 1994). Within the remaining portion of Study Area D, groundwater flow in the Berea is predominantly east-southeast with a horizontal hydraulic gradient of approximately 0.006 ft/ft.

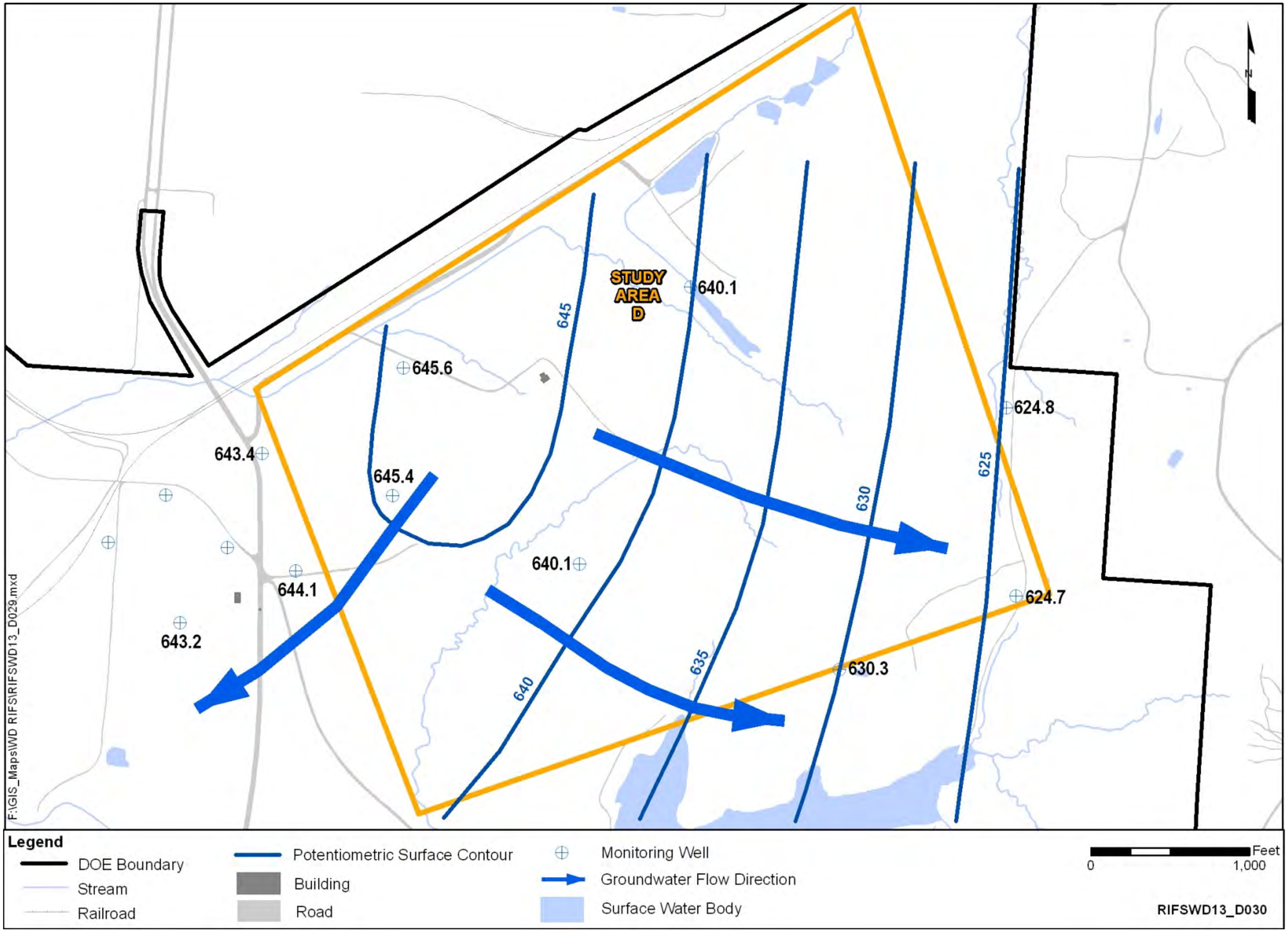


Figure D.30. Potentiometric Map of the Berea Sandstone in Study Area D at PORTS (Based on August 2012 Data)

Figure D.10 indicates that most of Study Area D, which is underlain by shale, has a relative pollution potential ranging from 95 to 103. This would be expected because the unconsolidated Gallia does not exist over the upland areas of Study Area D, and the permeability of the shale bedrock reduces the overall recharge in that area. The rate of groundwater flow, and potential contaminant migration, vertically through the Cuyahoga Formation and the Sunbury shale is expected to be very slow. Even where sandstone lenses occur within the Cuyahoga, they are thin (2 ft thick or less) and often not continuous over wide areas, with the exception of the 680-ft sandstone. The northern and western portions of the study area have a higher pollution potential where the Minford/Gallia exists.

Similar to Study Area C, Study Area D is underlain by thick shale that is composed mostly of clay minerals within the unsaturated zone. The retardation process for contaminants will be a very important process. The movement of a contaminant from a disposal facility at Study Area D is likely much slower in the unsaturated zone than at Study Areas A and B. While this area was not specifically modeled for the preliminary WAC developed in the work plan, the results would be similar to Study Area C due to the geologic characteristics of the location. Because of the thick shale present, Study Area D, similar to Study Area C, will provide greater protection to groundwater than Study Areas A and B.

Based on the soil survey of Pike County, four soil types occur within the Study Area D boundary (USDA 1990). The two most common soil series are present in the upland area that makes up most of the study area. The Rarden series consists of moderately deep, moderately well-drained, slowly permeable soils formed in acid, clayey shale residuum on ridgetops and hillsides. The Coolville series, nearer the tops of the ridges, consists of deep, moderately well-drained soils formed in a thin silty mantle weathered from acid shale that has thin strata of siltstone.

Another soil type present within Study Area D is Omulga silt loam in the northwestern portion of the study area. The surface layer of Omulga silt loam is dark grayish-brown, friable, and approximately 10 in. thick. The subsoil is approximately 54 in. thick and is composed of three portions: (1) a yellow-brown, friable silt loam; (2) a fragipan (brittle, compacted subsurface soil) of yellow-brown, mottled, firm, and brittle silty clay loam; and (3) a yellow-brown, mottled, friable silt loam approximately 20 in. thick.

The fourth soil type found in Study Area D is the Latham-Wharton silt loam. The Latham and Wharton series are characterized as moderately deep, slowly permeable soils formed in colluviums and residuum derived from acid shale with thin layers of siltstone and fine-grained sandstone. In Study Area D, the Latham-Wharton silt loam is found along the intermittent drainages formed on hillsides.

D.5.2 SURFACE WATER RESOURCES

There are no perennial streams within Study Area D. The area lies mostly within the drainage area of Little Beaver Creek, which drains the eastern and northern portions of PORTS before discharging into Big Beaver Creek.

The western portion of Study Area D is drained by an approximately 0.8-mile-long, unnamed, intermittent/ephemeral tributary to Little Beaver Creek. Portions of this stream have been tentatively classified as a Class IIIA Primary Headwater Habitat (PHWH) stream. Class III PHWH streams are defined as perennial streams with moderately to highly diverse biologic communities (Ohio EPA 2012a). On April 9-10, 2012, a Level 1 Assessment of the physical habitat and geomorphic characteristics of several streams in Study Area D was performed by DOE. A total of eight PHWH stream systems were identified with a total of 22 individual streams present within Study Area D. The stream discussed above, south and southwest of the X-114A New Firing Range, was classified as a probable Class III PHWH in a 1,672 ft reach downstream of the firing range. Approximately 1,250 ft of the same stream was preliminarily identified as a Class II interstitial PHWH stream system. A Level 2 Assessment was performed in 2013 to support the final determination of stream classification. Other than the presence of the two-lined salamander, physical and biological data for the streams classified as Class IIIA would have indicated a Class II designation. No streams in Study Area D were assigned a provisional Class IIIB PHWH classification, which would indicate high quality, coldwater habitat conditions. Section 2 of the RI/FS report contains more detail on the stream study in Study Area D.

A small portion of Study Area D along the eastern boundary drains to an unnamed tributary to Big Beaver Creek. This unnamed tributary joins Big Beaver Creek approximately 750 ft downstream from the DOE property boundary.

Little Beaver Creek is a small, high-gradient, unmodified stream that receives the majority of its flow from the X-230J7 East Holding Pond discharge through the East Drainage Ditch. Little Beaver Creek also receives effluent via the Northeast Drainage Ditch through the outfall from the X-230J6 Northeast Holding Pond and via the North Drainage Ditch through the outfall from the X-230L North Holding Pond. Substrates are predominantly slab boulders and bedrock at the upper reach to gravel and sand near the mouth of the stream. During parts of the year, intermittent flow conditions exist upstream from the X-230J7 discharge. During the summer/fall low-flow time of the year, the upstream section is composed of shallow, isolated pools with intermittent flow (Ohio EPA 2006).

Several seeps have been observed in Study Area D. These seeps appear to be ephemeral in nature and primarily occur as interflow and/or throughflow (i.e., subsurface stormflow) following precipitation events. Water infiltrates laterally into the regolith for a relatively short distance and discharges on hillsides as ephemeral seeps (throughflow returning as wet weather conveyances) or directly into streams (interflow). Based on the variability of the seep elevations, most of the seeps do not appear to be associated with any particular sandstone lenses or layers, but they are generally found at the interface above the weathered bedrock surface. In some instances, groundwater may discharge from either sandstone lenses or bedding plane partings in the weathered bedrock to create seeps along the hillside. Of the 56 seeps identified to date, fewer than 10 appear to be related to specific sandstone layers (either the 720-ft sandstone lenses or the 680-ft sandstone layer). Section 2.2.2.3 of the RI/FS report provides additional information on the investigation of these seeps. If a potential disposal cell were to be constructed in this area, it is important to note that the regolith (and this interflow zone) would be removed for installation of the bottom liner directly on top of competent bedrock.

D.5.3 ECOLOGICAL RESOURCES

Study Area D is primarily forest with two large areas of grassland. Man-made features are sparse in this study area, consisting only of the X-114A New Firing Range (near the center), its access road, and two unimproved roads.

Six jurisdictional wetlands (Q4-17, Q4-19, Q4-20, Q4-46, Q4-47, and Q4-48) are located partially or entirely within Study Area D. The wetlands in Study Area D, identified in a previous study, are described in Table D.6 (LMES 1996).

Table D.6. Wetlands in Study Area D

Wetland Number	Status	Acreage	Location	Comments
Q4-15	Nonjurisdictional	0.114	X-611B	Sludge lagoon
Q4-17	Jurisdictional	0.229	Fog Road	Natural area; past disturbance
Q4-19	Jurisdictional	0.447	North Borrow Area	Part drainage ditch
Q4-20	Jurisdictional	0.389	North Borrow Area	Drainage ditch
Q4-46	Jurisdictional	0.040	North Borrow Area	Borrow area
Q4-47	Jurisdictional	0.499	North Borrow Area	Drainage ditch
Q4-48	Jurisdictional	0.564	North Borrow Area	Drainage ditch; beaver activity

Source: LMES 1996

LMES = Lockheed Martin Energy Systems, Inc.

An updated wetland evaluation of Study Area D was conducted in 2013; Section 2 of this RI/FS report provides more details on this study. Of the 24 wetlands identified in this study, 10 were designated as Category 1 (0.285 total acres), eight were designated as Category 2 (3.369 total acres), and six were designated as a Modified Category 2 (0.549 total acres). No high-quality Category 3 wetlands were identified in Study Area D. There is relatively good correlation to the jurisdictional wetlands identified in the 1996 study, but generally, those wetlands are now smaller (Stantec Consulting Services [Stantec] 2013).

No endangered species habitat areas or endangered plant species are present in Study Area D; there are no endangered or threatened fish species or exceptional warmwater streams within the boundaries of Study Area D. Ohio University is conducting a detailed habitat mapping study that will be completed in early 2013. Preliminary findings from this study, using updated guidelines, are that Indiana bat habitat may be more extensive than indicated in prior studies. The primary trees that produce exfoliating bark and nesting cavities (e.g., sycamore and shagbark hickory) are abundant in the older forest habitats, including forest habitats in Study Area D (Ohio University 2012). Figure D.31 shows the results of the preliminary habitat mapping in Study Area D.

D.5.4 CULTURAL RESOURCES

Three of the 36 archaeological sites identified during the 1996-1997 Phase I archaeological survey are located within Study Area D. In the January-February 2012 Phase I archaeological survey in Survey Areas 1 and 2, which encompassed all of Study Area D, 15 additional archaeological sites were identified (Mustain 2013). Seven of these sites are located entirely within Study Area D with one located partially within Study Area D.

One site appears to be located immediately outside the east boundary of Study Area D, but the formal boundaries of Study Area D have not been precisely determined on the ground by a civil land survey. Therefore, a future land survey could determine that a portion of that site actually lies within Study Area D. This site appears to have a substantial historic component and a minor prehistoric component represented by a single isolated find of one chert artifact.

Three sites had potential historic properties and additional Phase II archaeological testing was conducted to further evaluate their eligibility for listing on the NRHP. Two of the sites are recommended as eligible for listing on the NRHP.

The only architectural resource identified in Study Area D is the X-114A New Firing Range, which is located near its center.

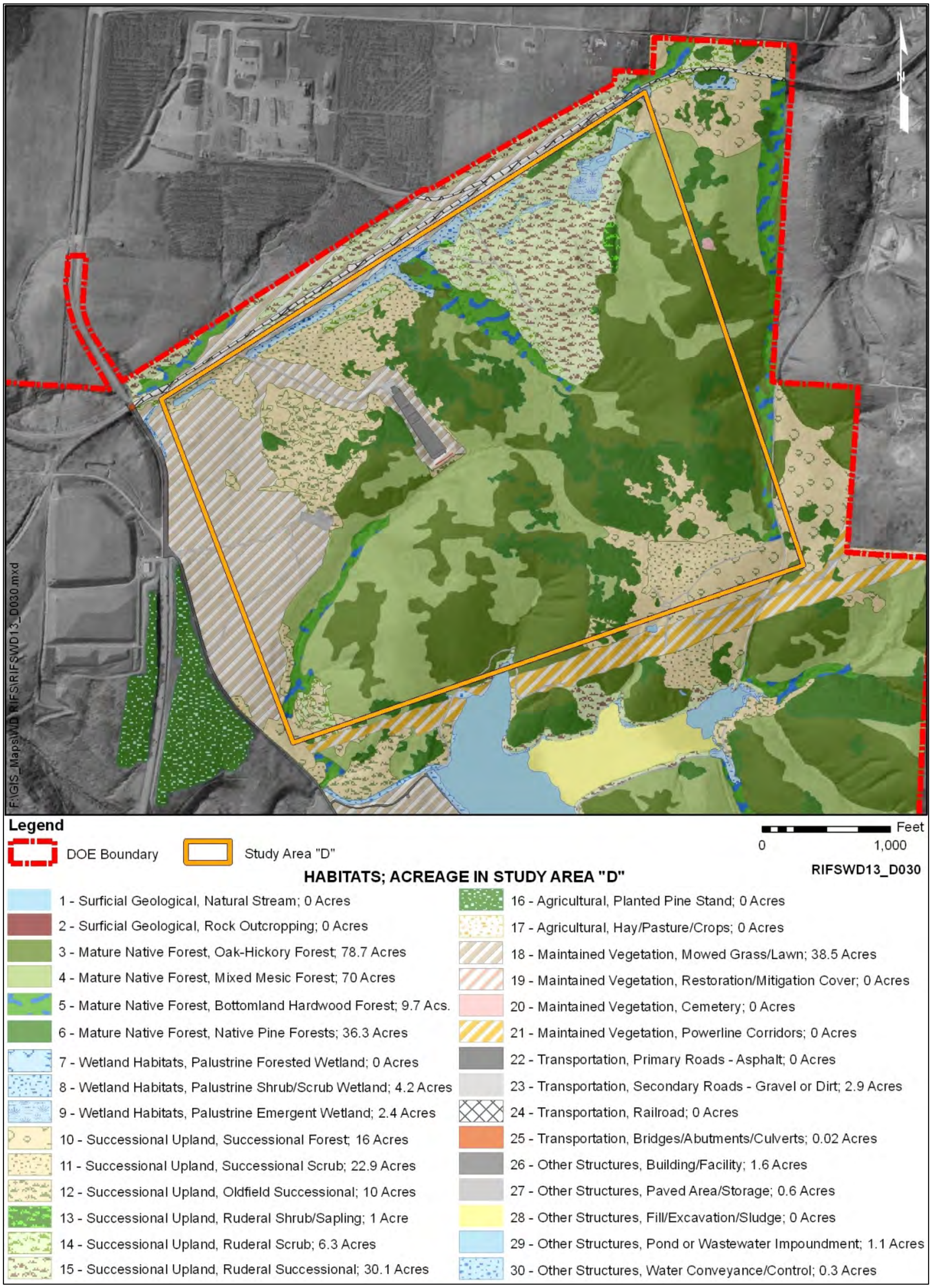


Figure D.31. Preliminary Habitats for Study Area D

D.6 LOCATION SELECTION

This section presents a summary of the siting requirements and provides an evaluation of the four study areas to determine which study area will be the representative location for evaluation in the RI/FS. The areas first undergo a screening to identify those areas considered preferable for further evaluation. Areas that do not pass this screen are dropped from further consideration in the RI/FS or design process.

The remaining areas are then evaluated further to determine which area will be considered for development of a potential OSDC. The final selection criteria were derived from the *April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O) (Ohio EPA 2012b) requirements (protective of human health and the environment and compliance with applicable or relevant and appropriate requirements [ARARs]) and other important constructability and operational factors, as well as stakeholder input. For construction/operational objectives, it is important that the selected study area be available to meet the overall PORTS D&D schedule, that it accommodates a reasonable construction schedule, that it be sufficiently distant from the DOE boundary to provide an adequate buffer zone, that it minimizes site preparation activities, that it is near the D&D activities to minimize hauling efforts, and that it can accommodate a large enough cell to meet projected future disposal needs.

D.6.1 SITING REQUIREMENTS

The ARARs and to-be-considered (TBCs) identified in Appendix F address siting, design, construction, operation, capping, and post-operations care for a potential OSDC. These ARARs and TBCs include landfill siting requirements under Toxic Substances Control Act of 1976 (TSCA), Subtitle C of RCRA (federal and analogous state regulations), and DOE Order 435.1-1, as well as certain State of Ohio regulations (*OAC* 3745-27) deemed applicable or relevant and appropriate by the DFF&O parties for siting solid waste disposal facilities. Appendix F also includes location-specific ARARs and TBCs that include siting considerations to protect sensitive resources (such as wetlands, floodplains, critical habitats, streams).

The siting requirements and considerations can be grouped generally as floodplains, wetlands, seismic considerations, hydrologic considerations, suitable terrain, land use, buffers, and ecological and cultural considerations.

TSCA. The TSCA chemical waste landfill design requirements in 40 *CFR* 761.75 generally follow the RCRA hazardous waste landfill design requirements but TSCA also specifies that the bottom of the landfill liner system must be located 50 ft above the historical high groundwater mark and that there must be no hydrologic connection between the disposal facility and any surface water (40 *CFR* 761.75[b][3]). If the on-Site waste disposal alternative is selected, a waiver of the TSCA requirement that the bottom of a landfill liner be 50 ft above the historical high groundwater table may need to be sought, depending on the candidate location that is chosen, or disposal of TSCA waste would be forbidden in the area of the cell that cannot meet this requirement.

RCRA. The federal and State of Ohio regulations for siting RCRA Subtitle C hazardous waste disposal landfills include floodplain and seismic considerations, as well as siting restrictions. Hazardous waste disposal facilities must not be located within 200 ft of a fault that had displacement in Holocene time and must not be located within the boundaries of a state park or state park purchase area or national park or recreation area or national park candidate area. The RCRA regulations don't forbid locating a facility in a 100-year floodplain, but do require that such a facility be designed, constructed, operated, and maintained to prevent washout of any hazardous waste by a 100-year flood.

Ohio solid waste regulations. Ohio's rules (*OAC* 3745-27) for siting solid waste disposal facilities identify five location restriction demonstrations: airport safety, regulatory floodplain, Holocene fault, seismic impact zone and unstable area. A landfill cannot be located within a "regulatory floodplain," in a "seismic impact zone," or in an "unstable area" as these terms are defined in *OAC* 3745-27-01. A landfill cannot be located within 200 ft of a Holocene fault, within 10,000 ft of any airport runway end used by turbojet aircraft, or within 5,000 ft of any airport runway end used by only piston-type aircraft. Ohio does not identify wetlands as a location restriction demonstration, but does address the federal requirements as a prohibition from the construction of new units in a location until the Clean Water Act requirements are satisfied for that location. Floodplain, fault area, seismic impact zone, and unstable area restrictions address conditions that may have adverse effects on landfill performance that could lead to releases to the environment or disruptions of natural functions (for example floodplain flow restrictions). Airport safety, floodplain, and wetlands criteria are intended to restrict landfill units in areas where sensitive natural environments and/or the public may be adversely affected.

New solid waste landfills also cannot be in a national park or recreational area, sand or gravel pit, or limestone or sandstone quarry. New solid waste landfills cannot be within 1,000 ft of a national or state nature/wildlife preserve, national or state scenic river, special interest or research area, or stream area designated by Ohio EPA as a cold or warmwater habitat. Solid waste cannot be placed within 300 ft of a landfill's property line, within 1,000 ft of a residence, or within 200 ft of a stream, lake or natural wetland. A solid waste landfill cannot be located above a sole source aquifer (a sole source aquifer is federally designated as an area's primary source of water), in areas surrounding a public water supply well, or above an unconsolidated source of water, like sand or gravel beds, that are capable of supplying 100 gpm of water to a well that is within 1,000 ft of where solid waste is placed. Table D.7 provides a preliminary screening of the four study areas against the applicable siting ARARs from *OAC* 3745-27. Figures D.32 and D.33 show the proximity of the potential waste boundaries to many of these items.

Low-level radioactive waste. DOE Order 435.1-1 does not set specific siting restrictions for low-level radioactive waste disposal facilities but does require that potential locations be evaluated considering environmental characteristics, geotechnical characteristics, and human activities, including whether it is located in a floodplain, a tectonically active area, or in a zone of water table fluctuation. The Order also requires that potential locations with environmental and geotechnical characteristics, and human activities for which adequate protection cannot be provided through the facility design be deemed unsuitable for the location of the facility.

Additional location-specific restrictions. Certain location-specific ARARs included in Appendix F also restrict waste disposal activities that would have an impact on sensitive local resources such as wetlands or aquatic resources, state- or federal-listed threatened or endangered species or their habitat, or archeological or cultural artifacts or historic sites or Native American remains. A combination of state and federal regulations regulate such activities in order to minimize adverse impacts and provide for mitigation of unavoidable impacts.

Table D.7. Applicable Siting ARARs from *OAC* 3745-27

Requirement	**Study Area A**	**Study Area B**	**Study Area C**	**Study Area D**
The limits of solid waste placement of the landfill cannot be:				
Within 1,000 ft of or within a national park or recreation area or candidate area for potential inclusion in the national park system; or a state park or state park purchase area; or any property that lies within the boundaries of a national park or recreation area but that has not been acquired or is not administered by the secretary of the DOI (1,000-ft setback does not apply if obtain written authorization from the owner to locate within 1,000 ft);	✓	✓	✓	✓
In a sand or gravel pit;	✓	✓	✓	✓
In a limestone or sandstone quarry;	✓	✓	✓	✓
Above a federally designated sole source aquifer, unless granted an exemption by Ohio EPA;	✓	✓	✓	✓
Above an unconsolidated aquifer system capable of sustaining a yield of 100 gpm for a 24-hour period to a well located within 1,000 ft of where solid waste is placed, unless deemed acceptable by Ohio EPA.	**Note *a***	**Note *a***	✓	✓
The isolation distance between the uppermost aquifer system and the bottom of the recompacted soil liner of the landfill must be not less than 15 ft of in situ or added geologic material deemed acceptable by Ohio EPA.	✗	✗	✓	✓
The limits of solid waste placement of the landfill and any leachate ponds or lagoons cannot be located within the surface and subsurface areas of the following:				
Surrounding a public water supply well through which contaminants may move toward and may reach the well through underground geologic or man-made pathways within a period of 5 years;	✓	✓	✓	✓
A wellhead protection area or a drinking water source protection area for a public water system using groundwater.	✓	✓	✓	✓
Landfill cannot be located within an area of potential subsidence due to an underground mine or within the angle of draw of an underground mine unless the potential impact to the facility due to subsidence is minimized.	✓	✓	✓	✓
The limits of solid waste placement of the landfill cannot be within 1,000 ft of a water supply well or a developed spring unless one or more of the conditions listed in *OAC* 3745-27-07(H)(3)(c)(i) – (iv) is met.	✓	✓	✓	✓
Solid waste cannot be placed within 1,000 ft of the following natural areas:				
National or state nature/wildlife refuge or preserve;	✓	✓	✓	✓
National or state wild, scenic, or recreational river;	✓	✓	✓	✓
Special interest or research area; or	✓	✓	✓	✓
Stream area designated by Ohio EPA as a coldwater or exceptional warmwater habitat. (**Note *b***)	✓	✗	✓	✓

Table D.7. Applicable Siting ARARs from *OAC* 3745-27 (Continued)

Requirement	**Study Area A**	**Study Area B**	**Study Area C**	**Study Area D**
Solid waste cannot be placed:				
Within 300 ft of the landfill facility's property line, unless deemed acceptable by Ohio EPA;	✓	✓	✓	✓
Within 1,000 ft of a residence whose owner has not consented in writing to its location;	✓	✓	✗	✓
Within 200 ft of a stream;	✓	**Note *c***	✓	**Note *c***
Within 200 ft of a lake;	✓	✓	✓	✓
Within 200 ft of a wetland;	✓	✗	✓	✓
In a regulatory floodplain (as defined in *OAC* 3745-27-01) unless demonstrated that unit(s) will not restrict flow of the 100-yr flood, reduce the temporary water storage capacity of the floodplain, or result in washout of solid waste so as to pose a hazard to human health and the environment;	✓	✓	✓	✓
Within 200 ft of a fault that has had displacement in Holocene time unless it is demonstrated that a distance of less than 200 ft will prevent damage to the structural integrity of the facility and will be protective of human health and the environment;	✓	✓	✓	✓
In a "seismic impact zone" (as defined in *OAC* 3745-27-01) unless demonstrated that all containment structures, including liners, leachate collection systems, sedimentation ponds, and surface water control systems, are designed to resist the maximum horizontal acceleration in lithified earth material for the location;	✓	✓	✓	✓
In an "unstable area" (as defined in *OAC* 3745-27-01) unless demonstrated that engineering measures have been incorporated into the design of the facility to ensure that the integrity of the structural components will not be disrupted.	✓	✓	✓	✓

Note *a* – Both Study Areas A and B overlie an unconsolidated aquifer system; however, this aquifer is not capable of a sustained yield of 100 gpm for a 24-hour period.

Note *b* – Little Beaver Creek is formally classified pursuant to *OAC* 3745-1-09 (Table 9-1) as, among other uses, Warmwater Habitat. However, Ohio EPA's *Biological and Water Quality Study of Portsmouth Gaseous Diffusion Plant Streams* (2006) states that Little Beaver Creek meets criteria for warmwater habitat, and portions may attain "exceptional warmwater habitat" criteria. Only Study Area B lies within 1,000 ft of Little Beaver Creek.

Note *c* - Both Study Areas B and D include ephemeral to intermittent streams, which may be within 200 ft of the planned limits of waste. Portions of the intermittent streams in Study Area D have been identified as meeting the criteria for a Class IIIA Primary Headwater Habitat.

DOI = U.S. Department of the Interior
OAC = Ohio Administrative Code
Ohio EPA = Ohio Environmental Protection Agency

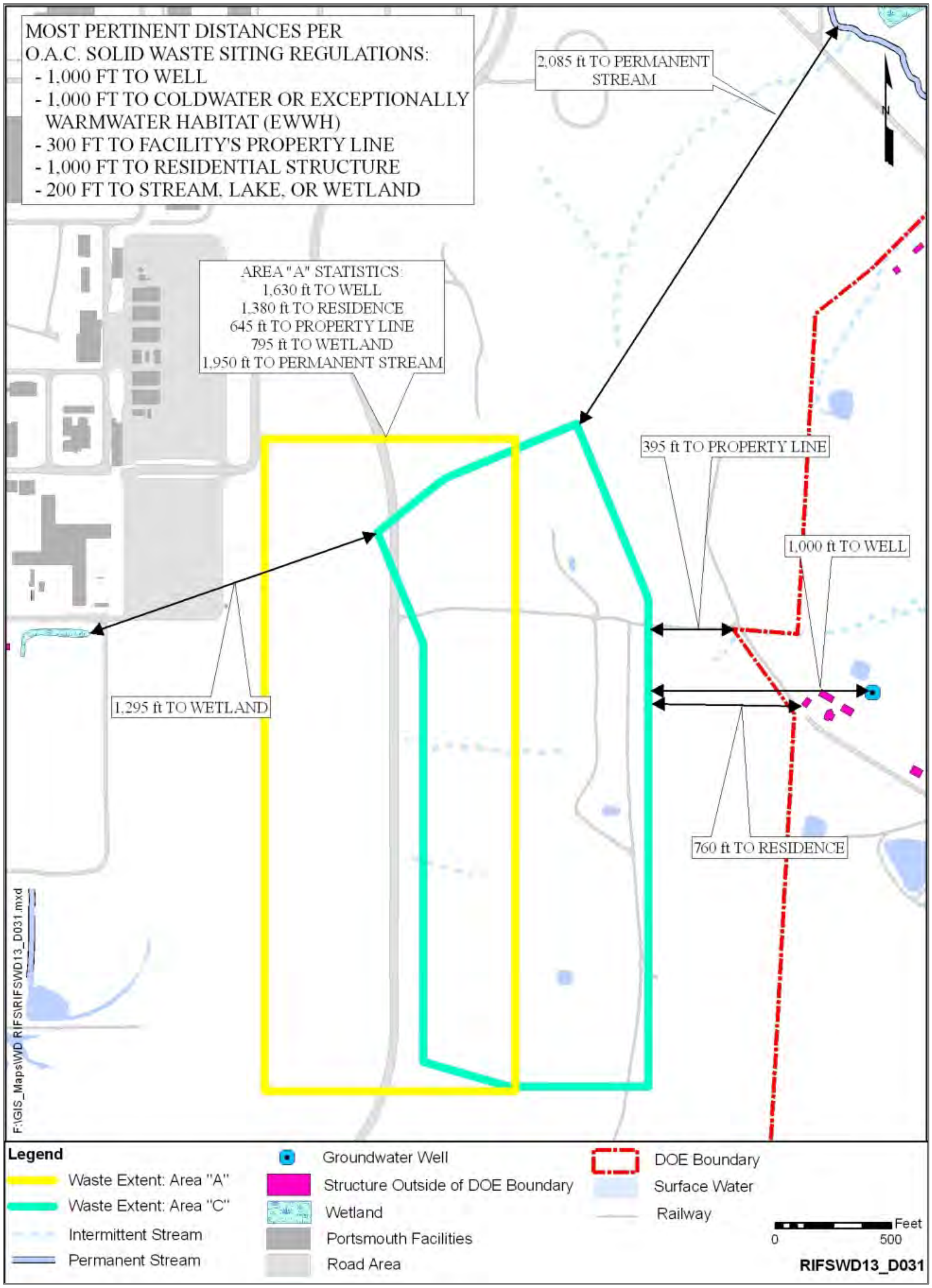


Figure D.32. Siting Considerations for Study Areas A and C at PORTS

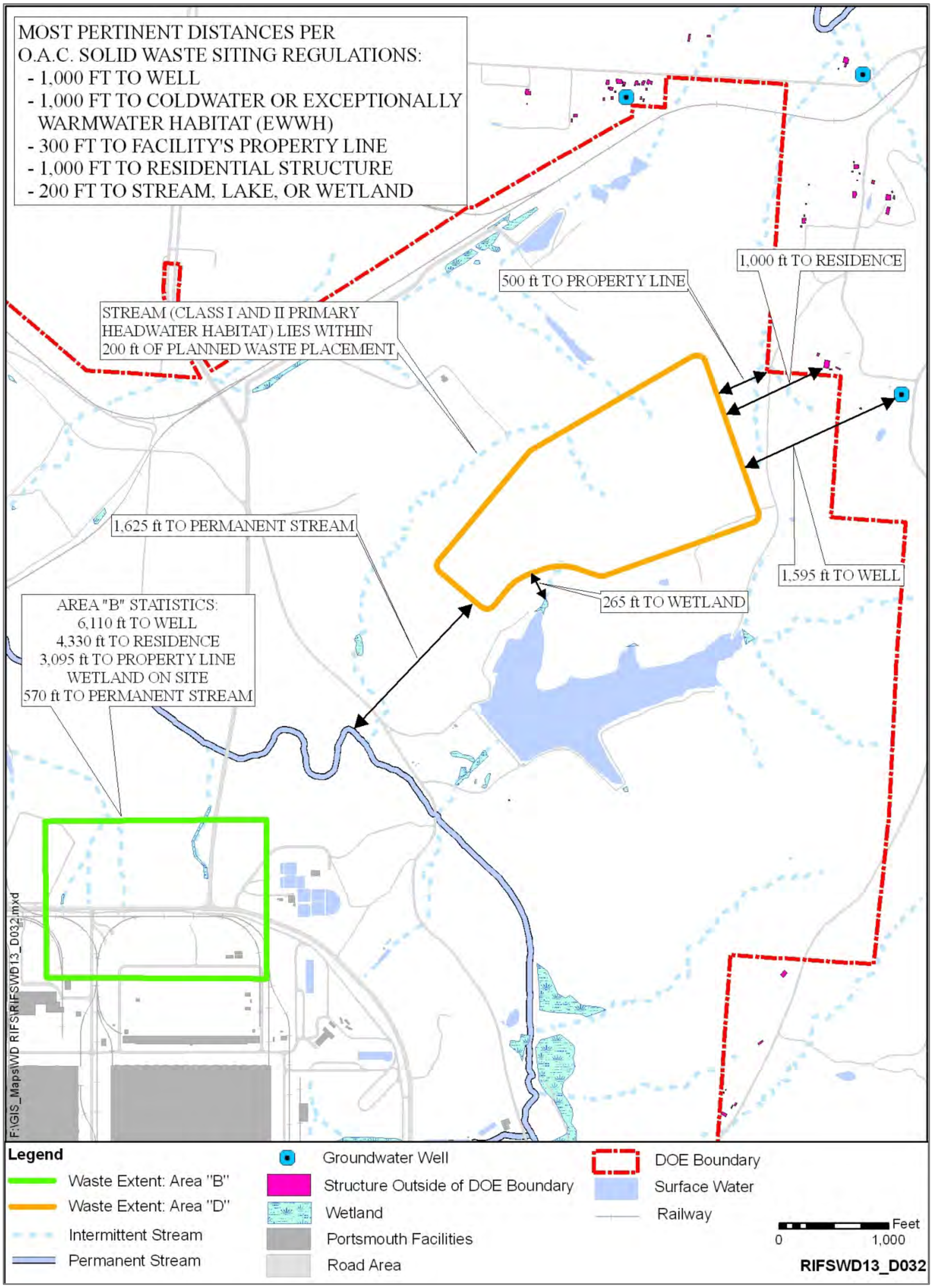


Figure D.33. Siting Considerations for Study Areas B and D at PORTS

D.6.2 SITE SCREENING

One of the primary criteria identified in the DFF&O for consideration of a potential OSDC (or any remedial action) is that it must be protective of human health and the environment. Any properly designed OSDC would be considered protective of human health and the environment because of the design of the impermeable cap and liner systems. However, within the compliance timeframe of 1,000 years or longer, the natural hydrogeologic conditions at each location must be further analyzed in differentiating the degree of protectiveness of the different study areas. Hydrogeologic conditions at each location determine the depth and migration (direction and rate) of groundwater. In the event contaminants migrate through the liner over time, the fate and transport of those contaminants will depend on the hydrogeologic and geochemical conditions of the underlying strata. While a shallow groundwater zone may exist within the regolith and weathered/jointed bedrock, most of this zone would be removed during construction of a potential OSDC. Table D.8 provides a comparison of the protectiveness of each of the study areas relative to each other.

Table D.8. Comparison of Protectiveness at Each Study Area

Criteria	Study Area A	Study Area B	Study Area C	Study Area D
Hydrogeologic Conditions	Study Area A overlies the ancestral river valley with the Gallia sand aquifer. Groundwater moves through the sand towards nearby surface water discharge in Big Run Creek. Minford water table is approximately 15 ft below surface.	Study Area B, similar to Study Area A, overlies the ancestral river valley with the Gallia sand aquifer. Groundwater moves through the sand towards nearby surface water discharge in Little Beaver Creek. Minford water table is less than 15 ft below surface.	Study Area C is underlain by low permeability bedrock. The uppermost aquifer at this study area, the Berea sandstone, is overlain by over 100 ft of low permeability Cuyahoga and Sunbury shale.	Study Area D is similar to Study Area C in that it is underlain by low permeability bedrock. The uppermost aquifer at this study area, the Berea sandstone, is overlain by up to 100 ft of low permeability Cuyahoga and Sunbury shale.
Contaminant Fate and Transport	pWAC modeling indicated Study Area A had travel times to reach peak dose similar to Study Area B (a few organic compounds reached the point of exposure in less than 1,000 years).	pWAC modeling indicated Study Area B had the fastest travel times to reach peak dose compared to the other locations (a few organic compounds reached the point of exposure in less than 1,000 years).	pWAC modeling indicated Study Area C had travel times to reach peak dose several times longer than either Study Areas A or B. No constituents reached peak dose in less than 1,000 years and many constituents took more than 150,000 years.	Study Area D was not modeled for the RI/FS work plan but since the hydrogeology is similar to Study Area C, and the distance to the DOE boundary is greater than Study Area C, the contaminant travel times should be similar, if not greater, than those at Study Area C.
Protectiveness Compared to Other Study Areas	Similar protectiveness as Study Area B; less protective than Study Areas C and D	Similar protectiveness as Study Area A; less protective than Study Areas C and D	Similar protectiveness as Study Area D; more protective than Study Areas A and B	Similar protectiveness as Study Area C; more protective than Study Areas A and B

DOE = U.S. Department of Energy
RI/FS = remedial investigation/feasibility study
pWAC = preliminary waste acceptance criteria (model results reported in the waste disposition RI/FS Work Plan [DOE 2012])

Based on the above analysis, Study Areas C and D are more protective of human health and the environment than Study Areas A and B, therefore Study Areas A and B may be eliminated from further consideration in the context of this siting study. While Study Areas C and D have private groundwater supplies located at closer distances than Study Areas A and B, the underlying hydrogeologic conditions favor much longer travel times for contaminants if released from a potential OSDC. While the differences in protectiveness between Study Areas C and D are not significant enough to eliminate either from further consideration, those differences are discussed in the following section.

D.6.3 EVALUATION OF REMAINING LOCATIONS

This section evaluates the effectiveness and implementability of the two remaining locations as a means to differentiate between them. The purpose of this evaluation is to assess the advantages and disadvantages of the two locations with respect to these general criteria to select a representative location for development of a potential OSDC for this RI/FS.

The effectiveness criterion considers the short- and long-term aspects of the protectiveness, compliance with siting requirements included in the ARARs, and ability to achieve remedial action objectives. As discussed in the previous section, the differences between protectiveness for Study Areas C and D are minor. Both locations have similar hydrogeologic conditions, and contaminant fate and transport at each location would therefore be similar. One area where the two areas differ is in the distances from the extent of waste placement to various points as described in the siting requirements (Table D.9). A greater distance to a point described in the siting requirements represents an additional measure of protectiveness within a given timeframe. As shown in Table D.9, a waste cell in Study Area D is located farther from the DOE boundary, nearest residence, and the nearest private well. A waste cell in Study Area C would be farther from the nearest perennial stream (with potential exceptional warmwater aquatic habitat status) and wetland. The limit of waste at Study Area D would be within 200 ft from an intermittent stream segment preliminarily identified as a Class IIIA PHWH stream. (Both Study Areas C and D include intermittent and/or ephemeral streams within their boundaries.) A waste cell in Study Area C would require a waiver of the siting ARARs because the edge of waste placement would be less than 1,000 ft from the nearest residence, while a waste cell in Study Area D would require a waiver of the siting ARARs because the edge of waste placement would be less than 200 ft from a surface stream.
Figure D.34 shows private groundwater wells located near Study Areas C and D, based on water well records from the ODNR.

Table D.9. Criteria for Evaluating Effectiveness of the Study Areas

Criteria	Study Area C (ft)	Study Area D (ft)
Distance to DOE Boundary	395	500
Distance to nearest residence	760*	1,000
Distance to nearest private groundwater supply	1,000	1,595
Distance to nearest stream (with potential exceptional warmwater aquatic habitat status)	2,085	1,625
Distance to nearest wetland	1,295	265

Distances are measured from “edge of waste placement” based on conceptual design.

*Required distance is 1,000 ft.

DOE = U.S. Department of Energy

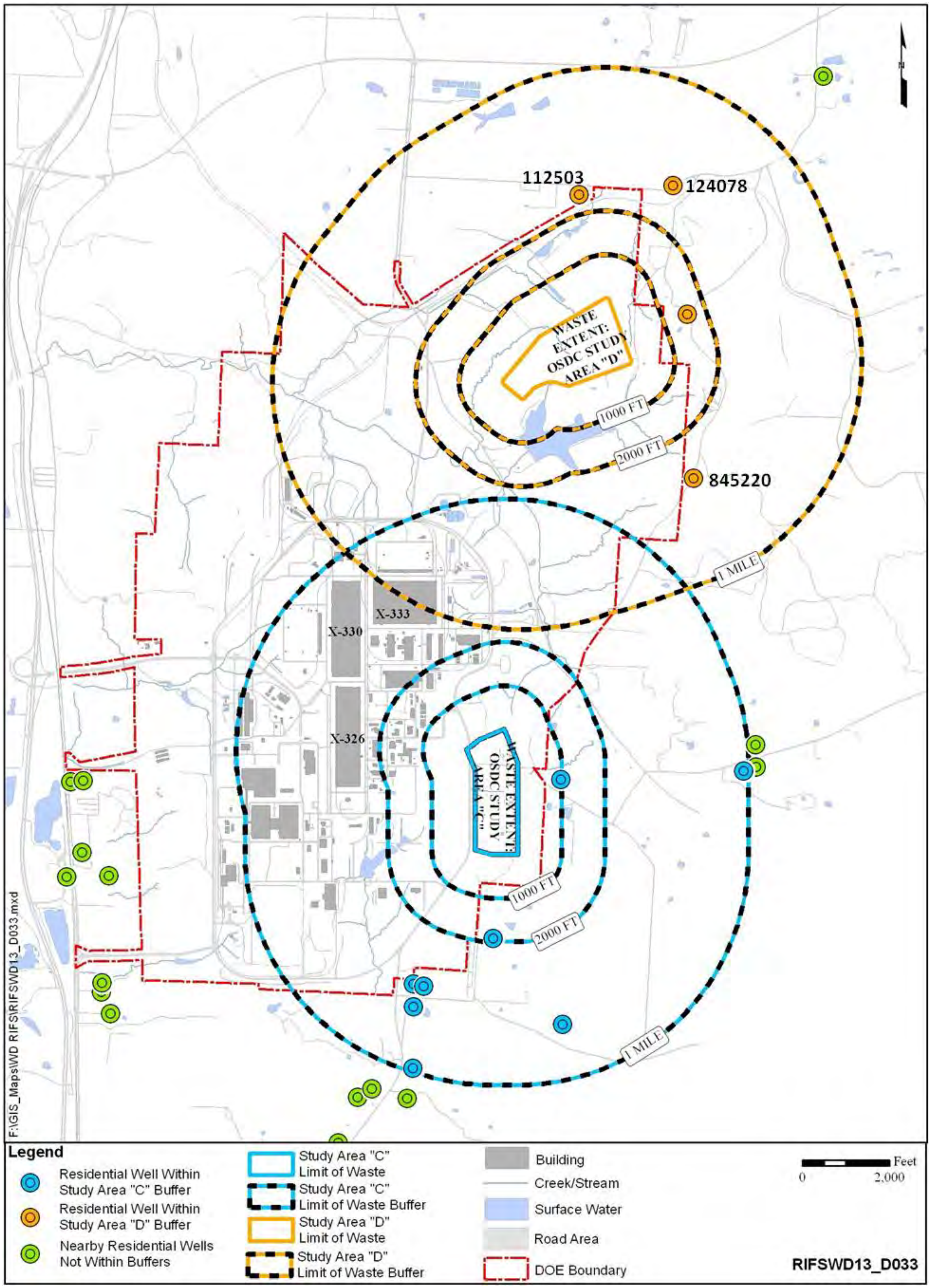


Figure D.34. Private Groundwater Wells Located Near Study Areas C and D at PORTS

The implementability criterion primarily considers the construction and operational considerations of the two locations. This criterion evaluates the amount of site preparation needed for the two locations, the ease of access from the D&D project activities, and the potential for expansion in the event that other wastes from PORTS need disposal in such a facility. Table D.10 compares these criteria for the two study areas.

Table D.10. Criteria for Evaluating Implementability of the Study Areas

Criteria	Study Area C	Study Area D
Site preparation for construction	Similar to Study Area D but would also require relocation of a natural gas pipeline and a portion of Perimeter Road	Requires removal of weathered bedrock to a stable depth with sufficient area for installation of a liner; no infrastructure removal or relocation required
Ease of access from future D&D activities	Closer to the D&D work than Study Area D; requires overpass installation	Farther from the D&D work than Study Area C; requires overpass installation
Potential for expansion to 5 million cy	No space for additional expansion beyond FS D&D capacity requirements (3.9 million cy)	Suitable space for expansion up to 5 million cy

D&D = decontamination and decommissioning
FS = feasibility study

The topography of both Study Areas C and D is hilly, and the areas are heavily wooded with thick vegetation in some areas. For site preparation at Study Area C, clearing and grubbing would be required across the entire area, with approximately 180 acres requiring tree removal. At Study Area D, there are areas of partial clearing, although clearing and grubbing would be required across most of the study area, with approximately 160 acres requiring tree removal. Because both Study Areas C and D contain mature forest habitat, avoiding any clearing during the months of April through September would protect the Indiana bat (even though one has never been seen at PORTS).

Construction of a potential OSDC at Study Area D would require much less overburden soil excavation than at Study Area C, but the amount of bedrock that must be ripped out is greater for the same depth below surface. This quantity can be modified by raising or lowering the base of the waste. The amount of landfill construction materials is comparable between the two locations.

The areal extent of competent bedrock for a potential OSDC at Study Area C is limited. To keep as much of the cell as possible over bedrock and still keep an acceptable distance from the PORTS eastern boundary, the capacity of the cell on bedrock is 2.4 million cy. To achieve sufficient capacity to allow most of the D&D waste to be disposed on Site, the cell would have to extend beyond the bedrock. This extension provides an additional capacity of 1.1 million cy, but the waste that is allowed in this lower area cannot be TSCA-regulated unless a waiver is obtained. The construction of two cells with different WAC could result in more operational complications during waste placement. Additional waste segregation would be required to ensure wastes that cannot meet the administrative WAC for the lower area are not placed there. Additionally, since a potential OSDC is smaller at Study Area C, a higher volume of waste would be required to be shipped off Site.

A potential OSDC at Study Area D has a larger waste storage capacity than the potential OSDC at Study Area C. Based on the location and geological subsurface, it is estimated that roughly 5.0 million cy of capacity is available, if needed. Therefore, the quantity of waste requiring off-Site disposal is far less than that for Study Area C. Further, the operation of a potential OSDC at Study Area D is less complicated than at Study Area C because all cells would have the same WAC, and no additional segregation of waste would be needed. Conceptual OSDC layouts at each study area are provided in Figures D.35 and D.36.

This analysis reflects the high significance placed on both study areas' underlying hydrogeology for limiting the migration of contamination in the event contaminants ever leached through the bottom composite liner. At Study Area D, excavation of much of the 720-ft sandstone lens zone during construction of the bottom liner, and isolation of any of this zone that remains beyond the footprint, will be specified in the final design of the sub-grade to sufficiently eliminate this layer from becoming a lateral pathway for migration of any contaminants outside of the OSDC footprint. Monitoring of the remaining portions of the 720-ft sandstone lens zone will be conducted as part of the overall OSDC monitoring system. Both study areas are considered to be more protective of human health and the environment and generally in compliance with ARARs. (Both Study Area C and D would require a waiver of one of the siting requirements.) Both areas could be developed to accommodate a cell with sufficiently high WAC to allow maximum use of a potential OSDC for containing waste generated from the D&D of the PORTS Facility. Several negative issues with Study Area C include insufficient room to build a potential OSDC that could eventually be expanded to accommodate up to 5 million cy of waste and fill and still keep the beneficial geologic conditions, the fact that more waste would require off-Site disposal, and that the facility at this location encroaches on the required distance to the nearest residence. Therefore, based on this siting analysis, Study Area D is selected as the representative location for alternative development in the RI/FS.

Siting Criteria Summary Relative to Study Area D

Criteria for siting a disposal cell are listed in *OAC* 3745-27-07(H). The proposed limits of waste placement at Study Area D in relation to these criteria are summarized below.

National Parks, National Recreation Areas, and State Parks

The proposed limits of waste placement would not be located within 1,000 ft of a national park or recreation area, candidate park for potential inclusion in the national park system, state park, or established state park purchase area.

Groundwater Aquifer Protection

The proposed disposal facility location is not located in a sand or gravel pit, in a sandstone or limestone quarry, over a sole source aquifer, or above an aquifer capable of producing 100 gpm for a 24-hour period to an existing or future water supply well within 1,000 ft of the limits of waste placement. The isolation distance between the uppermost aquifer system and the bottom of the recompacted soil liner would be greater than 15 ft. (The distance between the bottom of the liner to the top of the Berea sandstone, the uppermost aquifer system at Study Area D, is greater than 70 ft.)

Groundwater Setbacks

The proposed limits of waste would not be located within a 5-year time of travel to any existing or proposed public water supply well, wellhead protection area, or drinking water source protection area for a public water system using groundwater.

The proposed disposal facility location is not located within an area that has been mined underground.

The limits of waste placement would not be located within 1,000 ft of a water supply well or a developed spring.

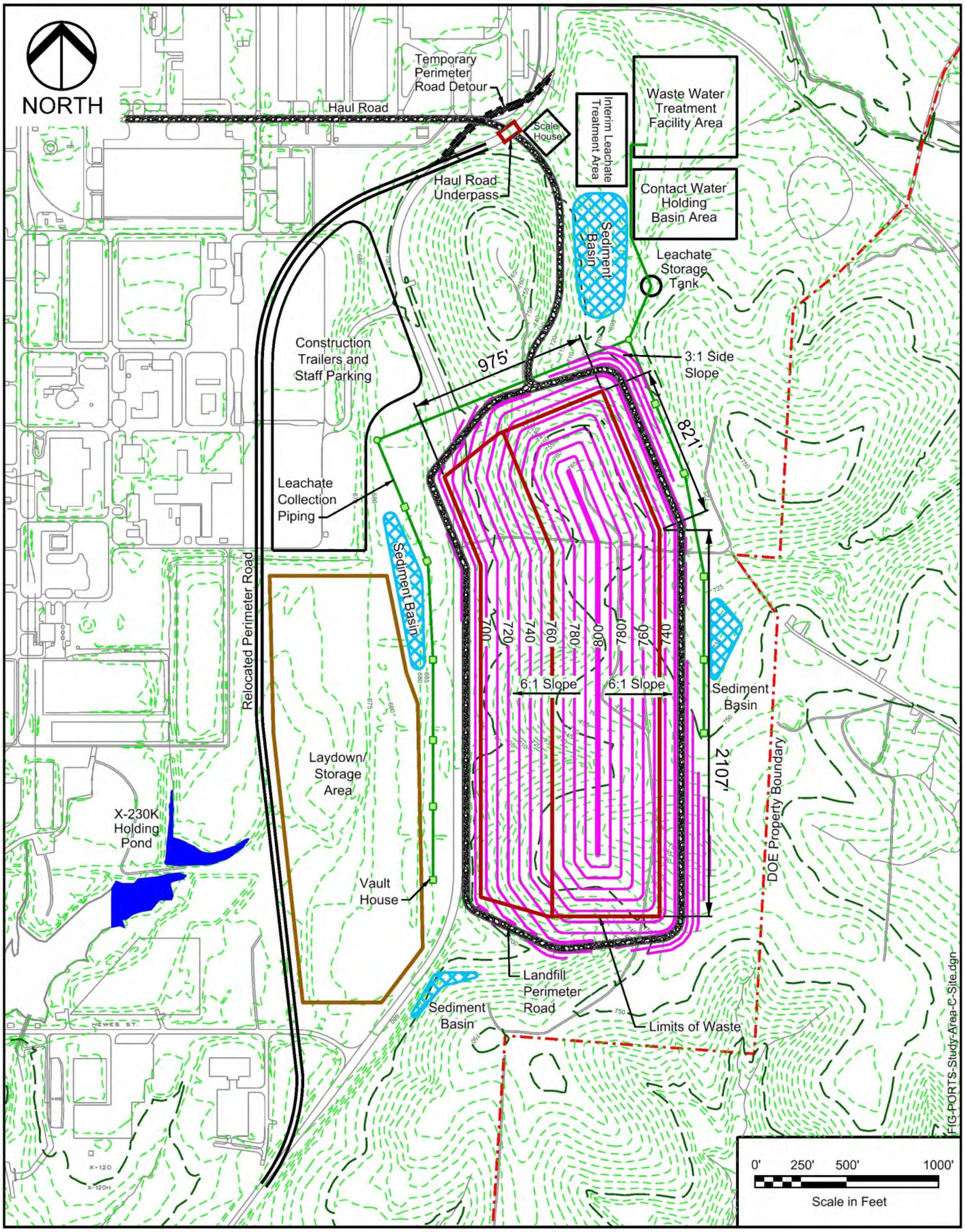


Figure D.35. Landfill Plan View – Finished Grading Plan for Study Area C at PORTS

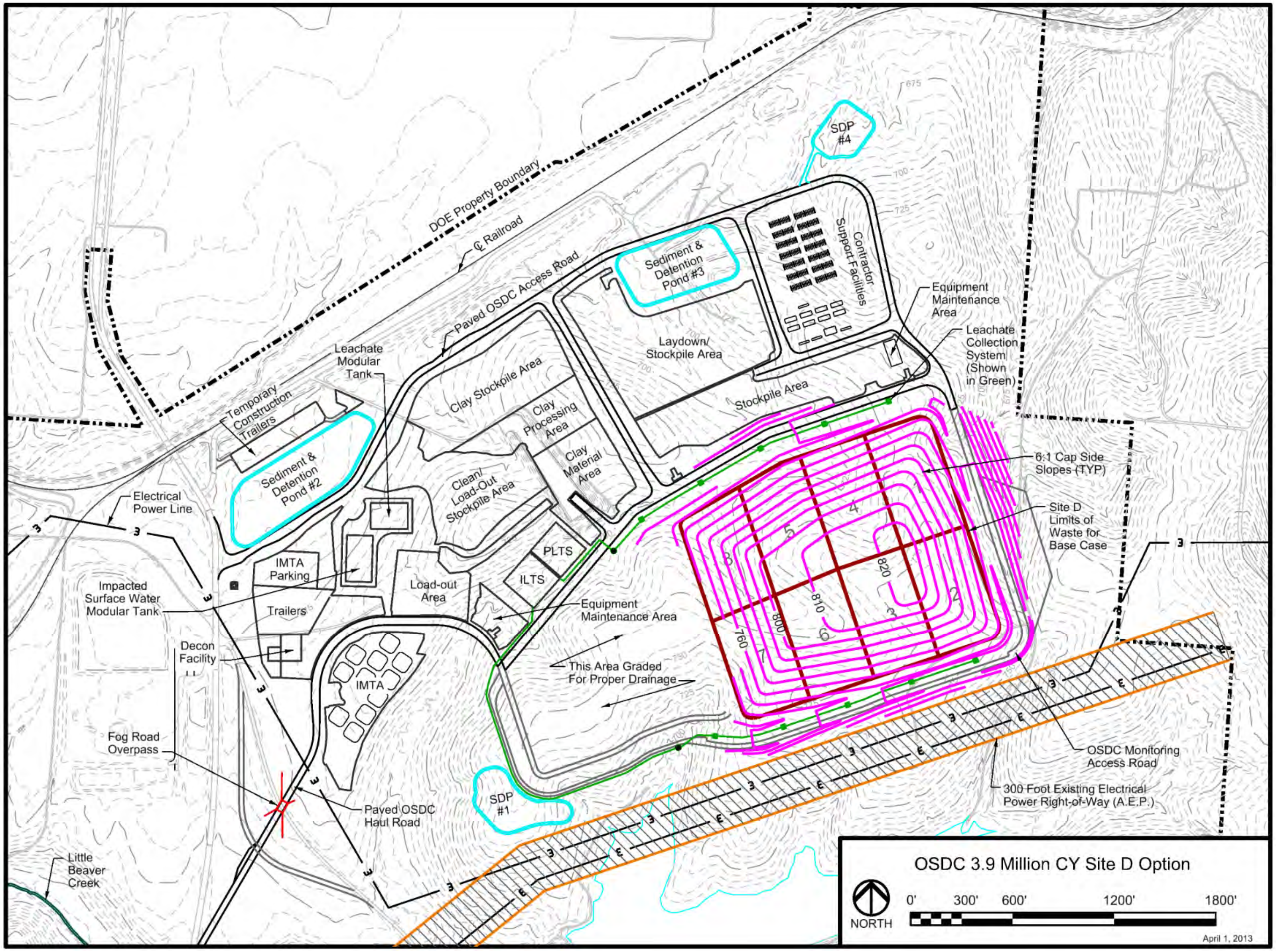


Figure D.36. Landfill Plan View – Finished Grading Plan for Study Area D at PORTS

General Setbacks
The limits of waste placement would not be located within 1,000 ft of areas designated by the ODNR as a state nature or wildlife preserve; a national or state wild, scenic, or recreational river; or an area designated as a special interest or research area.

The proposed disposal facility location is not located within 1,000 ft of a stream designated by Ohio EPA as a coldwater or exceptional warmwater habitat. The nearest streams, Little Beaver Creek and Beaver Creek, are designated as warmwater habitat in *OAC* 3745-0-09.

The limits of waste placement would not be located within 300 ft of the property line.

The limits of waste placement would not be located within 1,000 ft of a domicile.

The proposed limits of waste placement would not be within 200 ft of a lake or wetland. There is a stream in Study Area D, including portions that are designated as Class IIIA PHWH, that would be within 200 ft of the waste placement. The only ARAR waiver required is for the siting requirements in relation to this stream.

OAC 3745-27-20(C) requires a demonstration be made to show that the facility meets location restrictions for airports, floodplains, faults, seismic impact zones, and unstable areas. The following paragraphs provide the location restriction information.

The nearest airport, the Pike County Airport, is located approximately 9.1 miles (48,050 ft) from the proposed disposal facility location. This exceeds the 10,000-ft minimum distance required by *OAC* 3745-27-20(C)(1).

OAC 3745-27-20(C)(2) prohibits the limits of waste placement from being in a regulatory floodplain. The proposed disposal facility location is on the upland areas of the DOE property and does not lie within a 100-year floodplain as depicted on a Federal Insurance Administration flood map.

There are no fault zones with Holocene age displacement in the vicinity of Pike County. The proposed location meets the requirements of *OAC* 3745-27-20(C)(3).

The proposed disposal facility location meets the requirements of *OAC* 3745-27-20(C)(4) with regard to seismic impact zones. The peak ground acceleration is based on a U.S. Geological Survey National Seismic Hazard Map for Ohio (U.S. Geological Survey 2013), which shows a peak acceleration ranging from 0.06 g to 0.08 g with a 2 percent probability in 50 years.

The proposed disposal facility location meets the requirements of *OAC* 3745-27-20(C)(5). The location is not in an area prone to landslides or characterized by poor foundation or subsoil conditions, nor is it characterized as having karst geology. No landslides (historic or current) or areas of susceptibility to landsliding were identified during a field reconnaissance of Study Area D.

Public participation is integral to the DFF&O process. Soliciting public preference on the location of a potential OSDC is critical to the current evaluation of waste disposal alternatives at PORTS. The general siting approach and considerations have been discussed at the PORTS Site Specific Advisory Board (SSAB) meetings and recommendations from the SSAB on siting an on-Site landfill have been received. (The PORTS SSAB also has a subcommittee that is focused on on-Site waste disposition.) The SSAB recommended the following criteria be considered in siting a potential OSDC:

- Possible use of multiple smaller cells
- Ensure minimal footprint/waste minimization/recycling
- Reuse existing landfills if possible
- Areas not conducive for reuse should be considered
- Consider impact on cultural resources
- Blend with existing terrain
- No off-Site waste accepted
- Community benefit-land use management plans should be developed
- Cells should be latest cell technology
- Additional education for community members
- Complimentary use of cell space (solar panels, wind farms, etc.)
- Industrial use clean-up standard.

While no single location can accommodate all of these recommendations, they will be considered in the final selection and design. These criteria do not distinguish between the relative merits of Study Areas C and D; both meet these criteria equally.

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APPENDIX E: WASTE VOLUMES

ACRONYMS

ACM	asbestos-containing material
ACR	Area Control Room
D&D	decontamination and decommissioning
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE	U.S. Department of Energy
EBS	evacuation booster station
EC	engineering category
ERP	extended range product
FBP	Fluor-B&W Portsmouth LLC
FS	Feasibility Study
FY	fiscal year
HVAC	heating, ventilation, and air conditioning
LLW	low-level (radioactive) waste
MCC	Master Control Center
MLLW	mixed low-level (radioactive) waste
OSDC	on-Site disposal cell
PCB	polychlorinated biphenyl
PG	process gas
PGM	process gas mover
PORTS	Portsmouth Gaseous Diffusion Plant
PW	product withdrawal
QI	Quadrant I
QII	Quadrant II
QIII	Quadrant III
QIV	Quadrant IV
RA	remediation area
RC	regulatory category
RCRA	Resource Conservation and Recovery Act of 1976 (as amended)
RCW	recirculating cooling water
RI	Remedial Investigation
SWMU	solid waste management unit
TCA	trichloroethane
TCE	trichloroethene
TSCA	Toxic Substances Control Act of 1976

This appendix presents a detailed breakdown of decontamination and decommissioning (D&D) (regulatory category [RC]-1) and non-D&D (RC-2) waste volumes used to develop each alternative described in this waste disposition Remedial Investigation/Feasibility Study (RI/FS) report.

The waste volume information presented in this appendix is a waste generation forecast based on a "snap-shot" in time, but it is based on the best professional judgment of the U.S. Department of Energy (DOE), including lessons learned from similar DOE projects. The information in this section is consistent with planning assumptions established in the waste disposition RI/FS Work Plan (DOE 2011). The waste forecast for the Portsmouth Gaseous Diffusion Plant (PORTS) has been developed and examined over many years and was most recently formalized in the Fluor B&W Portsmouth LLC (FBP) project baseline for PORTS. The waste generation forecast will continue to be reviewed extensively as preparations and plans for PORTS D&D mature.

Currently, the waste generation forecast is 1.47 million cy of waste to be generated from D&D of the three large gaseous diffusion buildings and numerous smaller buildings and/or facilities at PORTS (RC-1, engineering category [EC]-1 and EC-2). The volume of waste aligns with the present scope of *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O) agreement between DOE and the Ohio Environmental Protection Agency. During demolition, approximately 53,000 cy of residual soil (RC-1, EC-1) are anticipated to be generated. This soil volume is included in the 1.47 million cy volume estimate.

The vast majority of waste expected to be generated during D&D of the PORTS Facility (RC-1) will originate from the three large gaseous diffusion process buildings: X-326, X-330, and X-333. The waste volumes include the structure of each facility, all process and industrial equipment within each facility, and the facility slabs (Attachments E.1, E.2, and E.3). The balance of plant effort consists of hundreds of smaller facilities and includes waste that may be generated before the waste disposition decision is final (Attachment E.4). In this case, the waste will be disposed off Site under an earlier DFF&O decision document. Residual soil (RC-1, EC-1) has been separated in the accompanying tables (Attachment E.5).

The RI/FS also evaluates the impacts of potentially disposing of the Ohio Consent Decree waste (RC-2 as shown in Attachment E.6). An estimate of 710,000 cy is used to represent this volume. Placement of such non-D&D waste as fill would need to meet the requirements of the waste acceptance criteria for the potential on-Site disposal cell (OSDC) in order to be protective of human health and the environment, although additional regulatory approval would be necessary for such excavation of non-D&D waste and the subsequent placement of non-D&D waste in a potential OSDC.

This waste forecast estimate is reasonably conservative, with appropriate accuracy and precision for assessing and estimating remedial alternatives developed in this waste disposition RI/FS report. The volume estimate evolves from field studies, process knowledge, facility walkdowns (including measurements of building structures and components), and engineering studies (including review of as-built drawings).

The accompanying tables are reports from the draft FBP Mass Flow Database, used to support development of the project baseline. These tables provide a detailed breakdown of the waste, by facility and commodity type, expected to be generated by each of the major projects during D&D of the PORTS Facility.

ATTACHMENT E.1: X-326 BUILDING VOLUMES (SUBSET OF RC-1, EC-2)

X-326 Building Volumes

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Junk Removal	X-326	LLW	67,798.5	2,511.1
Junk Removal	X-326	LLW	67,798.5	2,511.1
Mercury Lamps	X-326	Haz	400	14.8
Mercury Lamps	X-326	Haz	400	14.8
Mercury Switches	X-326	Haz	3	0.1
Mercury Switches	X-326	Haz	3	0.1
PCB Ballasts	X-326	Haz	47.25	1.8
PCB Ballasts	X-326	Haz	47.25	1.8
PCB Ballasts	X-326	Haz	47.25	1.8
PCB Ballasts	X-326	Haz	47.25	1.8
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
27-Size Converters	X-326	LLW	11,100	411.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
25-Size Converters	X-326	LLW	12,800	474.1
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
27-Size Compressors	X-326	LLW	7,981.2	295.6
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
25-Size Compressors	X-326	LLW	4,105.7	152.1
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Converters	X-326	LLW	432	16.0
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Compressors	X-326	LLW	396	14.7
Purge Cascade Condensers	X-326	LLW	44	1.6
Purge Cascade Condensers	X-326	LLW	44	1.6
Purge Cascade Condensers	X-326	LLW	44	1.6
External Stage Coolers	X-326	LLW	23,420	867.4
External Stage Coolers	X-326	LLW	23,420	867.4
External Stage Coolers	X-326	LLW	23,420	867.4
External Stage Coolers	X-326	LLW	23,420	867.4
Purge Cascade Motors	X-326	LLW	151.25	5.6
Purge Cascade Motors	X-326	LLW	151.25	5.6
Purge Cascade Motors	X-326	LLW	151.25	5.6
Purge Cascade Motors	X-326	LLW	151.25	5.6
Purge Cascade Speed Increasers	X-326	LLW	55	2.0
Purge Cascade Speed Increasers	X-326	LLW	55	2.0
Purge Cascade Speed Increasers	X-326	LLW	55	2.0

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Purge Cascade Speed Increasers	X-326	LLW	55	2.0
Purge Cascade Alumina Traps	X-326	MLLW	14	0.5
Purge Cascade Alumina Traps	X-326	MLLW	14	0.5
Purge Cascade Alumina Traps	X-326	MLLW	14	0.5
Purge Cascade Alumina Traps	X-326	MLLW	14	0.5
Purge Cascade Vacuum Pumps	X-326	LLW	32	1.2
Purge Cascade Vacuum Pumps	X-326	LLW	32	1.2
Purge Cascade Vacuum Pumps	X-326	LLW	32	1.2
Purge Cascade Vacuum Pumps	X-326	LLW	32	1.2
Process Gas Valves (G17)	X-326	LLW	35,891.5	1,329.3
Process Gas Valves (G17)	X-326	LLW	35,891.5	1,329.3
Process Gas Valves (G17)	X-326	LLW	35,891.5	1,329.3
Process Gas Valves (G17)	X-326	LLW	35,891.5	1,329.3
Process 'S' Type valves	X-326	LLW	121.75	4.5
Process 'S' Type valves	X-326	LLW	121.75	4.5
Process 'S' Type valves	X-326	LLW	121.75	4.5
Process 'S' Type valves	X-326	LLW	121.75	4.5
Process Gas Piping	X-326	LLW	6,589.75	244.1
Process Gas Piping	X-326	LLW	6,589.75	244.1
Process Gas Piping	X-326	LLW	6,589.75	244.1
Process Gas Piping	X-326	LLW	6,589.75	244.1
ERP High-speed Worthington Compressors	X-326	LLW	591.75	21.9
ERP High-speed Worthington Compressors	X-326	LLW	591.75	21.9
ERP High-speed Worthington Compressors	X-326	LLW	591.75	21.9
ERP High-speed Worthington Compressors	X-326	LLW	591.75	21.9
27-Size Condensers	X-326	LLW	1,238.46	45.9
27-Size Condensers	X-326	LLW	1,238.46	45.9
27-Size Condensers	X-326	LLW	1,238.46	45.9
27-Size Condensers	X-326	LLW	844.63	31.3
25-Size Condensers	X-326	LLW	393.22	14.6
25-Size Condensers	X-326	LLW	393.22	14.6
25-Size Condensers	X-326	LLW	393.22	14.6
25-Size Condensers	X-326	LLW	500.35	18.5
27-Size Motors	X-326	LLW	1,959.25	72.6
27-Size Motors	X-326	LLW	1,959.25	72.6
27-Size Motors	X-326	LLW	1,959.25	72.6
27-Size Motors	X-326	LLW	1,382.25	51.2
25-Size Motors	X-326	LLW	3,284.33	121.6
25-Size Motors	X-326	LLW	3,284.33	121.6
25-Size Motors	X-326	LLW	3,284.33	121.6
25-Size Motors	X-326	LLW	677.02	25.1
Local Cell Control Centers	X-326	LLW	5,322.71	197.1
Local Cell Control Centers	X-326	LLW	5,322.71	197.1
Local Cell Control Centers	X-326	LLW	5,322.71	197.1
Local Cell Control Centers	X-326	LLW	3,631.88	134.5
Cell Valve Motor Control Centers	X-326	LLW	5,561.69	206.0

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Cell Valve Motor Control Centers	X-326	LLW	5,561.69	206.0
Cell Valve Motor Control Centers	X-326	LLW	5,561.69	206.0
Cell Valve Motor Control Centers	X-326	LLW	3,794.94	140.6
375-hp Motors for PG Mover Station	X-326	LLW	5.16	0.2
375-hp Motors for PG Mover Station	X-326	LLW	5.16	0.2
375-hp Motors for PG Mover Station	X-326	LLW	5.16	0.2
375-hp Motors for PG Mover Station	X-326	LLW	3.52	0.1
Supply Fans	X-326	LLW	28,500	1,055.6
Supply Fans	X-326	LLW	28,500	1,055.6
Supply Fans	X-326	LLW	28,500	1,055.6
Exhaust Fans	X-326	MLLW	560	20.7
Exhaust Fans	X-326	MLLW	560	20.7
Exhaust Fans	X-326	MLLW	560	20.7
Exhaust Fans	X-326	MLLW	560	20.7
Ductwork	X-326	MLLW	35,619.75	1,319.3
Ductwork	X-326	MLLW	35,619.75	1,319.3
Ductwork	X-326	MLLW	35,619.75	1,319.3
Ductwork	X-326	MLLW	35,619.75	1,319.3
Air Filters	X-326	LLW	1,214.68	45.0
Air Filters	X-326	LLW	1,214.68	45.0
Air Filters	X-326	LLW	1,214.68	45.0
Air Conditioning Units	X-326	LLW	85.33	3.2
Air Conditioning Units	X-326	LLW	85.33	3.2
Air Conditioning Units	X-326	LLW	85.33	3.2
Roof Ventilators	X-326	LLW	62,720	2,323.0
Roof Ventilators	X-326	LLW	62,720	2,323.0
Roof Ventilators	X-326	LLW	62,720	2,323.0
Transformers (750-2000KVA)	X-326	MLLW	82,560	3,057.8
Transformers (750-2000KVA)	X-326	MLLW	82,560	3,057.8
MCC Associated #52	X-326	LLW	7,174.52	265.7
MCC Associated #52	X-326	LLW	7,174.52	265.7
MCC Associated #52	X-326	LLW	7,174.52	265.7
MCC Associated #52	X-326	LLW	4,895.44	181.3
Transformers (112-150KVA)	X-326	MLLW	270	10.0
Transformers (112-150KVA)	X-326	MLLW	270	10.0
MCC	X-326	LLW	5,214.08	193.1
MCC	X-326	LLW	5,214.08	193.1
MCC	X-326	LLW	5,214.08	193.1
MCC	X-326	LLW	3,557.76	131.8
Diesel Generator	X-326	LLW	381.28	14.1
Diesel Generator	X-326	LLW	381.28	14.1
Diesel Generator	X-326	LLW	381.28	14.1
Diesel Generator	X-326	LLW	260.16	9.6
Wiring, Conductor	X-326	LLW	16,974.27	628.7
Wiring, Conductor	X-326	LLW	16,974.27	628.7
Wiring, Conductor	X-326	LLW	16,974.27	628.7

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Wiring, Conductor	X-326	LLW	11,582.18	429.0
Cable Trays	X-326	LLW	3,652.07	135.3
Cable Trays	X-326	LLW	3,652.07	135.3
Cable Trays	X-326	LLW	3,652.07	135.3
Cable Trays	X-326	LLW	2,491.95	92.3
Transite Cable Trays	X-326	MLLW	1,672	61.9
Wireways	X-326	LLW	38,019.33	1,408.1
Wireways	X-326	LLW	38,019.33	1,408.1
Wireways	X-326	LLW	38,019.33	1,408.1
Wireways	X-326	LLW	25,942	960.8
Lighting Fixtures	X-326	LLW	1,139.32	42.2
Lighting Fixtures	X-326	LLW	1,139.32	42.2
Lighting Fixtures	X-326	LLW	1,139.32	42.2
Lighting Fixtures	X-326	LLW	688.03	25.5
Surge Drums	X-326	LLW	3,259.1	120.7
Surge Drums	X-326	LLW	3,259.1	120.7
Surge Drums	X-326	LLW	3,259.1	120.7
Surge Drums	X-326	LLW	2,222.71	82.3
Lube Oil Pumps	X-326	MLLW	86.9	3.2
Lube Oil Pumps	X-326	MLLW	86.9	3.2
Lube Oil Pumps	X-326	MLLW	86.9	3.2
Lube Oil Pumps	X-326	MLLW	59.29	2.2
Lube Oil Tanks	X-326	MLLW	17,761.2	657.8
Lube Oil Tanks	X-326	MLLW	17,761.2	657.8
Lube Oil Tanks	X-326	MLLW	17,761.2	657.8
Lube Oil Tanks	X-326	MLLW	12,116.4	448.8
Auxiliary Piping Systems	X-326	MLLW	25,269.98	935.9
Auxiliary Piping Systems	X-326	MLLW	25,269.98	935.9
Auxiliary Piping Systems	X-326	MLLW	25,269.98	935.9
Auxiliary Piping Systems	X-326	MLLW	17,238.07	638.4
Seal Exhaust (Vacuum) Pumps	X-326	MLLW	343.27	12.7
Seal Exhaust (Vacuum) Pumps	X-326	MLLW	343.27	12.7
Seal Exhaust (Vacuum) Pumps	X-326	MLLW	343.27	12.7
Seal Exhaust (Vacuum) Pumps	X-326	MLLW	234.19	8.7
Sprinklers and Interior Building Roof Drains	X-326	LLW	418.77	15.5
Sprinklers and Interior Building Roof Drains	X-326	LLW	418.77	15.5
Sprinklers and Interior Building Roof Drains	X-326	LLW	418.77	15.5
Sprinklers and Interior Building Roof Drains	X-326	LLW	285.7	10.6
Dry Air Plant	X-326	LLW	882.61	32.7
Dry Air Plant	X-326	LLW	882.61	32.7
Dry Air Plant	X-326	LLW	882.61	32.7
Dry Air Plant	X-326	LLW	602.16	22.3
Freon Storage Tanks	X-326	LLW	34.13	1.3
Freon Storage Tanks	X-326	LLW	34.13	1.3
Freon Storage Tanks	X-326	LLW	34.13	1.3
Freon Storage Tanks	X-326	LLW	25.6	0.9

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Freon Valves	X-326	LLW	47.29	1.8
Freon Valves	X-326	LLW	47.29	1.8
Freon Valves	X-326	LLW	47.29	1.8
Freon Valves	X-326	LLW	31.14	1.2
Freon Pumps and Motors	X-326	LLW	205.14	7.6
Freon Pumps and Motors	X-326	LLW	205.14	7.6
Freon Pumps and Motors	X-326	LLW	205.14	7.6
Freon Pumps and Motors	X-326	LLW	104.57	3.9
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Channel	X-326	LLW	297.55	11.0
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Rack	X-326	LLW	236.25	8.8
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
Instruments and Instrument Lines--Tubing	X-326	LLW	7,264.85	269.1
ACR Roof Square Footage	X-326	LLW	1,357.87	50.3
ACR Roof Square Footage	X-326	LLW	1,357.87	50.3
ACR Roof Square Footage	X-326	LLW	1,357.87	50.3
ACR Roof Square Footage	X-326	LLW	926.4	34.3
B-4 Pumps	X-326	LLW	0.54	0.0
B-4 Pumps	X-326	LLW	0.54	0.0
B-4 Pumps	X-326	LLW	0.54	0.0
B-4 Pumps	X-326	LLW	0.37	0.0
Battery Rooms	X-326	LLW	14.94	0.6
Battery Rooms	X-326	LLW	14.94	0.6
Battery Rooms	X-326	LLW	14.94	0.6
Battery Rooms	X-326	LLW	10.19	0.4
Process Electrical Heaters	X-326	LLW	9,407.3	348.4
Process Electrical Heaters	X-326	LLW	9,407.3	348.4
Process Electrical Heaters	X-326	LLW	9,407.3	348.4
Process Electrical Heaters	X-326	LLW	6,418.1	237.7
5 Ton Bridge Cranes	X-326	LLW	48,272.31	1,787.9
5 Ton Bridge Cranes	X-326	LLW	48,272.31	1,787.9
5 Ton Bridge Cranes	X-326	LLW	48,272.31	1,787.9
5 Ton Bridge Cranes	X-326	LLW	32,927.08	1,219.5
Process Equipment Power System Cable	X-326	LLW	749.19	27.7
Process Equipment Power System Cable	X-326	LLW	749.19	27.7
Process Equipment Power System Cable	X-326	LLW	749.19	27.7
Process Equipment Power System Cable	X-326	LLW	452.43	16.8
Auxiliary Power System Cable	X-326	LLW	981.44	36.3
Auxiliary Power System Cable	X-326	LLW	981.44	36.3
Auxiliary Power System Cable	X-326	LLW	981.44	36.3
Auxiliary Power System Cable	X-326	LLW	592.68	22.0

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
ACM Floor Tile	X-326	MLLW	134.5	5.0
ACM Floor Tile	X-326	MLLW	134.5	5.0
ACM Pipe Insulation	X-326	MLLW	921	34.1
ACM Pipe Insulation	X-326	MLLW	921	34.1
Concrete and Reinforcing Steel	X-326	LLW	4,413.33	163.5
Concrete and Reinforcing Steel	X-326	LLW	152,259.75	5,639.3
Concrete and Reinforcing Steel	X-326	LLW	4,413.33	163.5
Concrete and Reinforcing Steel	X-326	LLW	152,259.75	5,639.3
Concrete and Reinforcing Steel	X-326	LLW	4,413.33	163.5
Concrete and Reinforcing Steel	X-326	LLW	152,259.75	5,639.3
Concrete and Reinforcing Steel	X-326	LLW	189,773	7,028.6
Concrete and Reinforcing Steel	X-326	LLW	152,259.75	5,639.3
Structural Steel	X-326	LLW	81,633	3,023.4
Process Equipment Foundations	X-326	LLW	0.35	0.0
Process Equipment Foundations	X-326	LLW	12.75	0.5
Process Equipment Foundations	X-326	LLW	0.35	0.0
Process Equipment Foundations	X-326	LLW	12.75	0.5
Process Equipment Foundations	X-326	LLW	0.35	0.0
Process Equipment Foundations	X-326	LLW	12.75	0.5
Process Equipment Foundations	X-326	LLW	11.71	0.4
Process Equipment Foundations	X-326	LLW	12.75	0.5
Catwalks and Platforms	X-326	LLW	1,613.11	59.7
Catwalks and Platforms	X-326	LLW	1,613.11	59.7
Catwalks and Platforms	X-326	LLW	1,613.11	59.7
Catwalks and Platforms	X-326	LLW	1,100.68	40.8
Building Roof	X-326	LLW	341,766.65	12,658.0
Building Roof	X-326	LLW	341,766.65	12,658.0
Building Roof	X-326	LLW	341,766.65	12,658.0
Building Roof	X-326	LLW	233,200.05	8,637.0
Acoustical Tile	X-326	LLW	3,697.92	137.0
Acoustical Tile	X-326	LLW	3,697.92	137.0
Acoustical Tile	X-326	LLW	3,697.92	137.0
Acoustical Tile	X-326	LLW	2,523.23	93.5
Asphalt Tile	X-326	LLW	209.11	7.7
Asphalt Tile	X-326	LLW	209.11	7.7
Asphalt Tile	X-326	LLW	209.11	7.7
Asphalt Tile	X-326	LLW	142.68	5.3
Masonry Blocks	X-326	LLW	12,537.75	464.4
Masonry Blocks	X-326	LLW	12,537.75	464.4
Masonry Blocks	X-326	LLW	12,537.75	464.4
Masonry Blocks	X-326	LLW	12,537.75	464.4
Ceiling	X-326	LLW	26,070.4	965.6
Ceiling	X-326	LLW	26,070.4	965.6
Ceiling	X-326	LLW	26,070.4	965.6
Ceiling	X-326	LLW	17,788.8	658.8
Face Tile	X-326	LLW	80.38	3.0
Face Tile	X-326	LLW	80.38	3.0
Face Tile	X-326	LLW	80.38	3.0
Face Tile	X-326	LLW	54.85	2.0

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Ribbed Metal Lath	X-326	LLW	342.99	12.7
Ribbed Metal Lath	X-326	LLW	342.99	12.7
Ribbed Metal Lath	X-326	LLW	342.99	12.7
Ribbed Metal Lath	X-326	LLW	234.03	8.7
PW Area Walls	X-326	LLW	2,987.23	110.6
PW Area Walls	X-326	LLW	2,987.23	110.6
PW Area Walls	X-326	LLW	2,987.23	110.6
PW Area Walls	X-326	LLW	2,038.3	75.5
ERP Station Walls	X-326	LLW	59.74	2.2
ERP Station Walls	X-326	LLW	59.74	2.2
ERP Station Walls	X-326	LLW	59.74	2.2
ERP Station Walls	X-326	LLW	40.77	1.5
Building Exterior (Transite)	X-326	MLLW	4,270	158.1
Building Exterior (Transite)	X-326	MLLW	4,270	158.1
Building Exterior (Transite)	X-326	MLLW	4,270	158.1
Building Exterior (Transite)	X-326	MLLW	4,270	158.1
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Cell & Bypass Housings - Steel	X-326	LLW	15,372	569.3
Elevators	X-326	LLW	300.62	11.1
Elevators	X-326	LLW	300.62	11.1
Elevators	X-326	LLW	300.62	11.1
Elevators	X-326	LLW	205.13	7.6
Metal Doors	X-326	LLW	445.37	16.5
Metal Doors	X-326	LLW	445.37	16.5
Metal Doors	X-326	LLW	445.37	16.5
Metal Doors	X-326	LLW	303.89	11.3
Instrument Tunnel	X-326	Clean	40,945.5	1,516.5
Instrument Tunnel	X-326	Clean	40,945.5	1,516.5
Instrument Tunnel	X-326	Clean	40,945.5	1,516.5
Instrument Tunnel	X-326	Clean	40,945.5	1,516.5
Slab	X-326	LLW	181,089	6,707.0

X-326 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Slab	X-326	LLW	181,089	6,707.0
Slab	X-326	LLW	181,089	6,707.0
Slab	X-326	LLW	181,089	6,707.0
Footers, Piers, Grade Beams, and Walls	X-326	Crush and recycle 75% Clean, 25% LLW	118,692	4,396.0
Footers, Piers, Grade Beams, and Walls	X-326	Crush and recycle 75% Clean, 25% LLW	118,692	4,396.0
Footers, Piers, Grade Beams, and Walls	X-326	Crush and recycle 75% Clean, 25% LLW	118,692	4,396.0
Footers, Piers, Grade Beams, and Walls	X-326	Crush and recycle 75% Clean, 25% LLW	118,692	4,396.0
Rebar	X-326	LLW	353.47	13.1
Rebar	X-326	LLW	353.47	13.1
Rebar	X-326	LLW	2,365.53	87.6
Rebar	X-326	LLW	2,365.53	87.6
Truck Alley Concrete	X-326	LLW	2,700	100.0
Truck Alley Concrete	X-326	LLW	2,700	100.0
Truck Alley Concrete	X-326	LLW	2,700	100.0
Truck Alley Concrete	X-326	LLW	2,700	100.0
Truck Alley Steel	X-326	LLW	5.9	0.2
Truck Alley Steel	X-326	LLW	5.9	0.2
Truck Alley Steel	X-326	LLW	5.9	0.2
Truck Alley Steel	X-326	LLW	31.31	1.2
Underground Cooling Water Piping	X-326	LLW	1,649.85	61.1
Underground Cooling Water Piping	X-326	LLW	1,649.85	61.1
Underground Cooling Water Piping	X-326	LLW	1,649.85	61.1
Underground Cooling Water Piping	X-326	LLW	1,125.45	41.7

Total Cubic Yardage **246,850**

ATTACHMENT E.2: X-330 BUILDING VOLUMES (SUBSET OF RC-1, EC-2)

X-330 Building Volumes

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Junk Removal	X-330	LLW	74,507	2,759.5
Junk Removal	X-330	LLW	74,507	2,759.5
Lube Oil	X-330	Haz	391.5	14.5
Lube Oil	X-330	Haz	391.5	14.5
Mercury Lamps	X-330	Haz	400.01	14.8
Mercury Lamps	X-330	Haz	400.01	14.8
Mercury Switches	X-330	Haz	3.24	0.1
Mercury Switches	X-330	Haz	3.24	0.1
PCB Ballasts	X-330	Haz	47.25	1.8
PCB Ballasts	X-330	Haz	47.25	1.8
PCB Ballasts	X-330	Haz	47.25	1.8
PCB Ballasts	X-330	Haz	47.25	1.8
Capacitors	X-330	Haz	5,400	200.0
Capacitors	X-330	Haz	5,400	200.0
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
00' Converters	X-330	LLW	34,492.5	1,277.5
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9

X-330 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'0' Converters	X-330	LLW	32,531.95	1,204.9
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'00' Compressors	X-330	LLW	17,606.77	652.1
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7

X-330 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
'0' Compressors	X-330	LLW	20,754.55	768.7
Process Piping and Fittings	X-330	LLW	94,605	3,503.9
Process Piping and Fittings	X-330	LLW	94,605	3,503.9
Process Piping and Fittings	X-330	LLW	94,605	3,503.9
Process Piping and Fittings	X-330	LLW	94,605	3,503.9
'00' Recycle Coolers	X-330	LLW	1,807	66.9
'00' Recycle Coolers	X-330	LLW	1,807	66.9
'00' Recycle Coolers	X-330	LLW	1,807	66.9
'00' Recycle Coolers	X-330	LLW	1,807	66.9
'0' Recycle Cooler	X-330	LLW	2,085	77.2
'0' Recycle Cooler	X-330	LLW	2,085	77.2
'0' Recycle Cooler	X-330	LLW	2,085	77.2
'0' Recycle Cooler	X-330	LLW	2,085	77.2
Process Gas Valves	X-330	LLW	71,783.25	2,658.6
Process Gas Valves	X-330	LLW	71,783.25	2,658.6
Process Gas Valves	X-330	LLW	71,783.25	2,658.6
Process Gas Valves	X-330	LLW	71,783.25	2,658.6
EBS	X-330	LLW	500	18.5
EBS	X-330	LLW	500	18.5
EBS	X-330	LLW	500	18.5
EBS	X-330	LLW	500	18.5
Cold Trap Holding Drums	X-330	LLW	600	22.2
Cold Trap Holding Drums	X-330	LLW	600	22.2
Cold Trap Holding Drums	X-330	LLW	600	22.2
Cold Trap Holding Drums	X-330	LLW	600	22.2
Cold Trap Systems (cold recovery, drums, fittings)	X-330	LLW	1,000	37.0
Cold Trap Systems (cold recovery, drums, fittings)	X-330	LLW	1,000	37.0
Cold Trap Systems (cold recovery, drums, fittings)	X-330	LLW	1,000	37.0
Cold Trap Systems (cold recovery, drums, fittings)	X-330	LLW	1,000	37.0
Seal Exhaust/Wet Air Piping and Fittings	X-330	MLLW	1,675	62.0
Seal Exhaust/Wet Air Piping and Fittings	X-330	MLLW	1,675	62.0
Seal Exhaust/Wet Air Piping and Fittings	X-330	MLLW	1,675	62.0
Seal Exhaust/Wet Air Piping and Fittings	X-330	MLLW	1,675	62.0
Tails Withdrawal	X-330	LLW	591.75	21.9
Tails Withdrawal	X-330	LLW	591.75	21.9
Tails Withdrawal	X-330	LLW	591.75	21.9
Tails Withdrawal	X-330	LLW	591.75	21.9
Seal Exhaust/Wet Air Piping and Fittings	X-330	LLW	3,630	134.4

X-330 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Seal Exhaust/Wet Air Piping and Fittings	X-330	LLW	3,630	134.4
Seal Exhaust/Wet Air Piping and Fittings	X-330	LLW	3,630	134.4
Seal Exhaust/Wet Air Piping and Fittings	X-330	LLW	3,630	134.4
Surge Drums	X-330	LLW	37,000	1,370.4
Surge Drums	X-330	LLW	37,000	1,370.4
Surge Drums	X-330	LLW	37,000	1,370.4
Surge Drums	X-330	LLW	37,000	1,370.4
B-4 Pumps	X-330	LLW	0.5	0.0
B-4 Pumps	X-330	LLW	0.5	0.0
B-4 Pumps	X-330	LLW	0.5	0.0
B-4 Pumps	X-330	LLW	0.5	0.0
00' Condensers	X-330	LLW	2,363.76	87.5
00' Condensers	X-330	LLW	2,363.76	87.5
00' Condensers	X-330	LLW	2,363.76	87.5
00' Condensers	X-330	LLW	6,584.73	243.9
'0' Condensers	X-330	LLW	1,905.56	70.6
'0' Condensers	X-330	LLW	1,905.56	70.6
'0' Condensers	X-330	LLW	1,905.56	70.6
'0' Condensers	X-330	LLW	5,308.33	196.6
'00' Motors	X-330	LLW	6,935.19	256.9
'00' Motors	X-330	LLW	6,935.19	256.9
'00' Motors	X-330	LLW	6,935.19	256.9
'00' Motors	X-330	LLW	19,319.43	715.5
'0' Motors	X-330	LLW	5,707.17	211.4
'0' Motors	X-330	LLW	5,707.17	211.4
'0' Motors	X-330	LLW	5,707.17	211.4
'0' Motors	X-330	LLW	15,898.5	588.8
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4

X-330 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Tubing and Racks	X-330	LLW	550	20.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Enclosures and Racks (ACR)	X-330	LLW	227.27	8.4
Supply Fans	X-330	LLW	17,283.97	640.1
Supply Fans	X-330	LLW	17,283.97	640.1
Supply Fans	X-330	LLW	48,148.1	1,783.3
Supply Fans	X-330	LLW	17,283.97	640.1
Ductwork	X-330	LLW	12,708.77	470.7
Ductwork	X-330	LLW	12,708.77	470.7
Ductwork	X-330	LLW	35,402.93	1,311.2
Ductwork	X-330	LLW	12,708.77	470.7
Exhaust Fans	X-330	MLLW	17,500	648.1
Exhaust Fans	X-330	MLLW	17,500	648.1
Exhaust Fans	X-330	MLLW	17,500	648.1
Exhaust Fans	X-330	MLLW	17,500	648.1
Ductwork	X-330	MLLW	19,856.91	735.4
Ductwork	X-330	MLLW	19,856.91	735.4
Ductwork	X-330	MLLW	19,856.91	735.4
Ductwork	X-330	MLLW	19,856.91	735.4
PCB Collection System	X-330	MLLW	1,250	46.3
PCB Collection System	X-330	MLLW	1,250	46.3
PCB Collection System	X-330	MLLW	1,250	46.3
PCB Collection System	X-330	MLLW	1,250	46.3
Air Filters	X-330	LLW	10,844.65	401.7
Air Filters	X-330	LLW	10,844.65	401.7
Air Filters	X-330	LLW	30,210.04	1,118.9
Air Filters	X-330	LLW	10,844.65	401.7

X-330 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Air Grills	X-330	LLW	1,155.11	42.8
Air Grills	X-330	LLW	1,155.11	42.8
Air Grills	X-330	LLW	3,217.8	119.2
Air Grills	X-330	LLW	1,155.11	42.8
Air Conditioning Units	X-330	LLW	99.56	3.7
Air Conditioning Units	X-330	LLW	99.56	3.7
Air Conditioning Units	X-330	LLW	277.33	10.3
Air Conditioning Units	X-330	LLW	99.56	3.7
Roof Fans and Ventilators	X-330	LLW	1,216.79	45.1
Roof Fans and Ventilators	X-330	LLW	1,216.79	45.1
Roof Fans and Ventilators	X-330	LLW	3,389.63	125.5
Roof Fans and Ventilators	X-330	LLW	1,216.79	45.1
PCB Transformers	X-330	MLLW	16,500	611.1
PCB Transformers	X-330	MLLW	16,500	611.1
Dry Type Transformers	X-330	Recycle	38,500	1,425.9
Dry Type Transformers	X-330	Recycle	38,500	1,425.9
Auxiliary Transformers	X-330	LLW	7,560	280.0
Auxiliary Transformers	X-330	LLW	7,560	280.0
Switchgear	X-330	LLW	6,388.15	236.6
Switchgear	X-330	LLW	6,388.15	236.6
Switchgear	X-330	LLW	6,388.15	236.6
Switchgear	X-330	LLW	17,795.54	659.1
MCC	X-330	LLW	2,661.73	98.6
MCC	X-330	LLW	2,661.73	98.6
MCC	X-330	LLW	2,661.73	98.6
MCC	X-330	LLW	7,414.81	274.6
Diesel Generator	X-330	LLW	259.26	9.6
Diesel Generator	X-330	LLW	259.26	9.6
Diesel Generator	X-330	LLW	259.26	9.6
Diesel Generator	X-330	LLW	722.22	26.7
Wiring, Conductor	X-330	LLW	10,052.01	372.3
Wiring, Conductor	X-330	LLW	10,052.01	372.3
Wiring, Conductor	X-330	LLW	10,052.01	372.3
Wiring, Conductor	X-330	LLW	28,001.97	1,037.1
Additional Cable from X-533 Shutdown	X-330	LLW	2.77	0.1
Additional Cable from X-533 Shutdown	X-330	LLW	2.77	0.1
Additional Cable from X-533 Shutdown	X-330	LLW	2.77	0.1
Additional Cable from X-533 Shutdown	X-330	LLW	7.7	0.3
Cable Trays	X-330	LLW	30,672.93	1,136.0
Cable Trays	X-330	LLW	30,672.93	1,136.0
Cable Trays	X-330	LLW	30,672.93	1,136.0
Cable Trays	X-330	LLW	85,445.85	3,164.7
Transite Cable Trays	X-330	MLLW	1,923	71.2
X-533 Shutdown Cable Tray (24')	X-330	LLW	12.1	0.4
X-533 Shutdown Cable Tray (24')	X-330	LLW	12.1	0.4
X-533 Shutdown Cable Tray (24')	X-330	LLW	12.1	0.4

X-330 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
X-533 Shutdown Cable Tray (24')	X-330	LLW	33.7	1.2
X-533 Shutdown Cable Tray (12')	X-330	LLW	2.59	0.1
X-533 Shutdown Cable Tray (12')	X-330	LLW	2.59	0.1
X-533 Shutdown Cable Tray (12')	X-330	LLW	2.59	0.1
X-533 Shutdown Cable Tray (12')	X-330	LLW	7.22	0.3
Lighting Fixtures	X-330	LLW	611.33	22.6
Lighting Fixtures	X-330	LLW	611.33	22.6
Lighting Fixtures	X-330	LLW	611.33	22.6
Lighting Fixtures	X-330	LLW	1,703	63.1
Lube Oil Pumps	X-330	MLLW	60.84	2.3
Lube Oil Pumps	X-330	MLLW	60.84	2.3
Lube Oil Pumps	X-330	MLLW	60.84	2.3
Lube Oil Pumps	X-330	MLLW	169.48	6.3
Lube Oil Tanks	X-330	MLLW	6,499.65	240.7
Lube Oil Tanks	X-330	MLLW	6,499.65	240.7
Lube Oil Tanks	X-330	MLLW	6,499.65	240.7
Lube Oil Tanks	X-330	MLLW	18,106.06	670.6
Lube Oil Piping	X-330	MLLW	508.67	18.8
Lube Oil Piping	X-330	MLLW	508.67	18.8
Lube Oil Piping	X-330	MLLW	508.67	18.8
Lube Oil Piping	X-330	MLLW	1,417	52.5
Hydraulic Piping and Fittings	X-330	MLLW	571.06	21.2
Hydraulic Piping and Fittings	X-330	MLLW	571.06	21.2
Hydraulic Piping and Fittings	X-330	MLLW	571.06	21.2
Hydraulic Piping and Fittings	X-330	MLLW	1,590.81	58.9
Seal Exhaust (Vacuum) Pumps	X-330	MLLW	1,641.98	60.8
Seal Exhaust (Vacuum) Pumps	X-330	MLLW	1,641.98	60.8
Seal Exhaust (Vacuum) Pumps	X-330	MLLW	1,641.98	60.8
Seal Exhaust (Vacuum) Pumps	X-330	MLLW	4,574.06	169.4
Sprinklers and Interior Building Roof Drains	X-330	LLW	1,098.23	40.7
Sprinklers and Interior Building Roof Drains	X-330	LLW	1,098.23	40.7
Sprinklers and Interior Building Roof Drains	X-330	LLW	1,098.23	40.7
Sprinklers and Interior Building Roof Drains	X-330	LLW	3,059.32	113.3
Dry Air Plant	X-330	LLW	2,325.56	86.1
Dry Air Plant	X-330	LLW	2,325.56	86.1
Dry Air Plant	X-330	LLW	2,325.56	86.1
Dry Air Plant	X-330	LLW	6,478.31	239.9
Nitrogen Plant	X-330	LLW	775.19	28.7
Nitrogen Plant	X-330	LLW	775.19	28.7
Nitrogen Plant	X-330	LLW	775.19	28.7
Nitrogen Plant	X-330	LLW	2,159.44	80.0
Freon Storage and Handling	X-330	LLW	3,595.07	133.2
Freon Storage and Handling	X-330	LLW	3,595.07	133.2
Freon Storage and Handling	X-330	LLW	3,595.07	133.2
Freon Storage and Handling	X-330	LLW	10,014.78	370.9
Freon Pumps and Motors	X-330	LLW	56	2.1

X-330 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Freon Pumps and Motors	X-330	LLW	56	2.1
Freon Pumps and Motors	X-330	LLW	56	2.1
Freon Pumps and Motors	X-330	LLW	156	5.8
Sight glass Piping	X-330	LLW	3,460.26	128.2
Sight glass Piping	X-330	LLW	3,460.26	128.2
Sight glass Piping	X-330	LLW	3,460.26	128.2
Sight glass piping	X-330	LLW	9,639.23	357.0
Enclosures (Panels)	X-330	LLW	10,061.36	372.6
Enclosures (Panels)	X-330	LLW	10,061.36	372.6
Enclosures (Panels)	X-330	LLW	10,061.36	372.6
Enclosures (Panels)	X-330	LLW	28,027.91	1,038.1
Seal Exhaust Cabinets	X-330	LLW	3,041.98	112.7
Seal Exhaust Cabinets	X-330	LLW	3,041.98	112.7
Seal Exhaust Cabinets	X-330	LLW	3,041.98	112.7
Seal Exhaust Cabinets	X-330	LLW	8,474.05	313.9
Utilities (Dry Air, Nitrogen, and ClF3)	X-330	LLW	2,179.86	80.7
Utilities (Dry Air, Nitrogen, and ClF3)	X-330	LLW	2,179.86	80.7
Utilities (Dry Air, Nitrogen, and ClF3)	X-330	LLW	2,179.86	80.7
Utilities (Dry Air, Nitrogen, and ClF3)	X-330	LLW	6,072.43	224.9
Battery Rooms	X-330	LLW	10.54	0.4
Battery Rooms	X-330	LLW	10.54	0.4
Battery Rooms	X-330	LLW	10.54	0.4
Battery Rooms	X-330	LLW	29.37	1.1
Dry Pipe Enclosures	X-330	LLW	5,487.32	203.2
Dry Pipe Enclosures	X-330	LLW	5,487.32	203.2
Dry Pipe Enclosures	X-330	LLW	5,487.32	203.2
Dry Pipe Enclosures	X-330	LLW	15,286.03	566.1
Process Steam Heaters	X-330	LLW	412.05	15.3
Process Steam Heaters	X-330	LLW	412.05	15.3
Process Steam Heaters	X-330	LLW	412.05	15.3
Process Steam Heaters	X-330	LLW	1,147.85	42.5
RCW Service Pipe, Fittings, and Valves	X-330	LLW	10,513.31	389.4
RCW Service Pipe, Fittings, and Valves	X-330	LLW	10,513.31	389.4
RCW Service Pipe, Fittings, and Valves	X-330	LLW	10,513.31	389.4
RCW Service Pipe, Fittings, and Valves	X-330	LLW	29,288.07	1,084.7
Steam and Condensate Piping, Fittings, and Valves	X-330	LLW	208.1	7.7
Steam and Condensate Piping, Fittings, and Valves	X-330	LLW	208.1	7.7
Steam and Condensate Piping, Fittings, and Valves	X-330	LLW	208.1	7.7
Steam and Condensate Piping, Fittings, and Valves	X-330	LLW	579.7	21.5

X-330 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
20 Ton Outdoor Bridge Cranes (Tails)	X-330	LLW	38,401.59	1,422.3
20 Ton Outdoor Bridge Cranes (Tails)	X-330	LLW	38,401.59	1,422.3
20 Ton Outdoor Bridge Cranes (Tails)	X-330	LLW	38,401.59	1,422.3
20 Ton Outdoor Bridge Cranes (Tails)	X-330	LLW	106,975.23	3,962.0
ACM Floor Tile	X-330	MLLW	134.5	5.0
ACM Floor Tile	X-330	MLLW	134.5	5.0
ACM Pipe Insulation	X-330	MLLW	2,986.5	110.6
ACM Pipe Insulation	X-330	MLLW	2,986.5	110.6
Concrete and Reinforcing Steel	X-330	LLW	35,909.46	1,330.0
Concrete and Reinforcing Steel	X-330	LLW	167,808.19	6,215.1
Concrete and Reinforcing Steel	X-330	LLW	35,909.46	1,330.0
Concrete and Reinforcing Steel	X-330	LLW	167,808.19	6,215.1
Concrete and Reinforcing Steel	X-330	LLW	35,909.46	1,330.0
Concrete and Reinforcing Steel	X-330	LLW	167,808.19	6,215.1
Concrete and Reinforcing Steel	X-330	LLW	116,015.87	4,296.9
Concrete and Reinforcing Steel	X-330	LLW	167,808.19	6,215.1
Structural Steel	X-330	LLW	15,040.95	557.1
Structural Steel	X-330	LLW	15,040.95	557.1
Structural Steel	X-330	LLW	15,040.95	557.1
Structural Steel	X-330	LLW	48,594.14	1,799.8
Process Equipment Foundations	X-330	LLW	4,964.54	183.9
Process Equipment Foundations	X-330	LLW	23,199.75	859.3
Process Equipment Foundations	X-330	LLW	4,964.54	183.9
Process Equipment Foundations	X-330	LLW	23,199.75	859.3
Process Equipment Foundations	X-330	LLW	4,964.54	183.9
Process Equipment Foundations	X-330	LLW	23,199.75	859.3
Process Equipment Foundations	X-330	LLW	16,039.38	594.1
Process Equipment Foundations	X-330	LLW	23,199.75	859.3
Catwalks and Platforms	X-330	LLW	953.33	35.3
Catwalks and Platforms	X-330	LLW	953.33	35.3
Catwalks and Platforms	X-330	LLW	953.33	35.3
Catwalks and Platforms	X-330	LLW	3,080.01	114.1
Building Roof	X-330	LLW	224,162.64	8,302.3
Building Roof	X-330	LLW	224,162.64	8,302.3
Building Roof	X-330	LLW	224,162.64	8,302.3
Building Roof	X-330	LLW	724,222.07	26,823.0
Masonry Blocks	X-330	LLW	33,333.25	1,234.6
Masonry Blocks	X-330	LLW	33,333.25	1,234.6
Masonry Blocks	X-330	LLW	33,333.25	1,234.6
Masonry Blocks	X-330	LLW	33,333.25	1,234.6
Wood Framing, Construction Debris	X-330	LLW	8,939.64	331.1
Wood Framing, Construction Debris	X-330	LLW	8,939.64	331.1
Wood Framing, Construction Debris	X-330	LLW	8,939.64	331.1
Wood Framing, Construction Debris	X-330	LLW	28,882.08	1,069.7
Building Exterior	X-330	MLLW	5,219	193.3
Building Exterior	X-330	MLLW	5,219	193.3

X-330 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Building Exterior	X-330	MLLW	5,219	193.3
Building Exterior	X-330	MLLW	5,219	193.3
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Transite	X-330	MLLW	2,417.89	89.6
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Cell and Bypass Housings - Steel	X-330	LLW	14,633.2	542.0
Elevators	X-330	LLW	577.78	21.4
Elevators	X-330	LLW	577.78	21.4
Elevators	X-330	LLW	577.78	21.4

X-330 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Elevators	X-330	LLW	1,866.67	69.1
Instrument Tunnel	X-330	Clean	54,594	2,022.0
Instrument Tunnel	X-330	Clean	54,594	2,022.0
Instrument Tunnel	X-330	Clean	54,594	2,022.0
Instrument Tunnel	X-330	Clean	54,594	2,022.0
Slab	X-330	LLW	225,531	8,353.0
Slab	X-330	LLW	225,531	8,353.0
Slab	X-330	LLW	225,531	8,353.0
Slab	X-330	LLW	225,531	8,353.0
Footers, Piers, Grade Beams, and Walls	X-330	Crush and recycle 75% Clean, 25% LLW	128,250	4,750.0
Footers, Piers, Grade Beams, and Walls	X-330	Crush and recycle 75% Clean, 25% LLW	128,250	4,750.0
Footers, Piers, Grade Beams, and Walls	X-330	Crush and recycle 75% Clean, 25% LLW	128,250	4,750.0
Footers, Piers, Grade Beams, and Walls	X-330	Crush and recycle 75% Clean, 25% LLW	128,250	4,750.0
Rebar	X-330	LLW	1,605	59.4
Rebar	X-330	LLW	1,605	59.4
Rebar	X-330	LLW	1,605	59.4
Rebar	X-330	LLW	1,605	59.4
Truck Alley Concrete	X-330	LLW	2,700	100.0
Truck Alley Concrete	X-330	LLW	2,700	100.0
Truck Alley Concrete	X-330	LLW	2,700	100.0
Truck Alley Concrete	X-330	LLW	2,700	100.0
Tuck Alley Steel	X-330	LLW	12.25	0.5
Tuck Alley Steel	X-330	LLW	12.25	0.5
Tuck Alley Steel	X-330	LLW	12.25	0.5
Tuck Alley Steel	X-330	LLW	12.25	0.5
Underground Cooling Water Piping	X-330	LLW	1,049.98	38.9
Underground Cooling Water Piping	X-330	LLW	1,049.98	38.9
Underground Cooling Water Piping	X-330	LLW	1,049.98	38.9
Underground Cooling Water Piping	X-330	LLW	2,925.05	108.3

Total Cubic Yardage **354,595**

ATTACHMENT E.3: X-333 BUILDING VOLUMES (SUBSET OF RC-1, EC-2)

X-333 Building Volumes

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Junk Removal	X-333	LLW	93,055.5	3,446.5
Junk Removal	X-333	LLW	93,055.5	3,446.5
Lube Oil	X-333	Haz	391.5	14.5
Lube Oil	X-333	Haz	391.5	14.5
Mercury Lamps	X-333	Haz	400	14.8
Mercury Lamps	X-333	Haz	400	14.8
Mercury Switches	X-333	Haz	3.24	0.1
Mercury Switches	X-333	Haz	3.24	0.1
PCB Ballasts	X-333	Haz	94.5	3.5
PCB Ballasts	X-333	Haz	94.5	3.5
Capacitors	X-333	Haz	7,344	272.0
Capacitors	X-333	Haz	7,344	272.0
Converters	X-333	LLW	267,783.3	9,917.9
Converters	X-333	LLW	267,783.3	9,917.9
Converters	X-333	LLW	267,783.3	9,917.9
Converters	X-333	LLW	267,783.3	9,917.9
Converters	X-333	LLW	267,783.3	9,917.9
Converters	X-333	LLW	267,783.3	9,917.9
Converters	X-333	LLW	267,783.3	9,917.9
Converters	X-333	LLW	267,783.3	9,917.9
Converters	X-333	LLW	267,783.3	9,917.9
Converters	X-333	LLW	267,783.3	9,917.9
Compressors	X-333	LLW	102,178.8	3,784.4
Compressors	X-333	LLW	102,178.8	3,784.4
Compressors	X-333	LLW	102,178.8	3,784.4
Compressors	X-333	LLW	102,178.8	3,784.4
Compressors	X-333	LLW	102,178.8	3,784.4
Compressors	X-333	LLW	102,178.8	3,784.4
Compressors	X-333	LLW	102,178.8	3,784.4
Compressors	X-333	LLW	102,178.8	3,784.4
Compressors	X-333	LLW	102,178.8	3,784.4
Compressors	X-333	LLW	102,178.8	3,784.4
Process Piping and Fittings	X-333	LLW	169,411.5	6,274.5
Process Piping and Fittings	X-333	LLW	169,411.5	6,274.5
Cell Instrumentation	X-333	LLW	216	8.0
Cell Instrumentation	X-333	LLW	216	8.0
Cell Instrumentation	X-333	LLW	216	8.0
Cell Instrumentation	X-333	LLW	216	8.0
Cell Instrumentation	X-333	LLW	216	8.0
Cell Instrumentation	X-333	LLW	216	8.0
Cell Instrumentation	X-333	LLW	216	8.0
Cell Instrumentation	X-333	LLW	216	8.0
Cell Instrumentation	X-333	LLW	216	8.0
Cell Instrumentation	X-333	LLW	216	8.0
Process Gas Valves	X-333	LLW	52,555.5	1,946.5
Process Gas Valves	X-333	LLW	52,555.5	1,946.5
Recycle/Precoolers	X-333	LLW	21,735	805.0
Recycle/Precoolers	X-333	LLW	21,735	805.0

X-333 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Freezer Sublimer Piping and Fittings	X-333	LLW	1,795.5	66.5
Freezer Sublimer Piping and Fittings	X-333	LLW	1,795.5	66.5
A/B Booster Piping and Fittings	X-333	LLW	881.4	32.6
A/B Booster Piping and Fittings	X-333	LLW	881.4	32.6
PGM Station	X-333	LLW	337.5	12.5
PGM Station	X-333	LLW	337.5	12.5
EBS	X-333	LLW	337.5	12.5
EBS	X-333	LLW	337.5	12.5
Booster Station	X-333	LLW	1,147.5	42.5
Booster Station	X-333	LLW	1,147.5	42.5
Cold Trap Holding Drums	X-333	LLW	86.22	3.2
Cold Trap Holding Drums	X-333	LLW	86.22	3.2
Cold Trap Systems (Cold Recovery, Drums, Fittings)	X-333	LLW	1,053	39.0
Cold Trap Systems (Cold Recovery, Drums, Fittings)	X-333	LLW	1,053	39.0
Seal Exhaust/Wet Air Piping and Fittings	X-333	LLW	4,995	185.0
Seal Exhaust/Wet Air Piping and Fittings	X-333	LLW	4,995	185.0
Low Assay Withdrawal	X-333	LLW	1,188	44.0
Low Assay Withdrawal	X-333	LLW	1,188	44.0
Seal Exhaust (Vacuum) Pumps	X-333	MLLW	1,876.5	69.5
Seal Exhaust (Vacuum) Pumps	X-333	MLLW	1,876.5	69.5
Surge Drums	X-333	LLW	39,987	1,481.0
Surge Drums	X-333	LLW	39,987	1,481.0
B-4 Pumps	X-333	LLW	13.5	0.5
B-4 Pumps	X-333	LLW	13.5	0.5
Motors	X-333	LLW	57,483	2,129.0
Motors	X-333	LLW	57,483	2,129.0
Condensers	X-333	LLW	19,548	724.0
Condensers	X-333	LLW	19,548	724.0
Tubing and Racks	X-333	LLW	2,413.8	89.4
Tubing and Racks	X-333	LLW	2,413.8	89.4
Tubing and Racks	X-333	LLW	2,413.8	89.4
Tubing and Racks	X-333	LLW	2,413.8	89.4
Tubing and Racks	X-333	LLW	2,413.8	89.4
Tubing and Racks	X-333	LLW	2,413.8	89.4
Tubing and Racks	X-333	LLW	2,413.8	89.4
Tubing and Racks	X-333	LLW	2,413.8	89.4
Tubing and Racks	X-333	LLW	2,413.8	89.4
Tubing and Racks	X-333	LLW	2,413.8	89.4
Enclosures and Racks (ACR)	X-333	LLW	251.1	9.3
Enclosures and Racks (ACR)	X-333	LLW	251.1	9.3
Enclosures and Racks (ACR)	X-333	LLW	251.1	9.3
Enclosures and Racks (ACR)	X-333	LLW	251.1	9.3
Enclosures and Racks (ACR)	X-333	LLW	251.1	9.3
Enclosures and Racks (ACR)	X-333	LLW	251.1	9.3
Enclosures and Racks (ACR)	X-333	LLW	251.1	9.3
Enclosures and Racks (ACR)	X-333	LLW	251.1	9.3

X-333 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Enclosures and Racks (ACR)	X-333	LLW	251.1	9.3
Enclosures and Racks (ACR)	X-333	LLW	251.1	9.3
Supply Fans	X-333	LLW	44,000	1,629.6
Supply Fans	X-333	LLW	44,000	1,629.6
Ductwork	X-333	LLW	38,500.78	1,426.0
Ductwork	X-333	LLW	38,500.78	1,426.0
Exhaust Fans	X-333	MLLW	64,000	2,370.4
Exhaust Fans	X-333	MLLW	64,000	2,370.4
Ductwork	X-333	MLLW	63,310.22	2,344.8
Ductwork	X-333	MLLW	63,310.22	2,344.8
PCB Collection System	X-333	MLLW	2,500	92.6
PCB Collection System	X-333	MLLW	2,500	92.6
Air Filters	X-333	LLW	39,216	1,452.4
Air Filters	X-333	LLW	39,216	1,452.4
Air Grills	X-333	LLW	972	36.0
Air Grills	X-333	LLW	972	36.0
Ventilation Dampers	X-333	LLW	1,217	45.1
Ventilation Dampers	X-333	LLW	1,217	45.1
Air Conditioning Units	X-333	LLW	224	8.3
Air Conditioning Units	X-333	LLW	224	8.3
Roof Fans and Ventilators	X-333	LLW	2,560	94.8
Roof Fans and Ventilators	X-333	LLW	2,560	94.8
PCB Transformers	X-333	MLLW	40,000.5	1,481.5
PCB Transformers	X-333	MLLW	40,000.5	1,481.5
Dry Type Transformers	X-333	Recycle	40,000.5	1,481.5
Dry Type Transformers	X-333	Recycle	40,000.5	1,481.5
Switchgear	X-333	LLW	72,373.5	2,680.5
Switchgear	X-333	LLW	72,373.5	2,680.5
MCC	X-333	LLW	8,410.5	311.5
MCC	X-333	LLW	8,410.5	311.5
Auxiliary Transformer	X-333	MLLW	7,344	272.0
Auxiliary Transformer	X-333	MLLW	7,344	272.0
Diesel Generator	X-333	LLW	499.5	18.5
Diesel Generator	X-333	LLW	499.5	18.5
Wiring, Conductor	X-333	LLW	26,433	979.0
Wiring, Conductor	X-333	LLW	26,433	979.0
Additional Cable from X-533 Shutdown	X-333	LLW	189	7.0
Additional Cable from X-533 Shutdown	X-333	LLW	189	7.0
X-533 Shutdown Cable Tray (24")	X-333	LLW	81	3.0
X-533 Shutdown Cable Tray (24")	X-333	LLW	81	3.0
X-533 Shutdown Cable Tray (12")	X-333	LLW	270	10.0
X-533 Shutdown Cable Tray (12")	X-333	LLW	270	10.0
Cable Trays	X-333	LLW	64,751.16	2,398.2
Cable Trays	X-333	LLW	64,751.16	2,398.2
Transite Cable Trays	X-333	MLLW	962	35.6
Lighting Fixtures	X-333	LLW	2,632.5	97.5
Lighting Fixtures	X-333	LLW	2,632.5	97.5

X-333 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Lube Oil Pumps	X-333	MLLW	257	9.5
Lube Oil Tanks	X-333	MLLW	41,580	1,540.0
Lube Oil Roof Tanks	X-333	MLLW	5,373	199.0
Portable Lube Oil Tanks	X-333	MLLW	918	34.0
Lube Oil Piping	X-333	MLLW	2,943	109.0
Lube Oil Coolers	X-333	MLLW	999	37.0
Hydraulic Piping and Fittings	X-333	MLLW	2,403	89.0
Pyranol Tanks	X-333	MLLW	13.5	0.5
Pyranol Tanks	X-333	MLLW	13.5	0.5
Sprinklers and Interior Building Roof Drains	X-333	LLW	16,240.5	601.5
Sprinklers and Interior Building Roof Drains	X-333	LLW	16,240.5	601.5
Dry Air Plant	X-333	LLW	2,254.5	83.5
Dry Air Plant	X-333	LLW	2,254.5	83.5
Freon Storage and Handling	X-333	LLW	67.5	2.5
Freon Storage and Handling	X-333	LLW	67.5	2.5
Freon Pumps and Motors	X-333	LLW	162	6.0
Freon Pumps and Motors	X-333	LLW	162	6.0
Freon Liquid Piping and Fittings	X-333	LLW	39,501	1,463.0
Freon Liquid Piping and Fittings	X-333	LLW	39,501	1,463.0
Freon Gas Piping and Fittings	X-333	LLW	26,838	994.0
Freon Gas Piping and Fittings	X-333	LLW	26,838	994.0
Sight Glass Piping	X-333	LLW	81	3.0
Enclosures (Panels)	X-333	LLW	8,059.5	298.5
Enclosures (Panels)	X-333	LLW	8,059.5	298.5
Seal Exhaust Cabinets	X-333	LLW	1,998	74.0
Seal Exhaust Cabinets	X-333	LLW	1,998	74.0
Utilities (Dry Air, Nitrogen, and ClF3)	X-333	LLW	1,026	38.0
Utilities (Dry Air, Nitrogen, and ClF3)	X-333	LLW	1,026	38.0
Battery Rooms	X-333	LLW	594	22.0
Battery Rooms	X-333	LLW	594	22.0
Dry Pipe Enclosures	X-333	LLW	15,876	588.0
Dry Pipe Enclosures	X-333	LLW	15,876	588.0
Drain Lines	X-333	LLW	67.5	2.5
Drain Lines	X-333	LLW	67.5	2.5
Process Steam Heaters	X-333	LLW	877.5	32.5
Process Steam Heaters	X-333	LLW	877.5	32.5
RCW Service Pipe, Fittings, and Valves	X-333	LLW	120,123	4,449.0
Steam & Condensate Piping, Fittings, and Valves	X-333	LLW	337.5	12.5
Steam & Condensate Piping, Fittings, and Valves	X-333	LLW	337.5	12.5
38 Ton Bridge Cranes	X-333	LLW	51,880.5	1,921.5
38 Ton Bridge Cranes	X-333	LLW	51,880.5	1,921.5
ACM Floor Tile	X-333	MLLW	135	5.0
ACM Floor Tile	X-333	MLLW	135	5.0

X-333 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
ACM Pipe Insulation	X-333	MLLW	918	34.0
ACM Pipe Insulation	X-333	MLLW	918	34.0
Concrete and Reinforcing Steel	X-333	LLW	772,389	28,607.0
Concrete and Reinforcing Steel	X-333	LLW	772,389	28,607.0
Structural Steel	X-333	LLW	73,116	2,708.0
Structural Steel	X-333	LLW	73,116	2,708.0
Process Equipment Foundations	X-333	LLW	100,440	3,720.0
Process Equipment Foundations	X-333	LLW	100,440	3,720.0
Catwalks and Platforms	X-333	LLW	3,253.5	120.5
Catwalks and Platforms	X-333	LLW	3,253.5	120.5
Building Roof	X-333	LLW	706,158	26,154.0
Building Roof	X-333	LLW	706,158	26,154.0
Masonry Blocks	X-333	LLW	38,394	1,422.0
Masonry Blocks	X-333	LLW	38,394	1,422.0
Wood Framing Construction Debris	X-333	LLW	7,843.5	290.5
Wood Framing Construction Debris	X-333	LLW	7,843.5	290.5
Building Exterior - Transite	X-333	LLW	12,204	452.0
Building Exterior - Transite	X-333	LLW	12,204	452.0
Cell and Bypass Housings - Transite	X-333	MLLW	3,245.3	120.2
Cell and Bypass Housings - Transite	X-333	MLLW	3,245.3	120.2
Cell and Bypass Housings - Transite	X-333	MLLW	3,245.3	120.2
Cell and Bypass Housings - Transite	X-333	MLLW	3,245.3	120.2
Cell and Bypass Housings - Transite	X-333	MLLW	3,245.3	120.2
Cell and Bypass Housings - Transite	X-333	MLLW	3,245.3	120.2
Cell and Bypass Housings - Transite	X-333	MLLW	3,245.3	120.2
Cell and Bypass Housings - Transite	X-333	MLLW	3,245.3	120.2
Cell and Bypass Housings - Transite	X-333	MLLW	3,245.3	120.2
Cell and Bypass Housings - Transite	X-333	MLLW	3,245.3	120.2
Cell and Bypass Housings - Steel	X-333	LLW	58,644.1	2,172.0
Cell and Bypass Housings - Steel	X-333	LLW	58,644.1	2,172.0
Cell and Bypass Housings - Steel	X-333	LLW	58,644.1	2,172.0
Cell and Bypass Housings - Steel	X-333	LLW	58,644.1	2,172.0
Cell and Bypass Housings - Steel	X-333	LLW	58,644.1	2,172.0
Cell and Bypass Housings - Steel	X-333	LLW	58,644.1	2,172.0
Cell and Bypass Housings - Steel	X-333	LLW	58,644.1	2,172.0
Cell and Bypass Housings - Steel	X-333	LLW	58,644.1	2,172.0
Cell and Bypass Housings - Steel	X-333	LLW	58,644.1	2,172.0
Cell and Bypass Housings - Steel	X-333	LLW	58,644.1	2,172.0
Elevators	X-333	LLW	1,795.5	66.5
Elevators	X-333	LLW	1,795.5	66.5
Instrument Tunnel	X-333	Clean	54,594	2,022.0
Instrument Tunnel	X-333	Clean	54,594	2,022.0
Slab	X-333	LLW	463,387.5	17,162.5
Slab	X-333	LLW	463,387.5	17,162.5
Footers, Piers, Grade Beams, and Walls	X-333	75% Clean, 25% LLW	645,705	23,915.0
Footers, Piers, Grade Beams, and Walls	X-333	75% Clean, 25% LLW	645,705	23,915.0
Rebar	X-333	LLW	5,035.5	186.5

X-333 Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Rebar	X-333	LLW	5,035.5	186.5
Truck Alley Concrete	X-333	LLW	10,800	400.0
Truck Alley Concrete	X-333	LLW	10,800	400.0
Truck Alley Steel	X-333	LLW	54	2.0
Truck Alley Steel	X-333	LLW	54	2.0
Underground Cooling Water Piping	X-333	LLW	6,075	225.0

Total Cubic Yardage **468,277**

ATTACHMENT E.4: BALANCE OF PLANT BUILDING VOLUMES (SUBSET OF RC-1, EC-2)

Balance of Plant Building Volumes

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Junk Removal	X-100	Industrial	7,725	286.1
Fluorescent Light Bulbs	X-100	Universal	50	1.9
PCB Liquids/Oils	X-100	TSCA	64	2.4
Building Exterior - Transite	X-100	Sanitary-ACM	636	23.6
ACM Floor Tile	X-100	Sanitary-ACM	2,109	78.1
ACM Pipe Insulation	X-100	Sanitary-ACM	340	12.6
Misc. Equipment/Structure	X-100	Industrial	205,296	7,603.6
Concrete	X-100	Industrial	87,891	3,255.2
Slab/Below Grade Concrete	X-100	Industrial	36,010	1,333.7
Junk Removal	X-111A	Industrial	49	1.8
ACM Floor Tile	X-111A	Sanitary-ACM	27	1.0
Misc. Equipment/Structure	X-111A	Industrial	2,555	94.6
Slab/Below Grade Concrete	X-111A	Industrial	631	23.4
Junk Removal	X-111B	Industrial	17	0.6
ACM Floor Tile	X-111B	Sanitary-ACM	9	0.3
Misc. Equipment/Structure	X-111B	Industrial	1,485	55.0
Slab/Below Grade Concrete	X-111B	Industrial	235	8.7
Misc. Equipment/Structure	X-230J4	Industrial	0	0.0
Slab/Below Grade Concrete	X-230J4	Industrial	0	0.0
Junk Removal	X-342A	LLW	787	29.1
PCB and Contaminated Materials	X-342A	LLW-PCB	4,000	148.1
PCB Liquids/Oils	X-342A	TSCA	16	0.6
Building Exterior - Transite	X-342A	Sanitary-ACM	706	26.1
ACM Floor Tile	X-342A	LLW-ACM	9	0.3
ACM Pipe Insulation	X-342A	LLW-ACM	4,692	173.8
Transite Cable Trays	X-342A	LLW-ACM	587	21.7
Building Exterior - Transite	X-342A	LLW-ACM	35	1.3
Misc. Equipment/Structure	X-342A	LLW	71,819	2,660.0
Slab/Below Grade Concrete	X-342A	LLW	16,606	615.0
Junk Removal	X-342B	LLW	87	3.2
Fluorescent Light Bulbs	X-342B	Universal	5	0.2
Tanks	X-342B	TSCA	600	22.2
ACM Pipe Insulation	X-342B	LLW-ACM	234	8.7
Misc. Equipment/Structure	X-342B	LLW	156	5.8
Misc. Equipment/Structure	X-342B	LLW	4,527	167.7
Slab/Below Grade Concrete	X-342B	LLW	919	34.0
Junk Removal	X-343	LLW	842	31.2
PCB and Contaminated Materials	X-343	LLW-PCB	4,000	148.1
PCB Liquids/Oils	X-343	TSCA	32	1.2
Building Exterior - Transite	X-343	LLW-ACM	730	27.0
ACM Floor Tile	X-343	LLW-ACM	9	0.3
ACM Pipe Insulation	X-343	LLW-ACM	4,853	179.7

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Transite Cable Trays	X-343	LLW-ACM	607	22.5
Building Exterior - Transite	X-343	LLW-ACM	37	1.4
Misc. Equipment/Structure	X-343	LLW	92,678	3,432.5
Slab/Below Grade Concrete	X-343	LLW	21,754	805.7
Junk Removal	X-344A	LLW	5,241	194.1
PCB and Contaminated Materials	X-344A	LLW-PCB	4,000	148.1
PCB Liquids/Oils	X-344A	TSCA	32	1.2
Building Exterior - Transite	X-344A	LLW-ACM	1,858	68.8
ACM Floor Tile	X-344A	LLW-ACM	57	2.1
ACM Pipe Insulation	X-344A	LLW-ACM	9,684	358.7
Transite Cable Trays	X-344A	LLW-ACM	757	28.0
Building Exterior - Transite	X-344A	LLW-ACM	93	3.4
Misc. Equipment/Structure	X-344A	LLW	297,404	11,015.0
Concrete	X-344A	LLW	15,264	565.3
Slab/Below Grade Concrete	X-344A	LLW	80,569	2,984.0
Slab/Below Grade Concrete	X-344B	Industrial	0	0.0
Junk Removal	X-345	LLW	2,063	76.4
Misc. Equipment/Structure	X-345	LLW	1,269	47.0
Misc. Equipment/Structure	X-345	LLW	93,363	3,457.9
Slab/Below Grade Concrete	X-345	LLW	180,305	6,678.0
Slab/Below Grade Concrete	X-345	LLW	1,496	55.4
Junk Removal	X-605	Industrial	29	1.1
Misc. Equipment/Structure	X-605	Industrial	1,126	41.7
Slab/Below Grade Concrete	X-605	Industrial	500	18.5
Slab/Below Grade Concrete	X-605H	Industrial	600	22.2
Slab/Below Grade Concrete	X-605I	Industrial	212	7.9
Slab/Below Grade Concrete	X-605J	Industrial	200	7.4
Junk Removal	X-624-1	Industrial	212	7.9
Possible Rad Contamination from Floor	X-624-1	LLW	27	1.0
Misc. Equipment/Structure	X-624-1	Industrial	6,878	254.7
Slab/Below Grade Concrete	X-624-1	Industrial	1,852	68.6
Junk Removal	X-625	Industrial	69	2.6
Misc. Equipment/Structure	X-625	Industrial	2,218	82.1
Slab/Below Grade Concrete	X-625	Industrial	1,200	44.4
Junk Removal	X-626-1	Industrial	401	14.9
Batteries	X-626-1	Universal	25	0.9
Building Exterior - Transite	X-626-1	Sanitary-ACM	251	9.3
ACM Pipe Insulation	X-626-1	Sanitary-ACM	1,000	37.0
Mercury Switches	X-626-1	Universal	14	0.5
Transformers	X-626-1	Recycle	160	5.9
Misc. Equipment/Structure	X-626-1	Industrial	1,500	55.6
Misc. Equipment/Structure	X-626-1	Industrial	36,669	1,358.1
Slab/Below Grade Concrete	X-626-1	Industrial	9,832	364.1
Building Exterior - Transite	X-626-2	Sanitary-ACM	548	20.3
Misc. Equipment/Structure	X-626-2	Industrial	11,588	429.2
Slab/Below Grade Concrete	X-626-2	Industrial	18,683	692.0
Junk Removal	X-630-1	Industrial	0	0.0

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Batteries	X-630-1	Universal	0	0.0
Mercury Switches	X-630-1	Universal	0	0.0
Transformers	X-630-1	Recycle	0	0.0
Misc. Equipment/Structure	X-630-1	Industrial	0	0.0
Building Exterior - Transite	X-630-1	Sanitary-ACM	0	0.0
ACM Pipe Insulation	X-630-1	Sanitary-ACM	0	0.0
Misc. Equipment/Structure	X-630-1	Industrial	0	0.0
Slab/Below Grade Concrete	X-630-1	Industrial	13,698	507.3
Slab/Below Grade Concrete	X-630-2A	Industrial	21,375	791.7
Slab/Below Grade Concrete	X-630-2B	Industrial	41,250	1,527.8
Slab/Below Grade Concrete	X-630-3	Industrial	905	33.5
Slab/Below Grade Concrete	X-633-1	Industrial	14,895	551.7
Slab/Below Grade Concrete	X-633-2A	Industrial	82,420	3,052.6
Slab/Below Grade Concrete	X-633-2B	Industrial	82,420	3,052.6
Slab/Below Grade Concrete	X-633-2C	Industrial	30,974	1,147.2
Slab/Below Grade Concrete	X-633-2D	Industrial	30,974	1,147.2
Junk Removal	X-701E	LLW	0	0.0
Fluorescent Light Bulbs	X-701E	Universal	0	0.0
Misc. Equipment/Structure	X-701E	LLW	0	0.0
Slab/Below Grade Concrete	X-701E	LLW	0	0.0
Fluorescent Light Bulbs	X-744G	Universal	64	2.4
Misc. Equipment/Structure	X-744G	LLW	1,372	50.8
Misc. Equipment/Structure	X-744G	LLW	123,870	4,587.8
Slab/Below Grade Concrete	X-744G	LLW	79,954	2,961.3
Misc. Equipment/Structure	X-744S	Industrial	19,342	716.4
Slab/Below Grade Concrete	X-744S	Industrial	26,915	996.9
Misc. Equipment/Structure	X-744T	Industrial	0	0.0
Slab/Below Grade Concrete	X-744T	Industrial	0	0.0
Misc. Equipment/Structure	X-744U	Industrial	0	0.0
Slab/Below Grade Concrete	X-744U	Industrial	0	0.0
Slab/Below Grade Concrete	X-746	Industrial	7,631	282.6
Fluorescent Light Bulbs	X-752	Universal	64	2.4
Concrete	X-752	Industrial	38	1.4
Misc. Equipment/Structure	X-752	Industrial	20,605	763.1
Slab/Below Grade Concrete	X-752	Industrial	9,867	365.4
Concrete	X-701D	LLW	0	0.0
Demolition Debris	X-701D	LLW	0	0.0
Concrete	X-701F	LLW	216	8.0
Demolition Debris	X-701F	LLW	0	0.0
Scrap Metal	X-705E	LLW	2,295	85.0
Concrete	X-720A	LLW	0	0.0
Demolition Debris	X-720A	LLW	0	0.0
Concrete	X-740	LLW	0	0.0
Demolition Debris	X-740	LLW	0	0.0
Concrete	X-770	LLW	0	0.0
Demolition Debris	X-770	LLW	0	0.0
Dry Solids	X-770	LLW	0	0.0
Process Equipment	X-770	LLW	0	0.0
Scrap Metal	X-770	LLW	0	0.0

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Scrap Metal	X-770	LLW	0	0.0
Industrial Garbage	X-100	Industrial	82,909	3,070.7
Industrial Garbage	X-343	LLW	1,260	46.7
Misc. Equipment	X-343	LLW	720	26.7
Industrial Garbage	X-343	LLW	1,125	41.7
Misc. Equipment	X-343	LLW	540	20.0
Industrial Garbage	X-344A	LLW	2,610	96.7
Misc. Equipment	X-344A	LLW	1,980	73.3
Industrial Garbage	X-344A	LLW	19,890	736.7
Misc. Equipment	X-344A	LLW	4,590	170.0
Industrial Garbage	X-600	Industrial	7,322	271.2
Industrial Garbage	X-700	LLW	55	2.0
Misc. Equipment	X-700	LLW	100	3.7
Industrial Garbage	X-700	LLW	228	8.4
Misc. Equipment	X-700	LLW	339	12.6
Industrial Garbage	X-710	LLW	45,708	1,692.9
Misc. Equipment	X-710	LLW	21,268	787.7
Flourine Tank	X-710	LLW	260	9.6
Industrial Garbage	X-720	LLW	135	5.0
TCE Tanks	X-720	RCRA	2	0.1
Industrial Garbage	X-720	LLW	1,907	70.6
Misc. Equipment	X-720	Industrial	240	8.9
Industrial Garbage	X-720C	Industrial	60	2.2
Industrial Garbage	X-744H	Industrial	22,347	827.7
Misc. Equipment	X-744H	Industrial	4,700	174.1
Industrial Garbage	X-744J	Industrial	20,702	766.7
Misc. Equipment	X-744J	Recycle	475	17.6
Misc. Equipment	X-744J	LLW	955	35.4
Industrial Garbage	X-744L	Industrial	27,610	1,022.6
Batteries	X-744W	Universal	196	7.3
Fluorescent Light Bulbs	X-744W	Universal	380	14.1
Industrial Garbage	X-744W	Industrial	33,918	1,256.2
Misc. Equipment	X-744W	Recycle	387	14.3
Industrial Garbage	X-744W	Industrial	6,330	234.4
Industrial Garbage	X-747F	Industrial	0	0.0
Misc. Equipment	X-747F	Recycle	0	0.0
Industrial Garbage	X-747-A	Industrial	19,944	738.7
Misc. Equipment	X-747-A	Industrial	2,485	92.0
Misc. Equipment	X-747-A	Recycle	285	10.6
Misc. Equipment	X-747-A	LLW	855	31.7
Industrial Garbage	X-747C	Industrial	2,240	83.0
Misc. Equipment	X-747C	LLW	1,650	61.1
Industrial Garbage	X-747D	Industrial	2,175	80.6
Misc. Equipment	X-747D	LLW	360	13.3
Industrial Garbage	X-750	Industrial	337	12.5
Industrial Garbage	X-750	Industrial	42,283	1,566.0
Misc. Equipment	X-750	Recycle	135	5.0
Junk Removal	X-101	Industrial	590	21.9
Fluorescent Light Bulbs	X-101	Universal	50	1.9

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Gas/Nitrogen/Argon Cylinders	X-101	Industrial	150	5.6
Building Exterior - Transite	X-101	Sanitary-ACM	183	6.8
ACM Floor Tile	X-101	Sanitary-ACM	161	6.0
Concrete	X-101	Industrial	2,507	92.9
Misc. Equipment/Structure	X-101	Industrial	22,885	847.6
Slab/Below Grade Concrete	X-101	Industrial	5,774	213.9
Junk Removal	X-100B	Industrial	46	1.7
Building Exterior - Transite	X-100B	Sanitary-ACM	59	2.2
Concrete	X-100B	Industrial	90	3.3
Misc. Equipment/Structure	X-100B	Industrial	4,493	166.4
Slab/Below Grade Concrete	X-100B	Industrial	626	23.2
Junk Removal	X-102	Industrial	1,081	40.0
Fluorescent Light Bulbs	X-102	Universal	32	1.2
Building Exterior - Transite	X-102	Sanitary-ACM	289	10.7
ACM Floor Tile	X-102	Sanitary-ACM	148	5.5
ACM Pipe Insulation	X-102	Sanitary-ACM	204	7.6
Concrete	X-102	Industrial	1,913	70.9
Misc. Equipment/Structure	X-102	Industrial	41,350	1,531.5
Slab/Below Grade Concrete	X-102	Industrial	10,383	384.6
Junk Removal	X-104	Industrial	521	19.3
ACM Floor Tile	X-104	Sanitary-ACM	85	3.1
ACM Pipe Insulation	X-104	Sanitary-ACM	1,527	56.6
Concrete	X-104	Industrial	922	34.1
Misc. Equipment/Structure	X-104	Industrial	11,966	443.2
Slab/Below Grade Concrete	X-104	Industrial	9,675	358.3
Junk Removal	X-104A	Industrial	208	7.7
Misc. Equipment/Structure	X-104A	Industrial	5,329	197.4
Concrete	X-104A	Industrial	369	13.7
Slab/Below Grade Concrete	X-104A	Industrial	3,881	143.7
Junk Removal	X-106	Industrial	356	13.2
Fluorescent Light Bulbs	X-106	Universal	32	1.2
Building Exterior - Transite	X-106	Sanitary-ACM	168	6.2
ACM Floor Tile	X-106	Sanitary-ACM	49	1.8
ACM Pipe Insulation	X-106	Sanitary-ACM	136	5.0
Concrete	X-106	Industrial	1,957	72.5
Misc. Equipment Structure	X-106	Industrial	17,889	662.6
Slab/Below Grade Concrete	X-106	Industrial	4,900	181.5
Concrete	X-106C	Industrial	122	4.5
Misc. Equipment/Structure	X-106C	Industrial	1,286	47.6
Slab/Below Grade Concrete	X-106C	Industrial	698	25.9
Junk Removal	X-108A	Industrial	574	21.3
Fluorescent Light Bulbs	X-108A	Universal	9	0.3
Transformers	X-108A	Recycle	48	1.8
ACM Floor Tile	X-108A	Sanitary-ACM	31	1.1
Concrete	X-108A	Industrial	451	16.7
Misc. Equipment/Structure	X-108A	Industrial	20,945	775.7
Slab/Below Grade Concrete	X-108A	Industrial	10,435	386.5
Junk Removal	X-108B	Industrial	17	0.6

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Fluorescent Light Bulbs	X-108B	Universal	9	0.3
Transformers	X-108B	Recycle	48	1.8
ACM Floor Tile	X-108B	Sanitary-ACM	9	0.3
Concrete	X-108B	Industrial	122	4.5
Misc. Equipment/Structure	X-108B	Industrial	1,485	55.0
Slab/Below Grade Concrete	X-108B	Industrial	269	10.0
Junk Removal	X-108E	Industrial	35	1.3
Fluorescent Light Bulbs	X-108E	Universal	9	0.3
Building Exterior - Transite	X-108E	Sanitary-ACM	41	1.5
ACM Floor Tile	X-108E	Sanitary-ACM	19	0.7
Concrete	X-108E	Industrial	249	9.2
Misc. Equipment/Structure	X-108E	Industrial	2,075	76.9
Slab/Below Grade Concrete	X-108E	Industrial	714	26.4
Junk Removal	X-108H	Industrial	6	0.2
Fluorescent Light Bulbs	X-108H	Universal	3	0.1
Transformers	X-108H	Recycle	48	1.8
Building Exterior - Transite	X-108H	Sanitary-ACM	12	0.4
ACM Floor Tile	X-108H	Sanitary-ACM	3	0.1
Misc. Equipment/Structure	X-108H	Industrial	947	35.1
Slab/Below Grade Concrete	X-108H	Industrial	87	3.2
Junk Removal	X-109A	Industrial	62	2.3
Concrete	X-109A	Industrial	109	4.0
Misc. Equipment/Structure	X-109A	Industrial	1,993	73.8
Slab/Below Grade Concrete	X-109A	Industrial	1,206	44.7
Junk Removal	X-109B	Industrial	19	0.7
Fluorescent Light Bulbs	X-109B	Universal	32	1.2
ACM Floor Tile	X-109B	Sanitary-ACM	10	0.4
Misc. Equipment/Structure	X-109B	Industrial	828	30.7
Slab/Below Grade Concrete	X-109B	Industrial	324	12.0
Junk Removal	X-109C	Industrial	41	1.5
Fluorescent Light Bulbs	X-109C	Universal	32	1.2
ACM Floor Tile	X-109C	Sanitary-ACM	23	0.9
Misc. Equipment/Structure	X-109C	Industrial	1,471	54.5
Misc. Equipment/Structure	X-120H	Industrial	0	0.0
Slab/Below Grade Concrete	X-120H	Industrial	0	0.0
Junk Removal	X-230J2	Industrial	6	0.2
Transformers	X-230J2	Recycle	48	1.8
Misc. Equipment/Structure	X-230J2	Industrial	404	15.0
Slab/Below Grade Concrete	X-230J2	Industrial	110	4.1
Junk Removal	X-230J3	Industrial	6	0.2
Transformers	X-230J3	Recycle	48	1.8
Misc. Equipment/Structure	X-230J3	Industrial	404	15.0
Slab/Below Grade Concrete	X-230J3	Industrial	110	4.1
Junk Removal	X-230J5	Industrial	8	0.3
Transformers	X-230J5	Recycle	48	1.8
Misc. Equipment/Structure	X-230J5	Industrial	480	17.8
Slab/Below Grade Concrete	X-230J5	Industrial	144	5.3
Junk Removal	X-230J6	Industrial	8	0.3
Transformers	X-230J6	Recycle	48	1.8

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Misc. Equipment/Structure	X-230J6	Industrial	480	17.8
Slab/Below Grade Concrete	X-230J6	Industrial	144	5.3
Junk Removal	X-230J7	Industrial	8	0.3
Transformers	X-230J7	Recycle	48	1.8
Misc. Equipment/Structure	X-230J7	Industrial	480	17.8
Slab/Below Grade Concrete	X-230J7	Industrial	144	5.3
Junk Removal	X-300	LLW	916	33.9
Batteries	X-300	Universal	49	1.8
ACM Floor Tile	X-300	LLW-ACM	250	9.3
ACM Pipe Insulation	X-300	LLW-ACM	500	18.5
Transite Cable Trays	X-300	LLW-ACM	63	2.3
Concrete	X-300	LLW	8,648	320.3
Misc. Equipment/Structure	X-300	LLW	121,160	4,487.4
Slab/Below Grade Concrete	X-300	LLW	43,584	1,614.2
Junk Removal	X-300A	Industrial	82	3.0
Concrete	X-300A	Industrial	771	28.6
Misc. Equipment/Structure	X-300A	Industrial	5,008	185.5
Slab/Below Grade Concrete	X-300A	Industrial	1,102	40.8
Misc. Equipment/Structure	X-300B	Industrial	1,760	65.2
Slab/Below Grade Concrete	X-300B	Industrial	646	23.9
Misc. Equipment/Structure	X-300C	Industrial	50	1.9
Slab/Below Grade Concrete	X-300C	Industrial	140	5.2
Junk Removal	X-530B	Industrial	8,512	315.3
Batteries and Mercury Switches	X-530B	Universal	150	5.6
Piping	X-530B	Industrial	10,000	370.4
HVAC Duct w/Lithium Paint	X-530B	Industrial	1,000	37.0
Building Exterior - Transite	X-530B	Sanitary-ACM	802	29.7
ACM Floor Tile	X-530B	Sanitary-ACM	1,162	43.0
ACM Pipe Insulation	X-530B	Sanitary-ACM	10,200	377.8
Transite Cable Trays	X-530B	Sanitary-ACM	1,250	46.3
Concrete	X-530B	Industrial	50,205	1,859.4
Misc. Equipment/Structure	X-530B	Industrial	741,553.08	27,464.9
Slab/Below Grade Concrete	X-530B	Industrial	114,176	4,228.7
Junk Removal	X-530C	Industrial	72	2.7
Building Exterior - Transite	X-530C	Sanitary-ACM	78	2.9
Concrete	X-530C	Industrial	394	14.6
Misc. Equipment/Structure	X-530C	Industrial	4,652	172.3
Slab/Below Grade Concrete	X-530C	Industrial	975	36.1
Junk Removal	X-530D	Industrial	11	0.4
Misc. Equipment/Structure	X-530D	Industrial	1,532	56.7
Slab/Below Grade Concrete	X-530D	Industrial	190	7.0
Mercury Switches	X-530E	Universal	28	1.0
Misc. Equipment/Structure	X-530E	Industrial	672	24.9
Misc. Equipment/Structure	X-530E	Industrial	365	13.5
Slab/Below Grade Concrete	X-530E	Industrial	542	20.1
Misc. Equipment/Structure	X-530F	Industrial	672	24.9
Mercury Switches	X-530F	Universal	28	1.0

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Misc. Equipment/Structure	X-530F	Industrial	365	13.5
Slab/Below Grade Concrete	X-530F	Industrial	542	20.1
Junk Removal	X-530G	Industrial	72	2.7
Fluorescent Light Bulbs	X-530G	Universal	64	2.4
Misc. Equipment/Structure	X-530G	Industrial	2,007	74.3
Slab/Below Grade Concrete	X-530G	Industrial	766	28.4
Junk Removal	X-600	Industrial	1,116	41.3
Mercury Switches	X-600	Universal	14	0.5
Building Exterior - Transite	X-600	Sanitary-ACM	667	24.7
ACM Floor Tile	X-600	Sanitary-ACM	122	4.5
ACM Pipe Insulation	X-600	Sanitary-ACM	1,700	63.0
Concrete	X-600	Industrial	2,633	97.5
Misc. Equipment/Structure	X-600	Industrial	130,806	4,844.7
Slab/Below Grade Concrete	X-600	Industrial	6,957	257.7
Junk Removal	X-600B	Industrial	86	3.2
Fluorescent Light Bulbs	X-600B	Universal	32	1.2
Misc. Equipment/Structure	X-600B	Industrial	2,584	95.7
Slab/Below Grade Concrete	X-600B	Industrial	1,500	55.6
Junk Removal	X-600C	Industrial	69	2.6
Fluorescent Light Bulbs	X-600C	Universal	32	1.2
Building Exterior - Transite	X-600C	Sanitary-ACM	73	2.7
ACM Pipe Insulation	X-600C	Sanitary-ACM	554	20.5
Concrete	X-600C	Industrial	122	4.5
Misc. Equipment/Structure	X-600C	Industrial	3,297	122.1
Slab/Below Grade Concrete	X-600C	Industrial	1,200	44.4
Junk Removal	X-608	Industrial	664	24.6
Batteries	X-608	Universal	10	0.4
PCB Liquids/Oils	X-608	TSCA	7	0.3
ACM Pipe Insulation	X-608	Sanitary-ACM	340	12.6
Concrete	X-608	Industrial	5,220	193.3
Misc. Equipment/Structure	X-608	Industrial	13,712	507.9
Slab/Below Grade Concrete	X-608	Industrial	20,848	772.1
Junk Removal	X-611	Industrial	458	17.0
Batteries	X-611	Universal	15	0.6
PCBs	X-611	TSCA	9	0.3
Piping	X-611	LLW	45,000	1,666.7
ACM Pipe Insulation	X-611	Sanitary-ACM	204	7.6
Concrete	X-611	Industrial	900	33.3
Misc. Equipment/Structure	X-611	Industrial	30,156	1,116.9
Slab/Below Grade Concrete	X-611	Industrial	3,426	126.9
Junk Removal	X-611B	Industrial	22	0.8
Misc. Equipment/Structure	X-611B	Industrial	903	33.4
Slab/Below Grade Concrete	X-611B	Industrial	192	7.1
Junk Removal	X-611C	Industrial	435	16.1
Fluorescent Light Bulbs	X-611C	Universal	32	1.2
Misc. Equipment/Structure	X-611C	Industrial	13,334	493.9
Slab/Below Grade Concrete	X-611C	Industrial	12,532	464.1
Junk Removal	X-611D	Industrial	14	0.5
Fluorescent Light Bulbs	X-611D	Universal	32	1.2

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Misc. Equipment/Structure	X-611D	Industrial	674	25.0
Slab/Below Grade Concrete	X-611D	Industrial	240	8.9
Fluorescent Light Bulbs	X-611E	Universal	64	2.4
ACM Pipe Insulation	X-611E	Sanitary-ACM	518	19.2
Misc. Equipment/Structure	X-611E	Industrial	1,828	67.7
Slab/Below Grade Concrete	X-611E	Industrial	655	24.3
Tanks	X-612	Industrial	244	9.0
Misc. Equipment/Structure	X-612	Industrial	450	16.7
Junk Removal	X-614A	Industrial	17	0.6
Misc. Equipment/Structure	X-614A	Industrial	696	25.8
Slab/Below Grade Concrete	X-614A	Industrial	150	5.6
Junk Removal	X-614B	Industrial	32	1.2
Misc. Equipment/Structure	X-614B	Industrial	1,070	39.6
Slab/Below Grade Concrete	X-614B	Industrial	276	10.2
Junk Removal	X-617	Industrial	11	0.4
Misc. Equipment/Structure	X-617	Industrial	996	36.9
Slab/Below Grade Concrete	X-617	Industrial	200	7.4
Junk Removal	X-618	Industrial	13	0.5
Fluorescent Light Bulbs	X-618	Universal	32	1.2
Misc. Equipment/Structure	X-618	Industrial	924	34.2
Slab/Below Grade Concrete	X-618	Industrial	225	8.3
Misc. Equipment/Structure	X-621	Industrial	2,430	90.0
Slab/Below Grade Concrete	X-621	Industrial	905	33.5
Junk Removal	X-640-1	Industrial	94	3.5
Misc. Equipment/Structure	X-640-1	Industrial	2,622	97.1
Slab/Below Grade Concrete	X-640-1	Industrial	986	36.5
Transformers	X-640-2	Recycle	48	1.8
Tanks	X-640-2	Industrial	281	10.4
Misc. Equipment/Structure	X-640-2	Industrial	550	20.4
Junk Removal	X-700	LLW	7,373	273.1
TSCA Waste	X-700	TSCA	3,840	142.2
RCRA Waste	X-700	MLLW	2,560	94.8
10 ton Lead-bored Polyethylene door	X-700	MLLW	28	1.0
Building Exterior - Transite	X-700	LLW-ACM	2,302	85.3
ACM Floor Tile	X-700	LLW-ACM	201	7.4
ACM Pipe Insulation	X-700	LLW-ACM	5,743	212.7
Building Exterior - Transite	X-700	LLW-ACM	115	4.3
Concrete	X-700	LLW	5,798	214.7
Misc. Equipment/Structure	X-700	LLW	179,542	6,649.7
Slab/Below Grade Concrete	X-700	LLW	133,022	4,926.7
Junk Removal	X-700A	Industrial	137	5.1
Fluorescent Light Bulbs	X-700A	Universal	64	2.4
Misc. Equipment/Structure	X-700A	LLW	125	4.6
Lube Oil	X-700A	TSCA	12	0.4
Building Exterior - Transite	X-700A	Sanitary-ACM	103	3.8
ACM Pipe Insulation	X-700A	Sanitary-ACM	784	29.0
Misc. Equipment Structure	X-700A	Industrial	3,909	144.8
Concrete	X-700A	Industrial	108	4.0

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Slab/Below Grade Concrete	X-700A	Industrial	1,796	66.5
Junk Removal	X-705	LLW	5,767	213.6
Fluorescent Light Bulbs	X-705	Universal	64	2.4
Transformers	X-705	Recycle	240	8.9
Building Exterior - Transite	X-705	Sanitary-ACM	1,885	69.8
ACM Pipe Insulation	X-705	LLW-ACM	5,079	188.1
Building Exterior - Transite	X-705	LLW-ACM	94	3.5
Concrete	X-705	LLW	13,605	503.9
Misc. Equipment/Structure	X-705	LLW	440,164	16,302.4
Slab/Below Grade Concrete	X-705	LLW	222,986	8,258.7
Junk Removal	X-705D	LLW	42	1.6
Fluorescent Light Bulbs	X-705D	Universal	64	2.4
Misc. Equipment/Structure	X-705D	LLW	1,241	46.0
Slab/Below Grade Concrete	X-705D	LLW	444	16.4
Junk Removal	X-710	LLW	8,199	303.7
Fluorescent Light Bulbs	X-710	Universal	64	2.4
Misc. Equipment/Structure	X-710	LLW	1,220	45.2
Building Exterior - Transite	X-710	LLW-ACM	1,791	66.3
ACM Pipe Insulation	X-710	LLW-ACM	4,283	158.6
Concrete	X-710	LLW	19,343	716.4
Misc. Equipment/Structure	X-710	LLW	189,808	7,029.9
Slab/Below Grade Concrete	X-710	LLW	38,353	1,420.5
Fluorescent Light Bulbs	X-710A	Universal	64	2.4
Misc. Equipment/Structure	X-710A	Industrial	490	18.1
Slab/Below Grade Concrete	X-710A	Industrial	398	14.7
Fluorescent Light Bulbs	X-710B	Universal	64	2.4
Misc. Equipment/Structure	X-710B	Industrial	558	20.7
Slab/Below Grade Concrete	X-710B	Industrial	308	11.4
Junk Removal	X-720	LLW	17,855	661.3
Fluorescent Light Bulbs	X-720	Universal	64	2.4
Gasoline Storage Tank	X-720	Industrial	1,715	63.5
Transformers	X-720	Recycle	48	1.8
Misc. Equipment/Structure	X-720	Industrial	4,000	148.1
TCA Tank	X-720	TSCA	429	15.9
Building Exterior - Transite	X-720	Sanitary-ACM	1,047	38.8
ACM Floor Tile	X-720	Sanitary-ACM	1,463	54.2
ACM Pipe Insulation	X-720	Sanitary-ACM	8,938	331.0
Concrete	X-720	Industrial	14,042	520.1
Misc. Equipment/Structure	X-720	Industrial	792,465	29,350.6
Slab/Below Grade Concrete	X-720	Industrial	320,637	11,875.4
Junk Removal	X-720B	Industrial	44	1.6
Fluorescent Light Bulbs	X-720B	Universal	64	2.4
ACM Pipe Insulation	X-720B	Sanitary-ACM	443	16.4
Misc. Equipment/Structure	X-720B	Industrial	1,544	57.2
Slab/Below Grade Concrete	X-720B	Industrial	623	23.1
Junk Removal	X-720C	Industrial	240	8.9
Fluorescent Light Bulbs	X-720C	Universal	64	2.4
Concrete	X-720C	Industrial	189	7.0
Misc. Equipment/Structure	X-720C	Industrial	5,496	203.6

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Slab/Below Grade Concrete	X-720C	Industrial	2,800	103.7
Junk Removal	X-721	Industrial	229	8.5
Fluorescent Light Bulbs	X-721	Universal	64	2.4
Building Exterior - Transite	X-721	Sanitary-ACM	95	3.5
Misc. Equipment/Structure	X-721	Industrial	5,682	210.4
Slab/Below Grade Concrete	X-721	Industrial	4,000	148.1
Building Exterior - Transite	X-741	Sanitary-ACM	21	0.8
Misc. Equipment/Structure	X-741	Industrial	969	35.9
Slab/Below Grade Concrete	X-741	Industrial	625	23.1
Building Exterior - Transite	X-742	Sanitary-ACM	69	2.6
Misc. Equipment/Structure	X-742	Industrial	641	23.7
Slab/Below Grade Concrete	X-742	Industrial	7,286	269.9
Building Exterior - Transite	X-743	Sanitary-ACM	41	1.5
Misc. Equipment/Structure	X-743	Industrial	2,628	97.3
Slab/Below Grade Concrete	X-743	Industrial	3,914	145.0
Misc. Equipment/Structure	X-744B	Industrial	208	7.7
Slab/Below Grade Concrete	X-744B	Industrial	600	22.2
Misc. Equipment/Structure	X-744H	Industrial	640	23.7
Transformers	X-744H	Recycle	48	1.8
ACM Pipe Insulation	X-744H	Sanitary-ACM	50	1.9
Misc. Equipment/Structure	X-744H	Industrial	43,723	1,619.4
Slab/Below Grade Concrete	X-744H	Industrial	31,521	1,167.4
Misc. Equipment/Structure	X-744J	Industrial	1,280	47.4
Transformers	X-744J	Recycle	48	1.8
Misc. Equipment/Structure	X-744J	Industrial	43,723	1,619.4
Slab/Below Grade Concrete	X-744J	Industrial	31,521	1,167.4
Concrete	X-744L	LLW-PCB	4	0.1
Transformers	X-744L	Recycle	48	1.8
Misc. Equipment/Structure	X-744L	Industrial	1,280	47.4
Misc. Equipment/Structure	X-744L	Industrial	43,723	1,619.4
Slab/Below Grade Concrete	X-744L	Industrial	31,521	1,167.4
Batteries	X-744W	Universal	8	0.3
Transformers	X-744W	Recycle	48	1.8
Misc. Equipment/Structure	X-744W	Industrial	19,342	716.4
Slab/Below Grade Concrete	X-744W	Industrial	26,915	996.9
Junk Removal	X-750	Industrial	887	32.9
Fluorescent Light Bulbs	X-750	Universal	64	2.4
Batteries	X-750	Universal	28	1.0
Tanks	X-750	Industrial	29,151	1,079.7
Building Exterior - Transite	X-750	Sanitary-ACM	276	10.2
ACM Pipe Insulation	X-750	Sanitary-ACM	1,992	73.8
Concrete	X-750	Industrial	1,395	51.7
Misc. Equipment/Structure	X-750	Industrial	17,342	642.3
Slab/Below Grade Concrete	X-750	Industrial	8,564	317.2
Junk Removal	X-750A	Industrial	27	1.0
Fluorescent Light Bulbs	X-750A	Universal	64	2.4
Misc. Equipment/Structure	X-750A	Industrial	130	4.8
Slab/Below Grade Concrete	X-750A	Industrial	323	12.0
Slab/Below Grade Concrete	X-120	LLW	1,350	50.0

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Fluorescent Light Bulbs	X-540	Universal	32	1.2
Batteries, Lead, Silver Circuit Boards	X-540	Universal	50	1.9
80 gal Halon Fire Extinguisher System	X-540	Industrial	3	0.1
ACM Pipe Insulation	X-540	Sanitary-ACM	824	30.5
Junk Removal	X-540	Industrial	152	5.6
Concrete	X-540	Industrial	269	10.0
Misc. Equipment/Structure	X-540	Industrial	4,557	168.8
Slab/Below Grade Concrete	X-540	Industrial	2,858	105.9
Demolition Debris	X-1007	Industrial	51,200	1,896.3
Demolition Debris	X-1020	Industrial	0	0.0
Demolition Debris	X-103	Industrial	0	0.0
Demolition Debris	X-114A	Industrial	5,600	207.4
Hazardous Material	X-114A	RCRA	120	4.4
Demolition Debris	X-206A	Industrial	286,925	10,626.9
Demolition Debris	X-206B	Industrial	181,697	6,729.5
Demolition Debris	X-206E	Industrial	65,483	2,425.3
Demolition Debris	X-206H	Industrial	71,886	2,662.4
Demolition Debris	X-206J	Industrial	0	0.0
Demolition Debris	X-208	Industrial	13,327.9	493.6
Demolition Debris	X-208	Industrial	13,327.9	493.6
Demolition Debris	X-208	Industrial	13,327.9	493.6
Demolition Debris	X-208	Industrial	13,327.9	493.6
Demolition Debris	X-208	Industrial	13,327.9	493.6
Demolition Debris	X-208	Industrial	13,327.9	493.6
Demolition Debris	X-208	Industrial	13,327.9	493.6
Demolition Debris	X-208	Industrial	13,327.9	493.6
Demolition Debris	X-208	Industrial	13,327.9	493.6
Demolition Debris	X-208	Industrial	13,327.9	493.6
Slab/Below Grade Concrete	X-215D	Industrial	142,425	5,275.0
Slab/Below Grade Concrete	X-220A	Industrial	602,050	22,298.1
Demolition Debris	X-230A10	Industrial	0	0.0
Demolition Debris	X-230A12	Industrial	0	0.0
Demolition Debris	X-230A15	Industrial	0	0.0
Demolition Debris	X-230A23	Industrial	0	0.0
Demolition Debris	X-230A24	Industrial	0	0.0
Demolition Debris	X-230A28	Industrial	0	0.0
Demolition Debris	X-230A29	Industrial	0	0.0
Demolition Debris	X-230A3	Industrial	0	0.0
Demolition Debris	X-230A36	Industrial	0	0.0
Demolition Debris	X-230A37	Industrial	0	0.0
Demolition Debris	X-230A40	Industrial	0	0.0
Demolition Debris	X-230A41	Industrial	0	0.0
Demolition Debris	X-230A6	Industrial	0	0.0
Demolition Debris	X-230A8	Industrial	0	0.0
Demolition Debris	X-230A9	Industrial	0	0.0
Demolition Debris	X-230J1	Industrial	189	7.0
Demolition Debris	X-232D	Industrial	30,000	1,111.1

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Demolition Debris	X-334	LLW	0	0.0
Demolition Debris	X-344C	Industrial	0	0.0
Demolition Debris	X-344E	Industrial	2,253	83.4
Demolition Debris	X-344F	Industrial	0	0.0
Demolition Debris	X-344D	Industrial	2,072	76.7
Demolition Debris	X-501	Industrial	252	9.3
Demolition Debris	X-501A	Industrial	378	14.0
Demolition Debris	X-502	Industrial	1,689	62.6
Tanks	X-530E	Industrial	1,607	59.5
Tanks	X-530F	Industrial	1,607	59.5
Demolition Debris	X-533	Industrial	6,960	257.8
ACM Pipe Insulation and Cable Tray	X-533B	Sanitary-ACM	10,812	400.4
ACM Floor Tile	X-533B	Sanitary-ACM	0	0.0
Building Exterior - Transite	X-533B	Sanitary-ACM	0	0.0
Haz Material (Waste)	X-533B	RCRA	0	0.0
Junk Removal	X-533B	Industrial	0	0.0
Concrete	X-533B	Industrial	0	0.0
Demolition Debris	X-533B	Industrial	0	0.0
Slab/Below Grade Concrete	X-533B	Industrial	108,533	4,019.7
Building Exterior - Transite	X-533C	Sanitary-ACM	0	0.0
Junk Removal	X-533C	Industrial	0	0.0
Concrete	X-533C	Industrial	0	0.0
Demolition Debris	X-533C	Industrial	0	0.0
Slab/Below Grade Concrete	X-533C	Industrial	921	34.1
Junk Removal	X-533D	Industrial	0	0.0
Demolition Debris	X-533D	Industrial	0	0.0
Slab/Below Grade Concrete	X-533D	Industrial	179	6.6
Haz Material (Waste)	X-533E	RCRA	0	0.0
Demolition Debris	X-533E	Industrial	0	0.0
Slab/Below Grade Concrete	X-533E	Industrial	512	19.0
Tanks	X-533E	Sanitary-ACM	0	0.0
Demolition Debris	X-533F	Industrial	0	0.0
Slab/Below Grade Concrete	X-533F	Industrial	512	19.0
Tanks	X-533F	Sanitary-ACM	0	0.0
Haz Material (Waste)	X-533F	RCRA	0	0.0
Demolition Debris	X-533H	Industrial	900	33.3
Demolition Debris	X-600	Industrial	6,880	254.8
Demolition Debris	X-605H	Industrial	0	0.0
Demolition Debris	X-605I	Industrial	0	0.0
Demolition Debris	X-605J	Industrial	0	0.0
Demolition Debris	X-611B1	Industrial	675	25.0
Demolition Debris	X-611B3	Industrial	675	25.0
Demolition Debris	X-614D	Industrial	0	0.0
Demolition Debris	X-614P	Industrial	1,000	37.0
Slab/Below Grade Concrete	X-745B	Industrial	0	0.0
Slab/Below Grade Concrete	X-745D	Industrial	51,802	1,918.6
Slab/Below Grade Concrete	X-745F	Industrial	0	0.0
Slab/Below Grade Concrete	X-745G-2	Industrial	0	0.0

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Demolition Debris	X-748	Industrial	10,800	400.0
Demolition Debris	X-760	LLW	0	0.0
Demolition Debris	XT-800	Industrial	4,188	155.1
ACM Pipe Insulation	X-232D	Sanitary-ACM	13,200	488.9
Hazardous Material	X-104A	RCRA	120	4.4
Misc. Equipment/Structure	XT-104B	Industrial	3,360	124.4
ACM Floor Tile	XT-104B	Sanitary-ACM	48	1.8
Fluorescent Light Bulbs	XT-104B	Universal	64	2.4
Junk Removal	XT-104B	Industrial	88	3.3
Misc. Equipment/Structure	XT-104C	Industrial	3,360	124.4
ACM Floor Tile	XT-104C	Sanitary-ACM	48	1.8
Fluorescent Light Bulbs	XT-104C	Universal	64	2.4
Junk Removal	XT-104C	Industrial	88	3.3
Lube Oil	X-300A	TSCA	10	0.4
Slab/Below Grade Concrete	X-342C	LLW	280	10.4
Lube Oil	X-342C	TSCA	64	2.4
Lube Oil	X-530C	TSCA	32	1.2
Lube Oil	X-530D	TSCA	10	0.4
Misc. Equipment/Structure	X-530T1	Industrial	1,680	62.2
ACM Floor Tile	X-530T1	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-530T1	Universal	32	1.2
Junk Removal	X-530T1	Industrial	44	1.6
Misc. Equipment/Structure	X-533T1	Industrial	1,680	62.2
ACM Floor Tile	X-533T1	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-533T1	Universal	32	1.2
Junk Removal	X-533T1	Industrial	44	1.6
Misc. Equipment/Structure	X-533T2	Industrial	1,680	62.2
ACM Floor Tile	X-533T2	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-533T2	Universal	32	1.2
Junk Removal	X-533T2	Industrial	44	1.6
Misc. Equipment/Structure	X-533T3	Industrial	1,680	62.2
ACM Floor Tile	X-533T3	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-533T3	Universal	32	1.2
Junk Removal	X-533T3	Industrial	44	1.6
Misc. Equipment/Structure	X-533T4	Industrial	1,680	62.2
ACM Floor Tile	X-533T4	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-533T4	Universal	32	1.2
Junk Removal	X-533T4	Industrial	44	1.6
Misc. Equipment/Structure	X-533H1	Industrial	840	31.1
ACM Floor Tile	X-533H1	Sanitary-ACM	12	0.4
Fluorescent Light Bulbs	X-533H1	Universal	16	0.6
Junk Removal	X-533H1	Industrial	22	0.8
Misc. Equipment/Structure	X-600D	Industrial	1,680	62.2
ACM Floor Tile	X-600D	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-600D	Universal	32	1.2
Junk Removal	X-600D	Industrial	44	1.6
Lube Oil	X-605	TSCA	10	0.4
Slab/Below Grade Concrete	X-611B2	Industrial	675	25.0
Misc. Equipment/Structure	x-614Q	Industrial	1,070	39.6

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Slab/Below Grade Concrete	x-614Q	Industrial	276	10.2
Junk Removal	x-614Q	Industrial	32	1.2
Misc. Equipment/Structure	X-633T1	Industrial	1,680	62.2
ACM Floor Tile	X-633T1	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-633T1	Universal	32	1.2
Junk Removal	X-633T1	Industrial	44	1.6
Misc. Equipment/Structure	X-633T2	Industrial	1,680	62.2
ACM Floor Tile	X-633T2	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-633T2	Universal	32	1.2
Junk Removal	X-633T2	Industrial	44	1.6
Misc. Equipment/Structure	X-633T3	Industrial	1,680	62.2
ACM Floor Tile	X-633T3	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-633T3	Universal	32	1.2
Junk Removal	X-633T3	Industrial	44	1.6
Misc. Equipment/Structure	X-640-1A	Industrial	300	11.1
Slab/Below Grade Concrete	X-640-1A	Industrial	300	11.1
Misc. Equipment/Structure	X-640-2A	Industrial	60	2.2
Slab/Below Grade Concrete	X-640-2A	Industrial	36	1.3
Misc. Equipment/Structure	X-670	Industrial	49,578	1,836.2
Slab/Below Grade Concrete	X-670	Industrial	15,255	565.0
Fluorescent Light Bulbs	X-670	Universal	60	2.2
Misc. Equipment/Structure	X-670A	Industrial	1,230	45.6
Slab/Below Grade Concrete	X-670A	Industrial	1,230	45.6
Misc. Equipment/Structure	X-675	Industrial	576	21.3
Slab/Below Grade Concrete	X-675	Industrial	576	21.3
Slab/Below Grade Concrete	X-701D	Industrial	761	28.2
Slab/Below Grade Concrete	X-720A	Industrial	386	14.3
Misc. Equipment/Structure	X-701T1	Industrial	1,680	62.2
ACM Floor Tile	X-701T1	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-701T1	Universal	32	1.2
Junk Removal	X-701T1	Industrial	44	1.6
Misc. Equipment/Structure	X-720T01	Industrial	1,680	62.2
ACM Floor Tile	X-720T01	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-720T01	Universal	32	1.2
Junk Removal	X-720T01	Industrial	44	1.6
Misc. Equipment/Structure	X-735A	Industrial	2,902	107.5
Junk Removal	X-735A	Industrial	162	6.0
Fluorescent Light Bulbs	X-735A	Universal	64	2.4
Slab/Below Grade Concrete	X-735A	Industrial	1,626	60.2
Misc. Equipment/Structure	X-744N	Industrial	11,162	413.4
Slab/Below Grade Concrete	X-744N	Industrial	8,028	297.3
Misc. Equipment/Structure	X-744P	Industrial	11,162	413.4
Slab/Below Grade Concrete	X-744P	Industrial	8,028	297.3
Misc. Equipment/Structure	X-744Q	Industrial	11,162	413.4
Slab/Below Grade Concrete	X-744Q	Industrial	8,028	297.3
Misc. Equipment/Structure	X-744YT1	Industrial	1,680	62.2
ACM Floor Tile	X-744YT1	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-744YT1	Universal	32	1.2
Junk Removal	X-744YT1	Industrial	44	1.6

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Misc. Equipment/Structure	X-744YT2	Industrial	1,680	62.2
ACM Floor Tile	X-744YT2	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-744YT2	Universal	32	1.2
Junk Removal	X-744YT2	Industrial	44	1.6
Misc. Equipment/Structure	X-744YT3	Industrial	1,680	62.2
ACM Floor Tile	X-744YT3	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-744YT3	Universal	32	1.2
Junk Removal	X-744YT3	Industrial	44	1.6
Misc. Equipment/Structure	X-744YT4	Industrial	1,680	62.2
ACM Floor Tile	X-744YT4	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-744YT4	Universal	32	1.2
Junk Removal	X-744YT4	Industrial	44	1.6
Misc. Equipment/Structure	X-744YT5	Industrial	1,680	62.2
ACM Floor Tile	X-744YT5	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-744YT5	Universal	32	1.2
Junk Removal	X-744YT5	Industrial	44	1.6
Misc. Equipment/Structure	X-744YT6	Industrial	1,680	62.2
ACM Floor Tile	X-744YT6	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-744YT6	Universal	32	1.2
Junk Removal	X-744YT6	Industrial	44	1.6
Misc. Equipment/Structure	X-744YT7	Industrial	1,680	62.2
ACM Floor Tile	X-744YT7	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-744YT7	Universal	32	1.2
Junk Removal	X-744YT7	Industrial	44	1.6
Misc. Equipment/Structure	X-744YT8	Industrial	1,680	62.2
ACM Floor Tile	X-744YT8	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-744YT8	Universal	32	1.2
Junk Removal	X-744YT8	Industrial	44	1.6
Misc. Equipment/Structure	X-744YT9	Industrial	1,680	62.2
ACM Floor Tile	X-744YT9	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-744YT9	Universal	32	1.2
Junk Removal	X-744YT9	Industrial	44	1.6
Misc. Equipment/Structure	X-752AT-1	Industrial	1,125	41.7
ACM Floor Tile	X-752AT-1	Sanitary-ACM	24	0.9
Junk Removal	X-752AT-1	Industrial	100	3.7
Misc. Equipment/Structure	X-752AT-2	Industrial	1,125	41.7
ACM Floor Tile	X-752AT-2	Sanitary-ACM	24	0.9
Junk Removal	X-752AT-2	Industrial	100	3.7
Misc. Equipment/Structure	X-752AT-3	Industrial	1,125	41.7
ACM Floor Tile	X-752AT-3	Sanitary-ACM	24	0.9
Junk Removal	X-752AT-3	Industrial	100	3.7
Misc. Equipment/Structure	X-752AT-4	Industrial	1,125	41.7
ACM Floor Tile	X-752AT-4	Sanitary-ACM	24	0.9
Junk Removal	X-752AT-4	Industrial	100	3.7
Misc. Equipment/Structure	X-760T1	Industrial	1,680	62.2
ACM Floor Tile	X-760T1	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-760T1	Universal	32	1.2
Junk Removal	X-760T1	Industrial	44	1.6
Misc. Equipment/Structure	X-760T2	Industrial	1,680	62.2

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
ACM Floor Tile	X-760T2	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-760T2	Universal	32	1.2
Junk Removal	X-760T2	Industrial	44	1.6
Misc. Equipment/Structure	X-1000	Industrial	88,500	3,277.8
Slab/Below Grade Concrete	X-1000	Industrial	29,700	1,100.0
Fluorescent Light Bulbs	X-1000	Universal	64	2.4
Junk Removal	X-1000	Industrial	8,250	305.6
Misc. Equipment/Structure	X-1000T1	Industrial	1,680	62.2
ACM Floor Tile	X-1000T1	Sanitary-ACM	24	0.9
Fluorescent Light Bulbs	X-1000T1	Universal	32	1.2
Junk Removal	X-1000T1	Industrial	44	1.6
Misc. Equipment/Structure	X-1007	Industrial	46,464	1,720.9
Junk Removal	X-1007	Industrial	4,736	175.4
Misc. Equipment/Structure	X-1107BV	Industrial	1,325	49.1
Slab/Below Grade Concrete	X-1107BV	Industrial	1,012	37.5
Fluorescent Light Bulbs	X-1107BV	Universal	32	1.2
Misc. Equipment/Structure	I-Peter_Kiewit_ Powder_Magazine	Industrial	192	7.1
Slab/Below Grade Concrete	I-Peter_Kiewit_ Powder_Magazine	Industrial	35	1.3
Misc. Equipment/Structure	JX-1000_Pavilion	Industrial	300	11.1
Slab/Below Grade Concrete	JX-1000_Pavilion	Industrial	300	11.1
Slab/Below Grade Concrete	B_Pad	Industrial	1,570	58.1
Misc. Equipment/Structure	X-151_Trl_Complex	Industrial	13,440	497.8
Fluorescent Light Bulbs	X-151_Trl_Complex	Universal	256	9.5
Junk Removal	X-151_Trl_Complex	Industrial	352	13.0
Misc. Equipment/Structure	X-152_Trl_Complex	Industrial	107,520	3,982.2
Fluorescent Light Bulbs	X-152_Trl_Complex	Universal	2,048	75.9
Junk Removal	X-152_Trl_Complex	Industrial	2,816	104.3
Misc. Equipment/Structure	X-157_Trl_Complex	Industrial	50,400	1,866.7
Fluorescent Light Bulbs	X-157_Trl_Complex	Universal	960	35.6
Junk Removal	X-157_Trl_Complex	Industrial	2,816	104.3
Slab/Below Grade Concrete	X-326_Fuel_Tank_1	Industrial	300	11.1
Piping/Tank	X-326_Fuel_Tank_1	Industrial	43.78	1.6
Fuel/Sludge	X-326_Fuel_Tank_1	Industrial	6.7	0.2
Slab/Below Grade Concrete	X-326_Fuel_Tank_2	Industrial	176	6.5
Piping/tank	X-326_Fuel_Tank_2	Industrial	759.27	28.1
Fuel/Sludge	X-326_Fuel_Tank_2	Industrial	66.8	2.5
Slab/Below Grade Concrete	X-300A_Fuel_Tank	Industrial	92	3.4
Piping/Tank	X-300A_Fuel_Tank	Industrial	391.7	14.5
Fuel/Sludge	X-300A_Fuel_Tank	Industrial	33.4	1.2
Slab/Below Grade Concrete	X-720_Fuel_Tank	Industrial	134	5.0
Piping/Tank	X-720_Fuel_Tank	Industrial	598.11	22.2
Fuel/Sludge	X-720_Fuel_Tank	Industrial	53.4	2.0
Slab/Below Grade Concrete	X-750_Fuel_Tank	Industrial	632	23.4
Piping/Tank	X-750_Fuel_Tank	Industrial	2,979	110.3
Fuel/Sludge	X-750_Fuel_Tank	Industrial	534.7	19.8
Misc. Equipment/Structure	X-344J	Industrial	18,720	693.3
Slab/Below Grade Concrete	X-344J	Industrial	5,280	195.6

Balance of Plant Building Volumes (Continued)

Commodity	Building	Characterization	In Place Volume (cf)	In Place Volume (cy)
Fluorescent Light Bulbs	X-344J	Universal	64	2.4
Junk Removal	X-344J	Industrial	370	13.7
ACM Pipe Insulation	X-6619	Sanitary-ACM	102	3.8
Concrete	X-6619	Industrial	450	16.7
Junk Removal	X-6619	Industrial	229	8.5
Misc. Equipment/Structure	X-6619	Industrial	15,078	558.4
Piping	X-6619	LLW	22,500	833.3
Slab/Below Grade Concrete	X-6619	Industrial	1,713	63.4

Total Cubic Yardage **344,262**

ATTACHMENT E.5: D&D RESIDUAL SOIL VOLUMES (RC-1, EC-1)

D&D Residual Soil Volumes

Commodity	Building	Characterization	In-place Volume (cf)	In-place Volume (cy)
Soil-Utilities	QI – RA A	MLLW	30,248.33	1,120.3
Soil-Utilities	QI – RA C	MLLW	24,502.5	907.5
Soil-Utilities	QI – RA D	MLLW	53,976.67	1,999.1
Soil-Utilities	QI – RA E	MLLW	379,530.83	14,056.7
Soil-Utilities	QII– RA A	MLLW	1,220	45.2
Soil-Utilities	QII – RA B	MLLW	222,071.67	8,224.9
Soil-Utilities	QII – RA C	MLLW	99,675.83	3,691.7
Soil-Utilities	QIII – RA A	MLLW	25,069.17	928.5
Soil-Utilities	QIII – RA B	MLLW	39,685	1,469.8
Soil-Utilities	QIII – RA C	MLLW	161,600	5,985.2
Soil-Utilities	QIV – RA A	MLLW	48,422.5	1,793.4
Soil-Utilities	QIV – RA B	MLLW	73,725	2,730.6
Soil-Utilities	QIV – RA C	MLLW	7,907.5	292.9
Soil-Utilities	QIV – RA D	MLLW	115,515.83	4,278.4
Soil-Utilities	QIV – RA E	MLLW	28,896.67	1,070.2
Soil-Utilities	QIV – RA F	MLLW	127,124.17	4,708.3
			Total Cubic Yardage	**53,303**

ATTACHMENT E.6: OHIO CONSENT DECREE SOIL VOLUMES (RC-2)

Ohio Consent Decree Soil Volumes

Commodity	Building	Characterization	In-place Volume (cf)	In-place Volume (cy)
Contaminated Soil	X-326	LLW	972,290.25	36,010.8
Contaminated Soil	X-326	LLW	972,290.25	36,010.8
Contaminated Soil	X-326	LLW	972,290.25	36,010.8
Contaminated Soil	X-326	LLW	972,290.25	36,010.8
Contaminated Soil	X-330	LLW	1,075,700.25	39,840.8
Contaminated Soil	X-330	LLW	1,075,700.25	39,840.8
Contaminated Soil	X-330	LLW	1,075,700.25	39,840.8
Contaminated Soil	X-330	LLW	1,075,700.25	39,840.8
Contaminated Soil	X-333	LLW	2,167,452	80,276.0
Contaminated Soil	X-333	LLW	2,167,452	80,276.0
Berea Wells CF FY13	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	62.5	2.3
Gallia Wells CF FY13	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	75	2.8
Berea Wells CF FY15	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	62.5	2.3
Gallia Wells CF FY15	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	75	2.8
Gallia Wells CF FY16	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	18.75	0.7
Gallia Wells Abandon CF FY16	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	93.75	3.5
Gallia Wells CF FY17	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	18.75	0.7
Gallia Wells Abandon CF FY17	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	93.75	3.5
Berea Wells CF FY18	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	62.5	2.3
Gallia Wells CF FY18	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	75	2.8
Gallia Wells Abandon CF FY18	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	93.75	3.5
Gallia Wells Abandon CF FY19	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	93.75	3.5
Gallia Wells Abandon CF FY20	Q-I X-749 / X-120 / PK Landfill Monitoring Area	LLW	93.75	3.5
Berea Wells CF FY14	Q-I Groundwater Investigative Area / X-749A	LLW	93.75	3.5
Gallia Wells CF FY14	Q-I Groundwater Investigative Area / X-749A	LLW	75	2.8
Gallia Wells CF FY15	Q-I Groundwater Investigative Area / X-749A	LLW	18.75	0.7
Gallia Wells Abandon CF FY16	Q-I Groundwater Investigative Area / X-749A	LLW	93.75	3.5
Gallia Wells Abandon CF FY17	Q-I Groundwater Investigative Area / X-749A	LLW	93.75	3.5
Gallia Wells Abandon CF FY18	Q-I Groundwater Investigative Area / X-749A	LLW	93.75	3.5
Gallia Wells Abandon CF FY19	Q-I Groundwater Investigative Area / X-749A	LLW	93.75	3.5

Ohio Consent Decree Soil Volumes (Continued)

Commodity	Building	Characterization	In-place Volume (cf)	In-place Volume (cy)
Gallia Wells Abandon CF FY20	Q-I Groundwater Investigative Area / X-749A	LLW	93.75	3.5
Berea Wells CF FY14	Q-II (7-Unit) Groundwater Investigative Area	LLW	250	9.3
Gallia Wells CF FY14	Q-II (7-Unit) Groundwater Investigative Area	LLW	281.25	10.4
Gallia Wells CF FY15	Q-II (7-Unit) Groundwater Investigative Area	LLW	75	2.8
Gallia Wells Abandon CF FY16	Q-II (7-Unit) Groundwater Investigative Area	LLW	112.5	4.2
Gallia Wells Abandon CF FY17	Q-II (7-Unit) Groundwater Investigative Area	LLW	112.5	4.2
Gallia Wells Abandon CF FY18	Q-II (7-Unit) Groundwater Investigative Area	LLW	112.5	4.2
Gallia Wells Abandon CF FY19	Q-II (7-Unit) Groundwater Investigative Area	LLW	112.5	4.2
Gallia Wells Abandon CF FY20	Q-II (7-Unit) Groundwater Investigative Area	LLW	112.5	4.2
Berea Wells CF FY14	Q-II X-701B Holding Pond Monitoring Area	LLW	62.5	2.3
Gallia Wells CF FY14	Q-II X-701B Holding Pond Monitoring Area	LLW	37.5	1.4
Gallia Wells Abandon CF FY16	Q-II X-701B Holding Pond Monitoring Area	LLW	187.5	6.9
Gallia Wells Abandon CF FY17	Q-II X-701B Holding Pond Monitoring Area	LLW	187.5	6.9
Gallia Wells Abandon CF FY18	Q-II X-701B Holding Pond Monitoring Area	LLW	187.5	6.9
Gallia Wells Abandon CF FY19	Q-II X-701B Holding Pond Monitoring Area	LLW	187.5	6.9
Gallia Wells Abandon CF FY20	Q-II X-701B Holding Pond Monitoring Area	LLW	187.5	6.9
Gallia Wells Abandon CF FY16	Q-II X-633 Pumphouse Cooling Towers Area	LLW	93.75	3.5
Gallia Wells Abandon CF FY17	Q-II X-633 Pumphouse Cooling Towers Area	LLW	93.75	3.5
Gallia Wells Abandon CF FY18	Q-II X-633 Pumphouse Cooling Towers Area	LLW	93.75	3.5
Gallia Wells Abandon CF FY19	Q-II X-633 Pumphouse Cooling Towers Area	LLW	93.75	3.5
Gallia Wells Abandon CF FY20	Q-II X-633 Pumphouse Cooling Towers Area	LLW	93.75	3.5
Berea Wells CF FY14	Q-III X-740 Waste Oil Handling Facility Monitoring Area	LLW	125	4.6
Gallia Wells CF FY14	Q-III X-740 Waste Oil Handling Facility Monitoring Area	LLW	56.25	2.1
Gallia Wells Abandon CF FY16	Q-III X-740 Waste Oil Handling Facility Monitoring Area	LLW	112.5	4.2
Gallia Wells Abandon CF FY17	Q-III X-740 Waste Oil Handling Facility Monitoring Area	LLW	112.5	4.2

Ohio Consent Decree Soil Volumes (Continued)

Commodity	Building	Characterization	In-place Volume (cf)	In-place Volume (cy)
Gallia Wells Abandon CF FY18	Q-III X-740 Waste Oil Handling Facility Monitoring Area	LLW	112.5	4.2
Gallia Wells Abandon CF FY19	Q-III X-740 Waste Oil Handling Facility Monitoring Area	LLW	112.5	4.2
Gallia Wells Abandon CF FY20	Q-III X-740 Waste Oil Handling Facility Monitoring Area	LLW	112.5	4.2
Soil	X-326_Fuel_Tank_1	Industrial	120	4.4
Soil	X-326_Fuel_Tank_2	Industrial	123	4.6
Soil	X-300A_Fuel_Tank	Industrial	90	3.3
Soil	X-720_Fuel_Tank	Industrial	111	4.1
Soil	X-750_Fuel_Tank	Industrial	336	12.4
Soil	X-2230M	MLLW	15,033.33	556.8
Soil	X-600	MLLW	53,184.17	1,969.8
Soil	X-230K	MLLW	176,907.5	6,552.1
Soil	X-600	MLLW	9,281.67	343.8
Soil	X-626-1,2	MLLW	38,248.33	1,416.6
Soil	Big Run Creek	MLLW	44,480.83	1,647.4
Soil	East Drainage Ditch	MLLW	72,058.33	2,668.8
Soil	Little Beaver Creek	MLLW	397,673.33	14,728.6
Soil	West Drainage Ditch	MLLW	93,716.67	3,471.0
Soil	North Drainage Ditch	MLLW	98,555	3,650.2
Soil	X-700	MLLW	116,180.83	4,303.0
Soil	X-701C	MLLW	66,130.83	2,449.3
Soil	X-705	MLLW	466,710	17,285.6
Soil	X-705A,B	MLLW	31,834.17	1,179.0
Soil	X-720	MLLW	568,687.5	21,062.5
Soil	X-720-NP	MLLW	43,523.33	1,612.0
Soil	X-230J7	MLLW	69,972.5	2,591.6
Soil	X-633-1,2A,2B,2C,2D	MLLW	247,295.83	9,159.1
Soil	X-230J5	MLLW	21,547.5	798.1
Soil	X-2230N	MLLW	11,399.17	422.2
Soil	X-744N,P,Q OCH	MLLW	1,166,111.67	43,189.3
Soil	X-230J3	MLLW	38,930	1,441.9
Soil	X-530A,B,C,D,E,F,G	MLLW	739,811.67	27,400.4
Soil	X-230J6	MLLW	11,662.5	431.9
Soil	X-230L	MLLW	826,425	30,608.3
Soil	X-747H	MLLW	245,801.67	9,103.8
Soil	Z-SWMU-QUAD-IV	MLLW	6,820.83	252.6
Soil	X-533	MLLW	38,108.33	1,411.4
Soil	X-533A,B,C,D,E,F,H	MLLW	684,281.67	25,343.8
Soil	X-342A	MLLW	10,879.17	402.9
Soil	X-342B	MLLW	1,640.83	60.8

Ohio Consent Decree Soil Volumes (Continued)

Commodity	Building	Characterization	In-place Volume (cf)	In-place Volume (cy)
Soil	X-342C	MLLW	2,682.5	99.4
Soil	X-630-1,2A,2B	MLLW	133,957.5	4,961.4
Soil	X-630-3	MLLW	1,530	56.7
Soil	X-745B	MLLW	68,710.83	2,544.8
Soil (Secondary Waste from Pre-design Soil Sampling)	QI RA A	MLLW	106.67	4.0
Soil (Secondary Waste from Pre-design Soil Sampling)	QI RA B	MLLW	205	7.6
Soil (Secondary Waste from Pre-design Soil Sampling)	QI RA C	MLLW	205	7.6
Soil (Secondary Waste from Pre-design Soil Sampling)	QI RA D	MLLW	140	5.2
Soil (Secondary Waste from Pre-design Soil Sampling)	QI RA E	MLLW	676.67	25.1
Soil (Secondary Waste from Pre-design Soil Sampling)	QII RA A	MLLW	2,243.33	83.1
Soil (Secondary Waste from Pre-design Soil Sampling)	QII RA B	MLLW	468.33	17.3
Soil (Secondary Waste from Pre-design Soil Sampling)	QII RA C	MLLW	323.33	12.0
Soil (Secondary Waste from Pre-design Soil Sampling)	QIII RA A	MLLW	218.33	8.1
Soil (Secondary Waste from Pre-design Soil Sampling)	QIII RA B	MLLW	1,373.33	50.9
Soil (Secondary Waste from Pre-design Soil Sampling)	QIII RA C	MLLW	561.67	20.8
Soil (Secondary Waste from Pre-design Soil Sampling)	QIII RA D	MLLW	205	7.6
Soil (Secondary Waste from Pre-design Soil Sampling)	QIII RA E	MLLW	205	7.6
Soil (Secondary Waste from Pre-design Soil Sampling)	QIV RA A	MLLW	190	7.0
Soil (Secondary Waste from Pre-design Soil Sampling)	QIV RA B	MLLW	803.33	29.8
Soil (Secondary Waste from Pre-design Soil Sampling)	QIV RA C	MLLW	35	1.3
Soil (Secondary Waste from Pre-design Soil Sampling)	QIV RA D	MLLW	751.67	27.8
Soil (Secondary Waste from Pre-design Soil Sampling)	QIV RA E	MLLW	431.67	16.0
Soil (Secondary Waste from Pre-design Soil Sampling)	QIV RA F	MLLW	343.33	12.7
Soil (Secondary Waste from Pre-design Soil Sampling)	QIV RA G	MLLW	205	7.6
		Total Cubic Yardage		**709,708**

APPENDIX F: ARARS

CONTENTS

TABLES

ACRONYMS

ARAR	applicable or relevant and appropriate requirement
CAA	Clean Air Act of 1970
CAMU	Corrective Action Management Unit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR	*Code of Federal Regulations*
D&D	decontamination and decommissioning
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
LMES	Lockheed Martin Energy Systems, Inc.
LPP	LATA/Parallax Portsmouth, LLC
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NHPA	National Historic Preservation Act of 1966
OAC	*Ohio Administrative Code*
Ohio EPA	Ohio Environmental Protection Agency
OHPO	Ohio Historic Preservation Office
OSDC	on-Site disposal cell
PORTS	Portsmouth Gaseous Diffusion Plant
RCRA	Resource Conservation and Recovery Act of 1976, as amended
RI/FS	Remedial Investigation/Feasibility Study
TBC	to-be-considered (guidance)
TSCA	Toxic Substances Control Act of 1976

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F.1. INTRODUCTION

In accordance with the requirements of *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O) and pursuant to Ohio's laws and regulations, and utilizing 40 *Code of Federal Regulations* (*CFR*) 300.430(f)(1)(ii)(B) of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as a framework, entirely on-site remedial actions are required to attain applicable or relevant and appropriate requirements (ARARs), unless waived in accordance with the DFF&O and consistent with 40 *CFR* 300.430(f)(1)(ii)(C). The ARARs include only federal and state environmental or facility siting laws/regulations; they do not include occupational safety or worker radiation protection requirements.

Paragraph 9.a of the DFF&O provides that portions of response actions conducted entirely on Site pursuant to work plans or plans concurred with or approved by Ohio Environmental Protection Agency (Ohio EPA) under the Order can be conducted pursuant to Section 121(e)(1) of CERCLA, 42 *United States Code* Section 9621. Section 121(e)(1) specifically provides that no federal, state, or local permit shall be required for the portion of any removal or remedial action conducted entirely as an on-site response action. In addition to "permits," the U.S. Environmental Protection Agency (EPA) has interpreted this section broadly to cover: "all administrative provisions from other laws, such as recordkeeping, consultation, and reporting requirements. In other words, administrative requirements do not apply to on-site response actions." (EPA 1998). Those portions of the remedial action that are taken off Site are subject to both the substantive and administrative requirements of applicable laws.

ARARs are typically divided into three groups: (1) chemical-specific, (2) location-specific, and (3) action-specific. Tables F.1 and F.2 group the ARARs/to-be-considered (guidance) (TBCs) for the on-Site and off-Site disposal alternatives, respectively. Both location- and action-specific ARARs/TBCs are included in Table F.1 (on-Site disposal). Only action-specific ARARs/TBCs are included in Table F.2 (off-Site disposal) because the scope of the action includes only the coordination of the preparation (treatment, as necessary, and packaging) and transport (shipping) of wastes to appropriate off-Site disposal facilities. No chemical-specific ARARs were identified for either alternative. In some cases, the conditions associated with the prerequisite requirements have not been confirmed to be present; if the subject condition is encountered during implementation of the action, then the specified ARAR would be triggered. A brief description of key ARAR/TBC topics follows.

Development of ARARs is an iterative process. This list of ARARs and TBCs will be further evaluated and refined (with further revisions, additions, and deletions potentially occurring) as more information becomes known about proposed remedies and a detailed design is developed for a preferred remedy concurrent with the Proposed Plan stage. The final list of enforceable ARARs and TBCs will be set when the Record of Decision is finalized.

F.2. CHEMICAL-SPECIFIC ARARS/TBCS

Chemical-specific ARARs provide health- or risk-based concentration limits or discharge limitations in various environmental media (i.e., surface water, groundwater, soil, and air) for specific hazardous substances, pollutants, or contaminants. Because this Site-wide Waste Disposition Evaluation Remedial Investigation/Feasibility Study (RI/FS) is not addressing cleanup decisions for contaminated environmental media, chemical-specific ARARs and TBCs are not identified at this stage.

F.3. LOCATION-SPECIFIC ARARS/TBCS

Location-specific requirements establish restrictions on permissible concentrations of hazardous substances or establish requirements for how activities will be conducted because they are in special locations (e.g., wetlands, floodplains, critical habitats, streams). Sensitive resources identified at candidate on-Site disposal cell (OSDC) locations under the on-Site disposal alternative will be protected in accordance with the location-specific ARARs and TBCs listed in Table F.1, as appropriate.

F.3.1 FLOODPLAINS AND WETLANDS

Wetlands, floodplains, and aquatic resources are present on the Portsmouth Gaseous Diffusion Plant (PORTS) Facility. None of the candidate OSDC locations are located within a 100- or 500-year floodplain, and none of the planned activities are expected to impact floodplain areas. Several jurisdictional wetlands have been identified at candidate Site D; the acreages for these wetlands are given in Table D.5 in Appendix D. Site C includes three very small ponds with acreages of 0.093, 0.066, and 0.037 (total area of 0.196 acres). These resources will be appropriately protected in accordance with the location-specific ARARs and TBCs identified in Table F.1. Activities will be designed to avoid or minimize impacts to wetlands. In the event wetlands would be impacted, mitigation activities would be incorporated into design where such impacts occur.

F.3.2 THREATENED AND ENDANGERED SPECIES

A PORTS-wide threatened and endangered species survey, which was completed in 1996, identified a number of potentially suitable habitats at PORTS for federal- and State of Ohio-listed threatened and endangered species, although only one state-listed plant species was actually observed (Lockheed Martin Energy Systems, Inc. [LMES] 1997). None of the identified habitats or species are located within the proposed candidate OSDC locations, and proposed activities are not expected to impact such species or habitats. Therefore, ARARs for protection of these resources are not included in Table F.1.

F.3.3 CULTURAL RESOURCES

Cultural resources include any prehistoric or historic district, site, building, structure, or object resulting from, or modified by, human activity. Under federal regulations (36 *CFR* 800), federal agencies must assess the impacts their actions have on historic properties and, if appropriate, avoid, minimize, or mitigate adverse effects. Historic properties are cultural resources listed in, or eligible for listing in, the NRHP because of their significance and integrity.

The National Historic Preservation Act of 1966 (NHPA), Section 106 requires that a proposed activity be assessed for impacts to buildings/historic structures that are considered historic properties (see Table F.1). The U.S. Department of Energy (DOE) plans and, in certain instances, is already implementing a variety of activities to execute the NHPA ARARs. Because both above- and below-ground activities will occur under the RI/FS and its follow-up implementation of measures to address risks and hazards, DOE will be implementing a planned approach to take into account the potential effect the actions may have on cultural resources. DOE's approach and proposed mitigation measures are described in detail in Section 7.2.2.3.

F.4. ACTION-SPECIFIC ARARS/TBCS

Action-specific ARARs include operation, performance, and design requirements or limitations based on the waste types, media, and removal/remedial activities.

F.4.1 NO ACTION ALTERNATIVE

Pursuant to EPA guidance, there are no ARARs for a No Action alternative (EPA 1991).

F.4.2 ON-SITE DISPOSAL ALTERNATIVE

The action-specific ARARs and TBCs identified in Table F.1 address design, construction, operation, capping, and post-operations care for the preliminary on-Site disposal alternative. These include landfill design and operation requirements under the Toxic Substances Control Act of 1976 (TSCA) and Subtitle C of the Resource Conservation and Recovery Act of 1976, as amended (RCRA), DOE Order 435.1-1 requirements for low-level (radioactive) waste disposal facilities, state requirements under *Ohio Administrative Code (OAC)* 3745-27 for solid waste landfills, and Clean Air Act of 1970 (CAA) requirements for asbestos-containing materials disposal facilities.

The action-specific ARARs and TBCs also include landfill siting requirements for siting waste disposal facilities. The siting requirements and considerations, detailed in Table F.1, can be grouped generally as floodplains, wetlands, seismic considerations, hydrologic considerations, suitable terrain, land use, buffers, and ecological and cultural considerations. Table F.1 also includes location-specific ARARs and TBCs that include siting considerations to protect sensitive resources (e.g., wetlands, floodplains, critical habitats, streams). The Ohio siting criterion under *OAC* 3745-27-07(H)(4)(d) that requires a setback of 200 ft for solid waste placement of solid waste from a stream, lake, or wetland would need to be waived, in accordance with the DFF&O and consistent with 40 *CFR* 300.430(f)(1)(ii)(C), for this alternative. The need for this "greater risk to human health and environment" ARAR waiver is discussed in detail in Section 9.2.2.1.2 of the main text of this document.

In 1993, EPA promulgated rules establishing special units under RCRA, called Corrective Action Management Units (CAMUs), to facilitate treatment, storage, and disposal of hazardous wastes managed for implementing cleanup. CAMUs were also established to remove the disincentives to cleanup that the application of stringent RCRA land disposal restrictions and treatment standards to these wastes (called "remediation wastes") can sometimes impose. The amendments established minimum design and operating standards for CAMUs and minimum treatment standards for wastes placed in CAMUs ("CAMU-eligible wastes"). The rule also amended the regulations for staging piles to expressly allow for mixing, blending, and similar physical operations intended to prepare waste for subsequent management and treatment, and added a provision allowing off-site placement of CAMU-eligible waste in hazardous waste landfills. ARARs for both CAMU and land disposal regulations are included in the Table F.1 while design and waste acceptance criteria for a potential OSDC are being developed and reviewed for protectiveness. Both sets of regulations are being carried forward until protectiveness of a potential OSDC is demonstrated and agreement is reached about what wastes may be CAMU-eligible. Land disposal related ARARs will apply to non CAMU-eligible hazardous wastes. The appropriate set of regulations will be evaluated during remedial design based on the outcome of these decisions.

All primary wastes (e.g., wastes sent to the facility for disposal) and secondary wastes (e.g., contaminated personal protective equipment, decontamination wastes) generated during facility construction and operational activities must be characterized and managed appropriately in accordance with State of Ohio laws and regulations, including but not limited to those for hazardous, solid, and radioactive waste, as well as federal TSCA, DOE Order, and CAA requirements (and the other requirements as specified in the table). Long-term storage of waste would not be anticipated, although provisions for temporary storage are included. Hazardous waste determinations will be based on available process knowledge and sampling/analysis results.

Wastewater, including leachate and contaminated storm water, would be treated on Site for radioactive and nonradioactive constituents, including volatile organic compounds. This treatment would be done at a newly constructed on-Site wastewater treatment unit. Treated effluent would be discharged to surface water via a newly established outfall(s) and in compliance with appropriate outfall limits established in consultation with Ohio EPA to ensure surface water quality standards are not exceeded. Water treatment ARARs are included in Table F.1 to address this potential new unit and outfall(s). It is assumed that the wastewater treatment system would emit less than 10 lb/day of air contaminants in compliance with the de minimis emission limits of *OAC* 3745-15-05(B). This would be evaluated further as the remedial design progresses.

It is anticipated that a potential OSDC would have some capability to treat waste to meet physical or analytical waste acceptance criteria, as deemed necessary. A potential OSDC would be responsible for any necessary treatment and/or off-Site transport of its own facility-generated wastes that cannot meet the waste acceptance criteria for on-Site disposal.

The requirements for a TSCA chemical waste landfill in 40 *CFR* 761.75 would be potential ARARs for disposal of such wastes in an on-Site disposal facility. The TSCA chemical waste landfill design requirements generally follow the RCRA landfill design requirements. TSCA, however, specifies that if a synthetic liner is used, it must have a minimum thickness of 30 mil. In addition, TSCA specifies that the bottom of the liner must be located 50 ft above the historical high groundwater mark and must prohibit any hydrologic connection between the disposal location and any surface water (40 *CFR* 761.75[b][3]). In accordance with the DFF&O, however, the RI/FS will evaluate at least one alternative or subalternative that is fully ARARs-compliant with no ARARs waived.

F.4.3 OFF-SITE DISPOSAL ALTERNATIVE

The off-Site disposal alternative consists of treating (as necessary), packaging, shipping, and disposing all anticipated D&D generated waste to appropriately licensed and permitted off-Site disposal facilities. Coordination of the preparation and transport of wastes to appropriate off-Site disposal facilities would be the responsibility of the Site-wide Waste Disposition Evaluation Project.

As noted in the DFF&O, Paragraph 9.a, the NCP at 40 *CFR* 300.400(e)(1) defines “on-site” as meaning “the areal extent of contamination and all suitable areas in very close proximity to the contamination necessary for the implementation of the response action.” Off-Site disposal, by definition, is not an on-Site response action and is subject to all substantive, procedural, and administrative requirements of all legally applicable laws, but not to any requirements that might normally be labeled relevant and appropriate under the ARARs process.

Any wastes transferred off Site or transported in commerce along public rights-of-way must meet the requirements summarized on Table F.2, depending on the type of waste (e.g., hazardous, low-level, mixed, or solid waste). These requirements include packaging, labeling, marking, manifesting, and placarding for hazardous materials in accordance with 49 *CFR* 170-180 *et seq.* Transport of D&D wastes along roads within the PORTS Facility must meet the requirements in the *Transportation Safety Document for the On-site Transfer of Hazardous Material at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (LATA/Parallax Portsmouth, LLC [LPP] 2008).

In addition, in 40 *CFR* 300.440, EPA requires that the off-site transfer of any hazardous substance, pollutant, or contaminant generated during response actions be to a treatment, storage, or disposal facility that complies with applicable federal and state laws. This facility must also have prior EPA approval for acceptance of waste (see also the “Off-Site Rule” at 40 *CFR* 300.440 *et seq.*). Accordingly, before transport, DOE will verify with the appropriate EPA regional contact that any needed off-Site facility is acceptable for receipt of these D&D wastes.

F.5. REFERENCES

EPA 1998, *RCRA, Superfund & EPCRA Hotline Training Module: Introduction to Applicable or Relevant and Appropriate Requirements*, EPA/540-R-98-020 (Updated February 1998), OSWER Directive 9205.5-10A, U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., June.

EPA 1991, *ARARs Q's and A's: General Policy, RCRA, CWA, SDWA, Post-ROD Information, and Contingent Waivers*, OSWER Directive 9234.2-01FS-A, U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C., June.

LMES 1997, *Final Threatened and Endangered Species Report,* DOE/OR/11-1668&D0 and POEF-LMES-166, Lockheed Martin Energy Systems, Inc., Piketon, OH.

LPP 2008, *Transportation Safety Document for the On-site Transfer of Hazardous Material at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio*, LPP-0021/R3, LATA/Parallax Portsmouth, LLC.

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
	Location-specific ARARs		
	Wetlands		
Presence of wetlands as defined in 10 *CFR* 1022.4	Avoid, to the extent possible, the long- and short-term adverse effects associated with destruction, occupancy, and modification of wetlands.	DOE actions that involve potential impacts to, or take place within, wetlands—**applicable**	10 *CFR* 1022.3(c)
	Take action, to extent practicable, to minimize destruction, loss, or degradation of wetlands and to preserve and enhance the natural and beneficial values of wetlands.		10 *CFR* 1022.3(a)(7) and (8)
	Undertake a careful evaluation of potential effects of any new construction in wetlands. Identify, evaluate, and, as appropriate, implement alternative actions that may avoid or mitigate adverse impacts on wetlands.		10 *CFR* 1022.3(b) and (d)
	Measures to take to mitigate the adverse effects of actions in wetlands include, but are not limited to, minimum grading requirements, runoff controls, design and construction constraints, and protection of ecology-sensitive areas.		10 *CFR* 1022.13(a)(3)
	If no practicable alternative to locating or conducting the action in the wetland is available, then before taking action, design or modify the action in order to minimize potential harm to or within the wetland, consistent with the policies set forth in Executive Order 11990.		10 *CFR* 1022.14(a)

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[a] Definitions of terms used in the Ohio solid waste regulations are given in *OAC* 3745-27-01. All *OAC* Chapter 3745-27 rules that refer to the term "aquifer" or "aquifer system" are utilizing those terms as they are defined in *OAC* Rule 3745-27-01(A)(7) and (8). Likewise, the *OAC* Chapter 3745-50 rules that refer to the term "aquifer" are utilizing the term as it is defined in *OAC* Rule 3745-50-10(A)(7)

[b] The requirements portion of the ARARs table is intended to provide a summary of the cited ARAR. The omission of any particular requirement does not limit the scope of the cited ARARs.

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Presence of jurisdictional wetlands	Except as provided under the CWA Section 404(b)(2), no discharge of dredged or fill material into an aquatic ecosystem is permitted if there is a practicable alternative that would have less adverse impact on the aquatic ecosystem or if it will cause or contribute to significant degradation of the waters of the U.S.	Actions that involve the discharge of dredged or fill material into waters of the U.S., including jurisdictional (adjacent) wetlands—**applicable**	40 *CFR* 230.10(a) and (c)
	Except as provided under the CWA Section 404(b)(2), no discharge of dredged or fill material shall be permitted unless appropriate and practicable steps in accordance with 40 *CFR* 230.70 *et seq*. are taken that will minimize potential adverse impacts of the discharge on the aquatic ecosystem.		40 *CFR* 230.10(d)
Water pollution and sludge management violations prohibited.	No entity shall cause pollution or place or cause to be placed any sewage, sludge, sludge materials, industrial waste, or other wastes in a location where they cause pollution of any waters of the state.		*ORC* 6111.04(A)
Presence of wetlands as defined under *OAC* 3745-1-02(B)(90)	Wetlands designated uses, as assigned in accordance with *OAC* 3745-1-54(B)(2), shall be maintained and protected such that degradation of surface waters through direct, indirect, or cumulative impacts does not result in the net loss of wetland acreage or functions in accordance with the substantive wetland avoidance, minimization, and compensatory mitigation requirements of the paragraphs (D) and (E) of *OAC* 3745-1-54.	Activity that would cause loss of wetlands as defined under *OAC* 3745-1-02(B)(90)—**applicable**	*OAC* 3745-1-54(B)(1) *OAC* 3745-1-51 through -54
	Wetland narrative criteria in *OAC* 3745-1-51(A) shall be protected to prevent significant adverse impacts on the hydrology necessary to support the biological and physical characteristics naturally present in wetlands		
	Wetland narrative criteria in *OAC* 3745-1-51(B) shall be protected to prevent significant adverse impacts on water quality necessary to support existing habitat and populations of wetland flora and fauna and to prevent conditions conducive to the establishment or proliferation of nuisance organisms		

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Presence of "isolated" wetlands as defined under *ORC* 6111.02	No person shall engage in the filling of an isolated wetland unless authorized to do so pursuant to the substantive requirements of a general or individual state isolated wetland permit.	Actions that involve the discharge of dredged or fill material into "isolated wetlands"—**applicable**	*ORC* 6111.021 – 6111.028
	Must comply with the following substantive requirements and conditions of this permit: • Only suitable material free of toxic contaminants in other than trace quantities shall be used as fill material. • Use of asphalt and rubber tires as fill is prohibited. • Wetland narrative and chemical criteria in *OAC* 3745-1-51 and 3745-1-52 shall be maintained in isolated wetlands wholly or partially avoided. • Visible signage, as detailed in the general permit, shall be placed around the delineated boundary of the avoided wetlands.	Category 1 or 2 "isolated wetlands" of a total of ½ acre or less—**applicable**	Ohio General Permit for Filling Category 1 and Category 2 Isolated Wetlands (effective April 10, 2012)
	Mitigation is required either on or off site, or at a mitigation bank within the same U.S. Army COE district as the project location. Mitigation must be conducted in accordance with the ratios established in the general permit depending on the wetland category designation. The mitigation site shall be protected in perpetuity, and appropriate practicable management measures including vegetative buffers shall be implemented to restrict harmful activities that jeopardize the mitigation.	Actions that involve the discharge of dredged or fill material into Category 1 or 2 "isolated wetlands" of a total of ½ acre or less—**applicable**	Ohio General Permit for Filling Category 1 and Category 2 Isolated Wetlands (effective April 10, 2012)
	Aquatic resources		
Location encompassing aquatic ecosystem as defined in 40 *CFR* 230.3(c)	Except as provided under Section 404(b)(2), no discharge of dredged or fill material into an aquatic ecosystem is permitted if there is a practicable alternative that would have less adverse impact on the aquatic ecosystem or if it will cause or contribute to significant degradation of the waters of the U.S.	Action that involves discharge of dredged or fill material into waters of the U.S.—**applicable**	40 *CFR* 230.10(a) and (c) *OAC* 3745-32-05

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Location encompassing aquatic ecosystem as defined in 40 *CFR* 230.3(c) (continued)	Except as provided under Section 404(b)(2), no discharge of dredged or fill material shall be permitted unless appropriate and practicable steps in accordance with the substantive provisions of 40 *CFR* 230.70 *et seq*. are taken that will minimize potential adverse impacts of the discharge on the aquatic ecosystem.		40 *CFR* 230.10(d) *OAC* 3745-32-05
	Consideration of mitigation will occur throughout the activity and includes avoiding, minimizing, rectifying, reducing, or compensating for resource losses. Losses will be avoided to the extent practicable. Compensation may occur on-site or at an off-site location. Mitigation requirements generally fall into three categories:	Action that involves discharge of dredged or fill material into waters of the U.S.—**applicable**	33 *CFR* 320.4(r)(1)
	• Minor project modifications considered feasible (cost, constructability, etc.) and that, if adopted, result in a project that generally meets the purpose and need.		33 *CFR* 320.4(r)(1)(i)
	• Further mitigation measures required to satisfy legal requirements. For CWA 404 applications, mitigation shall be required to ensure project complies with CWA 404(b)(1) Guidelines.		33 *CFR* 320.4(r)(1)(ii)
	• Mitigation measures that may be required as a result of the public interest review process. Such should be developed and incorporated within the public interest review process to the extent that it is found to be reasonable and justified.		33 *CFR* 320.4(r)(1)(iii)
	All compensatory mitigation will be for significant resource losses which are specifically identifiable, reasonably likely to occur, and of importance to the human or aquatic environment. All mitigation will be directly related to the impacts of the proposal, appropriate to the scope and degree of those impacts, and reasonably enforceable.		33 *CFR* 320.4(r)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Location encompassing stream ecosystem – stream antidegradation review requirements	Activities may be approved that lower water quality only if there has been an examination of non-degradation, minimal degradation and mitigative technique alternatives, a review of the social and economic issues related to the activity, a public participation process and appropriate intergovernmental coordination, and it is determined that the lower water quality is necessary to accommodate important social or economic development in the area in which the water body is located. The director may require the applicant to implement a non-degradation alternative, a minimal degradation alternative or a mitigative technique alternative to offset all or part of the proposed lowering of water quality if the director determines that the alternative is technically feasible and economically justifiable. Any lowering of water quality shall not exceed the limitations specified in *OAC* 3745-1-05(C)(6). When making determinations regarding proposed activities that lower water quality the director shall consider the factors listed in *OAC* 3745-1-05(C)(5)(a) through (m).	Action that involves aquatic habitat alterations caused by an activity and associated construction disturbances that would result in the loss of an existing or designated stream use—**applicable**	*OAC* 3745-1-05(C)(5)
Criteria for decision by director	The directors shall evaluate the criteria in *OAC* 3745-32-05 and shall not issue a section 401 water quality certification unless he determines that the applicant has demonstrated that the discharge of dredged or fill material to waters of the state or the creation of any obstruction or alteration in waters of the state will not prevent or interfere with the attainment or maintenance of applicable water quality standards or not result in a violation of any applicable provision of sections of the Federal Water Pollution Control Act listed in *OAC* 3745-32-05(2).	Action that involves aquatic habitat alterations caused by an activity and associated construction disturbances that would result in the loss of an existing or designated stream use—**applicable**	*OAC* 3745-32-05
Criteria applicable to all waters	Water quality criteria in *OAC* 3745-1-04 shall be applied to all surface waters of the state including mixing zones to every extent practical and possible as determined by the director.	Actions that that may result in the lowering of water quality	*OAC* 3745-1-04

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Cultural resources			
Presence of archaeological resources	Must provide for the preservation of significant historical and archeological data which might otherwise be irreparably lost or destroyed as a result of any alteration of terrain caused as a result of any federal construction project.	Federal construction projects that would cause the irreparable loss or destruction of significant historical or archeological resources or data—**applicable**	16 *USC* 469
Presence of human remains, funerary objects, sacred objects, or objects of cultural patrimony for Native Americans	Must stop activities in the area of the discovery and take reasonable effort to secure and protect the objects discovered before resuming activity.	Federal agency construction activities that inadvertently discover Native American cultural items on federal lands—**applicable**	25 *USC* 3002(d) 43 *CFR* 10.4(c) and (d)(2)
Presence of historic resources	Federal agencies must take into account the effect of the undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register.	Federal agency undertaking that may impact historic properties listed or eligible for inclusion on the National Register of Historic Places—**applicable**	16 *USC* 470f 36 *CFR* 800.1(a)
	Federal agencies must initiate measures to assure that where, as a result of Federal action, a historic property is to be substantially altered or demolished, timely steps are taken to make or have made appropriate records.	Substantial alterations or demolition of a historic property—**applicable**	16 *USC* 470h-2(b)
Action-specific ARARs			
HAZARDOUS WASTE			
Design, construction, operation and closure of a hazardous waste landfill			
Siting of RCRA hazardous waste landfill	Portions of new facilities where treatment, storage, or disposal of hazardous waste will be conducted shall not be located within 61 m (approximately 200 ft) of a fault that had displacement in Holocene time.	Construction of a RCRA hazardous waste landfill—**applicable**	40 *CFR* 264.18 *OAC* 3745-54-18(A)(1)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Siting Criteria Document Requirements	A hazardous waste facility installation and operation permit cannot be approved unless it is proven that the facility:	Construction of a RCRA hazardous waste landfill—**applicable**	*OAC* 3745-50-38(A)
	• Complies with the hazardous waste standards		*OAC* 3745-50-38(A)(2)
	• Represents the minimum adverse environmental impact, considering the state of available technology and the nature and economics of various alternatives		*OAC* 3745-50-38(A)(3)
	• Represents the minimum risk of all of the following: (i) fires or explosions from TSD methods; (ii) release of hazardous waste during transportation to or from facility; (iii) adverse impact on the public health and safety		*OAC* 3745-50-38(A)(4)(a) – (c)
	• Must not be located within the boundaries of a state park or state park purchase area or national park or recreation area or national park candidate area.		*OAC* 3745-50-38(A)(7)
Design of a RCRA hazardous waste facility	Facilities must be designed, constructed, maintained, and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.	Construction of a RCRA hazardous waste facility—**applicable**	40 *CFR* 264.31 *OAC* 3745-54-31
	The operation of a hazardous waste facility shall not cause, permit or allow the emission of any particulate matter, dust, fumes, gas, mist, smoke, or vapor or odorous substance that unreasonably interferes with the comfortable enjoyment of life and property by persons living or working in the vicinity of the facility or that is injurious to public health.	Site where hazardous waste will be managed such that air emissions may occur—**applicable**	*ORC* 3734.02(I)
Liner and leachate collection design for a RCRA landfill	Must install two or more liners and a leachate collection and removal system above and between such liners.	Construction of a RCRA hazardous waste landfill—**applicable**	40 *CFR* 264.301(c) *OAC* 3745-57-03(C)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Liner and leachate collection design for a RCRA landfill (continued)	The liner system must include a:		40 *CFR* 264.301(c)(1)(i) *OAC* 3745-57-03(C)(1)(a)
Liner	Top liner, designed and constructed of materials (e.g., geomembrane) to prevent the migration of hazardous constituents into the liner during active life and the post-closure period; and a		40 *CFR* 264.301(c)(1)(i)(A) *OAC* 3745-57-03(C)(1)(a)(i)
	Composite bottom liner consisting of at least two components: • Upper component must be designed and constructed of materials to prevent migration of hazardous constituents into component during active life and post-closure period. • Lower component constructed of at least 3 ft of compacted soil material with a hydraulic conductivity of no more than 1 × 10^{-7} cm/s.		40 *CFR* 264.301(c)(1)(i)(B) *OAC* 3745-57-03(C)(1)(a)(ii)
	Liners must comply with Paragraphs (a)(1)(i), (ii), and (iii) of this section, which states that the liner must be:		40 *CFR* 264.301(c)(1)(ii) *OAC* 3745-57-03(C)(1)(b)
	• Constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients, physical contact with the waste or leachate to which they are exposed, climatic conditions, or stress from installation or daily operation		40 *CFR* 264.301(a)(1)(i) *OAC* 3745-57-03(A)(1)(a)
	• Placed on a foundation or base capable of supporting the liner and resistance to the pressure gradients above and below the liner to prevent failure of the liner due to settlement, compression or uplift		40 *CFR* 264.301(a)(1)(ii) *OAC* 3745-57-03(A)(1)(b)
	• Installed to cover all areas likely to be in contact with the waste or leachate.		40 *CFR* 264.301(a)(1)(iii) *OAC* 3745-57-03(A)(1)(c)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Liner and leachate collection design for a RCRA landfill (continued)	Must be designed, constructed, operated, and maintained to collect and remove leachate from the landfill during the active life and post-closure period and ensure that the leachate depth over the liner does not exceed 30 cm, and comply with Paragraphs (c)(3)(iii) and (iv) of this section.	Construction of a RCRA hazardous waste landfill—**applicable**	40 *CFR* 264.301(c)(2) *OAC* 3745-57-03(C)(2)
Top leachate collection and removal system	Leachate collection and removal system must be constructed of materials that are:		40 *CFR* 264.301(c)(3)(iii) *OAC* 3745-57-03(C)(3)(c)
	• Chemically resistant to waste managed in landfill and leachate generated.		
	• Of sufficient strength and thickness to prevent collapse under pressures exerted by overlying wastes, waste cover materials, and any equipment used.		
	Must be designed and operated to minimize clogging during the active life of the facility and post-closure care period of the landfill.		40 *CFR* 264.301(c)(3)(iv) *OAC* 3745-57-03(C)(3)(d)
Bottom leachate collection and removal system/leak detection system	Leachate collection and removal system must be capable of detecting, collecting, and removing leaks of hazardous constituents at the earliest practicable time through all areas of the top liner likely to be exposed to waste or leachate during the active life and post-closure care period. Requirements for a leak detection system are satisfied by installation of a system that is:	Construction of a RCRA hazardous waste landfill—**applicable**	40 *CFR* 264.301(c)(3) *OAC* 3745-57-03(C)(3)
	• Constructed with a bottom slope of 1% or more		40 *CFR* 264.301(c)(3)(i) *OAC* 3745-57-03(C)(3)(a)
	• Constructed of granular drainage materials with a hydraulic conductivity of 1×10^{-2} cm/s and a thickness of 12 in. or more or synthetic or geonet drainage materials with a transmissivity of 3×10^{-5} m^2/s		40 *CFR* 264.301(c)(3)(ii) *OAC* 3745-57-03(C)(3)(b)
	• Constructed of materials that are chemically resistant to waste managed and expected leachate to be generated, and structurally sufficient to resist pressures exerted by waste, cover, and equipment used at the landfill		40 *CFR* 264.301(c)(3)(iii) *OAC* 3745-57-03(C)(3)(c)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Liner and leachate collection design for a RCRA landfill (continued)	• Designed and operated to minimize clogging during the active life of the facility and post-closure care period		40 *CFR* 264.301(c)(3)(iv) *OAC* 3745-57-03(C)(3)(d)
Bottom leachate collection and removal system/leak detection system (continued)	• Constructed with sumps and liquid removal methods (e.g., pumps) of sufficient size to collect and remove liquids from the sump and prevent liquids from backing up. Each unit must have its own sump(s). The design of each sump and removal system must provide a method for measuring and recording the volume of liquids present in the sump and of liquids removed.		40 *CFR* 264.301(c)(3)(v) *OAC* 3745-57-03(C)(3)(e)
	Must collect and remove liquids in the leak detection system sumps to minimize the head on the bottom liner.		40 *CFR* 264.301(c)(4) *OAC* 3745-57-03(C)(4)
	If the leak detection system is not located completely above the seasonal high water table, a demonstration must be made that the operation of the system will not be adversely affected by groundwater.		40 *CFR* 264.301(c)(5) *OAC* 3745-57-03(C)(5)
Action leakage rate testing for the RCRA leachate detection system	The action leakage rate (maximum design flow rate that the leak detection system can remove without the fluid head on the bottom liner exceeding 1 ft) must include an adequate safety margin to allow for uncertainties in the design, construction, operation, and location of the leak detection system, waste and leachate characteristics, likelihood and amounts of other sources of liquids in the leak detection system, and proposed response actions (e.g., the action leakage rate must consider decreases in the flow capacity of the system over time resulting from siltation and clogging, rib layover, and creep of synthetic components of the system, overburden pressures, etc.).	Construction and operation of a RCRA hazardous waste landfill—**applicable**	40 *CFR* 264.302(a) *OAC* 3745-57-04(A)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Action leakage rate testing for the RCRA leachate detection system (continued)	To determine if the action leakage rate has been exceeded, must convert the weekly or monthly flow rate from the monitoring data obtained under 40 *CFR* 264.303(c) to an average daily flow rate (gal/acre/day) for each sump. The average daily flow rate for each sump must be calculated weekly during the active life and closure period, and monthly during the post-closure period when monthly monitoring is required under 40 *CFR* 264.303(c).		40 *CFR* 264.302(b) *OAC* 3745-57-04(B)
Monitoring of liners and cover systems during and after construction and installation	During construction or installation, liners and cover systems must be checked for uniformity, damage, and imperfections (e.g., holes, cracks, thin spots, etc.).	Construction and operation of a RCRA landfill—**applicable**	40 *CFR* 264.303(a) *OAC* 3745-57-05(A)
	Immediately after construction or installations, synthetic liners must be checked to ensure tight seams and joints and the absence of tears, punctures, or blisters; soil based and mixed liners and covers must be checked for imperfections, including lenses, cracks, channels, or other structural nonuniformities.		40 *CFR* 264.303(a)(1) - (2) *OAC* 3745-57-05(A)(1) – (2)
	Must record the amount of liquids removed from the leak detection system sumps at least weekly during the active life and closure period.		40 *CFR* 264.303(c)(1)
Response actions for RCRA leachate detection system	Must develop actions to be taken if action leakage rate has been exceeded.	Operation of a RCRA landfill leak detection system—**applicable**	40 *CFR* 264.304(a) *OAC* 3745-57-06(A)
	If the flow rate into the leak detection system exceeds the action leakage rate for any sump, must determine:	Flow rate into the leak detection system exceeds action leakage rate for any sump—**applicable**	40 *CFR* 264.304 (b) *OAC* 3745-57-06(B)
	• To the extent practicable, the location, size, and cause of any leak		40 *CFR* 264.304 (b)(3) *OAC* 3745-57-06(B)(3)
	• Whether waste receipt should cease or be curtailed, whether any waste should be removed from the unit for inspection, repairs, or controls, and whether or not the unit should be closed		40 *CFR* 264.304 (b)(4) *OAC* 3745-57-06(B)(4)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Response actions for RCRA leachate detection system (continued)	• Any other short-term and longer-term actions to be taken to mitigate or stop any leaks.		40 *CFR* 264.304 (b)(5) *OAC* 3745-57-06(B)(5)
	Must assess the source of liquids and amounts of liquids by source; conduct a fingerprint, hazardous constituent, or other analyses of the liquids in the leak detection system to identify the source of liquids and possible location of any leaks, and the hazard and mobility of the liquid; and assess the seriousness of any leaks in terms of potential for escaping into the environment; or document why such assessments are not needed.	Leak and/or remediation determinations required—**applicable**	40 *CFR* 264.304(c)(1) and (2) *OAC* 3745-57-06(C)(1) and (2)
Security system for a RCRA landfill	Must prevent the unknowing entry, and minimize the possibility for the unauthorized entry, of persons or livestock onto the active portion of his facility, unless:	Construction and operation of a RCRA hazardous waste landfill—**applicable**	40 *CFR* 264.14 *OAC* 3745-54-14(A)
	• Physical contact with the waste, structures, or equipment within the active portion of the facility will not injure unknowing or unauthorized persons or livestock which may enter the active portion of a facility		40 *CFR* 264.14(1) *OAC* 3745-54-14(A)(1)
	• Disturbance of the waste or equipment, by the unknowing or unauthorized entry of persons or livestock onto the active portion of a facility, will not cause a violation of the requirements of this part.		40 *CFR* 264.14(2) *OAC* 3745-54-14(A)(2)
	Must have a 24-hour surveillance system which continuously monitors and controls entry onto the active portion of the facility; or an artificial or natural barrier which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances to the active portion of the facility.		40 *CFR* 264.14(b) *OAC* 3745-54-14(B)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Security system for a RCRA landfill (continued)	Must post a sign with the legend "Danger – Unauthorized Personnel Keep Out" at each entrance to the active portion of a facility and at other locations in sufficient numbers to be seen from any approach in the active portion. Legend must be written in English and be legible from a distance of at least 25 ft.		40 *CFR* 264.14(c) *OAC* 3745-54-14(C)
Run-on/runoff control systems	A run-on control system must be designed, constructed, operated, and maintained that is capable of preventing flow onto the active portion of the landfill during peak discharge from at least a 25-year storm.	Construction and operation of a RCRA hazardous waste landfill—**applicable**	40 *CFR* 264.301(g) *OAC* 3745-57-03(G)
	Runoff management system must be able to collect and control the water volume from a runoff resulting from a 24-hour, 25-year storm event.		40 *CFR* 264.301(h) *OAC* 3745-57-03(H)
	Collection and holding facilities must be emptied or otherwise expeditiously managed after storm events to maintain design capacity of the system.		40 *CFR* 264.301(i) *OAC* 3745-57-03(I)
Wind dispersal control system	If the landfill contains any particulate matter which may be subject to wind dispersal, must cover or manage the landfill to control wind dispersal of particulate matter.	Operation of a RCRA hazardous waste landfill**—applicable**	40 *CFR* 264.301(j) *OAC* 3745-57-03(J)
Construction Quality Assurance (CQA) program	A CQA program is required for all surface impoundment, waste pile, and landfill units that are required to comply with paragraphs (C) or (D) of *OAC* 3745-56-21, 3745-56-51, and 3745-57-03. The program must ensure that the constructed unit meets or exceeds all design criteria and specifications, must be developed and implemented under the direction of a CQA officer who is a registered engineer, and must address the physical components listed in *OAC* 3745-54-19(A)(2) where applicable.		40 *CFR* 264.19(a) *OAC* 3745-54-19(A)
	Must develop and implement a written CQA plan as detailed in *OAC* 3745-54-19(B).		40 *CFR* 264.19(b) *OAC* 3745-54-19(B)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Construction Quality Assurance (CQA) program (continued)	The CQA program must include the observations, inspections, tests and measurements sufficient to meet the assurances listed in *OAC* 3745-54-19(C)(1)(a) to (c) and must include the test fill requirements detailed in *OAC* 3745-54-19(C)(2).		40 *CFR* 264.19(c) *OAC* 3745-54-19(C)
	Waste must not be received in a unit until the owner or operator has submitted to the Director by certified mail or hand delivery a certification signed by the CQA officer that the approved CQA plan has been successfully carried out and that the unit meets the requirements of paragraphs (C) or (D) of *OAC* 3745-56-21, 3745-56-51, or 3745-57-03; and the procedure in *OAC* 3745-50-58(L)(2)(b) has been completed. Documentation supporting the CQA officer's certification must be furnished to the Director upon request.		40 *CFR* 264.19(d) *OAC* 3745-54-19(D)
Post-construction monitoring of liners, leak detection, run-on/runoff systems during active life of facility	Must inspect landfill weekly and after storm events to ensure proper functioning of the run-on and runoff control system, wind dispersal control systems, and the leachate collection and removal systems.	Operation of a RCRA hazardous waste landfill**—applicable**	40 *CFR* 264.303(b) *OAC* 3745-57-05(B)
Facility and equipment inspection, testing and maintenance	Must inspect facility for malfunctions and deterioration, operator errors, and discharges to identify any problems and remedy any deterioration or malfunction of equipment or structures on a schedule and in a manner that ensures that the problem does not lead to an environmental or human health hazard, as detailed in 40 *CFR* 264.15 [*OAC* 3745-54-15].	Operation of a RCRA hazardous waste facility**—applicable**	40 *CFR* 264.15(a) – (d) *OAC* 3745-54-15(A) – (D)
	All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, shall be tested and maintained as necessary to assure its proper operation in time of emergency.		40 *CFR* 264.33 *OAC* 3745-54-33

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Required emergency equipment	All facilities shall be equipped with the following:		40 *CFR* 264.32 *OAC* 3745-54-32
	- An internal communications or alarm system capable of providing immediate emergency instruction to facility personnel		40 *CFR* 264.32(A) *OAC* 3745-54-32(A)
	- A device capable of summoning emergency assistance from local police departments, fire departments, or Ohio EPA or local emergency response teams		40 *CFR* 264.32(B) *OAC* 3745-54-32(B)
	- Portable fire extinguishers, fire control equipment, including but not limited to, special extinguishing equipment, such as that using foam, inert gas, or dry chemicals, spill control equipment, and decontamination equipment		40 *CFR* 264.32(C) *OAC* 3745-54-32(C)
	- Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems.		40 *CFR* 264.32(D) *OAC* 3745-54-32(D)
Access to communications or alarm system	Whenever hazardous waste is being poured, mixed, spread, or otherwise handled, all personnel involved in the operation shall have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee, unless such a device is not required under 40 *CFR* 264.32 [*OAC* 3745-54-32].	Operation of a RCRA hazardous waste facility—**applicable**	40 *CFR* 264.34(a) *OAC* 3745-54-34(A)
	If there is only one employee on the premises while the facility is operating, such employee shall have immediate access to a device capable of summoning external emergency assistance, unless such a device is not required under 40 *CFR* 264.32 [*OAC* 3745-54-32].		40 *CFR* 264.34(b) *OAC* 3745-54-34(B)
Required aisle space	Shall maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless it can be satisfactorily demonstrated that aisle space is not needed for any of these purposes.	Operation of a RCRA hazardous waste facility—**applicable**	40 *CFR* 264.35 *OAC* 3745-54-35

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Purpose and implementation of a contingency plan	Substantive requirements will be met to minimize hazards to human health or the environment from fires, explosions or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water.	Operation of a RCRA hazardous waste facility—**applicable**	40 *CFR* 264.51(a) *OAC* 3745-54-51(A)
	Substantive requirements shall be implemented immediately whenever there is a fire, explosion or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.		40 *CFR* 264.51(b) *OAC* 3745-54-51(B)
Content of contingency plan	Comply with the substantive requirements of §§264.51 and 264.56 [rules 3745-54-51 and 3745-54-56 of the Administrative Code] in response to fires, explosions, or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility. 40 *CFR* 264.52(a) through (f) [*OAC* 3745-54-52(A) through (F)] describes what must be included in the Plan.	Operation of a RCRA hazardous waste facility—**applicable**	40 *CFR* 264.52 *OAC* 3745-54-52
Emergency coordinator	At all times, there shall be at least one employee either on the facility premises or on call with responsibility for coordinating all internal emergency response measures. This coordinator shall be thoroughly familiar with all aspects of the facility’s contingency plan, all operations and activities at the facility, the locations and characteristics of waste handled, the location of all records within the facility, and the facility layout. In addition, this person shall have the authority to commit the resources needed to implement the contingency plan.	Operation of a RCRA hazardous waste facility—**applicable**	40 *CFR* 264.55 *OAC* 3745-54-55
Emergency procedures	Whenever there is an imminent or actual emergency situation, the emergency coordinator, or his designee when the emergency coordinator is on call, must immediately implement the substantive requirements detailed in 40 *CFR* 264.56 [*OAC* 3745-54-56].	Operation of a RCRA hazardous waste facility—**applicable**	40 *CFR* 264.56 *OAC* 3745-54-56

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Training requirements	Facility personnel must successfully complete a program of classroom instruction or on-the-job training in accordance with the program outlined in 40 *CFR* 264.16 [*OAC* 3745-54-16] and take part in an annual review of this initial training.	Operation of a RCRA hazardous waste facility—**applicable**	40 *CFR* 264.16 *OAC* 3745-54-16
Inventory requirements	Record on a map the exact location, and dimensions, including depth, of each cell in reference to permanently surveyed benchmarks and document the contents of each cell and the approximate location of each hazardous waste type within each cell.	Operation of a RCRA hazardous waste facility—**applicable**	40 *CFR* 264.309 *OAC* 3745-57-09
Groundwater monitoring at a hazardous waste landfill			
Construction of groundwater monitoring wells	All RCRA monitoring wells must be cased in a manner that maintains the integrity of the monitoring well bore hole. This casing must be screened or perforated and packed with gravel or sand, where necessary to enable collection of groundwater samples. The annular space above the sampling depth must be sealed to prevent contamination of groundwater and samples.	Construction of RCRA groundwater monitoring well—**applicable**	40 *CFR* 264.97(c) *OAC* 3745-54-97(C)
Groundwater monitoring program at a RCRA landfill	Must implement a groundwater monitoring program capable of determining the facility's impact on the quality of groundwater in the uppermost aquifer underlying the facility. Must comply with the substantive requirements of Subpart F 40 *CFR* 264.90 through 264.100 [*OAC* 3745-54-90 through 3745-54-100] for the purposes of detecting, characterizing and responding to releases during the active life of the regulated unit, including the closure and post-closure periods.	Operation of a RCRA hazardous waste unit—**applicable**	40 *CFR* 264.90(a) and (c) *OAC* 3745-54-90(A) and (C)
Groundwater protection standard	Must ensure that hazardous constituents detected in the groundwater from a regulated unit do not exceed the concentration limits for MCLs in the uppermost aquifer underlying the waste management area beyond the point of compliance during the compliance period. Must comply with the substantive requirements for detection, compliance and corrective action monitoring, as appropriate.	Operation of a RCRA groundwater monitoring program—**applicable**	40 *CFR* 264.92 through 264.100 *OAC* 3745-54-92 through 54-100

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
General groundwater monitoring requirements for a RCRA landfill	The groundwater monitoring system must consist of a sufficient number of wells, installed at appropriate locations and depths to yield samples from the uppermost aquifer that: • Represent the quality of background groundwater • Represent the quality of groundwater passing the point of compliance • Allows for the detection of contamination when the hazardous waste or constituents have migrated from the waste management area to the uppermost aquifer.	Operation of a RCRA detection monitoring program under 40 *CFR* 264.98—**applicable**	40 *CFR* 264.97(a) *OAC* 3745-54-97(A)
Groundwater monitoring program for a RCRA landfill	Groundwater monitoring program must include consistent sampling and analysis procedures that are designed to ensure monitoring results that provide a reliable indication of groundwater quality below the waste management area.	Operation of a RCRA detection monitoring program under 40 *CFR* 264.98—**applicable**	40 *CFR* 264.97(d) *OAC* 3745-54-97(D)
	Groundwater monitoring program must include sampling and analytical methods that are appropriate and accurately measure hazardous constituents in groundwater samples.		40 *CFR* 264.97(e) *OAC* 3745-54-97(E)
	Groundwater monitoring program must include a determination of the groundwater surface elevation each time groundwater is sampled.		40 *CFR* 264.97(f) *OAC* 3745-54-97(F)
Groundwater sample collection	The number and size of samples collected to establish background and measure groundwater quality at the point-of-compliance shall be appropriate for the form of statistical test employed following generally accepted statistical principles.	Operation of a RCRA detection monitoring program under 40 *CFR* 264.98—**applicable**	40 *CFR* 264.97(g) *OAC* 3745-54-97(G)
	Shall specify the statistical method, in conformance with 40 *CFR* 264.97(h) [*OAC* 3745-54-97(H)], to be used in evaluating groundwater monitoring data for each hazardous constituent. Statistical method used must be protective of human health and the environment and must comply with performance standards outlined in 40 *CFR* 264.97(i) [*OAC* 3745-54-97(I)].		40 *CFR* 264.97(h) *OAC* 3745-54-97(H) 40 *CFR* 264.97(i) *OAC* 3745-54-97(I)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Groundwater sample collection (continued)	Groundwater monitoring data collected in accordance with 40 *CFR* 264.97(g) [*OAC* 3745-54-97(G)], including actual levels of constituents, must be maintained in the facility operating records.		40 *CFR* 264.97(j) *OAC* 3745-54-97(J)
Detection monitoring for a RCRA landfill	Must monitor for EPA-specified indicator parameters, waste constituents or reaction products that provide a reliable indication of the presence of hazardous constituents in groundwater.	Operation of a RCRA detection monitoring program under 40 *CFR* 264.98—**applicable**	40 *CFR* 264.98(a) *OAC* 3745-54-98(A)
	Must install a groundwater monitoring system at the compliance point as specified under 40 *CFR* 264.95 [*OAC* 3745-54-95] that complies with 264.97(a)(2), (b), and (c) [*OAC* 3745-54-97(A)].		40 *CFR* 264.98(b) *OAC* 3745-54-98(B)
	Must conduct a monitoring program for each EPA-specified chemical parameter and hazardous constituent in accordance with 40 *CFR* 264.97(g) [*OAC* 3745-54-97(G)].		40 *CFR* 264.98(c) *OAC* 3745-54-98(C)
	Sampling frequency shall be sufficient to determine whether there is statistically significant evidence of contamination.		40 *CFR* 264.98(d) *OAC* 3745-54-98(D)
	Must determine the groundwater flow rate and direction in the uppermost aquifer at least annually.		40 *CFR* 264.98(e) *OAC* 3745-54-98(E)
	Must determine whether there is statistically significant evidence of contamination of any EPA-specified chemical parameter or hazardous constituent at a specified frequency.		40 *CFR* 264.98(f) *OAC* 3745-54-98(F)
	If there is statistically significant evidence of contamination at any monitoring well at the compliance point, must follow the substantive provisions of this subsection.		40 *CFR* 264.98(g) *OAC* 3745-54-98(G)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
	Closure of a hazardous waste landfill		
Closure performance standard for RCRA hazardous waste management units	Must close the facility in a manner that: • Minimizes the need for further maintenance; and	Closure of a RCRA hazardous waste management unit—**applicable**	40 *CFR* 264.111(a) *OAC* 3745-55-11(A)
	• Controls, minimizes, or eliminates, to the extent necessary to protect human health and environment, post-closure escape of hazardous waste, hazardous constituents, contaminated runoff, or hazardous waste decomposition products to ground or surface waters or to the atmosphere; and		40 *CFR* 264.111(b) *OAC* 3745-55-11(B)
	• Complies with the substantive closure requirements of 40 *CFR* 264 [*OAC* 3745-54 to 3745-57 and 3745-205] for particular type of facility including, but not limited to, requirements of Sections 264.178 (container storage area) [*OAC* 3745-55-78], 264.197 (tanks) [*OAC* 3745-55-97], 264.310 (landfills) [*OAC* 3745-57-10], and 264.554 (remediation waste piles) [*OAC* 3745-56-58].		40 *CFR* 264.111(c) *OAC* 3745-55-11(C)
	Must have a closure plan identifying the steps necessary to perform partial and/or final closure of the facility at any point during its active life and must amend the plan as necessary.		40 *CFR* 264.112 *OAC* 3745-55-12
	During the partial and final closure periods, all contaminated equipment, structures, and soils must be properly disposed or decontaminated.		40 *CFR* 264.114 *OAC* 3745-55-14
Closure of RCRA landfill	Must cover the landfill or cell with a final cover designed and constructed to:	Closure of a RCRA hazardous waste landfill—**applicable**	40 *CFR* 264.310 *OAC* 3745-57-10
	• Provide long-term minimization of migration of liquids through the closed landfill		40 *CFR* 264.310(a)(1) *OAC* 3745-57-10(A)(1)
	• Function with minimum maintenance		40 *CFR* 264.310(a)(2) *OAC* 3745-57-10(A)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Closure of RCRA landfill (continued)	• Promote drainage and minimize erosion or abrasion of the cover		40 *CFR* 264.310(a)(3) *OAC* 3745-57-10(A)(3)
	• Accommodate settling and subsidence so that integrity of the cover is maintained		40 *CFR* 264.310(a)(4) *OAC* 3745-57-10(A)(4)
	• Have a permeability less than or equal to the permeability any bottom liner system or natural subsoils present.		40 *CFR* 264.310(a)(5) *OAC* 3745-57-10(A)(5)
	Post-closure care of a landfill		
Duration of post-closure care	Post-closure care must begin after closure and continue for at least 30 years after that date. The Director may shorten or extend the post-closure period.	Closure of a RCRA hazardous waste disposal unit—**applicable**	40 *CFR* 264.117(a) *OAC* 3745-55-17(A)
Continuation of security requirements	Continuation of the security requirements of 40 *CFR* 264.14 may be required during part or all of the post-closure period when hazardous wastes may remain exposed after completion of partial or final closure or access by the public or domestic livestock may pose a hazard to human health.	Closure of a RCRA hazardous waste disposal unit—**applicable**	40 *CFR* 264.117(b) *OAC* 3745-55-17(B)
Protection of disposal facility	Post-closure use of property must never be allowed to disturb the integrity of the final cover, liners, or any other components of the containment system or the facility's monitoring system unless the disturbance is necessary to the proposed use of the property and will not increase the potential hazard to human health or the environment or it is necessary to reduce a threat to human health or the environment.	Closure of a RCRA hazardous waste disposal unit—**applicable**	40 *CFR* 264.117(c) *OAC* 3745-55-17(C)
Post-closure plan	Must have a post-closure plan identifying the activities that will be carried on after closure of each disposal unit and the frequency of these activities, and must amend the plan as necessary. All post-closure care activities must be in accordance with the approved post-closure care plan.	Closure of a RCRA hazardous waste disposal unit—**applicable**	40 *CFR* 264.117(d) *OAC* 3745-55-17(D) 40 *CFR* 264.118 *OAC* 3745-55-18

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Post-closure plan (continued)	Within 90 days after receiving the final volume of hazardous wastes, must treat, remove from the unit or facility, or dispose of on site, all hazardous wastes in accordance with approved closure plan. The Director may approve a longer period in accordance with 40 *CFR* 264.113(a)(1) and (2) and 264.113(c) [*OAC* 3745-55-13(A)(1) and (2) and 3745-55-13(C)].		40 *CFR* 264.113(a) and (c) *OAC* 3745-55-13(A) and (C)
	Must complete partial and final closure activities in accordance with the approved closure plan within 180 days after receiving the final volume of hazardous wastes at the hazardous waste management unit or facility. The Director may approve a longer closure period in accordance with 40 *CFR* 264.113(b)(1) and (2) and 264.113(c) [*OAC* 3745-55-13(B)(1) and (2) and 3745-55-13(C)].		40 *CFR* 264.113(b) and (c) *OAC* 3745-55-13(B) and (C)
General post-closure care	After final closure, owner or operator must:	Closure of a RCRA hazardous waste landfill**—applicable**	40 *CFR* 264.310(b) *OAC* 3745-57-10(B)
	• Maintain the effectiveness and integrity of the final cover including making repairs to the cap as necessary to correct effects of settling, erosion, subsidence or other events		40 *CFR* 264.310(b)(1) *OAC* 3745-57-10(B)(1)
	• Continue to operate the leachate collection and removal system until leachate is no longer detected		40 *CFR* 264.310(b)(2) *OAC* 3745-57-10(B)(2)
	• Maintain and monitor the leachate detection system in accordance with the substantive requirements in 40 *CFR* 264.301(a)(3)(iv) and (4) and 40 *CFR* 264.303(c)		40 *CFR* 264.310(b)(3) *OAC* 3745-57-10(B)(3)
	• Maintain and monitor a ground water monitoring system and comply with all other applicable provisions 40 *CFR* 264, Subpart F		40 *CFR* 264.310(b)(4) *OAC* 3745-57-10(B)(4)
	• Prevent run-on and runoff from eroding or otherwise damaging final cover		40 *CFR* 264.310(b)(5) *OAC* 3745-57-10(B)(5)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
General post-closure care (continued)	- Protect and maintain surveyed benchmarks used to locate waste cells.		40 *CFR* 264.310(b)(6) *OAC* 3745-57-10(B)(6)
Monitoring of the leachate collection system post-closure	Must record the amount of liquids removed from the leak detection system at least monthly after the final cover is installed and thereafter as specified in 40 *CFR* 264.303(c)(2) [*OAC* 3745-57-05(C)(2)].	Closure of a RCRA landfill—**applicable**	40 *CFR* 264.303(c)(2) *OAC* 3745-57-05(C)(1) to (3)
	Management of wastes in a CAMU		
Designation and management of CAMUs	CAMUs may be designated at a facility. CAMUs are areas within a facility that are used only for managing CAMU-eligible wastes for implementing corrective action or cleanup at the facility. A CAMU must be located within the contiguous property under the control of the owner or operator where the wastes to be managed in the CAMU originated. One or more CAMUs may be designated at a facility.	Management of CAMU-eligible wastes within a CAMU located within the contiguous property under the control of the owner or operator where the wastes to be managed in the CAMU originated—**applicable**	40 *CFR* 264.552(a) *OAC* 3745-57-72(A)
	CAMU-eligible waste means all non-hazardous and hazardous wastes, and all media (including ground water, surface water, soils, and sediments) and debris that are managed for implementing cleanup. As-generated wastes from ongoing industrial operations at a site are not CAMU-eligible wastes.		40 *CFR* 264.552(a)(1)(i) *OAC* 3745-57-72(A)(1)(a)
	Wastes that would otherwise meet the description in paragraph (A)(1)(a) of this rule are not "CAMU-Eligible Wastes" where: (i) The wastes are hazardous wastes found during cleanup in intact or substantially intact containers, tanks, or other non-land-based units found above ground, unless the wastes are first placed in these units as part of cleanup, or the units are excavated during the course of cleanup; or (ii) The director exercises the discretion in paragraph (A)(2) of this rule to prohibit the wastes from management in a CAMU.		40 *CFR* 264.552(a)(1)(ii) *OAC* 3745-57-72(A)(1)(b)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Designation and management of CAMUs (continued)	Notwithstanding paragraph (A)(1)(a) of this rule, where appropriate, as-generated non-hazardous waste may be placed in a CAMU where such waste is being used to facilitate treatment or the performance of the CAMU.		40 *CFR* 264.552(a)(1)(iii) *OAC* 3745-57-72(A)(1)(c)
	Director may prohibit placement of waste in a CAMU where he has information that such wastes have not been managed in compliance with land disposal treatment or unit design standards or that noncompliance with other applicable standards likely contributed to release of the waste.		40 *CFR* 264.552(a)(2) *OAC* 3745-57-72(A)(2)
	The placement of bulk or noncontainerized liquid hazardous waste or free liquids contained in hazardous waste (whether or not sorbents have been added) in any CAMU is prohibited except where placement of such wastes facilitates the remedy selected for the waste. Certain provisions of 40 *CFR* 264.314 [*OAC* 3745-57-14] regarding liquids, as given in 40 *CFR* 264.552(a)(3) [*OAC* 3745-57-72-(A)(3)] also apply.		40 *CFR* 264.552(a)(3) *OAC* 3745-57-72(A)(3)
	Placement of CAMU-eligible wastes into or within a CAMU does not constitute land disposal of hazardous wastes.		40 *CFR* 264.552(a)(4) *OAC* 3745-57-72(A)(4)
	Consolidation or placement of CAMU-eligible wastes into or within a CAMU does not constitute creation of a unit subject to minimum technology requirements.		40 *CFR* 264.552(a)(5) *OAC* 3745-57-72(A)(5)
	May designate a regulated unit as a CAMU, or may incorporate a regulated unit into a CAMU, if the regulated unit is closed or closing and inclusion of the unit will enhance implementation of effective, protective, and reliable remedial actions for the facility.		40 *CFR* 264.552(b)(1) *OAC* 3745-57-72(B)(1)
	The hazardous waste rules that applied to the regulated unit will continue to apply to that portion of the CAMU after incorporation into the CAMU.		40 *CFR* 264.552(b)(2) *OAC* 3745-57-72(B)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Designation and management of CAMUs (continued)	A CAMU may used for the management of CAMU-eligible waste in accordance with the following requirements of 40 *CFR* 264.552 (*OAC* 3745-57-72): • CAMU shall facilitate implementation of reliable, effective, protective and cost-effective remedies.		40 *CFR* 264.552(c)(1) *OAC* 3745-57-72(C)(1)
	• Waste management activities shall not create unacceptable risks or to the environment resulting from exposure to hazardous wastes or hazardous constituents.		40 *CFR* 264.552(c)(2) *OAC* 3745-57-72(C)(2)
	• CAMU shall include uncontaminated areas of the facility, only if including such areas for the purpose of managing CAMU-eligible waste is more protective than management of such wastes at contaminated areas of the facility.		40 *CFR* 264.552(c)(3) *OAC* 3745-57-72(C)(3)
	• Areas within the CAMU, where wastes remain in place after closure of the CAMU, shall be managed and contained so as to minimize future releases, to the extent practicable.		40 *CFR* 264.552(c)(4) *OAC* 3745-57-72(C)(4)
	• CAMU shall expedite the timing of remedial activity implementation, when appropriate and practicable.		40 *CFR* 264.552(c)(5) *OAC* 3745-57-72(C)(5)
	• CAMU shall enable the use, when appropriate, of treatment technologies (including innovative technologies) to enhance the long-term effectiveness of remedial actions by reducing the toxicity, mobility, or volume of wastes that will remain in place after closure of the CAMU and		40 *CFR* 264.552(c)(6) *OAC* 3745-57-72(C)(6)
	• CAMU shall, to the extent practicable, minimize the land area of the facility upon which wastes will remain in place after closure of the CAMU.		40 *CFR* 264.552(c)(7) *OAC* 3745-57-72(C)(7)
	To designate a CAMU in accordance with the criteria in 40 *CFR* 264.552 (*OAC* 3745-57-72), knowledge of the waste must include		40 *CFR* 264.552(d) *OAC* 3745-57-72(D)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Designation and management of CAMUs (continued)	• The origin of the waste and how it was subsequently managed (including a description of the timing and circumstances surrounding the disposal and/or release);		40 *CFR* 264.552(d)(1) *OAC* 3745-57-72(D)(1)
	• Whether the waste was listed or identified as hazardous at the time of disposal and/or release; and		40 *CFR* 264.552(d)(2) *OAC* 3745-57-72(D)(2)
	• Whether disposal and/or release of the waste occurred before or after the land disposal requirements of 40 *CFR* 268 (*OAC* 3745-270) were in effect for the waste listing or characteristic.		40 *CFR* 264.552(d)(3) *OAC* 3745-57-72(D)(3)
Design, operation, and closure of a CAMU	Director will-designate the requirements for a CAMU, to include the following:	Management of CAMU-eligible wastes within a CAMU located within the contiguous property under the control of the owner or operator where the wastes to be managed in the CAMU originated—**applicable**	40 *CFR* 264.552(e) *OAC* 3745-57-72(E)
	• Areal configuration of the CAMU		40 *CFR* 264.552(e)(1) *OAC* 3745-57-72(E)(1)
	• Specification of applicable design, operation, treatment and closure requirements in the hazardous waste rules.		40 *CFR* 264.552(e)(2) *OAC* 3745-57-72(E)(2)
	Shall comply with the designated substantive minimum design, operation, treatment, and closure standards for a CAMU, including the following:		40 *CFR* 264.552(e)(3) *OAC* 3745-57-72(E)(3)
	• Liners and leachate collection		40 *CFR* 264.552(e)(3)(i) *OAC* 3745-57-72(E)(3)(a)
	• Treatment of principal hazardous constituents		40 *CFR* 264.552(e)(4) *OAC* 3745-57-72(E)(4)
	• Ground water monitoring		40 *CFR* 264.552(e)(5) *OAC* 3745-57-72(E)(5)
	• Capping requirements		40 *CFR* 264.552(e)(6)(iv) *OAC* 3745-57-72(E)(6)(d)
	• Closure and post-closure care.		40 *CFR* 264.552(e)(6) *OAC* 3745-57-72(E)(6)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Design, operation, and closure of a CAMU (continued)	CAMUs into which wastes are placed where all wastes have constituent levels at or below remedial levels or goals applicable to the site do not have to comply with the liner requirements at 40 *CFR* 264.552(e)(3)(i) [*OAC* 3745-57-72(E)(3)(a)], the capping requirements at 40 *CFR* 264.552 (e)(6)(iv) [*OAC* 3745-57-72(E)(6)(d)], or the ground water monitoring requirements at 40 *CFR* 264.552 (e)(5) [*OAC* 3745-57-72(E)(5)].		40 *CFR* 264.552(g) *OAC* 3745-57-72(G)
Designation, design, operation, and closure of a CAMU used for storage and/or treatment only	CAMUs used for storage and/or treatment only are CAMUs in which wastes will not remain after closure. Such CAMUs must be designated in accordance with all of the requirements 40 *CFR* 264.552 [*OAC* 3745-57-72], except as follows:	Management of CAMU-eligible wastes within a CAMU used for storage and/or treatment only—**applicable**	40 *CFR* 264.552(f) *OAC* 3745-57-72(F)
	• Such CAMUs that operate in accordance with time limits established for hazardous waste staging piles are subject to requirements for staging piles in lieu of performance standards and requirements for CAMUs.		40 *CFR* 264.552(f)(1) *OAC* 3745-57-72(F)(1)
	• Such CAMUs that do not operate in accordance with time limits established for hazardous waste staging piles are subject to a time limit, as established by the Director, that is no longer than necessary to achieve a timely remedy selected for the waste, and are subject to requirements for staging piles in lieu of performance standards and requirements for CAMUs.		40 *CFR* 264.552(f)(2) *OAC* 3745-57-72(F)(2)
	The designation of a CAMU does not change Ohio EPA's existing authority to address clean-up levels, media-specific points of compliance to be applied to remediation at a facility, or other remedy selection decisions.		*OAC* 3745-57-72(K)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
	Hazardous waste generation, characterization, and segregation		
Characterization of solid waste (*all primary and secondary wastes*)	Must determine if solid waste is hazardous or is excluded under 40 *CFR* 261.4 [*OAC* 3745-51-04]; and	Generation of solid waste as defined in 40 *CFR* 261.2—**applicable**	40 *CFR* 262.11(a) *OAC* 3745-52-11(A)
	Must determine if waste is listed as a hazardous waste in 40 *CFR* 261 [*OAC* 3745-51-30 to 3745-51-35], or	Generation of solid waste, which is not excluded under 40 *CFR* 261.4—**applicable**	40 *CFR* 262.11(b) *OAC* 3745-52-11(B)
	Must determine whether the waste is identified in Subpart C of 40 *CFR* 261 [*OAC* 3745-51-20 through 3745-51-24], characterizing the waste by using prescribed testing methods or applying generator knowledge based on information regarding material or processes used.	Generation of solid waste that is not listed in Subpart D of 40 *CFR* 261 and not excluded under 40 *CFR* 261.4—**applicable**	40 *CFR* 262.11(c) *OAC* 3745-52-11(C)
	Must refer to 40 *CFR* 261, 262, 264, 265, 266, 268, and 273 [*OAC* 3745-51, 3745-54 to 3745-57, 3745-65 to 3745-69, 3745-205, 3745-256, 3745-266, 3745-270, and 3745-273] for possible exclusions or restrictions pertaining to management of the specific waste.	Generation of solid waste that is determined to be hazardous—**applicable**	40 *CFR* 262.11(d) *OAC* 3745-52-11(D)
Characterization of hazardous waste	Must obtain a detailed chemical and physical analysis of a representative sample of the waste(s) that, at a minimum, contains all the information which must be known to treat, store, or dispose of the waste in accordance with 40 *CFR* 264 and 268 [*OAC* 3745-54 to3745-57, 3745-205, and 3745-270].	Generation of RCRA hazardous waste for storage, treatment, or disposal**—applicable**	40 *CFR* 264.13(a)(1) and (2) *OAC* 3745-54-13(A)(1) and (2)
Determinations for land disposal of hazardous waste	Must determine if the waste meets the treatment standards in 40 *CFR* 268.40, 268.45, or 268.49 [*OAC* 3745-270-40, 3745-270-45, and 3745-270-49] by testing in accordance with prescribed methods or use of generator knowledge of waste.	Generation of RCRA hazardous waste for storage, treatment, or disposal**—applicable**	40 *CFR* 268.7(a) *OAC* 3745-270-07(A)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Determinations for land disposal of hazardous waste (continued)	Treatment facilities must test their wastes according to the frequency specified in their waste analysis plans to determine if the waste meets the treatment standards in 40 *CFR* 268.40, 268.45, or 268.49 [*OAC* 3745-270-40, 3745-270-45, and 3745-270-49] prior to disposal.	Treatment of RCRA hazardous waste prior to disposal—**applicable**	40 *CFR* 268.7(b) *OAC* 3745-270-07(B)
	Must determine each EPA Hazardous Waste Number (waste code) to determine the applicable treatment standards under 40 *CFR* 268.40 et seq. [*OAC* 3745-270-40 et seq.].	Generation of RCRA hazardous waste for storage, treatment, or disposal—**applicable**	40 *CFR* 268.9(a) *OAC* 3745-270-09(A)
	Must determine the underlying hazardous constituents [as defined in 40 *CFR* 268.2(i) and *OAC* 3745-270-02] in the waste.	Generation of RCRA characteristically hazardous waste (and is not D001 nonwastewaters treated by CMBST, RORGS, or POLYM of Section 268.42, Table 1) for storage, treatment, or disposal—**applicable**	40 *CFR* 268.9(a) *OAC* 3745-270-09(A)
	Must determine whether the waste meets other applicable treatment standards under 40 *CFR* 268.9 [*OAC* 3745-270-09] for characteristic wastes.	Generation of RCRA characteristically hazardous waste—**applicable**	40 *CFR* 268.9(b) to (d) *OAC* 3745-270-09(B) to (C)
Characterization and management of wastewater (e.g., decon water)	On-site wastewater treatment units (including tank systems, conveyance systems, and ancillary equipment used to treat, store or convey wastewater to the wastewater treatment facility) are exempt from the requirements of RCRA Subtitle C standards.	On-site wastewater treatment units subject to regulation under Section 402 or Section 307(b) of the CWA—**applicable**	40 *CFR* 264.1(g)(6) *OAC* 3745-54-01(G)(6)
Characterization and management of industrial wastewater	Industrial wastewater discharges that are point source discharges subject to regulation under Section 402 of the CWA, as amended, are not solid wastes for the purpose of hazardous waste management.	Generation of industrial wastewater for discharge—**applicable**	40 *CFR* 261.4(a)(2) *OAC* 3745-51-04(A)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Segregation of scrap metal for recycle	Material is not subject to RCRA requirements for generators, transporters, and storage facilities under 40 *CFR* Parts 262 through 266, 268, 270, or 124 [*OAC* 3745-50-40 to 3745-50-235 or 3745-52, -53, -54 to -57, -65 to -69, -205, -256, -266, and -270].	Scrap metal, as defined in 40 *CFR* 261.1(c)(6) intended for recycle—**applicable**	40 *CFR* 261.6(a)(3)(ii) *OAC* 3745-51-06(A)(3)(b)
Management of recyclable materials for precious metal recovery	Recyclable materials being collected, transported or stored that are being reclaimed to recover economically significant amounts of gold, silver, platinum, palladium, iridium, osmium, rhodium, ruthenium, or any combination of these must be managed in accordance with the substantive requirements of 40 *CFR* 266.70 [*OAC* 3745-266-70].	Management of recyclable materials for precious metal recovery—**applicable**	40 *CFR* 266.70 *OAC* 3745-266-70
Management of spent lead acid batteries being reclaimed	Spent lead acid batteries being collected, transported and stored prior to regeneration must be managed in accordance with particular hazardous waste requirements depending on permit status and whether they are being reclaimed through regeneration or in other ways. Management options are detailed in 40 *CFR* 266.80 [*OAC* 3745-266-80]. Spent lead acid batteries can also be managed as universal wastes under 40 *CFR* 273 [*OAC* 3745-273].	Management of spent lead acid batteries being reclaimed—**applicable**	40 *CFR* 266.80 *OAC* 3745-266-80
	Hazardous waste storage		
Storage of hazardous wastes restricted from land disposal	Prohibits storage of hazardous waste restricted from land disposal unless the generator stores such waste in tanks, containers, or containment buildings on site solely for the purpose of accumulating such quantities as necessary to facilitate proper recovery, treatment, or disposal.	Accumulation of hazardous wastes restricted from land disposal solely for purpose of accumulation of quantities as necessary to facilitate proper recovery, treatment, or disposal—**applicable**	40 *CFR* 268.50 *OAC* 3745-270-50

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage and accumulation of hazardous waste in containers on site	A generator may accumulate hazardous waste at the facility provided that: • The waste is placed in containers that comply with 40 *CFR* 265.171-173 (Subpart I) [*OAC* 3745-66-70 to -73]	Accumulation of RCRA hazardous waste on site as defined in 40 *CFR* 260.10—**applicable**	40 *CFR* 262.34(a)(1)(i) *OAC* 3745-52-34(A)(1)(a)
	• Container is marked with the date upon which each period of accumulation begins		40 *CFR* 262.34(a)(2) *OAC* 3745-52-34(A)(2)
	• Container is marked with the words “hazardous waste”		40 *CFR* 262.34(a)(3) *OAC* 3745-52-34(A)(3)
	The generator complies with the requirements in Subparts C and D in 40 *CFR* Part 265, with §265.16, and with 40 *CFR* 268.7(a)(5) [*OAC* 3745-270-07(A)(5); *OAC* 3745-65-16; *OAC* 3745-65-30 to *OAC* 3745-65-37; and *OAC* 3745-65-50 to *OAC* 3745-65-56].	Accumulation of RCRA hazardous waste on site as defined in 40 *CFR* 260.10—**applicable**	40 *CFR* 262.34(a)(4) *OAC* 3745-52-34(A)(4)
	Generator is exempt from all requirements in Subparts G and H of 40 *CFR* Part 265, except for §§ 265.111 and 265.114 [*OAC* 3745- 66-10 to *OAC* 3745-66-21 and *OAC* 3745-66-40 to *OAC* 3745-66-48 except for paragraphs (A) and (B) of *OAC* 3745-66-11 and *OAC* 3745-66-14].		40 *CFR* 262.34(a)(1) *OAC* 3745-52-34(A)(1)(e)
	Container must be marked with either the words “Hazardous Wastes” or with other words that identify the contents.	Accumulation of 55 gal or less of RCRA hazardous waste or 1 qt or less of acutely hazardous waste at or near any point of generation—**applicable**	40 *CFR* 262.34(c)(1)(ii) *OAC* 3745-52-34(C)(1)(b)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage and accumulation of hazardous waste in containers on site (continued)	For the excess waste, must comply within 3 days with the requirements of *OAC* 3745-52-34(A) or other applicable provisions of Chapter 3745-52 of the Administrative Code. During the 3-day period, comply with *OAC* 3745-52-34(C)(1)(a) and (b). Must mark container holding excess accumulation with the date the excess accumulation began.	Accumulation of more than 55 gal of hazardous waste or more than 1 qt of acutely hazardous waste at or near any point of generation—**applicable**	40 *CFR* 262.34(c)(2) *OAC* 3745-52-34(C)(2)
Accumulation of rejected shipments of hazardous waste	A generator who receives a shipment of hazardous waste back as a rejected load or residue from a facility in accordance with a manifest discrepancy may accumulate the waste on site in accordance with paragraphs (a) and (b) or (d), (e) and (f) of 40 *CFR* 262.34 [(A) and (B) or (D), (E), and (F) of *OAC* 3745-52-34] depending on the amount of hazardous waste on site in that calendar month.	Accumulation of RCRA hazardous waste on site as defined in 40 *CFR* 260.10—**applicable**	40 *CFR* 262.34(m) *OAC* 3745-52-34(M)
Management of hazardous waste stored in containers	If container is not in good condition (e.g., severe rusting, structural defects) or if it begins to leak, must transfer waste into container in good condition.	Storage of RCRA hazardous waste in containers**—applicable**	40 *CFR* 264.171 *OAC* 3745-55-71
	Use container made or lined with materials compatible with waste to be stored so that the ability of the container is not impaired.		40 *CFR* 264.172 *OAC* 3745-55-72
	Keep containers closed during storage, except to add/remove waste.		40 *CFR* 264.173(a) *OAC* 3745-55-73(A)
	Open, handle, and store containers in a manner that will not cause containers to rupture or leak.		40 *CFR* 264.173(b) *OAC* 3745-55-73(B)
Inspection of RCRA container storage area	At least weekly, must inspect areas where containers are stored, looking for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors.	Storage of RCRA hazardous waste in containers**—applicable**	40 *CFR* 264.174 *OAC* 3745-55-74
Operation of a RCRA container storage area	Area must be sloped or otherwise designed and operated to drain liquid from precipitation, or containers must be elevated or otherwise protected from contact with accumulated liquid.	Storage in containers of RCRA hazardous waste that do not contain free liquids—**applicable**	40 *CFR* 264.175(c) *OAC* 3745-55-75(C)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Storage of RCRA hazardous waste with free liquids in containers	Area must have a containment system designed and operated in accordance with 40 *CFR* 264.175(b) [*OAC* 3745-55-75(B)] as follows:	Storage of RCRA hazardous waste with free liquids or F020 to F023, F026, and F027 in containers—**applicable**	40 *CFR* 264.175(a) and (d) *OAC* 3745-55-75(A) and (D)
	• A base must underlie the containers which is free of cracks or gaps and is sufficiently impervious to contain leaks, spills, and accumulated precipitation until the collected material is detected and removed.		40 *CFR* 264.175(b)(1) *OAC* 3745-55-75(B)(1)
	• A base must be sloped or the containment system must be otherwise designed and operated to drain and remove liquids resulting from leaks, spills, or precipitation, unless the containers are elevated or are otherwise protected from contact with accumulated liquids.		40 *CFR* 264.175(b)(2) *OAC* 3745-55-75(B)(2)
	• The system must have sufficient capacity to contain 10% of the volume of containers or volume of largest container, whichever is greater.		40 *CFR* 264.175(b)(3) *OAC* 3745-55-75(B)(3)
	• Run-on into the system must be prevented unless the collection system has sufficient capacity to contain along with volume required for containers.		40 *CFR* 264.175(b)(4) *OAC* 3745-55-75(B)(4)
	• Spilled or leaked waste and accumulated precipitation must be removed from the sump or collection area in as timely a manner as is necessary to prevent overflow.		40 *CFR* 264.175(b)(5) *OAC* 3745-55-75(B)(5)
Storage of incompatible waste in containers	Containers holding ignitable or reactive waste must be located at least 15 m (50 ft) from the facility's property line.	Storage of ignitable or reactive RCRA hazardous waste in containers—**applicable**	40 *CFR* 264.176 *OAC* 3745-55-76
	Must not place incompatible wastes in same container unless comply with 40 *CFR* 264.17(b) [*OAC* 3745-54-17(B)].	Storage of "incompatible" RCRA hazardous wastes in containers—**applicable**	40 *CFR* 264.177(a) *OAC* 3745-55-77(A)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Storage of incompatible waste in containers (continued)	Waste shall not be placed in an unwashed container that previously held an incompatible waste or material.		40 *CFR* 264.177(b) *OAC* 3745-55-77(B)
	A container holding incompatible wastes must be separated from any waste or nearby materials or must protect them from one another by using a dike, berm, wall, or other device.		40 *CFR* 264.177(c) *OAC* 3745-55-77(C)
Temporary storage or treatment of hazardous waste in tanks	Assess tank systems integrity as detailed in 40 *CFR* 264.191 [*OAC* 3745-55-91] and ensure that existing and new tanks have sufficient structural strength that is compatible with the waste to prevent collapse or rupture.	Storage of RCRA hazardous waste in a tank (any portable device in which a material is stored, transported, or disposed of or handled) for a period greater than 90 days before treatment, disposal, or storage elsewhere—**applicable**	40 *CFR* 264.191 *OAC* 3745-55-91
	Design and install tanks and tank systems in accordance with specifications detailed in 40 *CFR* 264.192 [*OAC* 3745-55-92].		40 *CFR* 264.192 *OAC* 3745-55-92
	Provide tanks with secondary containment leak detection system controls in accordance with 40 *CFR* 264.193 [*OAC* 3745-55-93].		40 *CFR* 264.193 *OAC* 3745-55-93
	Operate tanks and tank systems in accordance with the general operating requirements detailed in 40 *CFR* 264.194 [*OAC* 3745-55-94].		40 *CFR* 264.194 *OAC* 3745-55-94
	Must inspect tanks and tank systems in accordance with the schedules detailed in 40 *CFR* 264.195 [*OAC* 3745-55-95].		40 *CFR* 264.195 *OAC* 3745-55-95
	Respond to any leaks or spills from tanks systems in accordance with the response actions detailed in 40 *CFR* 264.196 [*OAC* 3745-55-96] and remove unfit tanks from further use.		40 *CFR* 264.196 *OAC* 3745-55-96
	Presents general precautions to be taken to prevent accidental ignition or reaction of ignitable or reactive wastes that are treated or stored in tanks.	Storage of ignitable or reactive hazardous wastes in tanks—**applicable**	40 *CFR* 264.198 *OAC* 3745-55-98
	Presents general precautions to be taken when dealing with incompatible wastes treated or stored in tanks.	Storage of incompatible hazardous wastes in tanks—**applicable**	40 *CFR* 264.199 *OAC* 3745-55-99

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage or treatment of hazardous waste in tanks (continued)	Less stringent minimum technology requirements may be applied to tanks designated as TUs. Protection of human health and the environment must be ensured.	Management of RCRA or CERCLA remediation wastes in tanks designated as TUs—**applicable**	40 *CFR* 264.553 *OAC* 3745-57-73
Temporary storage of RCRA remediation waste in a staging pile	May be temporarily stored (including mixing, sizing, blending, or other similar physical operations intended to prepare the wastes for subsequent management or treatment) at a facility provided that the staging pile:	Accumulation of nonflowing hazardous remediation waste (or remediation waste otherwise subject to land disposal restrictions) as defined in 40 *CFR* 260.10 (*OAC* 3745-50-10)—**applicable**	40 *CFR* 264.554 *OAC* 3745-57-74
	• Is located within the contiguous property under the control of the owner/operator where the wastes to be managed in the staging pile originated. Staging piles must be designated by the director.		40 *CFR* 264.554(a) *OAC* 3745-57-74(A)
	• Staging piles may be used to store hazardous remediation waste (or remediation waste otherwise subject to land disposal restrictions) if the standards and design criteria are followed that the director has designated for that staging pile.		40 *CFR* 264.554(b) *OAC* 3745-57-74(B)
	• Knowledge of the waste pile must be sufficient to establish the required standards		40 *CFR* 264.554(c) *OAC* 3745-57-74(C)
	Staging pile must be designed to: • Facilitate a reliable, effective, and protective remedy		40 *CFR* 264.554(d)(1)(i) *OAC* 3745-57-74(D)(1)(a)
	• Prevent or minimize releases of hazardous wastes and constituents into the environment and minimize or adequately control cross-media transfer, as necessary, to protect human health and the environment (e.g., through the use of liners, covers, run-on/runoff controls, as appropriate).		40 *CFR* 264.554(d)(1)(ii) *OAC* 3745-57-74(D)(1)(b)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage of RCRA remediation waste in a staging pile (continued)	• The staging pile must not operate for more than 2 years, except when the director grants an operating term extension. The 2-year limit, or other operating term specified by the director in the permit, closure plan, or order, is measured from the first time remediation waste is placed into a staging pile. Must maintain a record of the date when remediation waste is first placed into the staging pile for the life of the permit, closure plan, or order, or for 3 years, whichever is longer.		40 *CFR* 264.554(d)(1)(iii) *OAC* 3745-57-74(D)(1)(c)
	In setting the design standards for staging piles, the director will consider the following factors:		40 *CFR* 264.554(d)(2) *OAC* 3745-57-74(D)(2)
	• Length of time the pile will be in operation • Volumes of wastes you intend to store in the pile • Physical and chemical characteristics of the wastes to be stored in the unit; • Potential for releases from the unit; • Hydrogeological and other relevant environmental conditions at the facility that may influence the migration of any potential releases; and • Potential for human and environmental exposure to potential releases from the unit.		
Storage of ignitable or reactive waste in a staging pile	Must not place ignitable or reactive remediation waste in a staging pile unless:	Storage of ignitable or reactive remediation waste in staging pile—**applicable**	40 *CFR* 264.554(e) *OAC* 3745-57-74(E)
	• Waste has been treated, rendered, or mixed before it was placed in the staging pile so that the waste is no longer ignitable or reactive under §261.21 or §261.31 (*OAC* 3745-52-21 or 52-31), and 40 *CFR* 264.17(b) [*OAC* 3745-54-17(B)] has been complied with; or		40 *CFR* 264.554(e)(i) *OAC* 3745-57-74(E)(1)
	• Remediation waste is managed to protect it from exposure to any material or condition that may cause it to ignite or react.		40 *CFR* 264.554(e)(ii) *OAC* 3745-57-74(E)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Storage of incompatible waste in a staging pile	Must not place incompatible wastes in same pile unless comply with 40 *CFR* 264.17(b) [*OAC* 3745-54-17(B)].	Storage of "incompatible" remediation waste in staging pile—**applicable**	40 *CFR* 264.554(f)(1) *OAC* 3745-57-74(F)(1)
	Incompatible wastes must be separated from any waste or nearby materials or must protect them from one another by using a dike, berm, wall, or other device.		40 *CFR* 264.554(f)(2) *OAC* 3745-57-74(F)(2)
	Must not pile remediation waste on the same base where incompatible wastes or materials were previously piled, unless the base has been decontaminated sufficiently to comply with 40 *CFR* 274.17(b) [*OAC* 3745-54-17(B)].		40 *CFR* 264.554(f)(3) *OAC* 3745-57-74(F)(3)
	Placing hazardous remediation wastes into a staging pile does not constitute land disposal of hazardous waste or create a unit that is subject to the minimum technological requirements of Section 3004(o) of RCRA.	Placement of hazardous remediation wastes into a staging pile—**applicable**	40 *CFR* 264.554(g) *OAC* 3745-57-74(G)
	A staging pile may operate for up to 2 years after hazardous remediation waste is first placed into the pile.		40 *CFR* 264.554(h) *OAC* 3745-57-74(H)
	The director may grant one operating term extension of up to 180 days beyond the operating term limit allowed under 40 *CFR* 264.554(h) [*OAC* 3745-57-74(H)] if he determines that continued operation of the staging pile will not pose a threat to human health and the environment; and that it is necessary to ensure timely and efficient implementation of remedial actions at the facility. The director may, as a condition of the extension, specify further standards and design criteria, as necessary, to ensure protection of human health and the environment.		40 *CFR* 264.554(i) *OAC* 3745-57-74(I)
	To modify a closure plan to incorporate a staging pile or staging pile operating term extension, must follow the applicable requirements under §264.112(c) or §265.112(c) [*OAC* 3745-55-12(C) or *OAC* 3745-66-12(C)]. To modify an order to incorporate a staging pile or staging pile operating term extension, must follow the terms of the order.		40 *CFR* 264.554(l)(3) and (4) *OAC* 3745-57-74(L)(3) and (4)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage or treatment of hazardous waste in waste piles - applicability	*OAC* 3745-56-50 to 3745-56-59 applies to owners and operators of facilities that store or treat hazardous waste in piles, except as *OAC* 3745-54-01 provides otherwise.	Storage of RCRA hazardous waste in a waste pile—**applicable**	40 *CFR* 264.250(a) *OAC* 3745-56-50(A)
	OAC 3745-56-50 to 3745-56-59 does not apply to owners or operators of waste piles that are closed with wastes left in place. Such waste piles are subject to regulation as landfills under *OAC* 3745-57-02 to 3745-57-17.		40 *CFR* 264.250(b) *OAC* 3745-56-50(B)
	Owner or operator of any waste pile that is inside or under a structure that provides protection from precipitation so that neither run-off nor leachate is generated is not subject to regulation under *OAC* 3745-56-51 or *OAC* 3745-54-90 to 3745-54-101, provided that: • Liquids or materials containing free liquids are not placed in the pile; and • Pile is protected from surface water run-on by the structure or in some other manner; and • Pile is designed and operated to control dispersal of the waste by wind, where necessary, by means other than wetting; and • Pile will not generate leachate through decomposition or other reactions.		40 *CFR* 264.250(c) *OAC* 3745-56-50(C)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage or treatment of hazardous waste in waste piles – design and operating requirements	A waste pile (except for an existing portion of a waste pile) must have:	Storage of RCRA hazardous waste in a waste pile—**applicable**	40 *CFR* 264.251(a) *OAC* 3745-56-51(A)
	(1) A liner that is designed, constructed, and installed to prevent any migration of wastes out of the pile into the adjacent subsurface soil or ground water or surface water at any time during the active life (including the closure period) of the waste pile. The liner may be constructed of materials that may allow waste to migrate into the liner itself (but not into the adjacent subsurface soil or ground water or surface water) during the active life of the facility. The liner must be:		40 *CFR* 264.251(a)(1) *OAC* 3745-56-51(A)(1)
	• Constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients (including static head and external hydrogeologic forces), physical contact with the waste or leachate to which they are exposed, climate conditions, the stress of installation, and the stress of daily operation; and		40 *CFR* 264.251(a)(1)(i) *OAC* 3745-56-51(A)(1)(a)
	• Placed upon a foundation or base capable of providing support to the liner and resistance to pressure gradients above and below the liner to prevent failure of liner due to settlement, compression, or uplift; and		40 *CFR* 264.251(a)(1)(ii) *OAC* 3745-56-51(A)(1)(b)
	• Installed to cover all surrounding earth likely to be in contact with the waste or leachate; and		40 *CFR* 264.251(a)(1)(iii) *OAC* 3745-56-51(A)(1)(c)
	(2) A leachate collection and removal system immediately above the liner that is designed, constructed, maintained, and operated to collect and remove leachate from the pile. Design and operating conditions will be specified to ensure that the leachate depth over the liner does not exceed 30 cm (1 ft). The leachate collection and removal system must be:		40 *CFR* 264.251(a)(2) *OAC* 3745-56-51(A)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage or treatment of hazardous waste in waste piles – design and operating requirements (continued)	• Constructed of materials that are: (i) chemically resistant to waste managed in the pile and the leachate expected to be generated; and (ii) of sufficient strength and thickness to prevent collapse under the pressures exerted by overlaying wastes, waste cover materials, and by any equipment used at the pile; and		40 *CFR* 264.251(a)(2)(i) *OAC* 3745-56-51(A)(2)(a)
	• Designed and operated to function without clogging through the scheduled closure of the waste pile.		40 *CFR* 264.251(a)(2)(ii) *OAC* 3745-56-51(A)(2)(b)
	The owner or operator will be exempted from the requirements of *OAC* 3745-56-51(A) if the Director finds, based on a demonstration by the owner or operator, that alternate design and operating practices, together with location characteristics, will prevent the migration of any hazardous constituents into the ground water or surface water at any future time. In deciding whether to grant an exemption, the Director will consider the factors listed in *OAC* 3745-56-51(B)(1) through (4).		40 *CFR* 264.251(b) *OAC* 3745-56-51(B)
	The owner or operator of each new waste pile unit, each lateral expansion of a waste pile unit, and each replacement of an existing waste pile unit must install two or more liners and a leachate collection and removal system above and between such liners.		40 *CFR* 264.251(c) *OAC* 3745-56-51(C)
	The liner system must include: • A top liner designed and constructed of materials (e.g., a geomembrane) to prevent the migration of hazardous constituents into such liner during the active life and post-closure care period; and		40 *CFR* 264.251(c)(1)(i)(A) *OAC* 3745-56-51(C)(1)(a)(i)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage or treatment of hazardous waste in waste piles – design and operating requirements (continued)	• A composite bottom liner consisting of at least two components. The upper component must be designed and constructed of materials (e.g., a geomembrane) to prevent the migration of hazardous constituents into this component during the active life and post-closure care period. The lower component must be designed and constructed of materials to minimize migration of hazardous constituents if a breach in the upper component were to occur. Lower component must be constructed of at least 3 ft (91.0 cm) of compacted soil material with a hydraulic conductivity of no more than 1 x 10-7 cm/s.		40 *CFR* 264.251(c)(1)(i)(B) *OAC* 3745-56-51(C)(1)(a)(ii)
	The liners must comply with paragraphs (A)(1)(a), (A)(1)(b), and (A)(1)(c) of *OAC* 3745-56-51.		40 *CFR* 264.251(c)(1)(ii) *OAC* 3745-56-51(C)(1)(b)
	The leachate collection and removal system immediately above the top liner must be designed, constructed, operated, and maintained to collect and remove leachate from the waste pile during the active life and post-closure care period. Design and operating conditions will be specified to ensure that the leachate depth over the liner does not exceed 30 cm (1 ft). The leachate collection and removal system must comply with *OAC* 3745-56-51(C)(3)(c) and (C)(3)(d).		40 *CFR* 264.251(c)(2) *OAC* 3745-56-51(C)(2)
	The leachate collection and removal system between the liners, and immediately above the bottom composite liner in the case of multiple leachate collection and removal systems, is also a leak detection system. This leak detection system must be capable of detecting, collecting, and removing leaks of hazardous constituents at the earliest practicable time through all areas of the top liner likely to be exposed to waste or leachate during the active life and post-closure care period. The requirements for a leak detection system in this paragraph are satisfied by installation of a system that is, at a minimum:		40 *CFR* 264.251(c)(3) *OAC* 3745-56-51(C)(3)
	• Constructed with a bottom slope of 1 percent or more;		40 *CFR* 264.251(c)(3)(i) *OAC* 3745-56-51(C)(3)(a)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage or treatment of hazardous waste in waste piles – design and operating requirements (continued)	• Constructed of granular drainage materials with a hydraulic conductivity of 1×10^{-2} cm/s or more and a thickness of 12 in. (30.5 cm) or more; or constructed of synthetic or geonet drainage materials with a transmissivity of 3×10^{-5} m^2/s or more;		40 *CFR* 264.251(c)(3)(ii) *OAC* 3745-56-51(C)(3)(b)
	• Constructed of materials that are chemically resistant to the waste managed in the waste pile and the leachate expected to be generated, and of sufficient strength and thickness to prevent collapse under the pressures exerted by overlying wastes, waste cover materials, and equipment used at the waste pile;		40 *CFR* 264.251(c)(3)(iii) *OAC* 3745-56-51(C)(3)(c)
	• Designed and operated to minimize clogging during the active life and post-closure period; and		40 *CFR* 264.251(c)(3)(iv) *OAC* 3745-56-51(C)(3)(d)
	• Constructed with sumps and liquid removal methods of sufficient size to collect and remove liquids from sump and prevent liquids from backing up into drainage layer. Each unit must have its own sump(s). Design of each sump and removal system must provide a method for measuring and recording volume of liquids present in sump and of liquids removed.		40 *CFR* 264.251(c)(3)(v) *OAC* 3745-56-51(C)(3)(e)
	The owner or operator must collect and remove pumpable liquids in the leak detection system sumps to minimize the head on the bottom liner.		40 *CFR* 264.251(c)(4) *OAC* 3745-56-51(C)(4)
	The owner or operator of a leak detection system that is not located completely above the seasonal high water table must demonstrate that the operation of the leak detection system will not be adversely affected by the presence of ground water.		40 *CFR* 264.251(c)(5) *OAC* 3745-56-51(C)(5)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage or treatment of hazardous waste in waste piles – design and operating requirements (continued)	The Director may approve alternative design or operating practices if the owner or operator demonstrates that such design and operating practices, together with location characteristics: (1) will prevent the migration of any hazardous constituent into the ground water or surface water at least as effectively as the liners and leachate collection and removal systems specified in this rule; and (2) will allow detection of leaks of hazardous constituents through the top liner at least as effectively.		40 *CFR* 264.251(d) *OAC* 3745-56-51(D)
	The owner or operator must design, construct, operate, and maintain a run-on control system capable of preventing flow onto the active portion of the pile during peak discharge from at least a 25-year storm.		40 *CFR* 264.251(g) *OAC* 3745-56-51(G)
	The owner or operator must design, construct, operate, and maintain a run-off management system to collect and control at least the water volume resulting from a 24-hour, 25-year storm.		40 *CFR* 264.251(h) *OAC* 3745-56-51(H)
	Collection and holding facilities (e.g., tanks or basins) associated with run-on and run-off control systems must be emptied or otherwise managed expeditiously after storms to maintain design capacity of the system.		40 *CFR* 264.251(i) *OAC* 3745-56-51(I)
	If the pile contains any particulate matter which may be subject to wind dispersal, the owner or operator must cover or otherwise manage the pile to control wind dispersal.		40 *CFR* 264.251(j) *OAC* 3745-56-51(J)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Temporary storage or treatment of hazardous waste in waste piles – action leakage rate	The Director will approve an action leakage rate for waste piles subject to *OAC* 3745-56-51(C) or (D). The action leakage rate is the maximum design flow rate that the leak detection system can remove without the fluid head on the bottom liner exceeding 1 ft. The action leakage rate must include an adequate safety margin to allow for uncertainties in the design (e.g., slope, hydraulic conductivity, thickness of drainage material), construction, operation, and location of the leak detection system, waste and leachate characteristics, likelihood and amounts of other sources of liquids in the leak detection system, and proposed response actions (e.g., the action leakage rate must consider decreases in the flow capacity of the system over time resulting from siltation and clogging, rib layover and creep of synthetic components of the system, overburden pressures, etc.).	Storage of RCRA hazardous waste in a waste pile—**applicable**	40 *CFR* 264.252(a) *OAC* 3745-56-52(A)
	To determine if the action leakage rate has been exceeded, the owner or operator must convert the weekly flow rate from the monitoring data obtained under paragraph (C) of *OAC* 3745-56-54 to an average daily flow rate (gal/acre/day) for each sump. Unless the Director approves a different calculation, the average daily flow rate for each sump must be calculated weekly during the active life and closure period.		40 *CFR* 264.252(b) *OAC* 3745-56-52(B)
Temporary storage or treatment of hazardous waste in waste piles – response actions	The owner or operator of waste pile units subject to paragraph (C) or (D) of *OAC* 3745-56-51 must have an approved response action plan before receipt of waste. The response action plan must set forth the actions to be taken if the action leakage rate has been exceeded. At a minimum, the response action plan must describe the actions specified in *OAC* 3745-56-53(B).	Storage of RCRA hazardous waste in a waste pile—**applicable**	40 *CFR* 264.253(a) *OAC* 3745-56-53(A)
	If the flow rate into the leak detection system exceeds the action leakage rate for any sump, owner or operator must: • Notify the director in writing of the exceedance within 7 days of the determination;		40 *CFR* 264.253(b)(1) – (6) *OAC* 3745-56-53(B)(1) – (6)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Temporary storage or treatment of hazardous waste in waste piles – response actions (continued)	• Submit a preliminary written assessment to the Director within 14 days of the determination, as to the amount of liquids, likely sources of liquids, possible location, size, and cause of any leaks, and short-term actions taken and planned; • Determine to the extent practicable the location, size, and cause of any leak; • Determine whether waste receipt should cease or be curtailed, whether any waste should be removed from the unit for inspection, repairs, or controls, and whether or not the unit should be closed; • Determine any other short-term and long-term actions to be taken to mitigate or stop any leaks; and • Within 30 days after notification that the action leakage rate has been exceeded, submit to the Director the results of the analyses specified in paragraphs (B)(3), (B)(4), and (B)(5) of this rule, the results of actions taken, and actions planned. Monthly thereafter, as long as the flow rate in the leak detection system exceeds the action leakage rate, the owner or operator must submit a report summarizing the results of any remedial actions taken and actions planned.		
	To make the leak and/or remediation determinations in *OAC* 3745-56-53(B)(3), (B)(4), and (B)(5), the owner or operator must: • Assess the source of liquids and amounts of liquids by source; • Conduct fingerprint, hazardous constituent, or other analyses of liquids in the leak detection system to identify the source of liquids and possible location of any leaks, and the hazard and mobility of the liquid; and		40 *CFR* 264.253(c)(1)(i) – (iii) *OAC* 3745-56-53(C)(1)(a) – (c)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage or treatment of hazardous waste in waste piles – response actions (continued)	• Assess the seriousness of any leaks in terms of potential for escaping into the environment; or		
	Document why such assessments are not needed.		40 *CFR* 264.253(c)(2) *OAC* 3745-56-53(C)(2)
Temporary storage or treatment of hazardous waste in waste piles – monitoring and inspections	During construction or installation, liners and cover systems (e.g., membranes, sheets, or coatings) must be inspected for uniformity, damage, and imperfections (e.g., holes, cracks, thin spots, or foreign materials). Immediately after construction or installation:	Storage of RCRA hazardous waste in a waste pile—**applicable**	40 *CFR* 264.254(a) *OAC* 3745-56-54(A)
	• Synthetic liners and covers must be inspected to ensure tight seams and joints and the absence of tears, punctures, or blisters; and		40 *CFR* 264.254(a)(1) *OAC* 3745-56-54(A)(1)
	• Soil-based and admixed liners and covers must be inspected for imperfections including lenses, cracks, channels, root holes, or other structural non-uniformities that may cause an increase in the permeability of the liner or cover.		40 *CFR* 264.254(a)(2) *OAC* 3745-56-54(A)(2)
	While a waste pile is in operation, it must be inspected weekly and after storms to detect evidence of any of the following:		40 *CFR* 264.254(b) *OAC* 3745-56-54(B)
	• Deterioration, malfunctions, or improper operation of run-on and run-off control systems; and		40 *CFR* 264.254(b)(1) *OAC* 3745-56-54(B)(1)
	• Proper functioning of wind dispersal control systems, where present; and		40 *CFR* 264.254(b)(2) *OAC* 3745-56-54(B)(2)
	• The presence of leachate in and proper functioning of leachate collection and removal systems, where present.		40 *CFR* 264.254(b)(3) *OAC* 3745-56-54(B)(3)
	An owner or operator required to have a leak detection system under *OAC* 3745-56-51(C) must record the amount of liquids removed from each leak detection system sump at least once each week during the active life and closure period.		40 *CFR* 264.254(c) *OAC* 3745-56-54(C)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage or treatment of hazardous waste in waste piles – special requirements for ignitable or reactive waste	Ignitable or reactive waste shall not be placed in a waste pile unless the waste and the waste pile satisfy all applicable requirements of *OAC* 3745-270, and:	Storage of RCRA hazardous waste in a waste pile—**applicable**	40 *CFR* 264.256 *OAC* 3745-56-56
	• Addition of the waste to an existing pile results in waste or mixture no longer meeting the definition of ignitable or reactive waste under *OAC* 3745-51-21 or 3745-51-23 and complies with *OAC* 3745-54-17(B); or		40 *CFR* 264.256(a) *OAC* 3745-56-56(A)
	• The waste is managed in such a way that it is protected from any material or conditions which may cause it to ignite or react.		40 *CFR* 264.256(b) *OAC* 3745-56-56(B)
Temporary storage or treatment of hazardous waste in waste piles – special requirements for incompatible waste	Incompatible wastes, or incompatible wastes and materials (see the appendix to *OAC* 3745-55-99 for examples), shall not be placed in the same pile, unless *OAC* 3745-54-17(B) is complied with.	Storage of RCRA hazardous waste in a waste pile—**applicable**	40 *CFR* 264.257(a) *OAC* 3745-56-57(A)
	A pile of hazardous waste that is incompatible with any waste or other material stored nearby in other containers, piles, open tanks, or surface impoundments shall be separated from the other materials, or protected from them by means of a dike, berm, wall or other device.		40 *CFR* 264.257(b) *OAC* 3745-56-57(B)
	Hazardous waste shall not be piled on the same base where incompatible wastes or materials were previously piled unless the base has been decontaminated sufficiently to ensure compliance with *OAC* 3745-54-17(B).		40 *CFR* 264.257(c) *OAC* 3745-56-57(C)
Temporary storage or treatment of hazardous waste in waste piles – closure and post-closure care	At closure, the owner or operator must remove or decontaminate all waste residues, contaminated containment system components (liners, etc.), contaminated subsoils, and structures and equipment contaminated with waste and leachate, and manage them as hazardous waste unless *OAC* 3745-51-03(D) applies.	Storage of RCRA hazardous waste in a waste pile—**applicable**	40 *CFR* 264.258(a) *OAC* 3745-56-58(A)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Temporary storage or treatment of hazardous waste in waste piles – closure and post-closure care (continued)	If, after removing or decontaminating all residues and making all reasonable efforts to effect removal or decontamination of contaminated components, subsoils, structures, and equipment as required in paragraph (A) of this rule, the owner or operator finds that not all contaminated subsoils can be practicably removed or decontaminated, he must close the facility and perform post-closure care in accordance *OAC* 3745-57-10.		40 *CFR* 264.258(b) *OAC* 3745-56-58(B)
	The owner or operator of a waste pile that does not comply with the liner requirements of *OAC* 3745-56-51(A)(1) and is not exempt from them in accordance with *OAC* 3745-56-50(C) or *OAC* 3745-56-51(B) must:		40 *CFR* 264.258(c)(1) *OAC* 3745-56-58(C)(1)
	Include in the closure plan for the pile in accordance with *OAC* 3745-55-12 both a plan for complying with paragraph (A) of this rule and a contingent plan for complying with paragraph (B) of this rule in case not all contaminated subsoils can be practicably removed at closure; and		40 *CFR* 264.258(c)(1)(i) *OAC* 3745-56-58(C)(1)(a)
	Prepare a contingent post-closure plan in accordance with *OAC* 3745-55-18 for complying with paragraph (B) of this rule in case not all contaminated subsoils can be practicably removed at closure.		40 *CFR* 264.258(c)(1)(ii) *OAC* 3745-56-58(C)(1)(b)
	Cost estimates calculated in accordance with *OAC* 3745-55-42 and 3745-55-44 for closure and post-closure care of a pile subject to this paragraph must include the cost of complying with the contingent closure plan and the contingent post-closure plan but are not required to include the cost of expected closure under paragraph (A) of this rule.		40 *CFR* 264.258(c)(2) *OAC* 3745-56-58(C)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
	Hazardous waste treatment/disposal		
Disposal of RCRA-prohibited hazardous waste in a land-based unit	May be land disposed only if it meets the applicable requirements in the table "Treatment Standards for Hazardous Waste" at 40 *CFR* 268.40 (*OAC* 3745-270-40) before land disposal. The table lists either "total waste" standards, "waste-extract" standards, or "technology-specific" standards [as detailed further in 40 *CFR* 268.42 (*OAC* 3745-270-42)].	Land disposal, as defined in 40 *CFR* 268.2, of RCRA prohibited waste [as listed in 40 *CFR* 268.20 to .39 (*OAC* 3745-270-20 to -39)]—**applicable**	40 *CFR* 268.40(a) *OAC* 3745-270-40(A) 40 *CFR* 268.30 to 268.40 *OAC* 3745-270-30 to -40 40 *CFR* 268.42 *OAC* 3745-270-42
	For characteristic wastes (D001 – D043) that are subject to the treatment standards, all underlying hazardous constituents must meet the UTSs specified in 40 *CFR* 268.48 (*OAC* 3745-270-48).	Land disposal of restricted RCRA characteristic wastes (D001-D043) that are not managed in a wastewater treatment unit that is regulated under the CWA or is CWA equivalent, or that are injected into a Class I nonhazardous injection well—**applicable**	40 *CFR* 268.40(e) *OAC* 3745-270-40(E) 40 *CFR* 268.48 *OAC* 3745-270-48
	May be land disposed if the wastes no longer exhibit a characteristic at the point of land disposal, unless the wastes are subject to a specified method of treatment other than DEACT in 40 *CFR* 628.40 (*OAC* 3745-270-48), or are D003 reactive cyanide.	Land disposal of RCRA-restricted characteristic wastes—**applicable**	40 *CFR* 268.1(c)(4)(iv) *OAC* 3745-270-01 (C)(4)
Debris	May be land disposed if treated prior to disposal as provided under the "Alternative Treatment Standards for Hazardous Debris" in 40 *CFR* 268.45(a)(1)-(5) [*OAC* 3745-270-45(A) (1)-(5)] unless it is determined under 40 *CFR* 261.3(f)(2) [*OAC* 3745-51-03(F)(2)] that the debris is no longer contaminated with hazardous waste <u>or</u> the debris is treated to the waste specific treatment standard provided in 40 *CFR* 268.40 (*OAC* 3745-270-40) for the waste contaminating the debris.	Land disposal, as defined in 40 *CFR* 268.2 (*OAC* 3745-270-02), of RCRA-restricted hazardous debris—**applicable**	40 *CFR* 268.45(a) *OAC* 3745-270-45(A)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Disposal of RCRA-prohibited hazardous waste in a land-based unit (continued)	The hazardous debris must be treated for each "contaminant subject to treatment," which must be determined in accordance with 40 *CFR* 268.45(b) [*OAC* 3745-270-45(B)].		40 *CFR* 268.45(b) *OAC* 3745-270-45(B)
Soils	May be land disposed if treated prior to disposal according to the alternative treatment standards of 40 *CFR* 268.49(c) [*OAC* 3745-270-49(C)] or according to the UTSs specified in 40 *CFR* 268.48 (*OAC* 3745-270-48) applicable to the listed hazardous waste and/or applicable characteristic of hazardous waste if the soil is characteristic.	Land disposal, as defined in 40 *CFR* 268.2 (*OAC* 3745-270-02), of RCRA-restricted hazardous waste and soils —**applicabl**e	40 *CFR* 268.49(b) and (c) *OAC* 3745-270-49(B) and (C)
Variance from a treatment standard for RCRA restricted hazardous wastes	A variance from a treatment standard may be used if it is: • Not physically possible to treat the waste to the level specified in the treatment standard, or by the method specified as the treatment standard, or • Inappropriate to require the waste to be treated to the level specified in the treatment standard or by the method specified as the treatment standard even though such treatment is technically possible. *NOTE:* Variance approval will be granted through the DFF&O document approval process and included in the appropriate DFF&O document.	Generation of a RCRA hazardous waste requiring treatment prior to land disposal—**applicable**	40 *CFR* 268.44 *OAC* 3745-270-44
Disposal of treated hazardous debris	Debris treated by one of the specified extraction or destruction technologies on Table 1 of this section and which no longer exhibits a characteristic is not a hazardous waste and need not be managed in RCRA Subtitle C facility. Hazardous debris contaminated with listed waste that is treated by an immobilization technology must be managed in a RCRA Subtitle C facility.	Treated debris contaminated with RCRA-listed or characteristic waste—**applicable**	40 *CFR* 268.45(c) *OAC* 3745-270-45(C)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Disposal of hazardous debris treatment residues	Except as provided in 40 *CFR* 268.45(d)(2) and (d)(4) [*OAC* 3745-270-45(D)(2) and (D)(4)], treatment residues must be separated from the treated debris using simple physical or mechanical means, and such residues are subject to the waste-specific treatment standards for the waste contaminating the debris. Layers of debris removed by spalling are hazardous debris that remain subject to the treatment standards.	Residues from the treatment of hazardous debris—**applicable**	40 *CFR* 268.45(d)(1) – (5) *OAC* 3745-270-45(D)(1) – (5)
Prohibition of dilution to meet LDRs	Except as provided under 40 *CFR* 268.3(b) [*OAC* 3745-270-03(B)], must not in any way dilute a restricted waste or the residual from treatment of a restricted waste as a substitute for adequate treatment to achieve compliance with land disposal restriction levels.	Land disposal, as defined in 40 *CFR* 268.2 (*OAC* 3745-270-02), of RCRA-restricted hazardous waste—**applicabl**e	40 *CFR* 268.3(a) *OAC* 3745-270-03(A)
	It is a form of impermissible dilution, and therefore prohibited, to add iron filings or other metallic forms of iron to lead-containing hazardous wastes in order to achieve any land disposal restriction treatment standard for lead.		*OAC* 3745-270-03(D)
Disposal requirements for particular RCRA waste forms and types	Must not be placed in a landfill unless the waste and the landfill meet applicable provisions of 40 *CFR* 268 and: • The resulting waste, mixture, or dissolution of material no longer is reactive or ignitable. • 40 *CFR* 264.17(b) [*OAC* 3745-54-17(B)] is complied with.	Disposal of ignitable or reactive RCRA waste**—applicable**	40 *CFR* 264.312(a) *OAC* 3745-57-12(A)
	May be landfilled without meeting 40 *CFR* 264.312(a) [*OAC* 3745-57-12(A)], provided wastes are disposed of in such a way that they are protected from any materials or conditions which may cause them to ignite; Must be disposed of in nonleaking containers which are carefully handled and placed to avoid heat, sparks, rupture, or any other condition that might cause ignition of the wastes;	Disposal of ignitable or reactive RCRA waste [except for prohibited wastes which remain subject to treatment standards in 40 *CFR* 268.40 *et seq.*]—**applicable**	40 *CFR* 264.312(b) *OAC* 3745-57-12(B)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Disposal requirements for particular RCRA waste forms and types (continued)	Must be covered daily with soil or other noncombustible material to minimize the potential of ignition;		
	Must not be disposed of in cells that contain or will contain other wastes which may generate heat sufficient to cause ignition of the waste and		
	Must not be placed into a cell unless 40 *CFR* 264.17(b) [*OAC* 3745-54-17(B)] is complied with.	Disposal of incompatible wastes in a RCRA landfill—**applicable**	40 *CFR* 264.313 *OAC* 3745-57-13
Disposal of bulk or containerized hazardous liquids	The placement of bulk or noncontainerized liquid hazardous waste or hazardous waste containing free liquids (whether or not sorbents have been added) in any landfill is prohibited.	Placement of bulk or containerized hazardous waste liquids in a landfill—**applicable**	40 *CFR* 264.314(a) *OAC* 3745-57-14(A)
	Must use the Paint Filter Liquids Test to demonstrate the absence or presence of free liquids in either a containerized or a bulk waste.		40 *CFR* 264.314(b) *OAC* 3745-57-14(B)
	Containers holding free liquids must not be placed in a landfill, unless:		40 *CFR* 264.314(c) *OAC* 3745-57-14(C)
	• All free-standing liquid has been removed by decanting, or other methods; or has been mixed with sorbent or solidified so that free-standing liquid is no longer observed; or has been otherwise eliminated; or		40 *CFR* 264.314(c)(1) *OAC* 3745-57-14(C)(1)
	• Container is very small, such as an ampule; or		40 *CFR* 264.314(c)(2) *OAC* 3745-57-14(C)(2)
	• Container is designed to hold free liquids for use other than storage, such as a battery or capacitor or		40 *CFR* 264.314(c)(3) *OAC* 3745-57-14(C)(3)
	• Container is a lab pack as defined in 40 *CFR* 264.316 [*OAC* 3745-57-16] and is disposed of in accordance with 40 *CFR* 264.316 [*OAC* 3745-57-16].		40 *CFR* 264.314(c)(4) *OAC* 3745-57-14(C)(4)
	Sorbents used to treat free liquids to be disposed of in landfills must be nonbiodegradable as described in 40 *CFR* 264.314(d)(1) [*OAC* 3745-57-14(D)(1)].		40 *CFR* 264.314(d) *OAC* 3745-57-14(D)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Disposal of bulk or containerized hazardous liquids (continued)	The placement of any liquid which is not a hazardous waste in a landfill is prohibited unless it is demonstrated that the only reasonably available alternative is placement in a landfill or unlined surface impoundment which contains or may contain hazardous waste and such placement will not present a risk of contamination of any underground source of drinking water.		40 *CFR* 264.314(e) *OAC* 3745-57-14(E)
	Unless they are very small, containers must be either at least 90% full when placed in the landfill, or crushed, shredded, or similarly reduced in volume to the maximum practical extent before burial in the landfill.		40 *CFR* 264.315 *OAC* 3745-57-15
	Small containers of hazardous waste in overpacked drums (lab packs) may be placed in a landfill if the requirements of this section are met.		40 *CFR* 264.316 *OAC* 3745-57-16
Disposal of hazardous wastes F020, F021, F022, F023, F026, and F027 listed wastes	Disposal of F020, F021, F022, F023, F026, and F027 wastes in a hazardous waste landfill is not permitted unless comply with the substantive requirements for waste management of 40 *CFR* 264.317 [*OAC* 3745-57-17].	Disposal of hazardous wastes F020, F021, F022, F023, F026, and F027—**applicable**	40 *CFR* 264.317 *OAC* 3745-57-17
Treatment and disposal of ignitable, reactive, or incompatible RCRA wastes	Must take precautions to prevent accidental ignition or reaction of waste, and waste must be separated and protected from sources of ignition or reaction.	Operation of a RCRA facility that treats, stores, or disposes of ignitable, reactive, or incompatible wastes—**applicable**	40 *CFR* 264.17(a) *OAC* 3745-54-17(A)
	Must take precautions to prevent reactions that: • Generate extreme heat, pressure, fire or explosion, or violent reactions • Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health or the environment • Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions • Damage the structural integrity of the device or facility • Through other like means threaten human health or the environment.		40 *CFR* 264.17(b) *OAC* 3745-54-17(B)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
	Closure of treatment or storage units		
Closure performance standard for RCRA hazardous waste management units	Must close the facility in a manner that: • Minimizes the need for further maintenance and	Closure of a RCRA hazardous waste management unit—**applicable**	40 *CFR* 264.111(a) *OAC* 3745-55-11(A)
	• Controls, minimizes, or eliminates, to the extent necessary to protect human health and environment, post-closure escape of hazardous waste, hazardous constituents, contaminated runoff, or hazardous waste decomposition products to ground or surface waters or to the atmosphere		40 *CFR* 264.111(b) *OAC* 3745-55-11(B)
	• Complies with the substantive closure requirements of 40 *CFR* 264 [*OAC* 3745-54 to 3745-57 and 3745-205] for particular type of facility including, but not limited to, requirements of Sections 264.178 (container storage area) [*OAC* 3745-55-78], 264.197 (tanks) [*OAC* 3745-55-97], and 264.554 (remediation waste piles) [*OAC* 3745-56-58].		40 *CFR* 264.111(c) *OAC* 3745-55-11(C)
	Must have a closure plan identifying the steps necessary to perform partial and/or final closure of the facility at any point during its active life and must amend the plan as necessary.		40 *CFR* 264.112 *OAC* 3745-55-12
	During the partial and final closure periods, all contaminated equipment, structures, and soils must be properly disposed or decontaminated.	Closure of a RCRA hazardous waste management unit—**applicable**	40 *CFR* 264.114 *OAC* 3745-55-14
Post-closure care of RCRA hazardous waste management unit	Post-closure care in accordance with the substantive requirements of *OAC* 3745-55-17 (A)(1) must begin after closure and continue for at least 30 years after that date. The Director may shorten or extend the post-closure period as indicated to protect human health and the environment.	Closure of a RCRA hazardous waste disposal unit—**applicable**	40 *CFR* 264.117(a)(1) and (2) *OAC* 3745-55-17(A)(1) and (2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Closure of a RCRA container storage unit	Must remove all hazardous waste and residues from containment system. Remaining containers, liners, bases, and soil containing or contaminated with hazardous waste or residues must be decontaminated or removed.	Closure of a RCRA hazardous waste container storage area—**applicable**	40 *CFR* 264.178 *OAC* 3745-55-78
Closure of RCRA hazardous waste tanks	At closure, remove all hazardous waste and hazardous waste residues from tanks, discharge control equipment, and discharge confinement structures.	Management of RCRA hazardous waste in tanks—**applicable**	40 *CFR* 264.197(a) *OAC* 3745-55-97(A)
	If all contaminated contents cannot be removed, must consider the tank system a landfill and close the facility and perform post-closure care in accordance with the landfill closure requirements of 40 *CFR* 264.310 [*OAC* 3745-57-10].		40 *CFR* 264.197(b) *OAC* 3745-55-97(B)
	If a tank system does not have secondary containment, such a system is considered a landfill and closure and post-closure plans must reflect this.		40 *CFR* 264.197(c) *OAC* 3745-55-97(C)
Closure of a RCRA remediation waste staging pile	Must be closed by removing or decontaminating all remediation waste, contaminated containment system components, and structures and equipment contaminated with waste and leachate.	Storage of remediation waste in staging pile located in previously contaminated area—**applicable**	40 *CFR* 264.554(j)(1) *OAC* 3745-57-74(J)(1)
	Must decontaminate contaminated subsoils in a manner that will protect human health and the environment.		40 *CFR* 264.554(j)(2) *OAC* 3745-57-74(J)(2)
	Must be closed according to substantive requirements in 40 *CFR* 264.258(a) and 264.111 or 265.258(a) and 265.111 [*OAC* 3745-56-58(A) and 3745-55-11 or 3745-67-58 and 3745-66-11] by removing or decontaminating all waste residues, contaminated containment system components (liners, etc.), contaminated subsoils, and structures and equipment contaminated with waste and leachate, and managing them as hazardous waste.	Storage of remediation waste in staging pile located in an uncontaminated area—**applicable**	40 *CFR* 264.554(k) *OAC* 3745-57-74(K)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
	Transportation[c]		
Transportation of hazardous waste on site	The generator manifesting requirements of 40 *CFR* 262.20 to 262.32(b) [*OAC* 3745-52-20 to 3745-52-23 and 3745-52-32(B)] do not apply. Generator or transporter must comply with the requirements set forth in 40 *CFR* 263.30 and 263.31 [*OAC* 3745-53-30 and 3745-53-31] in the event of a discharge of hazardous waste on a private or public right-of-way.	Transportation of hazardous wastes on a public or private right of-way within or along the border of contiguous property under the control of the same person, even if such contiguous property is divided by a public or private right-of-way—**applicable**	40 *CFR* 262.20(f) *OAC* 3745-52-20(F)
Transportation of hazardous waste off site	Must comply with the generator requirements of 40 *CFR* 262.20 to 262.23 [*OAC* 3745-52-20 to 3745-52-23] for manifesting, Section 262.30 [*OAC* 3745-52-30] for packaging, Section 262.31 [*OAC* 3745-52-31] for labeling, Sect. 262.32 [*OAC* 3745-52-32] for marking, Section 262.33 [*OAC* 3745-52-33] for placarding, Sections 262.40 and 262.41(a) [*OAC* 3745-52-40 and 3745-52-41] for record keeping requirements, and Section 262.12 [*OAC* 3745-52-12] to obtain EPA ID number.	Preparation of RCRA hazardous waste for off-site transport—**applicable**	40 *CFR* 262.10(h) *OAC* 3745-52-10(H) 40 *CFR* 262.20 to .23 *OAC* 3745-52-20 to -23 40 *CFR* 262.30 to .33 *OAC* 3745-52-30 to -33
Transportation of hazardous materials on site	Must meet the substantive requirements of 49 *CFR* Parts 171–174, 177, and 178 or the site- or facility-specific Transportation Safety Document (i.e., *Transportation Safety Document for the On-Site Transfer of Hazardous Material at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* [LPP 2008]).	Transport of hazardous materials on the PORTS facility—**TBC**	DOE Order 460.1C(4)(b)

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[c] As noted in the DFF&O, Paragraph 9.a, the NCP at 40 *CFR* 300.400(e)(1) defines “on-site” as meaning “the areal extent of contamination and all suitable areas in very close proximity to the contamination necessary for the implementation of the response action.” Off-site transportation, by definition, is not an on-site response action and is subject to all substantive, procedural, and administrative requirements of all legally applicable laws, but not to any requirements that might normally be labeled relevant and appropriate under the ARARs process.

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Transportation of hazardous materials off site	Any person who, under contract with a department or agency of the Federal government, transports "in commerce," or causes to be transported or shipped, a hazardous material, shall be subject to and must comply with all applicable provisions of the HMTA and HMR at 49 *CFR* 171 – 180 related to marking, labeling, placarding, etc.	Preparation for transport or shipment "in commerce" of a hazardous material—**applicable**	49 *CFR* 171.1(c)
SOLID WASTE			
	Design, construction, operation, and closure of a solid waste landfill		
Siting of a solid waste landfill	The limits of solid waste placement of the landfill cannot be:	Construction of a sanitary landfill (defined in *OAC* 3745-27-01 as including solid waste landfills)—**applicable**	*OAC* 3745-27-07(H)
	• Within 1,000 ft of or within a national park or recreation area or candidate area for potential inclusion in the national park system; or a state park or state park purchase area; or any property that lies within the boundaries of a national park or recreation area but that has not been acquired or is not administered by the secretary of the DOI (1,000-ft setback does not apply if obtain written authorization from the owner to locate within 1,000 ft)		*OAC* 3745-27-07(H)(1)
	• In a sand or gravel pit, or		*OAC* 3745-27-07(H)(2)(a)
	• In a limestone or sandstone quarry		*OAC* 3745-27-07(H)(2)(b)
	• Above a federally-designated sole source aquifer, unless granted an exemption by Ohio EPA		*OAC* 3745-27-07(H)(2)(c)
	• Above an unconsolidated aquifer system capable of sustaining a yield of 100 gpm for a 24-hr period to a well located within 1,000 ft of where solid waste is placed, unless deemed acceptable by Ohio EPA.		*OAC* 3745-27-07(H)(2)(d)
	The isolation distance between the uppermost aquifer system and the bottom of the recompacted soil liner of the landfill must be not less than 15 ft of in situ or added geologic material deemed acceptable by Ohio EPA.		*OAC* 3745-27-07(H)(2)(e)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Siting of a solid waste landfill (continued)	The limits of solid waste placement of the landfill and any leachate ponds or lagoons cannot be located within the surface and subsurface areas of either of the following:	Construction of a sanitary landfill (defined as including solid waste landfills)—**applicable**	*OAC* 3745-27-07(H)(3)(a)
	• Surrounding a public water supply well through which contaminants may move toward and may reach the well through underground geologic or man-made pathways within a period of 5 years		*OAC* 3745-27-07(H)(3)(a)(i)
	• A wellhead protection area or a drinking water source protection area for a public water system using groundwater		*OAC* 3745-27-07(H)(3)(a)(ii)
	Landfill cannot be located within an area of potential subsidence due to an underground mine or within the angle of draw of an underground mine unless the potential impact to the facility due to subsidence is minimized.		*OAC* 3745-27-07(H)(3)(b)
	The limits of solid waste placement of the landfill cannot be within 1,000 ft of a water supply well or a developed spring unless one or more of the conditions listed in *OAC* 3745-27-07(H)(3)(c)(i) – (iv) is met.		*OAC* 3745-27-07(H)(3)(c)
	Solid waste cannot be placed within 1,000 ft of the following natural areas:		*OAC* 3745-27-07(H)(4)(a)
	• National or state nature/wildlife refuge or preserve		
	• National or state wild, scenic or recreational river		
	• Special interest or research area, or		
	• Stream area designated by Ohio EPA as a coldwater or exceptional warm water habitat.		
	Solid waste cannot be placed:		*OAC* 3745-27-07(H)(4)
	• Within 300 ft of the landfill facility's property line, unless deemed acceptable by Ohio EPA		*OAC* 3745-27-07(H)(4)(b)
	• Within 1,000 ft of a residence whose owner has not consented in writing to its location		*OAC* 3745-27-07(H)(4)(c)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Siting of a solid waste landfill (continued)	• Within 200 ft of a stream, lake, or wetland		*OAC* 3745-27-07(H)(4)(d)
	• In a regulatory floodplain (as defined in *OAC* 3745-27-01) unless demonstrated that unit(s) will not restrict flow of the 100-yr flood, reduce the temporary water storage capacity of the floodplain, or result in washout of solid waste so as to pose a hazard to human health and the environment.	Construction of a sanitary landfill (defined as including solid waste landfills)—**applicable**	*OAC* 3745-27-20(C)(2)
	• Within 200 ft of a fault that has had displacement in Holocene time unless it is demonstrated that a distance of less than 200 ft will prevent damage to the structural integrity of the facility and will be protective of human health and the environment.		*OAC* 3745-27-20(C)(3)
	• In a “seismic impact zone” (as defined in *OAC* 3745-27-01) unless demonstrated that all containment structures, including liners, leachate collection systems, sedimentation ponds, and surface water control systems, are designed to resist the maximum horizontal acceleration in lithified earth material for the site.		*OAC* 3745-27-20(C)(4)
	• In an “unstable area” (as defined in *OAC* 3745-27-01) unless demonstrated that engineering measures have been incorporated into the design of the facility to ensure that the integrity of the structural components will not be disrupted.		*OAC* 3745-27-20(C)(5)
Design of a solid waste disposal facility	Detail engineering plans, specifications, and information for all unit(s) of a sanitary landfill facility shall be submitted, shown by means of drawings and narrative descriptions where appropriate. The information to be included on the drawings shall be as listed in *OAC* 3745-27-06(B)(2) through (7).	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-06(B) *OAC* 3745-27-06(B)(2) – (7)
	The following information shall be presented in narrative form in a report:		*OAC* 3745-27-06(C)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Design of a solid waste disposal facility (continued)	• Summary of the facility environs and a demonstration that the sanitary landfill facility will meet the siting criteria; shall include a discussion of the facility's compliance with the facility's limits of waste placement, the location restriction demonstrations, and operational criteria		*OAC* 3745-27-06(C)(1)
	• A hydrogeologic and geotechnical site investigation report(s), which shall at a minimum include the information listed in *OAC* 3745-27-06(C)(3)(a) through (g)	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-06(C)(3)
	• Analyses, as listed in *OAC* 3745-27-06(C)(4)(a) – (e) and (g), establishing stability of the facility and the subsurface.		*OAC* 3745-27-06(C)(4)(a) – (e) and (g)
	• Design calculations with references to equations used, showing site-specific input and assumptions that demonstrate compliance with the design requirements of *OAC* 3745-27-08		*OAC* 3745-27-06(C)(5)(a), (c) and (e) – (g), and (j) – (m)
	• For proposed new unit(s), the location restriction demonstrations in accordance with *OAC* 3745-27-20		*OAC* 3745-27-06(C)(6)
	• Demonstration of physical and chemical resistance, as required in *OAC* 3745-27-08(D)(10) and (D)(13), and compaction equipment slope limitations.		*OAC* 3745-27-06(C)(7)(b) and (c)
	• The QA/QC plan for the engineered components		*OAC* 3745-27-06(C)(9)(c)
	• Wetland demonstration to authorize discharge of dredge or fill material into wetlands, if facility will be sited in wetlands; and proof of property ownership or lease agreement to use the property as a sanitary landfill facility		*OAC* 3745-27-06(C)(10)(c) and (d)
Liner design criteria for a composite liner system	Composite liner system shall be designed to:	Construction of a sanitary waste landfill—**applicable**	*OAC* 3745-27-08(C)(1)
	• Serve as a barrier to prevent the discharge of any leachate to ground or surface waters.		*OAC* 3745-27-08(C)(1)(a)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Leachate collection and management system	• Have at least a 2.0% slope in all areas, except along flow lines augmented by leachate collection pipes, after accounting for 100% of the primary consolidation settlement and the secondary consolidation settlement of the compressible materials beneath the landfill which includes, as applicable, in-situ soil, added geologic material, structural fill material, and re-compacted soil liner.		*OAC* 3745-27-08(C)(1)(b)
	• Have a maximum slope based on the compaction equipment limitations and the slope stability		*OAC* 3745-27-08(C)(1)(e)
	The leachate collection and management system shall be designed to do the following:	Construction of a sanitary waste landfill—**applicable**	*OAC* 3745-27-08(C)(3)
	• Any components located outside of the limits of solid waste placement shall be no less protective of the environment than the sanitary landfill by complying with this paragraph.		*OAC* 3745-27-08(C)(3)(a)
	• The selection and specifications for the materials that will make up the leachate collection layer shall be protective of the flexible membrane liner or the design must include a liner cushion layer meeting the specifications for liner cushions at *OAC* 3745-27-08(D)(11).		*OAC* 3745-27-08(C)(3)(b) *OAC* 3745-27-08(D)(11)
	• Limit the level of leachate in areas other than sumps to a maximum of 1 ft throughout the operation and post closure of the landfill.		*OAC* 3745-27-08(C)(3)(c)
	• Have at least a 0.5% grade for the leachate collection pipes after accounting for 100% of the primary consolidation settlement and the secondary consolidation settlement of the compressible materials beneath the landfill which includes, as applicable, in-situ soil, added geologic material, structural fill material, and re-compacted soil liner.		*OAC* 3745-27-08(C)(3)(d)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Composite cap system for closure	Composite cap system shall be designed to do the following:	Closure of a sanitary waste landfill—**applicable**	*OAC* 3745-27-08(C)(4)
	• Minimize infiltration of surface water		*OAC* 3745-27-08(C)(4)(a)
	• Serve as a barrier to prevent leachate outbreaks		*OAC* 3745-27-08(C)(4)(b)
	• Have at least a 5.0% grade in all areas except where surface water control structures are located		*OAC* 3745-27-08(C)(4)(c)
	• Have a maximum slope based on compaction and maintenance equipment limitations and on slope stability		*OAC* 3745-27-08(C)(4)(d)
Design for explosive gas control system	The design of the explosive gas control system may utilize a passive venting system or an active extraction system to satisfy air pollution control requirements and shall be designed to maintain explosive gas concentrations below the explosive gas threshold limits in *OAC* 3745-27-12(E)(5)(a).	Construction of a sanitary waste landfill—**applicable** if landfill design includes an explosive gas control system	*OAC* 3745-27-08(C)(5)
Design for geosynthetic materials	The design of all geosynthetic materials specified in the engineered components, including but not limited to, flexible membrane liners, geosynthetic clay liners, and geosynthetic drainage nets, shall not rely on any of the tensile qualities of these geosynthetic components.	Construction of a sanitary waste landfill—**applicable**	*OAC* 3745-27-08(C)(6)
Design for engineered components and waste mass	The design for the stability of all engineered components and the waste mass shall address any configuration throughout the applicable developmental and post closure periods. Potential failures associated with internal, interim and final slopes, as these slopes are defined in *OAC* 3745-27-06, shall be used to define the minimum construction specification and materials that, at a minimum, will meet the requirements listed in *OAC* 3745-27-08(C)(7)(a) through (f).	Construction of a sanitary waste landfill—**applicable**	*OAC* 3745-27-08(C)(7)(a) through (f)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Run-on/runoff control structures	Surface water run-on and run-off control structures shall comply with the following: • Accommodate peak flow from 25-year/24-hour storm event • Minimize silting and scouring. • Use non-mechanical means for all permanent structures.	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-08(D)(2)
Sedimentation ponds	Sedimentation ponds must comply with the standards in *OAC* 3745-27-08(D)(3)(a) through (e).	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-08(D)(3)
Groundwater control structures	Permanent ground water control structures shall adequately control ground water infiltration through the use of non-mechanical means such as impermeable barriers or permeable drainage structures. However, no permanent ground water control structures may be used to dewater an aquifer system, except if the recharge and discharge zone of the aquifer system are located entirely within the boundary of the sanitary landfill facility.	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-08(D)(4)
Liner and leachate collection design for a composite liner system	The unconsolidated or consolidated stratigraphic units that make up the in-situ foundation shall meet the design standards listed in *OAC* 3745-27-08(D)(5)(a) through (f).	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-08(D)(5)
	Rock fills or soil fills for a structural berm or subbase shall comply with the design standards listed in *OAC* 3745-27-08(D)(6)(a) through (f).		*OAC* 3745-27-08(D)(6)
	Added geologic material shall comply with the design standards listed in *OAC* 3745-27-08(D)(7)(a) through (h).		*OAC* 3745-27-08(D)(7)
Liners	Recompacted soil liner shall comply with the design standards listed in *OAC* 3745-27-08(D)(8)(b) through (j).		*OAC* 3745-27-08(D)(8)
	A geosynthetic clay liner used in lieu of part of the recompacted soil liner or in lieu of the recompacted soil barrier layer, shall comply with the design standards listed in *OAC* 3745-27-08(D)(9)(a) through (d).		*OAC* 3745-27-08(D)(9)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Liner and leachate collection design for a composite liner system (continued) *Leachate collection layer*	A flexible membrane liner shall comply with the design standards listed in *OAC* 3745-27-08(D)(10)(a) through (f).		*OAC* 3745-27-08(D)(10)
	The liner cushion layer shall be placed above the flexible membrane liner and protect it from damage that may be caused by construction materials and activities and have pre-construction interface testing performed.		*OAC* 3745-27-08(D)(11)
	The leachate collection layer shall be placed above the composite liner system which may be protected by the cushion layer and shall comply with the standards in *OAC* 3745-27-08(D)(12)(a) and (b).		*OAC* 3745-27-08(D)(12)
	Leachate collection pipes shall comply with the design standards listed in *OAC* 3745-27-08(D)(13)(a) through (g).		*OAC* 3745-27-08(D)(13)
	The filter layer of the leachate collection and management system shall be placed above the leachate collection layer and leachate collection pipes and be designed to minimize clogging of the leachate collection layer, leachate collection pipes, and sumps.		*OAC* 3745-27-08(D)(14)
	Leachate collection and management system shall incorporate an adequate number of sumps that shall be protected from adverse effects from leachate and differential settling and be equipped with automatic high level alarms located no greater than 1 ft above the top elevation of sump.		*OAC* 3745-27-08(D)(15)
	Leachate collection and management system shall incorporate adequate measures that will automatically remove leachate from the landfill to leachate storage tank(s), a permitted discharge to a public sewer, or a permitted WWTU to facilitate the transfer of leachate from the storage tank(s) for the purpose of disposal.		*OAC* 3745-27-08(D)(16)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Liner and leachate collection design for a composite liner system (continued)	Any leachate conveyance apparatus located outside the limits of solid waste placement shall be monitored, be double cased with a witness zone, and be protected from the effects of freezing temperatures, crushing, or excess deflection.		*OAC* 3745-27-08(D)(16)(a) – (c)
Leachate storage tanks	Leachate storage tanks shall have adequate storage capacity to receive the anticipated amount of leachate removed during normal operations from the leachate sumps to maintain a maximum 1 ft of head and at a minimum have at least 1 week of storage capacity using design assumptions simulating final closure.		*OAC* 3745-27-08(D)(17)
	Any leachate storage tanks located outside of the limits of solid waste placement shall be monitored and include one of the following: • For leachate ASTs, be provided with spill containment no less than 110% of tank volume. • For leachate USTs, be double cased with a witness zone.		*OAC* 3745-27-08(D)(17)(a) and (b)
Support facilities for a sanitary landfill	All access roads used for waste hauling that are constructed within the horizontal limits of waste placement shall not have grades in excess of 12% and be designed to be stable and to prevent damage to the liner or cap systems caused by the effects of traffic loading and braking or any other action.	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-08(D)(18)
Closure of a solid waste landfill with a composite cap system	Design and construction of a recompacted soil barrier layer in the composite cap system shall comply with *OAC* 3745-27-08(D)(21)(b) through (g) as follows:	Closure of a sanitary waste landfill—**applicable**	*OAC* 3745-27-08(D)(21)(a)
	• Be free of debris, foreign material, and deleterious material.		*OAC* 3745-27-08(D)(21)(b)
	• Not be comprised of solid waste.		*OAC* 3745-27-08(D)(21)(c)
	• Be placed above all areas of waste placement.		*OAC* 3745-27-08(D)(21)(d)
	• Not have any abrupt changes in grade that may result in damage to the geosynthetics		*OAC* 3745-27-08(D)(21)(e)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Closure of a solid waste landfill with a composite cap system (continued)	• Have pre-construction testing of the borrow soils performed on representative samples and the results submitted to Ohio EPA no later than 7 days prior to intended use of the material in construction of the cap soil barrier layer. Pre-construction testing shall determine the maximum dry density and optimum moisture content, grain size distribution, and recompacted laboratory permeability.		*OAC* 3745-27-08(D)(21)(f)
	• Be constructed in lifts to achieve uniform compaction, in accordance with the substantive requirements of *OAC* 3745-27-08(D)(21)(g)(i)(a) through (e), (ii), and (iii).		*OAC* 3745-27-08(D)(21)(g)
	• Be adequately protected from damage due to desiccation, freeze/thaw cycles, wet/dry cycles, and the intrusion of objects during construction of the cap system		*OAC* 3745-27-08(D)(21)(h)
	• Have QC control testing of the constructed lifts performed to determine the density and moisture content according to ASTM D2922-01 and ASTM D3017-01 (nuclear methods), ASTM D1556-00 (sand cone), ASTM D2167-94 (rubber balloon) or other methods acceptable to the director or his authorized representative at a frequency of no less than five tests per acre per lift. The locations of the individual tests shall be adequately spaced to represent the constructed area. Any penetrations shall be repaired using bentonite.		*OAC* 3745-27-08(D)(21)(i)
	If a geosynthetic clay liner is used in the composite cap system in accordance with paragraph (D)(21) of this rule, it shall be placed above an engineered subbase designed and constructed in accordance *OAC* 3745-27-08(D)(22).		*OAC* 3745-27-08(D)(22)
	A cap geosynthetic clay liner meeting the requirements of paragraph (D)(9) of this rule shall be placed above the engineered subgrade in the composite cap system.		*OAC* 3745-27-08(D)(23)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Closure of a solid waste landfill with a composite cap system (continued)	A cap flexible membrane liner meeting the requirements of paragraph (D)(10) of this rule shall be placed above the recompacted soil barrier layer or the geosynthetic clay liner in the composite cap system.		*OAC* 3745-27-08(D)(24)
	The cap drainage layer for the composite cap system shall comply with *OAC* 3745-27-08(D)(25).		*OAC* 3745-27-08(D)(25)
	For cap protection layers: a cap protection layer shall comply with *OAC* 3745-27-08(D)(26).		*OAC* 3745-27-08(D)(26)
Explosive gas control system design criteria	Explosive gas control system shall not compromise the integrity of the cap system, the leachate management system, or the composite liner system, and shall comply with the following:	Construction of a sanitary waste landfill—**applicable** if design includes explosive gas control system	*OAC* 3745-27-08(D)(27)
	• Accommodate waste settlement		*OAC* 3745-27-08(D)(27)(a)
	• Provide for the removal of condensate		*OAC* 3745-27-08(D)(27)(b)
	• Prevent lateral movement of explosive gas from the sanitary landfill facility		*OAC* 3745-27-08(D)(27)(c)
	• Prevent fires within the limits of solid waste placement		*OAC* 3745-27-08(D)(27)(d)
Liner design criteria for a recompacted soil liner	The construction of the recompacted soil liner shall be modeled by an approved test pad in accordance with *OAC* 3745-27-08(E).	Construction of a sanitary waste landfill—**applicable**	*OAC* 3745-27-08(E)
Pre-construction interface testing and reporting	The specific soils and representative samples of the geosynthetic materials that will be used at the site shall be tested, in accordance with the substantive requirements of *OAC* 3745-27-08(G), for interface shear strength over the entire range of normal stresses that will develop at the facility.	Construction of a sanitary waste landfill—**applicable**	*OAC* 3745-27-08(G)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Explosive gas migration monitoring	Shall prepare an explosive gas monitoring plan in compliance with the substantive requirements of *OAC* 3745-27-12(D) and (E).	Operation of a sanitary landfill**—relevant and appropriate** if calculated explosive gas emissions exceed calculated threshold limits of *OAC* 3745-27-12(E)(5)(a)	*OAC* 3745-27-12
	Shall implement explosive gas monitoring, sampling, and reporting, and appropriate contingency plans if required, in accordance with the approved monitoring plan and with the substantive requirements of *OAC* 3745-27-12(F) through (K).		
Post-closure restrictions	No person shall fill in, grade, excavate, build, drill, or mine on land where a hazardous or solid waste facility was operated without authorization from Ohio EPA.	Closure of a hazardous or solid waste disposal facility**—applicable**	*OAC* 3745-27-13(A), (C) and (H)
	If a person engages in filling, grading, excavating, building, drilling, or mining on land where a hazardous or solid waste facility was operated, must comply with the substantive best management provisions of *OAC* 3745-27-13.		*OAC* 3745-27-13
Activities causing release of pollutants, nuisances, or health hazards	Shall operate the facility in such a manner that operation does not create a nuisance or a health hazard or cause water pollution.	Operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(B)(5)
Placement of waste in first layer ("select waste layer")	Shall place select waste as the first layer of waste in all areas within the limits of waste placement adjacent to or in contact with the leachate collection system to protect the composite liner from the intrusion of objects during operation of the facility. The select waste layer shall:	Operation of a sanitary landfill**—applicable**	*OAC* 3745-27-19(D)(1)
	• Not contain items over 2 ft in length that are capable of puncturing the liner.		*OAC* 3745-27-19(D)(1)(b)
	• Not restrict the flow of liquid to the leachate collection and management system.		*OAC* 3745-27-19(D)(1)(c)
	• Not contain fines or small particles which can clog the leachate collection system.		*OAC* 3745-27-19(D)(1)(d)
Site preparation	Shall clear naturally occurring vegetation to the extent necessary for proper operation of the facility	Operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(E)(1)(a)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Site preparation (continued)	Any oil or gas wells within proposed limits of solid waste placement shall be properly plugged and abandoned in accordance with Chapter 1509 of the Revised Code.	Operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(E)(1)(b)
Facility maintenance and repair	Maintain integrity of the engineered components of the facility and repair any damage to or failure of the components.	Operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(E)(1)(c)
Chemical compatibility testing	Perform chemical compatibility testing if the director determines that such testing is necessary to demonstrate that the solid waste to be received at facility will not compromise the integrity of any material used to construct the facility.	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(E)(1)(d)
Support facilities for a sanitary landfill	Construct and maintain all-weather access roads within facility boundary in such a manner as to withstand the anticipated degree of use and allow passage of loaded refuse vehicles at all times, with minimum of erosion and dust generation.	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(E)(2)(a)
Security system for a sanitary landfill	Limit access to the facility by non-employees except during operating hours when operating personnel are present. Exclude live domestic and farm animals from the operating areas of the facility except for animals used for security purposes.	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(E)(2)(a), (b) and (d)
Content of contingency plan	Shall ensure that operable equipment of adequate size and quantity for facility operations are available at all times, or that an appropriate contingency plan is prepared to properly handle and dispose of waste materials in the event of equipment failure.	Operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(E)(3)(a),(b)
Inspections	Inspect facility at least daily for ponding, erosion, and leachate outbreaks and record results on daily log forms.	Operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(E)(11)(a)
	Inspect sedimentation ponds and pond discharge structures, includes pipes, ditches, and culverts at least weekly for erosion, clogging, or failure and take prompt correction, if necessary and record results on daily log forms.		*OAC* 3745-27-19(E)(11)(b)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Run-on/runoff control systems	Ensure surface water is diverted from areas where solid waste is being, or has been, deposited. Ensure facility is designed, constructed, maintained, and provided with surface water control structures that control run-on and runoff of surface water. Structures shall ensure minimal erosion and infiltration of water through the cover material and cap system and shall be designed in accordance with *OAC* 3745-27-08. If ponding or erosion occurs where waste is being or has been deposited, shall undertake actions as necessary to correct conditions causing it. If substantial threat of surface water pollution exists, may be required to monitor the surface water.	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(J)(1) – (4)
Leachate management at a solid waste landfill	If a leachate outbreak occurs at the facility, must repair all outbreaks and contain, properly manage, collect, and dispose of the leachate in accordance with *OAC* 3745-27-19(K)(5) and (K)(6) and take action to minimize, control, or eliminate the conditions which contribute to the production of leachate.	Construction and operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(K)(1)
	Maintain at least one lift station back-up pump at facility at all times.		*OAC* 3745-27-19(K)(2)
	Visually or physically inspect collection pipe network of leachate management system after placement of initial lift of waste to ensure that crushing has not occurred and inspect network annually thereafter to ensure that clogging has not occurred.		*OAC* 3745-27-19(K)(3)
	If approved, may temporarily store leachate within limits of waste placement until the leachate can be treated and disposed as outlined in the leachate contingency plan under *OAC* 3745-27-19(K)(6).		*OAC* 3745-27-19(K)(4)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Leachate management at a solid waste landfill (continued)	Treat and dispose of collected leachate in accordance with *ORC* Chapter 6111 and with one of the following: • Treat and dispose of collected leachate on site at the disposal facility • Pretreat collected leachate on site and dispose of off-site of facility • Treat and dispose of collected leachate off-site of facility	Operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(K)(5)
	Must plan for storage and disposal of leachate to address immediate and long-term steps, including the setting aside of land for the construction and operation of an on-site treatment facility, to be taken for leachate management in the event that leachate cannot be managed in accordance with *OAC* 3745-27-19(K)(5).	Operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(K)(6)
	If a substantial threat of water pollution exists from the leachate entering surface waters, the director or health commissioner may require the owner or operator to monitor the surface water.	Operation of a sanitary landfill—**applicable**	*OAC* 3745-27-19(K)(7)
	Solid waste disposal		
Disposal of solid wastes	Except as provided in paragraph (D) of *OAC* 3745-27-02, no person shall establish or modify a solid waste disposal facility without meeting the substantive criteria as follows:	Management and disposal of solid waste—**applicable**	*OAC* 3745-27-02(A)
	Disposal of solid wastes shall only be by the following methods or combination thereof:		*OAC* 3745-27-05(A)
	• Disposal at a licensed sanitary landfill facility		*OAC* 3745-27-05(A)(1)
	• Incinerating at a licensed incinerator		*OAC* 3745-27-05(A)(2)
	• Composting at a licensed composting facility		*OAC* 3745-27-05(A)(3)
	• Alternative disposal methods either as engineered fill or land application, provided use will not create a nuisance or harm human health or the environment and is capable of complying with other applicable laws.		*OAC* 3745-27-05(A)(4)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Prohibition on open dumping of solid wastes	Temporary storage of putrescible solid wastes in excess of 7 days, or temporary storage of any solid wastes where such storage causes a nuisance or health hazard shall be considered open dumping.	Temporary storage of solid waste prior to collection for disposal or transfer—**applicable**	*OAC* 3745-27-03(A)(2)
	No person shall conduct, permit, or allow open dumping. In the event that open dumping is or has occurred, person(s) responsible shall promptly remove and dispose or otherwise manage the solid waste and shall submit verification that the waste has been properly managed.	Management and disposal of solid waste—**applicable**	*OAC* 3745-27-05(C)
Disposal of whole or shredded scrap tires	Whole or shredded scrap tires cannot be disposed at a sanitary landfill with the exception of the following:		*OAC* 3745-27-19(E)(8)(g)
	• Burned or partially burned scrap tires, pyrolytic oil, and contaminated soils provided those materials meet the definition of solid waste in *OAC* 3745-27-01.		*OAC* 3745-27-19(E)(8)(g)(i)
	• Scrap tire pieces from a scrap tire recovery facility that are the byproduct of scrap tire processing.		*OAC* 3745-27-19(E)(8)(g)(ii)
	• Authorized beneficial uses of scrap tires pursuant to *OAC* 3745-27-78.		*OAC* 3745-27-19(E)(8)(g)(iii)
	• Whole scrap tires which could not be processed by a scrap tire recovery facility. The owner or operator of the scrap tire recovery facility shall complete a scrap tire shipping paper and record on the shipping paper why the scrap tires are not processable at the scrap tire recovery facility. This includes but is not limited to aircraft tires and forklift tires that are not processable due to their construction or scrap tires contaminated with mud or other materials that render the tires unsuitable for processing.		*OAC* 3745-27-19(E)(8)(g)(iv)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
TSCA/PCB WASTES			
Design, construction, operation and closure of a TSCA chemical waste landfill			
Siting and liner design requirements for a TSCA landfill	Shall be located in thick, relatively impermeable formations such as large area clay pans. Where this is not possible, the soil shall have a high clay and silt content with the following parameters:	Construction of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(1)
	• In place soil thickness, 4 ft or compacted soil liner thickness, 3 ft		40 *CFR* 761.75(b)(1)(i)
	• Permeability (cm/sec), equal to or less than 1×10^{-7}		40 *CFR* 761.75(b)(1)(ii)
	• Percent soil passing No. 200 sieve > 30		40 *CFR* 761.75(b)(1)(iii)
	• Liquid limit, > 30		40 *CFR* 761.75(b)(1)(iv)
	• Plasticity index > 15.		40 *CFR* 761.75(b)(1)(v)
	Synthetic membrane liners shall be used when the hydrologic or geologic conditions at the landfill require such a liner in order to provide at least a permeability equivalent to that of the soils. A synthetic liner should be chemically compatible with PCBs.	Construction of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(2)
	Adequate soil underlining and cover shall be provided to prevent excessive stress or rupture of the liner. The liner must have a minimum thickness of 30 mil.		
	The landfill must be located above the historical high groundwater table. The bottom of the landfill liner shall be at least 50 ft above the historical high water table. Floodplains, shorelands, and groundwater recharge areas shall be avoided. There shall be no hydraulic connection between the site and standing or flowing surface water.	Construction of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(3)
	Shall provide diversion structures capable of diverting all surface water runoff from a 24-hour, 25-year storm.	Construction of a TSCA chemical waste landfill above the 100-year floodwater elevation—**applicable**	40 *CFR* 761.75(b)(4)(ii)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Siting and liner design requirements for a TSCA landfill (continued)	The landfill site shall be located in an area of low to moderate relief to minimize erosion and to help prevent landslides or slumping.	Construction of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(5)
	The landfill will not present an unreasonable risk of injury to health or the environment from PCBs when one or more of the requirements of 40 *CFR* 761.75(b) are not met, these requirements may be waived.		40 *CFR* 761.75(c)(4)
Monitoring at a TSCA chemical waste landfill	The groundwater and surface water from the disposal site area must be sampled prior to commencing operation for use as baseline data.	Operation of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(6)(i)(A)
Placement and construction of groundwater monitoring wells at a TSCA chemical waste landfill	If underlying earth materials are homogenous, impermeable, and uniformly sloping in one direction, only three sampling points shall be necessary. The points shall be equally spaced on a line through center of disposal area and extending from the area of highest water table elevation to the area of the lowest water table elevation.	Operation of TSCA chemical waste landfill groundwater monitoring program—**applicable**	40 *CFR* 761.75(b)(6)(ii)(A)
	All TSCA monitoring wells shall be cased and the annular space between the monitor zone (zone of saturation) and the surface shall be completely backfilled with Portland cement or an equivalent material and plugged with Portland cement to effectively prevent percolation of surface water into the well bore. The well opening at the surface shall have a removable cap to provide access and to prevent entrance of rainfall or stormwater runoff.	Construction of a TSCA groundwater monitoring well—**applicable**	40 *CFR* 761.75(b)(6)(ii)(B)
Groundwater monitoring at a TSCA chemical waste landfill	The groundwater monitoring well shall be pumped to remove the volume of liquid initially contained in the well before obtaining a sample for analysis.	Operation of TSCA groundwater monitoring wells—**applicable**	40 *CFR* 761.75(b)(6)(ii)(B)
Monitoring (surface or groundwater) at a TSCA chemical waste landfill	At a minimum, all samples shall be analyzed for PCBs, pH, specific conductance, and chlorinated organics. Sampling methods and analytical procedures for these parameters shall comply with those specified in 40 *CFR* 136 as amended in 41 FR 52779 on December 1, 1976.	Operation of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(6)(iii)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Monitoring (surface or groundwater) at a TSCA chemical waste landfill (continued)	The discharge shall be treated to meet applicable State or Federal standards or recycled to the chemical waste landfill.		
Leachate collection system for TSCA landfill	A leachate collection monitoring system shall be installed above the chemical waste landfill. An acceptable system includes a compound leachate collection.	Construction of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(7)
	Compound leachate collection system consists of a gravity flow drainfield installed above the waste disposal facility liner and above a secondary installed liner.		40 *CFR* 761.75(b)(7)(ii)
Leachate collection system monitoring and handling	Leachate collection systems shall be monitored monthly for quantity and physicochemical characteristics of leachate produced. The leachate should be either treated to acceptable limits for discharge in accordance with legally applicable discharge limits or disposed of by another legally appropriate method. Water analysis shall be conducted as provided in Paragraph (b)(6)(iii) of 40 *CFR* 761.75.	Construction of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(7)
Inventory requirements	Disposal records shall include information on the PCB concentration in the liquid wastes and the three dimensional burial coordinates for PCBs and PCB Items.	Operation of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(8)(iv)
Security and support facilities for TSCA chemical waste landfill	A 6-ft woven mesh fence, wall, or similar device shall be placed around the site to prevent unauthorized persons and animals from entering.	Construction of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(9)(i)
	Roads shall be maintained to and within the site that are adequate to support the operation and maintenance of the site without causing safety or nuisance problems or hazardous conditions.		40 *CFR* 761.75(b)(9)(ii)
Operation of a TSCA chemical waste landfill	Site shall be operated and maintained to prevent hazardous conditions resulting from spilled liquids and windblown materials.	Operation of a TSCA chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(9)(iii)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
	PCB waste generation, characterization, and segregation		
Torch-cutting of metal coated with paint that may contain PCBs	No person may openly burn PCBs. Combustion of PCBs by incineration as approved under Section 761.60 (a) or (e), or otherwise allowed under 40 *CFR* 761, is not open burning.	Management of PCB waste for storage or disposal—**applicable**	40 *CFR* 761.50(a)(1)
Management of PCB waste	Any person storing or disposing of PCB waste must do so in accordance with 40 *CFR* 761, Subpart D.	Storage or disposal of waste containing PCBs at concentrations ≥ 50 ppm—**applicable**	40 *CFR* 761.50(a)
	Any person cleaning up and disposing of PCBs shall do so based on the concentration at which the PCBs are found.	Cleanup or disposal of PCB remediation waste as defined in 40 *CFR* 761.3—**applicable**	40 *CFR* 761.61
Cleanup of new PCB spills	Spills shall be cleaned up in accordance with 40 *CFR* 761, Subpart G, "PCB Spill Cleanup Policy." This policy does not apply to existing spills (old spills which occurred prior to May 4, 1987).	Release into the environment of materials containing PCBs at ≥ 50 ppm, which occurs after May 4, 1987—**applicable**	40 *CFR* 761.125
	There may be exceptional spill situations that require less stringent cleanup or a different approach to cleanup because of factors associated with the particular spill. These factors may mitigate expected exposures and risks or make cleanup to these requirements impracticable.		40 *CFR* 761.120(a)(4)
Decontamination of PCB contaminated materials prior to use, reuse, distribution in commerce, or disposal as a non-TSCA waste	Chopping (including wire chopping), distilling, filtering, oil/water separation, spraying, soaking, wiping, stripping of insulation, scraping, scarification or the use of abrasives or solvents may be used to remove or separate PCBs to the decontamination standards for liquids, concrete, or nonporous surfaces, as listed in 40 *CFR* 761.79(b).	Generation of PCB wastes, including water, organic liquids, nonporous surfaces (scrap metal from disassembled electrical equipment), concrete, and nonporous surfaces covered with porous surfaces, such as paint or coating on metal—**applicable**	40 *CFR* 761.79(b)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Decontamination of water containing PCBs to levels acceptable for discharge	For water discharged to a treatment works or to navigable waters, decontaminate to < 3 µg/L (approximately < 3 ppb) or a PCB discharge limit included in a permit issued under Section 304(b) or 402 of the CWA; or	Discharge of water containing PCBs to a treatment works or navigable waters—**applicable**	40 *CFR* 761.79(b)(1)(ii)
Decontamination of water containing PCBs to levels acceptable for unrestricted use	Decontaminate to ≤ 0.5 µg/L (approximately ≤ 0.5 ppb) for unrestricted use.	Release of water containing PCBs for unrestricted use—**applicable**	40 *CFR* 761.79(b)(1)(iii)
Decontamination of organic liquids or nonaqueous inorganic liquids containing PCBs	For organic liquids or nonaqueous inorganic liquids containing PCBs, decontamination standard is < 2 mg/kg (i.e., < 2 ppm) PCBs.	Release of organic liquids or nonaqueous liquid containing PCBs—**applicable**	40 *CFR* 761.79(b)(2)
Decontamination of nonporous surfaces in contact with liquid PCBs to levels acceptable for unrestricted use	For nonporous surfaces previously in contact with liquid PCBs at any concentration, where no free-flowing liquids are currently present, ≤ 10 µg PCBs per 100 sq cm (≤ 10 µg/100 cm^2) as measured by a standard wipe test (40 *CFR* 761.123) at locations selected in accordance with Subpart P of 40 *CFR* 761.	Release of nonporous surfaces in contact with liquid PCBs at any concentration for unrestricted use—**applicable**	40 *CFR* 761.79(b)(3)(i)(A)
Decontamination of nonporous surfaces in contact with nonliquid PCBs to levels acceptable for unrestricted use	For nonporous surfaces in contact with nonliquid PCBs (including nonporous surfaces covered with a porous surface, such as paint or coating on metal), clean to Visual Standard No. 2, Near-White Blast Cleaned Surface Finish of the NACE. A person shall verify compliance with standard No. 2 by visually inspecting all cleaned areas.	Release of nonporous surfaces in contact with nonliquid PCBs for unrestricted use—**applicable**	40 *CFR* 761.79(b)(3)(i)(B)
Decontamination of nonporous surfaces in contact with liquid PCBs to levels acceptable for disposal in a TSCA smelter	For nonporous surfaces previously in contact with liquid PCBs at any concentration, where no free-flowing liquids are currently present, decontaminate to < 100 µg/100 cm^2 as measured by a standard wipe test (Section 761.123) at locations selected in accordance with Subpart P of 40 *CFR* 761.	Disposal of nonporous surfaces previously in contact with liquid PCBs at any concentration into a smelter operating in accordance with Section 761.72(b) —**applicable**	40 *CFR* 761.79(b)(3)(ii)(A)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Decontamination of nonporous surfaces in contact with nonliquid PCBs to levels acceptable for disposal in a TSCA smelter	For nonporous surfaces in contact with nonliquid PCBs (including nonporous surfaces covered with a porous surface, such as paint or coating on metal) clean to Visual Standard No. 3, Commercial Blast Cleaned Surface Finish, of the NACE. A person shall verify compliance with Standard No. 3 by visually inspecting all cleaned areas.	Disposal of nonporous surfaces in contact with nonliquid PCBs into a smelter operating in accordance with Section 761.72(b) — **applicable**	40 *CFR* 761.79(b)(3)(ii)(B)
Decontamination of concrete recently contaminated with PCBs	Decontamination standard for concrete is < 10 µg/100 cm^2 as measured by a standard wipe test (Section 761.123) if the decontamination procedure is commenced within 72 hours of the initial spill of PCBs to the concrete or portion thereof being decontaminated.	Decontamination of concrete within 72 hours of the initial spill of PCBs to the concrete—**applicable**	40 *CFR* 761.79(b)(4)
Disposal of materials previously contaminated with PCBs as non-TSCA waste	Materials from which PCBs have been removed by decontamination in accordance with 40 *CFR* 761.79, not including decontamination wastes and residuals under 40 *CFR* 761.79(g), are considered unregulated for disposal under Subpart D of TSCA (40 *CFR* 761).	Disposal of materials from which PCBs have been removed—**applicable**	40 *CFR* 761.79(a)(4)
Risk-based decontamination of PCB-containing materials	May decontaminate to an alternate risk-based decontamination standard under 40 *CFR* 761.79(h) if the standard does not pose an unreasonable risk of injury to health or the environment.	Decontamination of materials contaminated with PCBs – **applicable**	40 *CFR* 761.79(h)
Management of PCB/radioactive waste	Any person storing such waste ≥ 50 ppm PCBs must do so taking into account both its PCB concentration and radioactive properties, except as provided in 40 *CFR* 761.65(a)(1), (b)(1)(ii), and (c)(6)(i).	Generation of PCB/radioactive waste for disposal—**applicable**	40 *CFR* 761.50(b)(7)(i)
	Any person disposing of such waste must do so taking into account both its PCB concentration and its radioactive properties.		40 *CFR* 761.50(b)(7)(ii)
	If, after taking into account only the PCB properties in the waste, the waste meets the requirements for disposal in a facility permitted, licensed, or registered by a State as a municipal or nonmunicipal nonhazardous waste landfill, then the person may dispose of such waste without regard to the PCBs, based on its radioactive properties alone.		40 *CFR* 761.50(b)(7)(ii)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
	PCB waste storage		
Temporary storage of PCB waste in a non-RCRA-regulated area	Except as provided in 40 *CFR* 761.65 (b)(2), (c)(1), (c)(7), (c)(9), and (c)(10), after July 1, 1978, facilities used for the storage of PCBs and PCB Items designated for disposal shall comply with the storage unit requirements in 40 *CFR* 761.65(b)(1).	Storage of PCBs and PCB items at concentrations ≥ 50 ppm for disposal—**applicable**	40 *CFR* 761.65(b)
	The facilities shall meet the following criteria:		40 *CFR* 761.65(b)(1)
	• Adequate roof and walls to prevent rain water from reaching the stored PCBs and PCB Items		40 *CFR* 761.65(b)(1)(i)
	• Adequate floor that has continuous curbing with a minimum 6-in.-high curb. Floor and curb must provide a containment volume equal to at least two times the internal volume of the largest PCB article or container or 25% of the internal volume of all articles or containers stored there, whichever is greater. *Note*: 6-in. minimum curbing not required for area storing PCB/radioactive waste		40 *CFR* 761.65(b)(1)(ii)
	• No drain valves, floor drains, expansion joints, sewer lines, or openings that permit liquids to flow from curbed area		40 *CFR* 761.65(b)(1)(iii)
	• Floors and curbing constructed of Portland cement, concrete, or a continuous, smooth, nonporous surface as defined at Section 761.3, which prevents or minimizes penetration of PCBs and		40 *CFR* 761.65(b)(1)(iv)
	• Not located at site below 100-year flood water elevation.		40 *CFR* 761.65(b)(1)(v)
Temporary storage of PCB waste in a RCRA-regulated area	Does not have to meet storage unit requirements in 40 *CFR* 761.65(b)(1) provided unit is stored in compliance with RCRA and PCB spills are cleaned up in accordance with Subpart G of 40 *CFR* 761.	Storage of PCBs and PCB items at concentrations ≥ 50 ppm for disposal—**applicable**	40 *CFR* 761.65(b)(2)(i) thru (iv)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Temporary storage of PCB waste in containers	Container(s) shall be marked as illustrated in 40 *CFR* 761.45(a).	Storage of PCBs and PCB Items at concentrations ≥ 50 ppm for disposal—**applicable**	40 *CFR* 761.40(a)(1)
	Storage area must be properly marked as required by 40 *CFR* 761.40(a)(10).		40 *CFR* 761.65(c)(3)
	Any leaking PCB Items and their contents shall be transferred immediately to a properly marked nonleaking container(s).		40 *CFR* 761.65(c)(5)
	Except as provided in 40 *CFR* 761.65(c)(6)(i) and (ii), container(s) shall be in accordance with requirements set forth in DOT HMR at 49 *CFR* 171-180.		40 *CFR* 761.65(c)(6)
	Items shall be dated when they are removed from service and the storage shall be managed so that PCB items can be located by this date. (Note: Date should be marked on the container.)	PCB Items (includes PCB wastes) removed from service for disposal—**applicable**	40 *CFR* 761.65(c)(8)
Temporary storage of PCB remediation waste or PCB bulk product waste in a TSCA waste pile	Waste must be placed and managed in accordance with the design and operation standards, including liner and cover requirements and runoff control systems, in 40 *CFR* 761.65(c)(9).	Storage of PCB remediation waste or PCB bulk product waste at cleanup site or site of generation—**applicable**	40 *CFR* 761.65(c)(9)(i)
	Requirements of 40 *CFR* 761.65(c)(9) of this part may be modified under the risk-based disposal option of Section 761.61(c).		40 *CFR* 761.65(c)(9)(iv)
Risk-based storage of PCB remediation waste or bulk product waste prior to disposal	May store in a manner other than prescribed in 40 *CFR* 761.65 if the method will not pose an unreasonable risk of injury to health or the environment.	Storage of PCB remediation waste or bulk product waste prior to disposal—**applicable**	40 *CFR* 761.61(c) 40 *CFR* 761.62(c)
Storage of PCB/radioactive waste in containers	For liquid wastes, containers must be nonleaking.	Storage of PCB/radioactive waste in containers other than those meeting DOT HMR performance standards—**applicable**	40 *CFR* 761.65(c)(6)(i)(A)
	For nonliquid wastes, containers must be designed to prevent buildup of liquids if such containers are stored in an area meeting the containment requirements of 40 *CFR* 761.65(b)(1)(ii); and		40 *CFR* 761.65(c)(6(i)(B)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Storage of PCB/radioactive waste in containers (continued)	For both liquid and nonliquid wastes, containers must meet all regulations and requirements pertaining to nuclear criticality safety.		40 *CFR* 761.65(c)(6)(i)(C)
Closure of TSCA storage facility	Must close in a manner that eliminates the potential for post-closure releases of PCBs which may present an unreasonable risk to human health or the environment.	Closure of a TSCA storage facility—**applicable**	40 *CFR* 761.65(e)(1)
	Must remove or decontaminate PCB waste residues and contaminated containment system components, equipment, structures, and soils during closure in accordance with levels specified in the PCB Spills Cleanup Policy in Subpart G of 40 *CFR* 761.		40 *CFR* 761.65(e)(1)(iv)
	A TSCA/RCRA storage facility closed under RCRA is exempt from the TSCA closure requirements of 40 *CFR* 761.65(e).	Closure of a TSCA/RCRA storage facility—**applicable**	40 *CFR* 761.65(e)(3)
PCB waste treatment/disposal			
Disposal of TSCA PCB waste in a chemical waste landfill	Must be placed in manner that will prevent damage to containers or articles. Other wastes that are not chemically compatible with PCBs shall be segregated from the PCBs throughout the handling and disposal process.	Disposal of PCBs or PCB Items in chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(8)(i)
	May be disposed of provided such waste is pretreated and/or stabilized (e.g., chemically fixed, evaporated, mixed with dry inert absorbent) to reduce its liquid content or increase its solid content so that a nonflowing consistency is achieved to eliminate the presence of free liquids prior to final disposal.	Disposal of PCB bulk liquids not exceeding 500 ppm—**applicable**	40 *CFR* 761.75(b)(8)(ii)
	May be disposed of if each container is surrounded by an amount of inert sorbent material capable of absorbing all of the liquid contents of the container.	Disposal of PCB container with liquid PCB between 50 and 500 ppm—**applicable**	40 *CFR* 761.75(b)(8)(ii)
	Ignitable wastes shall not be disposed of in chemical waste landfills.	Disposal of PCBs in a chemical waste landfill—**applicable**	40 *CFR* 761.75(b)(8)(iii)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Performance-based disposal of PCB remediation waste	Shall be disposed according to 40 *CFR* 761.60(a) or (e), or decontaminated in accordance with 40 *CFR* 761.79.	Disposal of liquid PCB remediation waste—**applicable**	40 *CFR* 761.61(b)(1)
	May dispose by one of the following methods:	Disposal of nonliquid PCB remediation waste (as defined in 40 *CFR* 761.3)—**applicable**	40 *CFR* 761.61(b)(2)
	• In a high-temperature incinerator approved under 40 *CFR* 761.70(b) • By an alternate disposal method under 40 *CFR* 761.60(e) • In a chemical waste landfill under 40 *CFR* 761.75 • In a facility under 40 *CFR* 761.77, or		40 *CFR* 761.61(b)(2)(i)
	• Through decontamination in accordance with 40 *CFR* 761.79.		40 *CFR* 761.61(b)(2)(ii)
Risk-based disposal of PCB remediation waste	May dispose of in a manner other than prescribed in 40 *CFR* 761.61(a) or (b) if the method will not pose an unreasonable risk of injury to health or the environment.	Disposal of PCB remediation waste—**applicable**	40 *CFR* 761.61(c)
Disposal of PCB decontamination waste and residues	Shall be disposed at their existing PCB concentration unless otherwise specified in 40 *CFR* 761.79(g).	PCB decontamination waste and residues for disposal—**applicable**	40 *CFR* 761.79(g)
Disposal of PCB liquids (e.g., from drained electrical equipment)	Must be disposed of in an incinerator which complies with 40 *CFR* 761.70, except:	PCB liquids at concentrations ≥ 50 ppm—**applicable**	40 *CFR* 761.60(a)
	For mineral oil dielectric fluid, may be disposed in a high efficiency boiler according to 40 *CFR* 761.71(a).	PCB liquids at concentrations ≥ 50 ppm and < 500 ppm—**applicable**	40 *CFR* 761.60(a)(1)
	For liquids other than mineral oil dielectric fluid, may be disposed in a high efficiency boiler according to 40 *CFR* 761.71(b).		40 *CFR* 761.60(a)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Disposal of PCB-contaminated precipitation, condensation, or leachate	May be disposed in a chemical waste landfill which complies with 40 *CFR* 761.75 if:	PCB liquids at concentrations ≥ 50 ppm from incidental sources and associated with PCB Articles or nonliquid PCB wastes—**applicable**	40 *CFR* 761.60(a)(3)
	- Disposal does not violate 40 *CFR* 268.32(a) or 268.42(a)(1) and		40 *CFR* 761.60(a)(3)(i)
	- Liquids do not exceed 500 ppm and are not ignitable waste as described in 40 *CFR* 761.75(b)(8)(iii).		40 *CFR* 761.60(a)(3)(ii)
Disposal of PCB transformers	Shall be disposed of in one of the following:	Disposal of PCB transformers that contain PCBs at concentrations of ≥ 500 ppm in the contaminating fluid as defined in 40 *CFR* 761.3—**applicable**	40 *CFR* 761.60(b)(1)
	- An incinerator that complies with 40 *CFR* 761.70		40 *CFR* 761.60(b)(1)(i)(A)
	- A chemical waste landfill that is compliant with 40 *CFR* 761.75 provided all free-flowing liquid is removed from the transformer, the transformer is filled with a solvent, the transformer is allowed to stand for at least 18-continuous hours, and then the solvent is thoroughly removed.		40 *CFR* 761.60(b)(1)(i)(B)
Performance-based disposal of PCB bulk product waste	May dispose of by one of the following:	Disposal of PCB bulk product waste as defined in 40 *CFR* 761.3—**applicable**	40 *CFR* 761.62(a)
	- In an incinerator under 40 *CFR* 761.70		40 *CFR* 761.62(a)(1)
	- In a chemical waste landfill under 40 *CFR* 761.75		40 *CFR* 761.62(a)(2)
	- In a hazardous waste landfill under Section 3004 or Section 3006 of RCRA		40 *CFR* 761.62(a)(3)
	- Under alternate disposal under 40 *CFR* 761.60(e)		40 *CFR* 761.62(a)(4)
	- In accordance with decontamination provisions of 40 *CFR* 761.79		40 *CFR* 761.62(a)(5)
	- In accordance with the thermal decontamination provisions of 40 *CFR* 761.79(e)(6) for metal surfaces in contact with PCBs.		40 *CFR* 761.62(a)(6)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Risk-based disposal of PCB bulk product waste	May dispose of in a manner other than that prescribed in 40 *CFR* 761.62(a) if approved in writing by EPA and method will not pose an unreasonable risk of injury to health or the environment.	Disposal of PCB bulk product waste as defined in 40 *CFR* 761.3—**applicable**	40 *CFR* 761.62(c)
Disposal of PCB bulk product waste in solid waste landfill	May dispose of the following in a municipal or nonmunicipal nonhazardous waste landfill:	Disposal of nonliquid PCB bulk product waste listed in 40 *CFR* 761.62(b)(1)—**applicable**	40 *CFR* 761.62(b)(1)
	• Plastics (such as plastic insulation from wire or cable; radio, television and computer casings; vehicle parts; or furniture laminates); preformed or molded rubber parts and components; applied dried paints, varnishes, waxes or other similar coatings or sealants; caulking; Galbestos; nonliquid building demolition debris; or nonliquid PCB bulk product waste from the shredding of automobiles or household appliances from which PCB small capacitors have been removed (shredder fluff)		40 *CFR* 761.62(b)(1)(i)
	• Other PCB bulk product waste, sampled in accordance with the protocols set out in subpart R of 40 *CFR* Part 761 that leaches PCBs at < 10 µg/L of water measured using a procedure used to simulate leachate generation.		40 *CFR* 761.62(b)(1)(ii)
	May dispose of in a municipal or nonmunicipal nonhazardous waste landfill if:	PCB bulk product waste not meeting conditions of 40 *CFR* 761.62(b)(1) (e.g., paper/felt gaskets contaminated by liquid PCBs)—**applicable**	40 *CFR* 761.62(b)(2)
	• The PCB bulk product waste is segregated from organic liquids disposed of in the landfill and		40 *CFR* 761.62(b)(2)(i)
	• Leachate is collected from the landfill and monitored for PCBs.		40 *CFR* 761.62(b)(2)(ii)
Disposal of fluorescent light ballasts	Must be disposed of in a TSCA disposal facility as bulk product waste under 40 *CFR* 761.62 or in accordance with the decontamination provisions of 40 *CFR* 761.79.	Generation for disposal of fluorescent light ballasts containing PCBs in the potting material—**applicable**	40 *CFR* 761.60(b)(6)(iii)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Disposal of PCB-contaminated electrical equipment (except capacitors)	Must remove all free-flowing liquid from the electrical equipment and dispose of the removed liquid in accordance with 40 *CFR* 761.60(a) and	Generation of PCB-contaminated electrical equipment (as defined in 40 *CFR* 761.3) for disposal—**applicable**	40 *CFR* 761.60(b)(4)
	Dispose of by one of the following methods: • In a facility managed as a municipal solid waste or nonmunicipal nonhazardous waste facility • In an industrial furnace operating in compliance with 40 *CFR* 761.72, or • In a disposal facility under 40 *CFR* 761.60.	Drained PCB-contaminated electrical equipment including any residual liquids—**applicable**	40 *CFR* 761.60(b)(4)(i)
Disposal of PCB capacitor(s)	Any person must assume that a capacitor manufactured prior to July 2, 1979, whose PCB concentration is not established, contains ≥ 500 ppm PCBs. If the date of manufacture is unknown, any person must assume the capacitor contains ≥ 500 ppm PCBs.	Generation of PCB capacitors with ≥ 500 ppm PCBs for disposal—**applicable**	40 *CFR* 761.2(a)(4)
	Shall comply with all requirements of 40 *CFR* 761.60 unless it is known from label or nameplate information, manufacturer's literature, or chemical analysis that capacitor does not contain PCBs.		40 *CFR* 761.60(b)(2)(i)
	Shall dispose of in accordance with either of the following: • Disposal in an incinerator that complies with 40 *CFR* 761.70 • Disposal in a chemical waste landfill that complies with 40 *CFR* 761.75.	Generation of PCB capacitors with ≥ 500 ppm PCBs for disposal—**applicable**	40 *CFR* 761.60(b)(2)(iii)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Disposal of PCB capacitor(s) (continued)	Shall dispose of in one of the following disposal facilities approved under 40 *CFR* 761.60: • Incinerator under 40 *CFR* 761.70 • Chemical waste landfill under 40 *CFR* 761.75 • High efficiency boiler under 40 *CFR* 761.71 • Scrap metal recovery oven or smelter under 40 *CFR* 761.72	Disposal of large capacitors that contain ≥ 50 ppm but < 500 ppm PCBs—**applicable**	40 *CFR* 761.60(b)(4)(ii)
	May dispose of in municipal solid waste landfill.	Generation of PCB small capacitors (as defined in 40 *CFR* 761.3) for disposal—**applicable**	40 *CFR* 761.60(b)(2)(ii)
Disposal of PCB-contaminated articles	Must remove all free-flowing liquid from the Article, disposing of the liquid in compliance with the requirements of 40 *CFR* 761.60(a)(2) or (a)(3) and	Generation of PCB-contaminated Articles (as defined in 40 *CFR* 761.3) for disposal—**applicable**	40 *CFR* 761.60(b)(6)(ii)
	Dispose by one of the following methods: • In accordance with the decontamination provisions at 40 *CFR* 761.79 • In a facility managed as a municipal solid waste or nonmunicipal nonhazardous waste facility • In an industrial furnace operating in compliance with 40 *CFR* 761.72, or • In a disposal facility under 40 *CFR* 761.60.	Disposal of PCB-contaminated articles with no free-flowing liquid—**applicable**	40 *CFR* 761.60(b)(6)(ii)(A) thru (D)
Transportation of PCB wastes off site for disposal	Must comply with the manifesting provisions at 40 *CFR* 761.207 through 218.	Preparation for relinquishment of control over PCB wastes by transporting or offering for transport—**applicable**	40 *CFR* 761.207(a)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
RADIOACTIVE WASTE			
Design, construction, operation and closure of a low-level radioactive waste landfill			
Radiation protection of the public and the environment	Except as provided in 458.1(4)(c), exposure to individual members of the public from radiation shall not exceed a total EDE of 0.1 rem/year (100 mrem/year), an equivalent dose to the lens of the eye exceeding 1500 mrem/year, or an equivalent dose to the skin or extremities exceeding 5,000 mrem/year, exclusive of the dose contributions from background radiation, any medical administration the individual has received, or voluntary participation in medical/research programs.	Release of radionuclides to the environment from all sources of ionizing radiation and exposure pathways at a DOE facility that could contribute significantly to the total dose—**TBC**	DOE Order 458.1(4)(b) and (c)
	Shall use, to the extent practicable, procedures and engineering controls based on sound radiation protection principles to achieve doses to members of the public that are ALARA.		DOE Order 458.1(4)(d)
	Must not exceed 3 pCi/L annual average radon-220 and radon-222 concentration, not including background, at the site boundary if DOE activities release radon-220 and radon-222 or their decay products.	DOE activities that release radon-220 and radon-222 or their decay products—**TBC**	DOE Order 458.1(4)(f)(5)
	Except as provided in *OAC* 3701:1-38-13(C), exposure to individual members of the public from radiation shall not exceed 1 millisievert (0.1 rem) in a year, exclusive of the dose contributions from background radiation, any medical administration the individual has received, or voluntary participation in medical/research programs.	Licensee or registrant conducting operations that release radioactivity—**relevant and appropriate**	*OAC* 3701:1-38-13(A)(1)
	The dose in any unrestricted area from external sources, exclusive of the dose contribution from patients administered radioactive material and released in accordance with *OAC* 3701:1-58-30 or equivalent U.S. nuclear regulatory agency or agreement state regulations, shall not exceed 0.02 millisievert (0.002 rem) in any 1 hour.		*OAC* 3701:1-38-13(A)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Management, storage and disposal of LLW	Management, storage, and disposal must be conducted in a manner such that exposure to members of the public to radiation from radioactive waste complies with ALARA process requirements and does not exceed a TED of 25 mrem in a year from all exposure pathways and radiation sources associated with the waste, except for transportation and radon and its decay products.	Management, storage, and disposal of low-level radioactive waste—**TBC**	DOE Order 458.1(h)(1)(c)
Siting of a LLW disposal facility	Proposed locations for low-level waste facilities shall be evaluated considering environmental characteristics, geotechnical characteristics, and human activities, including whether it is located in a floodplain, a tectonically active area, or in a zone of water table fluctuation.	Construction of a LLW disposal facility—**TBC**	DOE M 435.1-1(IV)(M)(1)(a)(2)
	Proposed locations with environmental and geotechnical characteristics, and human activities for which adequate protection cannot be provided through the facility design shall be deemed unsuitable for location of the facility.		DOE M 435.1-1(IV)(M)(1)(b)
Siting, design, and operation of a DOE LLW disposal facility	LLW disposal facilities shall be sited, designed, operated, maintained, and closed so that a reasonable expectation exists that the following performance objectives will be met:	Siting, design, operation, maintenance, and closure of DOE LLW disposal facility—**TBC**	DOE M 435.1-1(IV)(P)(1)
	Dose to representative members of the public shall not exceed 25 mrem in a year total effective dose equivalent from all exposure pathways, excluding the dose from radon and its progeny in air.		DOE M 435.1-1(IV)(P)(1)(a)
	Dose to representative members of the public via air pathway shall not exceed 10 mrem in a year total EDE, excluding the dose from radon and its progeny.		DOE M 435.1-1(IV)(P)(1)(b)
	Release of radon shall be less than an average flux of 20 pCi/m2/s (0.74 Bq/m^2/s) at the surface of the disposal facility. Alternatively, a limit of 0.5 pCi/L (0.0185 Bq/L) of air may be applied at the boundary of the facility.	Operation of a LLW disposal facility at a DOE site—**TBC**	DOE M 435.1-1(IV)(P)(1)(c)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Siting, design, and operation of a DOE LLW disposal facility (continued)	Operating procedures must protect the public, workers, and the environment, ensure the security of the facility, minimize subsidence during and after waste placement, achieve long-term stability and minimize the need for long-term active maintenance, and meet the requirements of the closure/post-closure plan.		DOE M 435.1-1 (IV)(P)(6)(a)
	Permanent identification marks for disposal excavations and monitoring wells shall be emplaced.		DOE M 435.1-1 (IV)(P)(6)(b)
	Operations shall be conducted so that disposal operations do not have adverse effects on any other disposal unit low-level wastes.		DOE M 435.1-1 (IV)(P)(6)(d)
	Operations shall include a process for tracking and documenting low-level waste placement in the facility by generator source.		DOE M 435.1-1 (IV)(P)(6)(e)
Environmental monitoring at a LLW disposal facility	The environmental monitoring program shall be designed and operated to include measuring and evaluating releases, migration of radionuclides, disposal unit subsidence, and changes in disposal facility and disposal site parameters which may affect long term performance.	Operation of a LLW disposal facility at a DOE site—**TBC**	DOE M 435.1-1(IV)(R)(3)(b)
Control and stabilization of uranium-bearing wastes at a DOE site	Control and stabilization features shall be designed to: • Provide to the extent reasonably achievable an effective life of 1,000 years with a minimum of at least 200 years	Long-term management of uranium and its decay products—**TBC**	DOE Order 458.1(4)(h)(1)(d)(1)(a)
	• Limit radon-222 emanation to the atmosphere from the wastes to less than an annual average release rate of 20 pCi/m^2/s and prevent increase in the annual average radon-222 concentration at or above any location outside the boundary of the contaminated area by more than 0.5 pCi/L.		DOE Order 458.1(4)(h)(1)(d)(1)(b)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Facility requirements for land disposal of radioactive waste – performance objectives	Land disposal facilities shall be sited, designed, operated, closed, and controlled after closure to provide reasonable assurance that the following performance objectives will be met:	Siting, design, operation and closure of a licensed radioactive waste land disposal facility—**relevant and appropriate**	*OAC* 3701:1-54-08(B)
	• Concentrations of radioactive material which may be released to the general environment in ground water, surface water, air, soil, plants, or animals must not result in an annual dose exceeding the equivalent of 0.25 millisievert (25 millirem) to the whole body, 0.75 millisievert (75 millirem) to the thyroid, or 0.25 millisievert (25 millirem) to any other organ to any member of the public. Reasonable effort should be made to maintain releases of radioactivity in effluents to the general environment as low as is reasonably achievable.		*OAC* 3701:1-54-08(B)(1)
	• Disposal facility shall be sited, designed, used, operated, and closed to achieve long-term stability of the disposal site and to eliminate, to the extent practical, the need for ongoing active maintenance of the disposal site after closure so that only surveillance, monitoring, or minor custodial care are required.		*OAC* 3701:1-54-08(B)(4)
	• Shall develop and implement security measures to protect against and to detect unauthorized access to radioactive material or safety and security systems from external as well as internal threats. Shall perform periodic inspections to ensure all radioactive material is accounted for and that safety and security systems are operating as designed. Shall report any deficiency involving the radioactive material inventory or a safety and security system.		*OAC* 3701:1-54-08(B)(5)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Facility requirements for land disposal of radioactive waste – performance objectives (continued)	• Radioactive waste and its containers shall be protected from adverse environmental conditions including, but not limited to, temperature changes that could compromise the isolation of the waste from the biosphere.		*OAC* 3701:1-54-08(B)(6)
	• Shall use standard engineering designs and procedural practices to maintain doses to people, and radionuclide releases to environment, as low as reasonably achievable.		*OAC* 3701:1-54-08(B)(7)
Facility requirements for land disposal of radioactive waste – operational requirements	The operation of the disposal facility shall incorporate the following items:	Operation of a licensed radioactive waste land disposal facility—**relevant and appropriate**	*OAC* 3701:1-54-08(C)
	• Waste shall be packaged in appropriate containers for disposal when applicable. Wastes shall be emplaced in a manner that maintains the package integrity during emplacement, minimizes void spaces between packages, and permits the void spaces to be filled.		*OAC* 3701:1-54-08(C)(4)
	• Void spaces between packages shall be filled as needed to reduce future subsidence within the fill.		*OAC* 3701:1-54-08(C)(5)
	• Boundaries and locations of each disposal unit shall be accurately located and mapped by means of a land survey. Disposal units shall be marked in such a way that boundaries of each unit can be easily defined. Three permanent survey marker control points shall be established on the site to facilitate surveys.		*OAC* 3701:1-54-08(C)(7)
	• A buffer zone of land shall be maintained between any disposed waste and the disposal site boundary and beneath the disposed waste. Buffer zone shall be of adequate dimensions to carry out environmental monitoring activities specified in *OAC* 3701:1-54-09(E) and to take mitigative measures if needed.		*OAC* 3701:1-54-08(C)(8)
	• Closure and stabilization measures as set forth in the approved site closure plan shall be carried out as each disposal unit is filled and covered.		*OAC* 3701:1-54-08(C)(9)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Facility requirements for land disposal of radioactive waste – operational requirements (continued)	• Active waste disposal operations shall not have an adverse effect on completed closure and stabilization measures.		*OAC* 3701:1-54-08(C)(10)
Land disposal of radioactive waste – site selection, design, and environmental assessment	The primary emphasis in disposal site suitability is given to isolation of wastes and to disposal site features that ensure that the long-term performance objectives are met. Suitable disposal site features shall include:	Siting and design of a licensed radioactive waste land disposal facility—**relevant and appropriate**	*OAC* 3701:1-54-09(A)(1)
	• Shall be capable of being characterized, modeled, analyzed and monitored.		*OAC* 3701:1-54-09(A)(1)(a)
	• Areas shall be avoided having known natural resources that, if exploited, could result in failure to meet the performance objectives.		*OAC* 3701:1-54-09(A)(1)(c)
	• Site shall be generally well drained and free of areas of flooding or frequent ponding; shall not be located in a 100-year flood plain, coastal high-hazard area, or wetland, as defined in Federal Executive Order 11988, "Floodplain Management Guidelines," and shall be designed and constructed to be outside the 500-year floodplain.		*OAC* 3701:1-54-09(A)(1)(d)
	• Upstream drainage areas shall be minimized to decrease the amount of runoff that could erode or inundate waste disposal units.		*OAC* 3701:1-54-09(A)(1)(e)
	• Site shall provide sufficient depth to the water table that ground water intrusion, perennial or otherwise, into the waste will not occur.		*OAC* 3701:1-54-09(A)(1)(f)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Land disposal of radioactive waste – site selection, design, and environmental assessment (continued)	• The hydrogeologic unit used for disposal shall not discharge groundwater to the surface within the disposal site. The soil or rock layers immediately beneath the facility, but above the water table shall have good vertical drainage or be engineered to have good drainage to prevent water from ponding around the base of the facility. The shallowest hydrogeologic unit beneath the facility shall not discharge perennially to the site.		*OAC* 3701:1-54-09(A)(1)(g)
	• Areas shall be avoided where tectonic processes such as faulting, folding, seismic activity, or vulcanization may occur with such frequency and extent that it may significantly affect the ability of the disposal site to meet the performance objectives of this rule or may preclude defensible modeling and prediction of long-term impacts.		*OAC* 3701:1-54-09(A)(1)(h)
	• Areas should be avoided where surface geologic processes such as mass wasting, erosion, slumping, landsliding, or weathering occur with such frequency and extent that it may significantly affect the ability of the disposal site to meet the performance objectives of this rule, or may preclude defensible modeling and prediction of long-term impacts.		*OAC* 3701:1-54-09(A)(1)(i)
	• Site must not be located where nearby facilities or activities could affect the ability of the site to meet the performance objectives or mask the environmental monitoring program.		*OAC* 3701:1-54-09(A)(1)(j)
Radioactive generation, characterization, and segregation			
Characterization of LLW	Shall be characterized using direct or indirect methods and the characterization documented in sufficient detail to ensure safe management and compliance with the WAC of the receiving facility.	Generation of LLW for storage or disposal at a DOE facility—**TBC**	DOE M 435.1-1(IV)(I)
	Characterization data shall, at a minimum, include the following information relevant to the management of the waste:		DOE M 435.1-1(IV)(I)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Characterization of LLW (continued)	• Physical and chemical characteristics		DOE M 435.1-1(IV)(2)(a)
	• Volume, including the waste and any stabilization or absorbent media		DOE M 435.1-1(IV)(I)(2)(b)
	• Weight of the container and contents		DOE M 435.1-1(IV)(I)(2)(c)
	• Identities, activities, and concentrations of major radionuclides		DOE M 435.1-1(IV)(I)(2)(d)
	• Characterization date		DOE M 435.1-1(IV)(I)(2)(e)
	• Generating source		DOE M 435.1-1(IV)(I)(2)(f)
	• Any other information which may be needed to prepare and maintain the disposal facility performance assessment, or demonstrate compliance with performance objectives.		DOE M 435.1-1(IV)(I)(2)(g)
Decontamination of radioactively contaminated equipment and building structures	Property potentially containing residual radioactive material must not be released or cleared from DOE control unless it is either demonstrated not to contain residual radioactive material based on process and historical knowledge, radiological monitoring or surveys, or a combination of these; or the property is evaluated and appropriately monitored or surveyed in accordance with DOE Order 458.1(4)(k)(3)(b).	Residual radioactive material on equipment and building structures for unrestricted use—**TBC**	DOE Order 458.1(4)(k)(3)
Release of radiological materials or scrap metal for recycle or reuse	Before being released, property shall be monitored or surveyed to determine the types and quantities of residual radioactive material within the property; the quantities of removable and total residual radioactive material on property surfaces (including residual radioactive material on or under any coating); and that contamination within or on the property is in compliance with applicable DOE Authorized Limits of DOE Order 458.1(4)(k)(6).	Radionuclide-contaminated materials and equipment intended for recycle or reuse—**TBC**	DOE Order 458.1(4)(k)(3)(b)(1)–(2) and (4)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Release of radiological materials or scrap metal for recycle or reuse (continued)	Where potentially contaminated surfaces are difficult to access for measurement (as in some pipes, drains, and ductwork), such property may be released after case-by-case evaluation and documentation based on both the history of its use and available measurements sufficient to demonstrate that the unsurveyable surfaces are likely to meet DOE Authorized Limits.		DOE Order 458.1(4)(k)(3)(b)(3)
	Radioactive storage		
Preparation of solid LLW for storage	Shall be packaged in a manner that provides containment and protection for the duration of the anticipated storage period and until disposal is achieved or until waste has been removed from container.	Management and storage of LLW in containers at a DOE facility—**TBC**	DOE M 435.1-1 IV.L(1)(a)
	Vents or other measures shall be provided if the potential exists for pressurizing or generating flammable or explosive concentrations of gases within the waste container. Containers shall be marked such that their contents can be identified.		DOE M 435.1-1 IV.L(1)(b) and (c)
Temporary staging and storage of LLW	Ensure radioactive waste is stored in a manner that protects the public, workers, and the environment and that the integrity of waste storage is maintained for expected time of storage.	Management and storage of LLW at a DOE facility—**TBC**	DOE M 435.1-1 I.F(13) DOE M 435.1-1 IV.N(1)
	Shall not be readily capable of detonation, explosive decomposition, reaction at anticipated pressures and temperatures, or explosive reaction with water.		
	Shall be stored in a location and manner that protects the integrity of waste for the expected time of storage.		DOE M 435.1-1 IV.N(3)
	Shall be managed to identify and segregate LLW from mixed waste.		DOE M 435.1-1 IV.N(6)
	Staging of LLW shall be for the purpose of accumulation of such quantities of waste as necessary to facilitate transportation, treatment, and disposal.		DOE M 435.1-1 IV.N(7)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
	Radioactive waste treatment/disposal		
Treatment of LLW	Waste treatment to provide more stable waste forms and to improve the long-term performance of a LLW disposal facility shall be implemented as necessary to meet performance objectives of the disposal facility.	Generation of LLW for disposal at a DOE LLW facility—**TBC**	DOE M 435.1-1 IV.O
Treatment of uranium-bearing LLW	Such wastes shall be properly conditioned so that the generation and escape of biogenic gases will not cause the emission or dose limits in paragraph 4.h.(1) of DOE Order 458.1 to be exceeded and that biodegradation within the facility will not result in premature structural failure.	Placement of potentially biodegradable contaminated wastes in a long-term management facility—**TBC**	DOE Order 458.1(h)(1)(d)(3)
Disposal of LLW in a landfill	Waste placement into disposal units shall minimize voids between containers with the voids filled to the extent practicable. Uncontainerized bulk waste shall be placed to minimize voids and subsidence.	Operation of a LLW disposal facility at a DOE site—**TBC**	DOE M 435.1-1 (IV)(P)(6)(c)
	Void spaces within the waste and, if containers are used, between the waste and its container shall be reduced to the extent practical.		DOE M 435.1-1 (IV)(G)(1)(d)(1)
Land disposal of radioactive waste – waste classification and characteristics	The following waste characteristics are minimum requirements for all classes of waste and are intended to facilitate handling at the disposal site and provide protection of health and safety of personnel at the disposal site.	Land disposal of radioactive waste in a licensed radioactive waste landfill—**relevant and appropriate**	*OAC* 3701:1-54-10(B)
	Waste must not be packaged for disposal in cardboard or fiberboard boxes.		*OAC* 3701:1-54-10(B)(1)
	Liquid waste must be solidified or packaged in sufficient absorbent material to absorb twice the volume of the liquid.		*OAC* 3701:1-54-10(B)(2)
	Solid waste containing liquid shall contain as little free standing and noncorrosive liquid as is reasonably achievable, but in no case shall the liquid exceed 1% of the volume.		*OAC* 3701:1-54-10(B)(3)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action^a	Requirements^b	Prerequisite	Citation
Land disposal of radioactive waste – waste classification and characteristics (continued)	Waste must not be readily capable of detonation or of explosive decomposition or reaction at normal pressures and temperatures, or of explosive reaction with water.		*OAC* 3701:1-54-10(B)(4)
	Waste must not contain or be capable of generating quantities of toxic gases, vapors, or fumes harmful to persons transporting, handling, or disposing of the waste. This does not apply to radioactive gaseous waste packaged in accordance with paragraph (B)(7) of this rule.		*OAC* 3701:1-54-10(B)(5)
	Waste must not be pyrophoric. Pyrophoric materials contained in waste shall be treated, prepared, and packaged to be nonflammable.		*OAC* 3701:1-54-10(B)(6)
	The requirements in this rule are intended to provide stability of the waste. Stability is intended to ensure that the waste does not structurally degrade and affect overall stability of the site through slumping, collapse, or other failure of the disposal unit and thereby lead to water infiltration. Stability is also a factor in limiting exposure to an inadvertent intruder, since it provides a recognizable and nondispersible waste.		*OAC* 3701:1-54-10(B)(9)
	• Waste must have structural stability. A structurally stable waste form will generally maintain its physical dimensions and its form, under the expected disposal conditions such as weight of overburden and compaction equipment, presence of moisture, and microbial activity, and internal factors such as radiation effects and chemical changes. Structural stability can be provided by the waste form itself, processing the waste to a stable form, or placing the waste in a disposal container or structure that provides stability after disposal.		*OAC* 3701:1-54-10(B)(9)(a)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Land disposal of radioactive waste – waste classification and characteristics (continued)	• Notwithstanding provisions in *OAC* 3701:1-54-10 (B)(2) and (3), liquid wastes, or wastes containing liquid, must be converted into a form that contains as little free standing and noncorrosive liquid as is reasonably achievable, but in no case shall the liquid exceed 1% of the volume of the waste when the waste is in a disposal container designed to ensure stability, or 0.5% of the volume of the waste for waste processed to a stable form.		*OAC* 3701:1-54-10(B)(9)(b)
Disposal of solid LLW at DOE facilities	Shall meet waste acceptance requirements before it is transferred to the receiving facility.	Generation of LLW for disposal at a DOE facility—**TBC**	DOE M 435.1-1 (IV)(J)(2)
Transportation of radioactive waste off site for disposal	Shall be packed and transported in accordance with the substantive requirements of DOE Order 460.1C (*Packaging and Transportation Safety*) and DOE Order 460.2A (*Departmental Materials Transportation and Packaging Management*).	Preparation of shipment of radioactive waste—**TBC**	DOE M 435.1-1(I)(1)(E)(11)
	To the extent practicable, the volume of waste and number of shipments shall be minimized.		DOE M 435.1-1(III)(L)(2) DOE M 435.1-1(IV)(L)(2)
ASBESTOS-CONTAINING WASTE			
	Operation and closure of an asbestos-containing waste disposal site		
Operation of an active ACM waste disposal site	Shall cause or permit no visible emissions to the outside air; or shall comply with the requirements of *OAC* 3745-20-06(B) [as noted below].	Operation of an active waste disposal site that receives ACM—**applicable**	*OAC* 3745-20-06(A)
	Shall be no visible emissions to the outside air from ACM during the on-site transportation, transfer, deposition, or compacting operations.		*OAC* 3745-20-06(B)(1)
	Deposition and burial operations shall be conducted in a manner which prevents handling by equipment or persons that causes asbestos-containing waste materials to be broken up or dispersed before the materials are buried.		*OAC* 3745-20-06(B)(2)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Operation of an active ACM waste disposal site (continued)	As soon as practicable after deposition of the ACM but no later than at the end of each operating day, the ACM deposited during the operating day shall be covered with at least 12 in. of compacted nonasbestos-containing material. Alternatively, may apply for approval to utilize alternative control methods to bind dust, control wind erosion or convert asbestos to nonfriable forms.		*OAC* 3745-20-06(B)(3)
	During the unloading, deposition, burial, and initial compaction of ACM, must establish a restricted area adequate to deter the unauthorized entry of the general public and any unauthorized personnel from any location within 100 ft of the operations; and		*OAC* 3745-20-06(B)(4)
	Shall display a sign not less than 20 ×14 in. so that it is visible at all entrances and at intervals of 300 ft or less along the property line or the fencing immediately surrounding the restricted area using wording, letter sizes, and styles in accordance with specifications listed in *OAC* 3745-20-06(B)(5).		*OAC* 3745-20-06(B)(5)
Inventory requirements	Maintain until closure records of the location, depth and area, and quantity in cubic yards of asbestos-containing waste material within the disposal site on a map or diagram.	Operation of an active waste disposal site that receives ACM—**applicable**	40 *CFR* 61.154(f) *OAC* 3745-20-06(C)(2)
Closure of an asbestos-containing waste disposal site	Upon closure, meet the following requirements:	Closure of an active asbestos-containing waste disposal site—**applicable**	40 *CFR* 61.154(g) – (h) *OAC* 3745-20-06(E)
	• Either discharge no visible emissions to the outside air or		40 *CFR* 61.151(a)(1) *OAC* 3745-20-07(A)(1)
	• Cover the waste material with at least 15 cm (6 in.) of compacted nonasbestos-containing material and grow and maintain a vegetative cover on the area adequate to prevent exposure of ACM or		40 *CFR* 61.151(a)(2) *OAC* 3745-20-07(A)(2)
	• Cover the waste material with at least 60 cm (2 ft) of compacted nonasbestos-containing material, and maintain it to prevent exposure of the asbestos-containing waste		40 *CFR* 61.151(a)(3) *OAC* 3745-20-07(A)(3)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Closure of an asbestos-containing waste disposal site (continued)	• Unless a natural barrier adequately deters access by the general public, install and maintain warning signs and fencing as detailed in 40 *CFR* 61.151(b)(1) – (3)		40 *CFR* 61.151(b) *OAC* 3745-20-07(B)
	• Owner may use an alternative method of controlling the asbestos that has received prior approval of the Administrator rather than comply with the requirements of 40 *CFR* 61.151(a) or (b).		40 *CFR* 61.151(c) *OAC* 3745-20-07(C).
	NOTE: Approval would be granted through the DFF&O document approval process and included in the appropriate DFF&O document.		
	Asbestos-containing waste treatment and disposal		
Management of ACM prior to disposal	Discharge no visible emissions to the outside air, or use one of the emission control and waste treatment methods specified in Paragraphs (a)(1) through (a)(4) of 40 *CFR* 61.150 [Paragraphs (B)(1) through (B)(4) of *OAC* 3745-20-05].	Generation, collection, processing, packaging, and transporting of any ACM that is not Category I or II nonfriable ACM waste that did not become crumbled, pulverized, or reduced to powder [40 *CFR* 61.150(a)(5)]—**applicable**	40 *CFR* 61.150(a) *OAC* 3745-20-05(B)
Disposal of asbestos-containing waste material (e.g., transite siding, pipe lagging, insulation, ceiling tiles)	All asbestos-containing waste material must be adequately wetted, collected, sealed in leak-proof containers, and deposited as soon as practicable at an approved waste disposal site operated in accordance with Section 61.154 [*OAC* 3745-20-06] or a site that converts RACM and asbestos-containing waste material into nonasbestos (asbestos-free) material according to provisions of 40 *CFR* 61.155 [*OAC* 3745-20-13].	Removal and disposal of RACM, except Category I nonfriable asbestos-containing material**—applicable**	40 *CFR* 61.150(b)(1) - (2) *OAC* 3745-20-05(A)
	The requirements of 40 *CFR* 61.150(b)(1) and (2) [*OAC* 3745-20-05(A)] do not apply to Category I nonfriable ACM that is not RACM.		40 *CFR* 61.150(b)(3) *OAC* 3745-20-05(A)(4)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Disposal of asbestos-containing waste material (e.g., transite siding, pipe lagging, insulation, ceiling tiles) (continued)	May use an alternative emission control and waste treatment method that will control asbestos emissions equivalent to currently required methods, if the alternative method is suitable for the intended application, and the alternative method will not violate other regulations and will not result in increased water or land pollution or occupational hazards.		40 *CFR* 61.150(a)(4) *OAC* 3745-20-05(B)(4)
Transportation of asbestos-containing waste materials off site for disposal	For asbestos-containing waste material to be transported off the facility site, label containers or wrapped materials with the name of the waste generator and location at which the waste was generated.	Preparation of asbestos-containing waste materials for off-site transport—**applicable**	40 *CFR* 61.150(a)(1)(v) *OAC* 3745-20-05(C)(1)
	Mark vehicles used to transport asbestos-containing waste material during the loading and unloading of waste so that the signs are visible. The markings must conform to the requirements of 40 *CFR* 61.149(d)(1)(i), (ii), and (iii).		40 *CFR* 61.150(c) *OAC* 3745-20-05(E)
UNIVERSAL WASTES			
	Characterization and management		
Characterization and management of universal waste	Must manage universal waste in accordance with 40 *CFR* 273 [*OAC* 3745-273-33] in a way that prevents releases of any universal waste or component of a universal waste to the environment.	Generation of universal waste [as defined in 40 *CFR* 273 and *OAC* 3745-273] for disposal—**applicable**	40 *CFR* 273.33 *OAC* 3745-273-33(A)
	Must label or mark the universal waste to identify the type of universal waste.		40 *CFR* 273.34 *OAC* 3745-273-34
	May accumulate waste for no longer than 1 year from the date the waste is generated or received from another handler unless the requirements of 40 *CFR* 273.35(b) [*OAC* 3745-273-35(B)] are met.		40 *CFR* 273.35(a) *OAC* 3745-273-35(A)
	May accumulate universal waste for longer than 1 year from the date the waste is generated or received from another handler if such activity is solely for the purpose of accumulation of such quantities of universal waste as necessary to facilitate proper recovery, treatment, or disposal. However, the handler bears the burden of proving that such activity was solely for this purpose.		40 *CFR* 273.35(b) *OAC* 3745-273-35(B)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Characterization and management of universal waste (continued)	Shall ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures relative to their responsibilities during normal facility operations and emergencies.		40 *CFR* 273.36 *OAC* 3745-273-36
	Must immediately contain all releases of universal wastes and other residues from universal wastes, and must determine whether any material resulting from the release is hazardous waste, and if so, must manage the hazardous waste in compliance with all applicable requirements.		40 *CFR* 273.37 *OAC* 3745-273-37
	Transportation		
Transportation of universal waste off site	Off-site shipments of universal waste by a large quantity handler of universal waste shall be made in accordance with 40 *CFR* 273.38 [*OAC* 3745-273-38].	Preparation of universal waste for off-site transport—**applicable**	40 *CFR* 273.38(c) *OAC* 3745-273-38(C)
	Must keep a record of each shipment of universal waste received and sent from the facility and retain record for at least 3 years. Record must include waste handler, shipper, or destination facility name and address, quantity and type of waste, and date shipment left or was received at facility.		40 *CFR* 273.39 *OAC* 3745-273.39
	Off-site shipments to a foreign destination must comply with requirements applicable to a primary exporter in *OAC* 3745-52-10, 3745-52-53, 3745-52-56 and 3745-52-57 and export waste only upon consent of the receiving country and in conformance with the EPA "Acknowledgement of Consent" as defined in *OAC* 3745-52-50 to 3745-52-57. A copy of the consent must be provided to the transporter.		40 *CFR* 273.40 *OAC* 3745-273.40

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Batteries			
Management of universal waste batteries	A large quantity handler of universal waste must contain any universal waste battery that shows evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions in a container. Container must be closed, structurally sound, compatible with the contents of the battery, and lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions.	Generation of universal waste batteries [as defined in 40 *CFR* 273.9 and *OAC* 3745-273-02]—**applicable**	40 *CFR* 273.33(a)(1) *OAC* 3745-273-33(A)(1)
	Batteries, or container or tank in which the batteries are contained, must be labeled or marked clearly with any one of the following phrases: "Universal Waste – Battery(ies)" or "Waste Batter(ies)" or "Used Battery(ies)."		40 *CFR* 273.34(a) *OAC* 3745-273-34(A)
Pesticides			
Management of universal waste pesticides	A large quantity handler of universal waste pesticide must contain the pesticide in a container that remains closed, structurally sound, compatible with the pesticide, and that lacks evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions. A leaking pesticide container must be put into an overpack container, tank, or transport container, as detailed in 40 *CFR* 273.33(b) [*OAC* 3745-273-33(B)].	Generation of universal waste pesticides [as defined in 40 *CFR* 273.9 and *OAC* 3745-273-03]—**applicable**	40 *CFR* 273.33(b) *OAC* 3745-273-33(B)(1) – (4)
	A container, tank, transport vehicle or vessel in which recalled or unused pesticides are contained must be labeled or marked clearly with the label that was on or accompanied the product and the word "Universal Waste – Pesticide(s)" or "Waste – Pesticide(s)."		40 *CFR* 273.34(b) and (c) *OAC* 3745-273-34(B) and (C)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
	Thermostats and other mercury-containing equipment		
Management of universal waste thermostats or other mercury-containing equipment	A large quantity handler of universal waste must contain any mercury-containing equipment that shows evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions in a container. Container must be closed, structurally sound, compatible with the contents of the thermostat, and lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions, and be reasonably designed to prevent the escape of mercury into the environment by volatilization or any other means.	Generation of universal waste mercury-containing equipment [as defined in 40 *CFR* 273.9 and *OAC* 3745-273-04]—**applicable**	40 *CFR* 273.33(c)(1) *OAC* 3745-273-33(C)(1)
	May remove the mercury-containing ampule or the open original housing holding the mercury from mercury-containing equipment and manage and dispose of it in accordance with regulations.		40 *CFR* 273.33(c)(2) – (4) *OAC* 3745-273-33(C)(2) – (4)
	Mercury-containing equipment or a container in which the equipment is contained must be labeled or marked clearly with any of the following phrases: “Universal Waste – Mercury-Containing Equipment” or Waste Mercury-Containing Equipment” or “Used Mercury-Containing Equipment.”		40 *CFR* 273.34(d)(1) *OAC* 3745-273-34(D)(1)
	Mercury-containing thermostats or containers containing only these thermostats must be labeled or marked clearly with any of the following phrases: “Universal Waste – Mercury Thermostat(s)” or “Waste Mercury Thermostat(s)” or “Used Mercury Thermostat(s).”		40 *CFR* 273.34(d)(2) *OAC* 3745-273-34(D)(2)
	Fluorescent and mercury vapor lamps		
Management of universal waste lamps (fluorescent, mercury vapor)	A large quantity handler of universal waste lamps must contain any lamp in containers or packages that are structurally sound, adequate to prevent breakage, and compatible with the contents of the lamps. Such containers and packages must remain closed and must lack evidence of leakage, spillage, or damage that could cause leakage of hazardous constituents under reasonably foreseeable conditions.	Generation of universal waste lamps [as defined in 40 *CFR* 273.9 and *OAC* 3745-273-05]—**applicable**	40 *CFR* 273.33(d)(1) *OAC* 3745-273-33(D)(1)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Management of universal waste lamps (fluorescent, mercury vapor) (continued)	A large quantity handler of universal waste lamps must immediately clean up and place in a container any lamp that is broken and must place in a container any lamp that shows evidence of breakage, leakage, or damage that could cause the release of mercury or other hazardous constituents to the environment.		40 *CFR* 273.33(d)(2) *OAC* 3745-273-33(D)(2)
	Each lamp or container or package in which such lamps are contained must be labeled or marked clearly with one of the following phrases: “Universal Waste-Lamp(s),” or “Waste Lamps,” or “Used Lamps.”		40 *CFR* 273.34(e) *OAC* 3745-273-34(E)
	Mark or label the individual item with the date the lamp(s) became a waste, or mark or label the container or package with the date the wastes were received.		40 *CFR* 273.35(c) *OAC* 3745-273-35(C)
MISCELLANEOUS WASTES			
	State of Ohio Construction-Demolition Debris		
Exclusions for disposal or reuse of construction and demolition debris, or “clean hard fill” [as defined in *OAC* 3745-400-01(E)]	Construction and demolition debris facility requirements do not apply to construction and demolition debris or clean hard fill used in one or more of the following ways:	Use of construction and demolition debris or clean hard fill at a site**—applicable**	*OAC* 3745-400-03
	• Any construction site where construction debris and trees and brush removed in clearing the construction site are used as fill material on the site where the materials are generated or removed		*OAC* 3745-400-03(A)
	• Any site where clean hard fill is used, either alone or in conjunction with clean soil, sand, gravel, or other clean aggregates, in legitimate fill operations		*OAC* 3745-400-03(B)
	• Any site where debris is not disposed, such as where debris is reused or recycled in a beneficial manner, or stored for a temporary period remaining unchanged and retrievable.		*OAC* 3745-400-03(C)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Disposal of construction and demolition debris	Shall be disposed of only in an authorized construction and demolition debris facility or solid waste disposal facility; by means of open burning if permitted as provided in *OAC* 3745-19; or by other methods provided such methods are demonstrated to be capable of disposing without creating a nuisance or health hazard, without causing water pollution, and without violating any regulations under Chapters 3745, 3704 or 3734.	Disposal of construction and demolition debris—**applicable**	*OAC* 3745-400-04(A) and (B)
Disposal of construction and demolition debris as "clean hard fill"	Clean hard fill (does not include materials contaminated with hazardous, solid, or infectious waste) consisting of reinforced or nonreinforced concrete, asphalt concrete, brick (includes but is not limited to refractory brick and mortar), block, tile, or stone shall be managed in one or more of the following ways: • Recycled into usable construction material • Disposed in licensed construction and demolition debris or other waste facilities • Used in legitimate fill operations for construction purposes or to bring the site up to consistent grade, on the site of generation, or on a site other than the site of generation, pursuant to Paragraph (C) of *OAC* 3745-400-05.	Use of clean hard fill to bring a construction site up to consistent grade**—applicable**	*OAC* 3745-400-05(A)
	Clean hard fill may be stored for a period of less than 2 years. "Stored" means held in a manner remaining retrievable and substantially unchanged. Clean hard fill piled adjacent to a construction materials processing facility shall not be considered stored for more than 2 years if the pile is active, i.e., if clean hard fill material is added to and removed from the pile within a 2-year period.		*OAC* 3745-400-05(B)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
	Beryllium wastes		
Release of beryllium-contaminated equipment or other items	Must clean beryllium-contaminated equipment or other items to the lowest contamination level practicable, not to exceed the levels established in 10 *CFR* 850.31(b) and (c) and label them before release.	Release of beryllium-contaminated equipment or other items to general public or another DOE facility—**applicable**	10 *CFR* 850.31(a)
	Before being released to the general public or another DOE facility, ensure that the removable contamination level of equipment and item surfaces does not exceed the higher of 0.2 µg/100 cm^2 or the concentration level of beryllium in soil at the point or release, whichever is greater;		10 *CFR* 850.31(b)(1)
	Ensure equipment or item is labeled in accordance with 10 *CFR* 850.38(b); and		10 *CFR* 850.31(b)(2)
	Release is conditioned on the recipient’s commitment to implement controls that will prevent foreseeable beryllium exposure.		10 *CFR* 850.31(b)(3)
	Before being released to another facility performing work with beryllium, must ensure that removal contamination level of equipment and other item surfaces does not exceed 3 µg/100 cm^2;	Release of beryllium-contaminated equipment or other items to another facility performing work with beryllium—**applicable**	10 *CFR* 850.31(c)(1)
	Ensure equipment or item is labeled in accordance with 10 *CFR* 850.38(b); and		10 *CFR* 850.31(c)(2)
	Enclose or place in sealed, impermeable bags or containers to prevent the release of beryllium dust during handling or transportation.		10 *CFR* 850.31(c)(3)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	**Requirements**[b]	**Prerequisite**	**Citation**
Disposal of beryllium-containing waste or beryllium-contaminated equipment and other items	Must control the generation of beryllium-containing waste or beryllium-contaminated equipment and other items through the application of waste minimization principles.	Generation of beryllium-containing waste or beryllium-contaminated equipment and other items**—applicable**	10 *CFR* 850.32(a)
	Dispose of in sealed, impermeable bags, containers, or enclosures to prevent the release of beryllium dust during handling and transportation. Bags, containers, and enclosures must be labeled according to 10 *CFR* 850.38.		10 *CFR* 850.32(b)
Used oil			
Management of used oil	Used oil shall not be stored in a unit other than a tank, container, or RCRA regulated unit.	Generation and storage of used oil, as defined in 40 *CFR* 279.1 [*OAC* 3745-279-01(A)(12)], that meets the applicability requirements of 40 *CFR* 279.10—**applicable**	40 *CFR* 279.22(a) *OAC* 3745-279-22(A)
	Containers and aboveground tanks used to store used oil must be in good condition (no severe rusting, apparent structural defects, or deterioration); and not leaking (no visible leaks).		40 *CFR* 279.22(b)(1) and (2) *OAC* 3745-279-22(B)(1) and (2)
	Containers and aboveground tanks used to store used oil and fill pipes used to transfer used oil into USTs must be labeled or marked clearly with the words “Used Oil.”		40 *CFR* 279.22(c)(1) and (2) *OAC* 3745-279-22(C)(1)
	Upon detection of a release of used oil to the environment, a generator must stop the release; contain, clean up, and properly manage the released used oil; and, if necessary, repair or replace any leaking used oil storage containers or tanks prior to returning them to service.	Release of used oil to the environment—**applicable**	40 *CFR* 279.22(d) *OAC* 3745-279-22(D)
Disposal of hazardous used oil	Used oils that are identified as a hazardous waste and cannot be recycled in accordance with *OAC* 3745-279 must be managed in accordance with the hazardous waste management requirements of *OAC* 3745-50 to 3745-69, 3745-205, 3745-256, 3745-266, and 3745-270.	Generation of used oil—**applicable**	40 *CFR* 279.81(a) *OAC* 3745-279-81(A)
Disposal of nonhazardous used oils	Used oils that are not hazardous wastes and cannot be recycled under *OAC* 3745-279 must be disposed in accordance with the applicable requirements of *OAC* 3745-27, 3745-28, 3745-29, and 3745-30.		40 *CFR* 279.81(b) *OAC* 3745-279-81(B)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Transportation of used oil off site	Except as provided in paragraphs (a) to (c) of 40 *CFR* 279.24 [*OAC* 3745-279-24(A) to (C)], generators must ensure that their used oil is transported by transporters who have obtained EPA ID numbers.	Preparation of used oil for off-site transport—**applicable**	40 *CFR* 279.24 *OAC* 3745-279-24
Refrigeration equipment			
Disposal of refrigeration equipment	With the exception of the substitutes in the end uses listed in 40 *CFR* 82.154(a)(1)(i) – (vi), no person maintaining, servicing, repairing, or disposing of appliances may knowingly vent or otherwise release into the environment any refrigerant or substitute from such appliances.	Appliances that contain Class I or II substances used as a refrigerant—**applicable**	40 *CFR* 82.154(a)(1)
Disposal of refrigeration equipment (continued)	*De minimis* releases associated with good faith attempts to recycle or recover refrigerants are not subject to this prohibition.		40 *CFR* 82.154(a)(2)
	No person may dispose of such appliances, except for small appliances, MVACs, and MVAC-like appliances, without: • Observing the required practices set forth in 40 *CFR* 82.156 and • Using equipment that is certified for that type of appliance pursuant to 40 *CFR* 82.158.		40 *CFR* 82.154(b)
WATER DISCHARGES			
Water treatment and discharges (e.g., leachate, stormwater, decon water)			
Activities causing storm water runoff	Dischargers must utilize best management practices to control pollutants in storm water discharges during and after construction, which may include, as appropriate, soil stabilization practices (e.g., seeding); perimeter structural practices (e.g., gabions, silt fences, sediment traps); and storm water management devices as detailed in Part III.G.2 (“Controls”) of NPDES OHC000003.	Storm water runoff discharges from land disturbed by construction activity—disturbance of ≥ 1 acre total, except where otherwise exempt as specified in 40 *CFR* 122.26(b)(15)—**applicable**	Authorization for Storm Water Discharges Associated with Construction Activity under NPDES OHC000003, Part III.G.2

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Release of wastewater from a new hazardous waste landfill through a new point source	Except as provided in 40 *CFR* 445.1, discharges of wastewater from a new RCRA hazardous waste landfill must comply with the performance standards for new sources, which are the same as the maximum daily and maximum monthly average effluent limitations listed in 40 *CFR* 445.11.	Release of water from a new hazardous waste landfill through a new discharge point source—**applicable**	40 *CFR* 445.14
Disposal of wastewaters containing RCRA hazardous constituents in a CWA WWTU	Disposal is not prohibited if the wastes are managed in a treatment system which subsequently discharges to waters of the U.S. under the CWA unless the wastes are subject to a specified method of treatment other than DEACT in 40 *CFR* 268.40 (*OAC* 3745-270-40) or are D003 reactive cyanide.	Disposal of RCRA restricted hazardous wastes that are hazardous only because they exhibit a hazardous characteristic and are not otherwise prohibited under 40 *CFR* Part 268—**applicable**	40 *CFR* 268.1(c)(4)(i) *OAC* 3745-01(C)(4)
General duty to mitigate for discharge of wastewater from water treatment system	Take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of effluent standards which has a reasonable likelihood of adversely affecting human health or the environment.	Discharge of pollutants to surface waters—**applicable**	40 *CFR* 122.41(d) *ORC* 6111.04(C)
Operation and maintenance of treatment system	Properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) installed or used to achieve compliance with the effluent standards. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures.	Discharge of pollutants to surface waters—**applicable**	40 *CFR* 122.41(e) *OAC* 3745-33-08(A)(8)
Criteria for discharge of wastewater with radionuclides into surface water	Except for tritium and sanitary sewers, apply BAT if at the point of discharge: • The annual average concentration of a given radionuclide is greater than the DCS value for water or, for multiple radionuclides, the composite DCS must be the sum of the fractional DCS values derived from DOE-approved DCS values.	Discharge or release of liquids containing radionuclides from DOE activities—**TBC**	DOE Order 458.1(g)(5)(a)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Criteria for discharge of wastewater with radionuclides into surface water (continued)	• The discharge contributes greater than 10 mrem (0.1 mSv) annual TED to members of the public or		DOE Order 458.1(g)(5)(b)
	• The collective dose from all DOE sources is greater than 100 person-rem (1 person-Sv) and the liquid discharge contributes 50% or more of this collective dose.		DOE Order 458.1(g)(5)(c)
	Conduct activities to ensure that liquid discharges containing radionuclides from DOE activities do not exceed an average (at the point of discharge) of either of the following: • 5 pCi (0.2 Bq) per gram above background level of settleable solids for alpha-emitting radionuclides or • 50 pCi (2 Bq) per gram above background level of settleable solids for beta-emitting radionuclides.	Release of liquids containing radionuclides from DOE activities—**TBC**	DOE Order 458.1(g)(4)
	Ensure that liquid releases are managed in a manner that protects ground water resources now and in the future, based on use and value considerations.		DOE Order 458.1(g)(3)
	Ensure that radionuclides contained in liquid effluents do not cause private or public drinking water systems to exceed the drinking water MCLs in 40 *CFR* 141.		DOE Order 458.1(g)(7)
Technology-based treatment requirements for wastewater discharge	To the extent that EPA promulgated effluent limitations are inapplicable, shall develop on a case-by-case BPJ basis under §402(a)(1)(B) of the CWA, technology based effluent limitations by applying the factors listed in 40 *CFR* §125.3(d) and shall consider: • The appropriate technology for this category or class of point sources, based upon all available information; and • Any unique factors relating to the discharger.	Discharge of pollutants to surface waters from other than a POTW—**applicable**	40 *CFR* 125.3(c)(2) *ORC* 6111.042

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Water quality-based effluent limits for wastewater discharge	Must develop water quality based effluent limits that ensure that: • The level of water quality to be achieved by limits on point source(s) established under this paragraph is derived from, and complies with all applicable water quality standards and • Effluent limits developed to protect narrative or numeric water quality criteria are consistent with the assumptions and any available waste load allocation for the discharge prepared by the State and approved by EPA pursuant to 40 *CFR* §130.7.	Discharge of pollutants to surface waters that causes, or has reasonable potential to cause, or contributes to an instream excursion above a narrative or numeric criteria within a State water quality standard established under §303 of the CWA—**applicable**	40 *CFR* 122.44(d)(1)(vii) *OAC* 3745-33-05(A)(1)
	Must attain or maintain a specified water quality through water quality related effluent limits established under §302 of the CWA.		40 *CFR* 122.44(d)(2)
	No entity shall cause pollution or place or cause to be placed any sewage, sludge, sludge materials, industrial waste, or other wastes in a location where they cause pollution of any waters of the state.		*ORC* 6111.04
	No person shall violate or fail to perform any duty imposed by sections 6111.01 to 6111.08 of the Revised Code or violate any order, rule, or term or condition of a permit issued or adopted by the director of environmental protection pursuant to those sections.		*ORC* 6111.07
	Stream use designations are given for Little Beaver Creek drainage basin and Scioto River drainage basin and *OAC* 3745-1-07 is referenced for applicable water quality standards.		*OAC* 3745-1-09 *OAC* 3745-1-15
	OAC 3745-1-07 provides allowable instream concentrations of pollutants that may be found in surface waters or discharged into surface waters, depending on use designation, and are applied as "outside mixing zone" or "inside mixing zone maximum" averages.		*OAC* 3745-1-07

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Water quality-based effluent limits for wastewater discharge (continued)	The general water quality criteria listed in *OAC* 3745-1-04 (which address suspended solids, floating debris, oil, scum, color, odor, toxic substances, nuisance growth of algae and weeds, and sewage) apply to all surface waters of the state including mixing zones.		*OAC* 3745-1-04
Monitoring requirements for water treatment system discharges	In addition to 40 *CFR* §122.48(a) and (b) and to assure compliance with effluent limitations, one must monitor, as provided in subsections (i) thru (iv) of §122.44(i)(1).	Discharge of pollutants to surface waters—**applicable**	40 *CFR* 122.44(i)(1) *OAC* 3745-33-08(A)(6)
	NOTE: Monitoring parameters, including frequency of sampling, will be developed as part of the DFF&O process and included in a Remedial Design, RAWP, or other appropriate DFF&O document.		
	All effluent limitations, standards and prohibitions shall be established for each outfall or discharge point, except as provided under §122.44(k).		40 *CFR* 122.45(a) *OAC* 3745-33-06(A)
	All effluent limitations, standards and prohibitions, including those necessary to achieve water quality standards, shall unless impracticable be stated as maximum daily and average monthly discharge limitations for all discharges.	Continuous discharge of pollutants to surface waters—**applicable**	40 *CFR* 122.45(d)(1)
AIR EMISSIONS			
	Fugitive air emissions		
Activities causing fugitive dust (particulate) emissions	Shall take reasonable achievable control measures to prevent particulate matter from becoming airborne. Reasonable achievable control measures shall include, but are not limited to, the following:	Fugitive emissions from transportation, land-disturbing, or building alteration activities located in areas identified in Appendix A to *OAC* 3745-17-08, except as exempted under *OAC* 3745-17-08(A)(3)—**relevant and appropriate**	*OAC* 3745-17-08(B)
	• Use, where possible, of water or chemicals for control of dust and in demolition of existing buildings or structures, construction operations, grading of roads, or the clearing of land		*OAC* 3745-17-08(B)(1)

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Activities causing fugitive dust (particulate) emissions (continued)	• Periodic application of asphalt, oil (excluding used oil), water, or other suitable chemicals on dirt or gravel roads and parking lots, materials stock piles, and other surfaces which can create airborne dusts, or the use of canvas or other suitable coverings for all materials stockpiles and stockpiling operations except temporary stockpiles		*OAC* 3745-17-08(B)(2) and (6)
	• Install and use hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control fugitive dust at the point of capture to extent possible with good engineering design. Equipment must meet efficiency requirements of *OAC* 3745-17-08(B)(3)(a) and (b).		*OAC* 3745-17-08(B)(3)
	• Use of adequate containment methods during sandblasting or similar operations		*OAC* 3745-17-08(B)(5)
	• Cover, at all times, open-bodied vehicles when transporting materials likely to become airborne		*OAC* 3745-17-08(B)(7)
	• Pave and maintain roadways in a clean condition		*OAC* 3745-17-08(B)(8)
	• Promptly remove, in such a manner as to minimize or prevent resuspension, earth or other material from paved streets onto which this material has been deposited by trucking or earth moving equipment or erosion by water or other means.		*OAC* 3745-17-08(B)(9)
	Air emissions from a stationary source		
Activities causing release of air pollutants	Shall not cause the emission or escape into the open air from any source or sources whatsoever, of smoke, ashes, dust, dirt, grime, acids, fumes, gases, vapors, odors, or any other substances or combinations of substances, in such manner or in such amounts as to endanger the health, safety, or welfare of the public, or cause unreasonable injury or damage to property.	Activities causing the release of air pollution nuisances as defined in *OAC* 3745-15-07(A)—**applicable**	*OAC* 3745-15-07

Table F.1. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project On-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Media/Location/Action[a]	Requirements[b]	Prerequisite	Citation
Activities causing radionuclide air emissions	Emissions of radionuclides to the ambient air from DOE facilities shall not exceed those amounts that would cause any member of the public to receive an EDE of 10 mrem per year.	Radionuclide air emissions from DOE facilities—**applicable**	40 *CFR* 61.92
Air emissions from process vents in treatment of VOC contaminated water	Except as provided in paragraphs (C), (D) and (H) of *OAC* 3745-15-05 and division (B) of section 3704.011 of the Revised Code, any air contaminant source is exempt from Chapter 3704 of the Revised Code and rules adopted thereunder, unless the potential emissions of any one of the following exceeds 10 lb/day: particulate matter, sulfur dioxide, nitrogen oxides, organic compounds, carbon monoxide, lead or any other air contaminant.	Air emissions from an air contaminant source—**applicable**	*OAC* 3745-15-05(B)

ACM = asbestos-containing material
ALARA = as low as reasonably achievable
ARAR = applicable or relevant and appropriate requirement
AST = aboveground storage tank
ASTM = American Society for Testing and Materials
BAT = best available technology
BPJ = best professional judgment
CAMU = corrective action management unit
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR = Code of Federal Regulations
CMBST = combustion
COE = Corps of Engineers
CQA = Construction Quality Assurance
CWA = Clean Water Act
DCS = Derived Concentration Technical Standard
DEACT = deactivation
DFF&O = *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE = U.S. Department of Energy
DOE M = U.S. Department of Energy Radioactive Waste Management Manual
DOI = U.S. Department of Interior
DOT = U.S. Department of Transportation
EDE = effective dose equivalent
EPA = U.S. Environmental Protection Agency
FR = Federal Register
HMR = Hazardous Materials Regulations
HMTA = Hazardous Materials Transportation Act of 1975 (Amendments of 1976)
ID = identification number
LDR = land disposal restriction
LPP = LATA/Parallax Portsmouth, LLC
LLW = low-level (radioactive) waste
MCL = maximum contaminant level
MVAC = motor vehicle air conditioning
NACE = National Association of Corrosion Engineers
NCP = National Oil and Hazardous Substances Pollution Contingency Plan
NPDES = National Pollutant Discharge Elimination System
OAC = Ohio Administrative Code
Ohio EPA = Ohio Environmental Protection Agency
ORC = Ohio Revised Code
PCB = polychlorinated biphenyl
POLYM = polymerization
PORTS = Portsmouth Gaseous Diffusion Plant
POTW = publicly owned treatment works
QA = quality assurance
QC = quality control
RACM = regulated asbestos-containing material
RAWP = remedial action work plan
RCRA = Resource Conservation and Recovery Act of 1976, as amended
RORGS = recovery of organics
TBC = to-be-considered
TED = total effective dose
TSCA = Toxic Substances Control Act of 1976
TSD = treatment, storage, and disposal
TU = temporary unit
USC = United States Code
UST = underground storage tank
UTS = universal treatment standard
VOC = volatile organic compound
WAC = waste acceptance criteria
WWTU = wastewater treatment unit

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Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio

Action	Requirements[a]	Prerequisite	Citation
HAZARDOUS WASTE			
	Waste generation, characterization, and segregation		
Characterization of solid waste	Must determine if solid waste is hazardous or is excluded under 40 *CFR* 261.4 [*OAC* 3745 51-04]; and	Generation of solid waste as defined in 40 *CFR* 261.2—**applicable**	40 *CFR* 262.11(a) *OAC* 3745-52-11(A)
	Must determine if waste is listed as a hazardous waste in 40 *CFR* Part 261 [*OAC* 3745-51-30 to 3745-51-35], or	Generation of solid waste that is not excluded under 40 *CFR* 261.4—**applicable**	40 *CFR* 262.11(b) *OAC* 3745-52-11(B)
	Must determine whether the waste is identified in subpart C of 40 *CFR* 261[*OAC* 3745-51-20 through 3745-51-24], characterizing the waste by using prescribed testing methods or applying generator knowledge based on information regarding material or processes used.	Generation of solid waste that is not listed in subpart D of 40 *CFR* 261 and not excluded under 40 *CFR* 261.4—**applicable**	40 *CFR* 262.11(c) *OAC* 3745-52-11(C)
	Must refer to Parts 261, 262, 264, 265, 266, 268, and 273 of Chapter 40 [*OAC* 3745-51, 3745-54 to 3745-57, 3745-65 to 3745-69, 3745-205, 3745-256, 3745-266, 3745-270, and 3745-273] for possible exclusions or restrictions pertaining to management of the specific waste.	Generation of solid waste that is determined to be hazardous—**applicable**	40 *CFR* 262.11(d) *OAC* 3745-52-11(D)
Characterization of hazardous waste	Must obtain a detailed chemical and physical analysis of a representative sample of the waste(s) that, at a minimum, contains all the information that must be known to treat, store, or dispose of the waste in accordance with 40 *CFR* 264 and 268 [*OAC* 3745-54 to 3745-57, 3745-205, and 3745-270].	Generation of RCRA hazardous waste for storage, treatment or disposal—**applicable**	40 *CFR* 264.13(a)(1) and (2) *OAC* 3745-54-13(A)(1) and (2)
Determinations for land disposal of hazardous waste	Must determine if the waste meets the treatment standards in 40 *CFR* 268.40, 268.45, or 268.49 [*OAC* 3745-270-40, 3745-270-45, and 3745-270-49] by testing in accordance with prescribed methods or use of generator knowledge of waste.	Generation of RCRA hazardous waste for storage, treatment or disposal—**applicable**	40 *CFR* 268.7(a) *OAC* 3745-270-07(A)

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[a] The requirements portion of the ARARs table is intended to provide a summary of the cited ARAR. The omission of any particular requirement does not limit the scope of the cited ARARs.

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Determinations for land disposal of hazardous waste (continued)	Treatment facilities must test their wastes according to the frequency specified in their waste analysis plans to determine if the waste meets the treatment standards in 40 *CFR* 268.40, 268.45, or 268.49 [*OAC* 3745-270-40, 3745-270-45, and 3745-270-49] prior to disposal.	Treatment of RCRA hazardous waste prior to disposal—**applicable**	40 *CFR* 268.7(b) *OAC* 3745-270-07(B)
	Must determine each EPA Hazardous Waste Number (Waste Code) to determine the applicable treatment standards under 40 *CFR* 268.40 et seq. (*OAC* 3745-270-40 et seq.).	Generation of RCRA hazardous waste for storage, treatment or disposal—**applicable**	40 *CFR* 268.9(a) *OAC* 3745-270-09(A)
	Must determine the underlying hazardous constituents [as defined in 40 *CFR* 268.2(i) and *OAC* 3745-270-02] in the waste.	Generation of RCRA characteristically hazardous waste (and is not D001 nonwastewaters treated by CMBST, RORGS, or POLYM of Section 268.42 Table 1) for storage, treatment or disposal—**applicable**	40 *CFR* 268.9(a) *OAC* 3745-270-09(A)
	Must determine whether the waste meets other applicable treatment standards under 40 *CFR* 268.9 (*OAC* 3745-270-09) for characteristic wastes.	Generation of RCRA characteristically hazardous waste—**applicable**	40 *CFR* 268.9(b) to (d) *OAC* 3745-270-09(B) to (D)
Characterization and management of wastewater (e.g., decon water)	On-site wastewater treatment units (including tank systems, conveyance systems, and ancillary equipment used to treat, store or convey wastewater to the wastewater treatment facility) are exempt from the requirements of RCRA Subtitle C standards.	On-site wastewater treatment units subject to regulation under Section 402 or Section 307(b) of the CWA—**applicable**	40 *CFR* 264.1(g)(6) *OAC* 3745-54-01(G)(6)
Characterization and management of industrial wastewater	Industrial wastewater discharges that are point source discharges under Section 402 of the CWA, as amended, are not solid wastes for purpose of hazardous waste management.	Generation of industrial wastewater for discharge—**applicable**	40 *CFR* 261.4(a)(2) *OAC* 3745-51-04(A)(2)
	No entity shall cause pollution or place or cause to be placed any sewage, sludge, sludge materials, industrial waste, or other wastes in a location where they cause pollution of any waters of the state.		*ORC* 6111.04
	No person shall violate or fail to perform any duty imposed by sections 6111.01 to 6111.08 of the Revised Code or violate any order, rule, or term or condition of a permit issued or adopted by the director of environmental protection pursuant to those sections.		*ORC* 6111.07

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Segregation of scrap metal for recycle	Material is not subject to RCRA requirements for generators, transporters, and storage facilities under 40 *CFR* Parts 262 through 266, 268, 270, or 124 [*OAC* 3745-50-40 to 3745-50-235 or 3745-52, 3745-53, 3745-54 to 3745-57, 3745-65 to 3745-69, 3745-205, 3745-256, 3745-266, and 3745-270].	Scrap metal, as defined in 40 *CFR* 261.1(c)(6) intended for recycle—**applicable**	40 *CFR* 261.6(a)(3)(ii) *OAC* 3745-51-06(A)(3)(b)
Management of recyclable materials for precious metal recovery	Recyclable materials being collected, transported or stored that are being reclaimed to recover economically significant amounts of gold, silver, platinum, palladium, iridium, osmium, rhodium, ruthenium, or any combination of these must be managed in accordance with the substantive requirements of 40 *CFR* 266.70 (*OAC* 3745-266-70).	Management of recyclable materials for precious metal recovery—**applicable**	40 *CFR* 266.70 *OAC* 3745-266-70
Management of spent lead acid batteries being reclaimed	Spent lead acid batteries being collected, transported and stored prior to regeneration must be managed in accordance with particular hazardous waste requirements depending on permit status and whether they are being reclaimed through regeneration or in other ways. Management options are detailed in 40 *CFR* 266.80 (*OAC* 3745-266-80). Spent lead acid batteries can also be managed as universal wastes under 40 *CFR* 273 (*OAC* 3745-273).	Management of spent lead acid batteries being reclaimed—**applicable**	40 *CFR* 266.80 *OAC* 3745-266-80
	Hazardous waste treatment/disposal		
Disposal of RCRA-prohibited hazardous waste in a land-based unit	May be land disposed only if it meets the applicable requirements in the table "Treatment Standards for Hazardous Waste" at 40 *CFR* 268.40 (*OAC* 3745-270-40) before land disposal. The table lists either "total waste" standards, "waste-extract" standards, or "technology-specific" standards (as detailed further in 40 *CFR* 268.42 [*OAC* 3745-270-42]).	Land disposal, as defined in 40 *CFR* 268.2, of RCRA prohibited waste [as listed in 40 *CFR* 268.20 to .39 (*OAC* 3745-270-20 to -39)]—**applicable**	40 *CFR* 268.40(a) *OAC* 3745-270-40(A) 40 *CFR* 268.20 to .40 *OAC* 3745-270-20 to -40 40 *CFR* 268.42 *OAC* 3745-270-42
	For characteristic wastes (D001 – D043) that are subject to the treatment standards, all underlying hazardous constituents must meet the UTSs specified in 40 *CFR* 268.48 (*OAC* 3745-270-48).	Land disposal of restricted RCRA characteristic wastes (D001-D043) that are not managed in a wastewater treatment unit that is regulated under the CWA, that is CWA equivalent, or that is injected into a Class I nonhazardous injection well—**applicable**	40 *CFR* 268.40(e) *OAC* 3745-270-40(E) 40 *CFR* 268.48 *OAC* 3745-270-48

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Disposal of RCRA-prohibited hazardous waste in a land-based unit (continued)	May be land disposed if the wastes no longer exhibit a characteristic at the point of land disposal, unless the wastes are subject to a specified method of treatment other than DEACT in 40 *CFR* 628.40 (*OAC* 3745-270-48), or are D003 reactive cyanide.	Land disposal of RCRA-restricted characteristic wastes—**applicable**	40 *CFR* 268.1(c)(4)(iv) *OAC* 3745-270-01(C)(4)
Debris	May be land disposed if treated prior to disposal as provided under the "Alternative Treatment Standards for Hazardous Debris" in 40 *CFR* 268.45(a)(1)-(5) [*OAC* 3745-270-45(A)(1)-(5)] unless it is determined under 40 *CFR* 261.3(f)(2) [*OAC* 3745-51-03(F)(2)] that the debris is no longer contaminated with hazardous waste or the debris is treated to the waste specific treatment standard provided in 40 *CFR* 268.40 (*OAC* 3745-270-40) for the waste contaminating the debris.	Land disposal, as defined in 40 *CFR* 268.2 (*OAC* 3745-270-02), of RCRA-restricted hazardous debris—**applicabl**e	40 *CFR* 268.45(a) *OAC* 3745-270-45(A)
	The hazardous debris must be treated for each "contaminant subject to treatment," which must be determined in accordance with 40 *CFR* 268.45(b) [*OAC* 3745-270-45(B)].		40 *CFR* 268.45(b) *OAC* 3745-270-45(B)
Soils	May be land disposed if treated prior to disposal according to the alternative treatment standards of 40 *CFR* 268.49(c) [*OAC* 3745-270-49(C)] or according to the UTSs specified in 40 *CFR* 268.48 (*OAC* 3745-270-48) applicable to the listed hazardous waste and/or applicable characteristic of hazardous waste if the soil is characteristic.	Land disposal, as defined in 40 *CFR* 268.2 (*OAC* 3745-270-02), of RCRA-restricted hazardous soils—**applicabl**e	40 *CFR* 268.49(b) and (c) *OAC* 3745-270-49(B) and (C)
Variance from a treatment standard for RCRA restricted hazardous wastes	A variance from a treatment standard may be used if it is: • Not physically possible to treat the waste to the level specified in the treatment standard, or by the method specified as the treatment standard, or • Inappropriate to require the waste to be treated to the level specified in the treatment standard or by the method specified as the treatment standard even though such treatment is technically possible.	Generation of a RCRA hazardous waste requiring treatment prior to land disposal—**applicable**	40 *CFR* 268.44 *OAC* 3745-270-44
Disposal of treated hazardous debris	Debris treated by one of the specified extraction or destruction technologies on Table 1 of this section and which no longer exhibits a characteristic is not a hazardous waste and need not be managed in RCRA subtitle C facility.	Treated debris contaminated with RCRA-listed or characteristic waste—**applicable**	40 *CFR* 268.45(c) *OAC* 3745-270-45(C)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Disposal of treated hazardous debris (continued)	Hazardous debris contaminated with listed waste that is treated by an immobilization technology must be managed in a RCRA subtitle C facility.		
Disposal of hazardous debris treatment residues	Except as provided in 268.45(d)(2) and (d)(4) [*OAC* 3745-270-45(D)(2) and (D)(4)], treatment residues must be separated from the treated debris using simple physical or mechanical means, and such residues are subject to the waste-specific treatment standards for the waste contaminating the debris. Layers of debris removed by spalling are hazardous debris that remain subject to treatment standards.	Residues from the treatment of hazardous debris—**applicable**	40 *CFR* 268.45(d)(1) – (5) *OAC* 3745-270-45(D)(1) – (5)
Prohibition of dilution to meet LDRs	Except as provided under 40 *CFR* 268.3(b) [*OAC* 3745-270-03(B)], must not in any way dilute a restricted waste or the residual from treatment of a restricted waste as a substitute for adequate treatment to achieve compliance with land disposal restriction levels.	Land disposal, as defined in 40 *CFR* 268.2 (*OAC* 3745-270-02), of RCRA-restricted hazardous waste—**applicabl**e	40 *CFR* 268.3(a) *OAC* 3745-270-03(A)
	It is a form of impermissible dilution, and therefore prohibited, to add iron filings or other metallic forms of iron to lead-containing hazardous wastes in order to achieve any land disposal restriction treatment standard for lead.		*OAC* 3745-270-03(D)
Pretreatment standards for discharges to a permitted wastewater treatment unit	Pollutants introduced to POTWs shall not pass through POTWs or interfere with the operation or performance of the POTW. Substances listed in *OAC* 3745-3-04(B) shall not be introduced into a POTW.	Discharge of wastewater containing pollutants to a POTW—**relevant and appropriate**	*OAC* 3745-3-04
	Must notify POTW immediately of all discharges that could cause problems to the POTW, including any slug loading, in accordance with *OAC* 3745-3-05.		*OAC* 3745-3-05
	Industrial users are subject to national categorical pretreatment standards under 40 *CFR* 403.6 and to the general requirements listed in *OAC* 3745-3-09 regarding the interpretation and application of pretreatment standards.		*OAC* 3745-3-09

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Disposal of wastewaters containing RCRA hazardous constituents in a CWA wastewater treatment unit	Disposal is not prohibited if the wastes are managed in a treatment system which subsequently discharges to waters of the U.S. under the CWA unless the wastes are subject to a specified method of treatment other than DEACT in 40 *CFR* 268.40 (*OAC* 3745-270-40) or are D003 reactive cyanide.	Disposal of RCRA restricted hazardous wastes that are hazardous only because they exhibit a hazardous characteristic and are not otherwise prohibited under 40 *CFR* Part 268—**applicable**	40 *CFR* 268.1(c)(4)(i) *OAC* 3745-270-01(C)(4)
Disposal of wastewaters in a CWA wastewater treatment unit	No entity shall cause pollution or place or cause to be placed any sewage, sludge, sludge materials, industrial waste, or other wastes in a location where they cause pollution of any waters of the state.	Discharge of contaminants to waters of the state—**applicable**	*ORC* 6111.04
	No person shall violate or fail to perform any duty imposed by sections 6111.01 to 6111.08 to the Revised Code or violate any order, rule, or term or condition of a permit issued or adopted by the director of environmental protection pursuant to those sections.		*ORC* 6111.07
Treatment and disposal of ignitable, reactive, or incompatible RCRA wastes	Must take precautions to prevent accidental ignition or reaction of waste, and waste must be separated and protected from sources of ignition or reaction.	Operation of a RCRA facility that treats or stores ignitable, reactive, or incompatible wastes**—applicable**	40 *CFR* 264.17(a) *OAC* 3745-54-17(A)
	Must take precautions to prevent reactions that: • Generate extreme heat, pressure, fire or explosion, or violent reactions • Produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health or the environment • Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions • Damage the structural integrity of the device or facility • Through other like means threaten human health or the environment.		40 *CFR* 264.17(b) *OAC* 3745-54-17(B)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Transportation of hazardous wastes and materials[b]			
Transportation of hazardous waste on site	The generator manifesting requirements of 40 *CFR* 262.20 to 262.32(b) [*OAC* 3745-52-20 to 3745-52-23 and 3745-52-32(B)] do not apply. Generator or transporter must comply with the requirements set forth in 40 *CFR* 263.30 and 263.31 [*OAC* 3745-53-30 and 3745-53-31] in the event of a discharge of hazardous waste on a private or public right-of-way.	Transportation of hazardous wastes on a public or private right-of-way within or along the border of contiguous property under the control of the same person, even if such contiguous property is divided by a public or private right-of-way—**applicable**	40 *CFR* 262.20(f) *OAC* 3745-52-20(F)
Transportation of hazardous materials on site	Must meet the substantive requirements of 49 *CFR* Parts 171-174, 177, and 178 or the site or facility specific Transportation Safety Document (i.e., *Transportation Safety Document for the On-Site Transfer of Hazardous Material at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* [LPP 2008]).	Transport of hazardous materials on the PORTS facility – **TBC**	DOE Order 460.1C(4)(b)
Transportation of hazardous waste off site	Must comply with the generator requirements of 40 *CFR* 262.20 to 262.23 [*OAC* 3745-52-20 to 3745-52-23] for manifesting, Section 262.30 [*OAC* 3745-52-30] for packaging, Section 262.31 [*OAC* 3745-52-31] for labeling, Section 262.32 [*OAC* 3745-52-32] for marking, Section 262.33 [*OAC* 3745-52-33] for placarding, Sections 262.40 and 262.41(a) [*OAC* 3745-52-40 and 3745-52-41] for record keeping requirements, and Section 262.12 [*OAC* 3745-52-12] to obtain EPA ID number.	Preparation of RCRA hazardous waste for transport off site—**applicable**	40 *CFR* 262.10(h) *OAC* 3745-52-10(H) 40 *CFR* 262.20 to .23 *OAC* 3745-52-20 to -23 40 *CFR* 262.30 to .33 *OAC* 3745-52-30 to -33
Transportation of hazardous materials off site	Any person who, under contract with a department or agency of the Federal government, transports "in commerce," or causes to be transported or shipped, a hazardous material, shall be subject to and must comply with all applicable provisions of the HMTA and HMR at 49 *CFR* 171 – 180 related to marking, labeling, placarding, etc.	Preparation for transport or shipment "in commerce" of a hazardous material—**applicable**	49 *CFR* 171.1(c)

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[b] As noted in the DFF&O, Paragraph 9.a, the NCP at 40 *CFR* 300.400(e)(1) defines "on-site" as meaning "the areal extent of contamination and all suitable areas in very close proximity to the contamination necessary for the implementation of the response action." Off-site transportation, by definition, is not an on-site response action and is subject to all substantive, procedural, and administrative requirements of all legally applicable laws, but not to any requirements that might be relevant and appropriate under the ARARs process.

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
SOLID WASTE			
Disposal of solid wastes	Except as provided in paragraph (D) of *OAC* 3745-27-02, no person shall establish or modify a solid waste disposal facility without meeting the substantive criteria as follows:	Management and disposal of solid waste, as defined in *OAC* 3745-27-01[c] **—applicable**	*OAC* 3745-27-02(A)
	Disposal of solid wastes shall only be by the following methods or combination thereof:		*OAC* 3745-27-05(A)
	• Disposal at a licensed sanitary landfill facility		*OAC* 3745-27-05(A)(1)
	• Incinerating at a licensed incinerator		*OAC* 3745-27-05(A)(2)
	• Composting at a licensed composting facility		*OAC* 3745-27-05(A)(3)
	• Alternative disposal methods either as engineered fill or land application, provided use will not create a nuisance or harm human health or the environment and is capable of complying with other applicable laws.		*OAC* 3745-27-05(A)(4)
Prohibition on open dumping of solid wastes	Temporary storage of putrescible solid wastes in excess of 7 days, or temporary storage of any solid wastes where such storage causes a nuisance or health hazard shall be considered open dumping.	Temporary storage of solid waste prior to collection for disposal or transfer—**applicable**	*OAC* 3745-27-03(A)(2)
	No person shall conduct, permit, or allow open dumping. In the event that open dumping is or has occurred, person(s) responsible shall promptly remove and dispose or otherwise manage the solid waste and shall submit verification that the waste has been properly managed.	Management and disposal of solid waste**—applicable**	*OAC* 3745-27-05(C)
TSCA/PCB WASTES			
PCB waste generation, characterization, and segregation			
Management of PCB Items	Any person removing from use a PCB item containing an intact and nonleaking PCB article must dispose of it in accordance with Section 761.60(b), or decontaminate it in accordance with Section 761.79. PCB items where the PCB articles are no longer intact and nonleaking are regulated for disposal as PCB bulk product waste under Section 761.62(a) or (c).	Management of PCB waste for storage or disposal—**applicable**	40 *CFR* 761.50(b)(2)

[c] Definitions of terms used in the Ohio solid waste regulations are given in *OAC* 3745-27-01.

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Management of PCB waste	Any person storing or disposing of PCB waste must do so in accordance with 40 *CFR* 761, Subpart D.	Storage or disposal of waste containing PCBs at concentrations ≥ 50 ppm—**applicable**	40 *CFR* 761.50(a)
	Any person cleaning up and disposing of PCBs shall do so based on the concentration at which the PCBs are found.	Cleanup or disposal of PCB remediation waste as defined in 40 *CFR* 761.3—**applicable**	40 *CFR* 761.61
Decontamination of PCB contaminated materials prior to use, re-use, distribution, in commerce or disposal as a non-TSCA waste	Chopping (including wire chopping), distilling, filtering, oil/water separation, spraying, soaking, wiping, stripping of insulation, scraping, scarification or the use of abrasives or solvents may be used to remove or separate PCBs to the decontamination standards for liquids, concrete, or nonporous surfaces, as listed in 40 *CFR* 761.79(b).	Generation of PCB wastes, including water, organic liquids, nonporous surfaces (scrap metal from disassembled electrical equipment), concrete, and nonporous surfaces covered with porous surfaces, such as paint or coating on metal—**applicable**	40 *CFR* 761.79(b)
Decontamination of water containing PCBs to levels acceptable for discharge	For water discharged to a treatment works or to navigable waters, decontaminate to < 3 µg/L (approximately < 3 ppb) or a PCB discharge limit included in a permit issued under Section 304(b) or 402 of the CWA.	Discharge of water containing PCBs to a treatment works or navigable waters—**applicable**	40 *CFR* 761.79(b)(1)(ii)
Decontamination of water containing PCBs to levels acceptable for unrestricted use	Decontaminate to ≤ 0.5 µg/L (approximately ≤ 0.5 ppb) for unrestricted use.	Release of water containing PCBs for unrestricted use—**applicable**	40 *CFR* 761.79(b)(1)(iii)
Decontamination of organic liquids or nonaqueous inorganic liquids containing PCBs	For organic liquids or nonaqueous inorganic liquids containing PCBs, decontamination standard is < 2 mg/kg (i.e., < 2 ppm) PCBs.	Release of organic liquids or nonaqueous liquid containing PCBs—**applicable**	40 *CFR* 761.79(b)(2)
Decontamination of nonporous surfaces in contact with liquid PCBs to levels acceptable for unrestricted use	For nonporous surfaces previously in contact with liquid PCBs at any concentration, where no free-flowing liquids are currently present, ≤ 10 µg PCBs per 100 sq cm (≤ 10 µg/ 100 cm^2) as measured by a standard wipe test (40 *CFR* 761.123) at locations selected in accordance with Subpart P of 40 *CFR* 761.	Release of nonporous surfaces in contact with liquid PCBs at any concentration for unrestricted use—**applicable**	40 *CFR* 761.79(b)(3)(i)(A)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Decontamination of nonporous surfaces in contact with nonliquid PCBs to levels acceptable for unrestricted use	For nonporous surfaces in contact with nonliquid PCBs (including nonporous surfaces covered with a porous surface, such as paint or coating on metal), clean to Visual Standard No. 2, Near-White Blast Cleaned Surface Finish of the NACE. A person shall verify compliance with standard No. 2 by visually inspecting all cleaned areas.	Release of nonporous surfaces in contact with nonliquid PCBs for unrestricted use—**applicable**	40 *CFR* 761.79(b)(3)(i)(B)
Decontamination of nonporous surfaces in contact with liquid PCBs to levels acceptable for disposal in a TSCA smelter	For nonporous surfaces previously in contact with liquid PCBs at any concentration, where no free-flowing liquids are currently present, decontaminate to < 100 µg/100 cm^2 as measured by a standard wipe test (Section 761.123) at locations selected in accordance with Subpart P of 40 *CFR* 761.	Disposal of nonporous surfaces previously in contact with liquid PCBs at any concentration into a smelter operating in accordance with Section 761.72(b)—**applicable**	40 *CFR* 761.79(b)(3)(ii)(A)
	For nonporous surfaces in contact with nonliquid PCBs (including nonporous surfaces covered with a porous surface, such as paint or coating on metal) clean to Visual Standard No. 3, Commercial Blast Cleaned Surface Finish, of the NACE A person shall verify compliance with Standard No. 3 by visually inspecting all cleaned areas.		40 *CFR* 761.79(b)(3)(ii)(B)
Decontamination of concrete recently contaminated with PCBs	Decontamination standard for concrete is < 10 µg/100 cm^2 as measured by a standard wipe test (Section 761.123) if the decontamination procedure is commenced within 72 hours of the initial spill of PCBs to the concrete or portion thereof being decontaminated.	Decontamination of concrete within 72 hours of the initial spill of PCBs to the concrete—**applicable**	40 *CFR* 761.79(b)(4)
Risk-based decontamination of PCB-containing materials	May decontaminate to an alternate risk-based decontamination standard under 40 *CFR* 761.79(h) if the standard does not pose an unreasonable risk of injury to health or the environment.	Decontamination of materials contaminated with PCBs—**applicable**	40 *CFR* 761.79(h)
Management of PCB/radioactive waste	Any person storing such waste ≥ 50 ppm PCBs must do so taking into account both its PCB concentration and radioactive properties, except as provided in 40 *CFR* 761.65(a)(1), (b)(1)(ii) and (c)(6)(i).	Generation of PCB/radioactive waste for disposal—**applicable**	40 *CFR* 761.50(b)(7)(i)
	Any person disposing of such waste must do so taking into account both its PCB concentration and its radioactive properties.		40 *CFR* 761.50(b)(7)(ii)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Management of PCB/radioactive waste (continued)	If, after taking into account only the PCB properties in the waste, the waste meets the requirements for disposal in a facility permitted, licensed, or registered by a state as a municipal or nonmunicipal nonhazardous waste landfill, then the person may dispose of such waste without regard to the PCBs, based on its radioactive properties alone.		40 *CFR* 761.50(b)(7)(ii)
PCB waste treatment/disposal			
Performance-based disposal of PCB remediation waste	Shall be disposed according to 40 *CFR* 761.60(a) or (e), or decontaminated in accordance with 40 *CFR* 761.79.	Disposal of liquid PCB remediation waste—**applicable**	40 *CFR* 761.61(b)(1)
	May dispose by one of the following methods: • In a high-temperature incinerator under 40 *CFR* 761.70(b) • By an alternate disposal method under 40 *CFR* 761.60(e) • In a chemical waste landfill under 40 *CFR* 761.75 • In a facility under 40 *CFR* 761.77 or • Through decontamination in accordance with 40 *CFR* 761.79.	Disposal of nonliquid PCB remediation waste (as defined in 40 *CFR* 761.3) —**applicable**	40 *CFR* 761.61(b)(2) 40 *CFR* 761.61(b)(2)(i) 40 *CFR* 761.61(b)(2)(ii)
Disposal of materials previously contaminated with PCBs as non-TSCA waste	Materials from which PCBs have been removed by decontamination in accordance with 40 *CFR* 761.79, not including decontamination wastes and residuals under 40 *CFR* 761.79(g), are considered unregulated for disposal under Subpart D of TSCA (40 *CFR* 761).	Disposal of materials from which PCBs have been removed—**applicable**	40 *CFR* 761.79(a)(4)
Risk-based disposal of PCB remediation waste	May dispose of in a manner other than prescribed in 40 *CFR* 761.61(a) or (b) if the method will not pose an unreasonable risk of injury to health or the environment.	Disposal of PCB remediation waste—**applicable**	40 *CFR* 761.61(c)
Disposal of PCB decontamination waste and residues	Shall be disposed of at their existing PCB concentration unless otherwise specified in 40 *CFR* 761.79(g).	PCB decontamination waste and residues for disposal—**applicable**	40 *CFR* 761.79(g)
Disposal of PCB liquids (e.g., from drained electrical equipment)	Must be disposed of in an incinerator that complies with 40 *CFR* 761.70, except:	PCB liquids at concentrations ≥ 50 ppm—**applicable**	40 *CFR* 761.60(a)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Disposal of PCB liquids (e.g., from drained electrical equipment) (continued)	For mineral oil dielectric fluid, may be disposed in a high efficiency boiler according to 40 *CFR* 761.71(a).		40 *CFR* 761.60(a)(1)
	For liquids other than mineral oil dielectric fluid, may be disposed in a high efficiency boiler according to 40 *CFR* 761.71(b).		40 *CFR* 761.60(a)(2)
Disposal of PCB-contaminated precipitation, condensation, or leachate	May be disposed in a chemical waste landfill that complies with 40 *CFR* 761.75 if:	PCB liquids at concentrations ≥ 50 ppm from incidental sources and associated with PCB articles or nonliquid PCB wastes—**applicable**	40 *CFR* 761.60(a)(3)
	• Disposal does not violate 40 *CFR* 268.32(a) or 268.42(a)(1) and		40 *CFR* 761.60(a)(3)(i)
	• Liquids do not exceed 500 ppm and are not ignitable waste as described in 40 *CFR* 761.75(b)(8)(iii).		40 *CFR* 761.60(a) (3)(ii)
Disposal of PCB transformers	Shall be disposed of in either:	PCB-contaminated electrical equipment (including transformers that contain PCBs at concentrations of ≥ 50 ppm and < 500 ppm in the contaminating fluid) as defined in 40 *CFR* 761.3—**applicable**	40 *CFR* 761.60(b)(1)
	• An incinerator that complies with 40 *CFR* 761.70 or		40 *CFR* 761.60(b)(1) (i)(A)
	• A chemical waste landfill that is compliant with 40 *CFR* 761.75 provided all free flowing liquid is removed from the transformer, the transformer is filled with a solvent, the transformer is allowed to stand for at least 18-continuous hours, and then the solvent is thoroughly removed.		40 *CFR* 761.60(b)(1) (i)(B)
Performance-based disposal of PCB bulk product waste	May dispose of by one of the following:	Disposal of PCB bulk product waste as defined in 40 *CFR* 761.3—**applicable**	40 *CFR* 761.62(a)
	• In an incinerator under Section 761.70		40 *CFR* 761.62(a)(1)
	• In a chemical waste landfill under Section 761.75		40 *CFR* 761.62(a)(2)
	• In a hazardous waste landfill under Section 3004 or Section 3006 of RCRA		40 *CFR* 761.62(a)(3)
	• Under alternate disposal under Section 761.60(e)		40 *CFR* 761.62(a)(4)
	• In accordance with decontamination provisions of Section 761.79		40 *CFR* 761.62(a)(5)
	• In accordance with the thermal decontamination provisions of Section 761.79(e)(6) for metal surfaces in contact with PCBs.		40 *CFR* 761.62(a)(6)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Risk-based disposal of PCB bulk product waste	May dispose of in a manner other than that prescribed in 40 *CFR* 761.62(a) if the method will not pose an unreasonable risk of injury to health or the environment.	Disposal of PCB bulk product waste as defined in 40 *CFR* 761.3—**applicable**	40 *CFR* 761.62(c)
Disposal of PCB bulk product waste in solid waste landfill	May dispose of the following in a municipal or nonmunicipal nonhazardous waste landfill.	Disposal of nonliquid PCB bulk product waste listed in 40 *CFR* 761.62(b)(1)—**applicabl**e	40 *CFR* 761.62(b)(1)
	• Plastics (such as plastic insulation from wire or cable; radio, television and computer casings; vehicle parts; or furniture laminates); preformed or molded rubber parts and components; applied dried paints, varnishes, waxes or other similar coatings or sealants; caulking; Galbestos; nonliquid building demolition debris; or nonliquid PCB bulk product waste from the shredding of automobiles or household appliances from which PCB small capacitors have been removed (shredder fluff)		40 *CFR* 761.62(b)(1)(i)
	• Other PCB bulk product waste, sampled in accordance with the protocols set out in subpart R of 40 *CFR* Part 761, that leaches PCBs at < 10 μg/L of water measured using a procedure used to simulate leachate generation.		40 *CFR* 761.62(b)(1)(ii)
	May dispose of in a municipal or nonmunicipal nonhazardous waste landfill if:	PCB bulk product waste not meeting conditions of 40 *CFR* 761.62(b)(1) (e.g., paper/felt gaskets contaminated by liquid PCBs)—**applicable**	40 *CFR* 761.62(b)(2)
	• The PCB bulk product waste is segregated from organic liquids disposed of in the landfill and		40 *CFR* 761.62(b)(2)(i)
	• Leachate is collected from the landfill and monitored for PCBs.		40 *CFR* 761.62(b)(2)(ii)
Disposal of fluorescent light ballasts	Must be disposed of in a TSCA disposal facility as bulk product waste under 40 *CFR* 761.62 or in accordance with the decontamination provisions of 40 *CFR* 761.79.	Generation for disposal of fluorescent light ballasts containing PCBs in the potting material—**applicable**	40 *CFR* 761.60(b)(6)(iii)
Disposal of PCB-contaminated electrical equipment (except capacitors)	Must remove all free-flowing liquid from the electrical equipment and dispose of the removed liquid in accordance with 40 *CFR* 761.60(a) and	Generation of PCB-contaminated electrical equipment (as defined in 40 *CFR* 761.3) for disposal—**applicable**	40 *CFR* 761.60(b)(4)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Disposal of PCB-contaminated electrical equipment (except capacitors) (continued)	Dispose of by one of the following methods: • In a facility managed as a municipal solid waste or nonmunicipal nonhazardous waste • In an industrial furnace operating in compliance with 40 *CFR* 761.72 or • In a disposal facility under 40 *CFR* 761.60.	Drained PCB-contaminated electrical equipment, including any residual liquids—**applicable**	40 *CFR* 761.60(b)(4)(i)
Disposal of PCB capacitors	Any person must assume that a capacitor manufactured prior to July 2, 1979, whose PCB concentration is not established, contains ≥ 500 ppm PCBs. If the date of manufacture is unknown, any person must assume the capacitor contains ≥ 500 ppm PCBs.	Generation of PCB capacitors with ≥ 500 ppm PCBs for disposal—**applicable**	40 *CFR* 761.2(a)(4)
	Shall comply with all requirements of 40 *CFR* 761.60 unless it is known from label or nameplate information, manufacturer's literature, or chemical analysis that capacitor does not contain PCBs.		40 *CFR* 761.60(b)(2)(i)
	Shall dispose of in accordance with either of the following: • Disposal in an incinerator that complies with 40 *CFR* 761.70 or • Disposal in a chemical waste landfill that complies with 40 *CFR* 761.75.	Generation of PCB capacitors with ≥ 500 ppm PCBs for disposal—**applicable**	40 *CFR* 761.60(b)(2)(iii)
	Shall dispose of in one of the following disposal facilities approved under 40 *CFR* 761.60: • Incinerator under 40 *CFR* 761.70 • Chemical waste landfill under 40 *CFR* 761.75 • High-efficiency boiler under 40 *CFR* 761.71 • Scrap metal recovery oven or smelter under 40 *CFR* 761.72.	Disposal of large capacitors that contain ≥ 50 ppm but < 500 ppm PCBs—**applicable**	40 *CFR* 761.60(b)(4)(ii)
	May dispose of in municipal solid waste landfill.	Generation of PCB small capacitors (as defined in 40 *CFR* 761.3) for disposal—**applicable**	40 *CFR* 761.60(b)(2)(ii)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Disposal of PCB-contaminated articles	Must remove all free-flowing liquid from the article, disposing of the liquid in compliance with the requirements of 40 *CFR* 761.60(a)(2) or (a)(3), and	Generation of PCB-contaminated articles (as defined in 40 *CFR* 761.3) for disposal—**applicable**	40 *CFR* 761.60(b)(6)(ii)
	Dispose by one of the following methods: • In accordance with the decontamination provisions at 40 *CFR* 761.79 • In a facility managed as a municipal solid waste or nonmunicipal nonhazardous waste • In an industrial furnace operating in compliance with 40 *CFR* 761.72, or • In a disposal facility under 40 *CFR* 761.60.	Disposal of PCB-contaminated articles with no free-flowing liquid—**applicable**	40 *CFR* 761.60(b)(6)(ii)(A) thru (D)
Transportation of PCB wastes off site for disposal	Must comply with the manifesting provisions at 40 *CFR* 761.207 through 218.	Preparation for relinquishment of control over PCB wastes by transporting or offering for transport—**applicable**	40 *CFR* 761.207(a)
RADIOACTIVE WASTE			
Radiation protection of the public and the environment	Except as provided in 458.1(4)(c), exposure to individual members of the public from radiation shall not exceed a total EDE of 0.1 rem/year (100 mrem/year), an equivalent dose to the lens of the eye exceeding 1,500 mrem/year, or an equivalent dose to the skin or extremities exceeding 5,000 mrem/year, exclusive of the dose contributions from background radiation, any medical administration the individual has received, or voluntary participation in medical/research programs.	Release of radionuclides to the environment from all sources of ionizing radiation and exposure pathways at a DOE facility that could contribute significantly to the total dose—**TBC**	DOE Order 458.1(4)(b) and (c)
	Shall use, to the extent practicable, procedures and engineering controls based on sound radiation protection principles to achieve doses to members of the public that are ALARA.		DOE Order 458.1(4)(d)
	Except as provided in *OAC* 3701:1-38-13(C), exposure to individual members of the public from radiation shall not exceed 1 millisievert (0.1 rem) in a year, exclusive of the dose contributions from background radiation, any medical administration the individual has received, or voluntary participation in medical/research programs.	Licensee or registrant conducting operations that release radioactivity—**relevant and appropriate**	*OAC* 3701:1-38-13(A)(1)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Radiation protection of the public and the environment (continued)	The dose in any unrestricted area from external sources, exclusive of the dose contribution from patients administered radioactive material and released in accordance with *OAC* 3701:1-58-30 or equivalent U.S. nuclear regulatory agency or agreement state regulations, shall not exceed 0.02 millisievert (0.002 rem) in any 1 hour.		*OAC* 3701:1-38-13(A)(2)
Management, storage and disposal of LLW waste	Management, storage, and disposal must be conducted in a manner such that exposure to members of the public to radiation from radioactive waste complies with ALARA process requirements and does not exceed a TED of 25 mrem in a year from all exposure pathways and radiation sources associated with the waste, except for transportation and radon and its decay products.	Management, storage, and disposal of LLW—**TBC**	DOE Order 458.1(h)(1)(c)
Characterization of LLW	Shall be characterized using direct or indirect methods and the characterization documented in sufficient detail to ensure safe management and compliance with the WAC of the receiving facility.	Generation of LLW for storage or disposal at a DOE facility—**TBC**	DOE M 435.1-1(IV)(I)
	Characterization data shall, at a minimum, include the following information relevant to the management of the waste:		DOE M 435.1-1(IV)(I)(2)
	• Physical and chemical characteristics		DOE M 435.1-1(IV)(2)(a)
	• Volume, including the waste and any stabilization or absorbent media		DOE M 435.1-1 (IV)(I)(2)(b)
	• Weight of the container and contents		DOE M 435.1-1 (IV)(I)(2)(c)
	• Identities, activities, and concentrations of major radionuclides		DOE M 435.1-1 (IV)(I)(2)(d)
	• Characterization date		DOE M 435.1-1 (IV)(I)(2)(e)
	• Generating source, and		DOE M 435.1-1 (IV)(I)(2)(f)
	• Any other information that may be needed to prepare and maintain the disposal facility performance assessment, or demonstrate compliance with performance objectives.		DOE M 435.1-1 (IV)(I)(2)(g)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Packaging of solid LLW	Shall be packaged in a manner that provides containment and protection for the duration of the anticipated storage period and until disposal is achieved or until the waste has been removed from the container.	Storage of LLW in containers at a DOE facility—**TBC**	DOE M 435.1-1 (IV)(L)(1)(a)
	Vents or other measures shall be provided if the potential exists for pressurizing or generating flammable or explosive concentrations of gases within the waste container. Containers shall be marked such that their contents can be identified.		DOE M 435.1-1 (IV)(L)(1)(b) and (c)
Release of radiological materials or scrap metal for reuse	Before being released, property shall be monitored or surveyed to determine the types and quantities of residual radioactive material within the property; the quantities of removable and total residual radioactive material on property surfaces (including residual radioactive material on or under any coating); and that contamination within or on the property is in compliance with applicable DOE Authorized Limits of DOE Order 458.1(4)(k)(6).	Radionuclide-contaminated materials and equipment intended for unrestricted use—**TBC**	DOE Order 458.1(4)(k)(3)(b)(1)–(2) and (4)
	Where potentially contaminated surfaces are difficult to access for measurement (as in some pipes, drains, and ductwork), such property may be released after case-by-case evaluation and documentation based on both the history of its use and available measurements sufficient to demonstrate that the unsurveyable surfaces are likely to meet DOE Authorized Limits.		DOE Order 458.1(4)(k)(3)(b)(3)
Treatment of LLW	Waste treatment to provide more stable waste forms and to improve the long-term performance of a LLW disposal facility shall be implemented as necessary to meet performance objectives of the disposal facility.	Generation of LLW for disposal at a DOE LLW disposal facility—**TBC**	DOE M 435.1-1(IV)(O)
Disposal of solid LLW at DOE facilities	Shall meet waste acceptance requirements before it is transferred to the receiving facility.	Generation of LLW for disposal at a DOE facility—**TBC**	DOE M 435.1-1(IV)(J)(2)
Transportation of radioactive waste	Shall be packaged and transported in accordance with the substantive requirements of DOE Order 460.1C (*Packaging and Transportation Safety*) and DOE Order 460.2A (*Departmental Materials Transportation and Packaging Management*).	Preparation of shipment of radioactive waste—**TBC**	DOE M 435.1-1 (I)(1)(E)(11)
	To the extent practicable, the volume of waste and number of shipments shall be minimized.		DOE M 435.1-1 (III)(L)(2) DOE M 435.1-1 (IV)(L)(2)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
ASBESTOS-CONTAINING WASTES			
Management of ACM prior to disposal	Discharge no visible emissions to the outside air or use one of the emission control and waste treatment methods specified in paragraphs (a)(1) through (a)(4) of 40 *CFR* 61.150 [paragraphs (B)(1) through (B)(4) of *OAC* 3745-20-05].	Generation, collection, processing, packaging, and transportation of any asbestos-containing waste material that is not Category I or II nonfriable ACM waste that did not become crumbled, pulverized, or reduced to powder [40 *CFR* 61.150(a) (5)]—**applicable**	40 *CFR* 61.150(a) *OAC* 3745-20-05(B)
	All asbestos-containing waste material shall be deposited as soon as practicable at a waste disposal site operated in accordance with the provisions of 40 *CFR* 61.154 [*OAC* 3745-20-06] or an appropriate site that coverts RACM and asbestos-containing waste materials into nonasbestos (asbestos-free) materials according to the provisions of 40 *CFR* 61.155 [*OAC* 3745-20-13].		40 *CFR* 61.150(b)(1) - (2) *OAC* 3745-20-05(A)
	The requirements of 40 *CFR* 61.150(b)(1) and (2) [*OAC* 3745-20-05(A)]do not apply to Category I nonfriable ACM that is not RACM.		40 *CFR* 61.150(b)(3) *OAC* 3745-20-05(A)(4)
Disposal of asbestos-containing waste material (e.g., transite siding, pipe lagging, insulation, ceiling tiles)	All asbestos-containing waste material must be deposited as soon as practicable at a waste disposal site operated in accordance with Section 61.154 [*OAC* 3745-20-06] or a site that converts RACM and asbestos-containing waste material into nonasbestos (asbestos free) material according to the provisions of 40 *CFR* 61.155 [*OAC* 3745-20-13].	Removal and disposal of RACM except Category I nonfriable asbestos containing material—**applicable**	40 *CFR* 61.150(b)(1) and (2) *OAC* 3745-20-05(A)
	May use an alternative emission control and waste treatment method that will control asbestos emissions equivalent to currently required methods, the alternative method is suitable for the intended application, and the alternative method will not violate other regulations and will not result in increased water or land pollution or occupational hazards.		40 *CFR* 61.150(a)(4) *OAC* 3745-20-05(B)(4)
Transportation of asbestos-containing waste materials off site	For asbestos-containing waste material to be transported off the facility site, label containers or wrapped materials with the name of the waste generator and location at which the waste was generated.	Preparation for transport of asbestos-containing waste materials off site—**applicable**	40 *CFR* 61.150(a)(1)(v) *OAC* 3745-20-05(C)(1)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Transportation of asbestos-containing waste materials off site (continued)	Mark vehicles used to transport asbestos-containing waste material during the loading and unloading of waste so that the signs are visible. The markings must conform to the requirements of 40 *CFR* 61.149(d)(1)(i), (ii), and (iii).		40 *CFR* 61.150(c) *OAC* 3745-20-05(E)
UNIVERSAL WASTES			
Characterization and management of universal waste	A large quantity handler of universal waste is prohibited from disposing, diluting, or treating universal waste except in accordance with 40 *CFR* 273 [*OAC* 3745-273-33 or 3745-273-37].	Generation of universal waste [as defined in 40 *CFR* 273 and *OAC* 3745-273] for disposal—**applicable**	40 *CFR* 273.31 *OAC* 3745-273-31
	A large quantity handler of universal waste must manage universal waste in accordance with 40 *CFR* 273 [*OAC* 3745-273-33] in a way that prevents releases of any universal waste or component of a universal waste to the environment.		40 *CFR* 273.33 *OAC* 3745-273-33(A)
	Must label or mark the universal waste to identify the type of universal waste.		40 *CFR* 273.34 *OAC* 3745-273-34
	May accumulate waste for no longer than 1 year from the date the waste is generated or received from another handler unless the requirements of 40 *CFR* 273.35(b) [*OAC* 3745-273-35(B)] are met		40 *CFR* 273.35(a) *OAC* 3745-273-35(A)
	May accumulate universal waste for longer than 1 year from the date the universal waste is generated or received from another handler if such activity is solely for the purpose of accumulation of such quantities of universal waste as necessary to facilitate proper recovery, treatment, or disposal. However, the handler bears the burden of proving that such activity was solely for this purpose.		40 *CFR* 273.35(b) *OAC* 3745-273-35(B)
	Shall ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures relative to their responsibilities during normal facility operations and emergencies.		40 *CFR* 273.36 *OAC* 3745-273-36

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Characterization and management of universal waste (continued)	A large quantity handler of universal waste must immediately contain all releases of universal wastes and other residues from universal wastes, and must determine whether any material resulting from the release is hazardous waste, and if so, must manage the hazardous waste in compliance with all applicable requirements.		40 *CFR* 273.37 *OAC* 3745- 273.37
Transportation of universal waste off site	Off-site shipments of universal waste by a large quantity handler of universal waste shall be made in accordance with 40 *CFR* 273.38 [*OAC* 3745-273-38].	Preparation of universal waste for transport off site—**applicable**	40 *CFR* 273.38(c) *OAC* 3745-273-38(A), (C), (D), and (E)
	Must keep a record of each shipment of universal waste received and sent from the facility and retain record for at least 3 years. Record must include waste handler, shipper, or destination facility name and address, quantity and type of waste, and date shipment left or was received at facility.		40 *CFR* 273.39 *OAC* 3745-273.39
	Off-site shipments to a foreign destination must comply with requirements applicable to a primary exporter in *OAC* 3745-52-10, 3745-52-53, 3745-52-56 and 3745-52-57 and export waste only upon consent of the receiving country and in conformance with the EPA "Acknowledgement of Consent" as defined in *OAC* 3745-52-50 to 3745-52-57. A copy of the consent must be provided to the transporter.		40 *CFR* 273.40 *OAC* 3745-273.40
Management of universal waste batteries	A large quantity handler of universal waste must contain any universal waste battery that shows evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions in a container.	Generation of universal waste batteries [as defined in 40 *CFR* 273.9 and *OAC* 3745-273-02]—**applicable**	40 *CFR* 273.33(a)(1) *OAC* 3745-273-33(A)(1)
	Container must be closed, structurally sound, compatible with the contents of the battery, and lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions.		
	Batteries, or container or tank in which the batteries are contained, must be labeled or marked clearly with any one of the following phrases: "Universal Waste – Battery(ies)" or "Waste Batter(ies)" or "Used Battery(ies)."		40 *CFR* 273.34(a) *OAC* 3745-273-34(A)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Management of universal waste pesticides	A large quantity handler of universal waste pesticide must contain the pesticide in a container that remains closed, structurally sound, compatible with the pesticide, and that lacks evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions. A leaking pesticide container must be put into an overpack container, tank, or transport container, as detailed in 40 *CFR* 273.33(b) [*OAC* 3745-273-33(B)].	Generation of universal waste pesticides [as defined in 40 *CFR* 273.9 and *OAC* 3745-273-03]—**applicable**	40 *CFR* 273.33(b) *OAC* 3745-273-33(B)(1) – (4)
	A container, tank, transport vehicle or vessel in which recalled or unused pesticides are contained must be labeled or marked clearly with the label that was on or accompanied the product and the word “Universal Waste – Pesticide(s)” or “Waste – Pesticide(s).”		40 *CFR* 273.34(b) and (c) *OAC* 3745-273-34(B) and (C)
Management of universal waste thermostats or other mercury-containing equipment	A large quantity handler of universal waste must contain any mercury-containing equipment that shows evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions in a container.	Generation of universal waste mercury-containing equipment [as defined in 40 *CFR* 273.9 and *OAC* 3745-273-04]—**applicable**	40 *CFR* 273.33(c)(1) *OAC* 3745-273-33(C)(1)
	Container must be closed, structurally sound, compatible with the contents of the thermostat, and lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions, and be reasonably designed to prevent the escape of mercury into the environment by volatilization or any other means.		
	May remove the mercury-containing ampule or the open original housing holding the mercury from mercury-containing equipment and manage and dispose of it in accordance with regulations.		40 *CFR* 273.33(c)(2) - (4) *OAC* 3745-273-33(C)(2) - (4)
	Mercury-containing equipment or a container in which the equipment is contained must be labeled or marked clearly with any of the following phrases: “Universal Waste – Mercury-Containing Equipment” or Waste Mercury-Containing Equipment” or “Used Mercury-Containing Equipment.”		40 *CFR* 273.34(d)(1) *OAC* 3745-273-34(D)(1)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Management of universal waste thermostats or other mercury-containing equipment (continued)	Mercury-containing thermostats or containers containing only these thermostats must be labeled or marked clearly with any of the following phrases: "Universal Waste – Mercury Thermostat(s)" or "Waste Mercury Thermostat(s)" or "Used Mercury Thermostat(s)."		40 *CFR* 273.34(d)(2) *OAC* 3745-273-34(D)(2)
Management of universal waste lamps (fluorescent, mercury vapor)	A large quantity handler of universal waste must contain any lamp in containers or packages that are structurally sound, adequate to prevent breakage, and compatible with the contents of the lamps. Such containers and packages must remain closed and must lack evidence of leakage, spillage, or damage that could cause leakage of hazardous constituents under reasonably foreseeable conditions.	Generation of universal waste lamps [as defined in 40 *CFR* 273.9 and *OAC* 3745-273-05] —**applicable**	40 *CFR* 273.33(d)(1) *OAC* 3745-273-33(D)(1)
	A large quantity handler of universal waste lamp must immediately clean up and place in a container any lamp that is broken and must place in a container any lamp that shows evidence of breakage, leakage, or damage that could cause the release of mercury or other hazardous constituents to the environment.		40 *CFR* 273.33(d)(2) *OAC* 3745-273-33 (D)(2)
	Each lamp or container or package in which such lamps are contained must be labeled or marked clearly with one of the following phrases: "Universal Waste-Lamp(s)," or "Waste Lamps," or "Used Lamps."		40 *CFR* 273.34(e) *OAC* 3745-273-34(E)
	Mark or label the individual item with the date the lamp(s) became a waste, or mark or label the container or package with the date the wastes were received.		40 *CFR* 273.35(c) *OAC* 3745-273-35(C)
MISCELLANEOUS WASTES			
	Beryllium-containing wastes		
Release of beryllium-contaminated equipment or other items	Must clean beryllium-contaminated equipment or other items to the lowest contamination level practicable, not to exceed the levels established in 10 *CFR* 850.31(b) and (c) and label them before release.	Release of beryllium-contaminated equipment or other items to general public or another DOE facility—**applicable**	10 *CFR* 850.31(a)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Release of beryllium-contaminated equipment or other items (continued)	Before being released to the general public or another DOE facility, ensure that the removable contamination level of equipment and item surfaces does not exceed the higher of 0.2 µg/100 cm^2 or the concentration level of beryllium in soil at the point or release, whichever is greater;		10 *CFR* 850.31(b)(1)
	Ensure equipment or item is labeled in accordance with 10 *CFR* 850.38(b); and		10 *CFR* 850.31(b)(2)
	Release is conditioned on the recipient's commitment to implement controls that will prevent foreseeable beryllium exposure.		10 *CFR* 850.31(b)(3)
	Before being released to another facility performing work with beryllium, must ensure that removal contamination level of equipment and other item surfaces does not exceed 3 µg/100 cm^2;		10 *CFR* 850.31(c)(1)
	Ensure equipment or item is labeled in accordance with 10 *CFR* 850.38(b); and		10 *CFR* 850.31(c)(2)
	Enclose or place in sealed, impermeable bags or containers to prevent the release of beryllium dust during handling or transportation.		10 *CFR* 850.31(c)(3)
	Used oil		
Management of used oil	Used oil shall not be stored in a unit other than a tank, container, or RCRA regulated unit.	Generation and storage of used oil, as defined in 40 *CFR* 279.1 [*OAC* 3745-279-01(A)(12)], that meets the applicability requirements of 40 *CFR* 279.10—**applicable**	40 *CFR* 279.22(a) *OAC* 3745-279-22(A)
	Containers and aboveground tanks used to store used oil must be in good condition (no severe rusting, apparent structural defects, or deterioration) and not leaking (no visible leaks).		40 *CFR* 279.22(b)(1) and (2) *OAC* 3745-279-22(B)(1) and (2)
	Containers and aboveground tanks used to store used oil and fill pipes used to transfer used oil into USTs must be labeled or marked clearly with the words "Used Oil".		40 *CFR* 279.22(c)(1) and (2) *OAC* 3745-279-22 (C)(1)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Management of used oil (continued)	Upon detection of a release of used oil to the environment, a generator must stop the release; contain, clean up, and properly manage the released used oil; and, if necessary, repair or replace any leaking used oil storage containers or tanks prior to returning to service.	Release of used oil to the environment—**applicable**	40 *CFR* 279.22(d) *OAC* 3745-279-22(D)
Transportation of used oil off site	Except as provided in paragraphs (a) to (c) of 40 *CFR* 279.24 [*OAC* 3745-279-24(A) to (C)], generators must ensure that their used oil is transported by transporters who have obtained EPA ID numbers.	Preparation of used oil for transport off site—**applicable**	40 *CFR* 279.24 *OAC* 3745-279-24
	Refrigeration equipment		
Disposal of refrigeration equipment	With the exception of the substitutes in the end uses listed in 40 *CFR* 82.154(a)(1)(i) – (vi), no person maintaining, servicing, repairing, or disposing of appliances may knowingly vent or otherwise release into the environment any refrigerant or substitute from such appliances.	Appliances that contain Class I or II substances used as a refrigerant—**applicable**	40 *CFR* 82.154(a)(1)
	De minimis releases associated with good faith attempts to recycle or recover refrigerants are not subject to this prohibition.		40 *CFR* 82.154(a)(2)
	No person may dispose of such appliances, except for small appliances, MVACs, and MVAC-like appliances, without: • Observing the required practices set forth in 40 *CFR* 82.156 and • Using equipment that is certified for that type of appliance pursuant to 40 *CFR* 82.158.		40 *CFR* 82.154(b)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
State of Ohio construction-demolition debris			
Exclusions for disposal or reuse of construction and demolition debris, or "clean hard fill" [as defined in *OAC* 3745-400-01(E)]	Construction and demolition debris facility requirements do not apply to construction and demolition debris or clean hard fill used in one or more of the following ways: • Any construction site where construction debris and trees and brush removed in clearing the construction site are used as fill material on the site where the materials are generated or removed • Any site where clean hard fill is used, either alone or in conjunction with clean soil, sand, gravel, or other clean aggregates, in legitimate fill operations • Any site where debris is not disposed, such as where debris is reused or recycled in a beneficial manner, or stored for a temporary period remaining unchanged and retrievable.	Use of construction and demolition debris or clean hard fill at a site—**applicable**	*OAC* 3745-400-03
Disposal of construction and demolition debris	Shall be disposed of only in an authorized construction and demolition debris facility or solid waste disposal facility; by means of open burning if permitted as provided in *OAC* 3745-19; or by other methods provided such methods are demonstrated to be capable of disposing without creating a nuisance or health hazard, without causing water pollution, and without violating any regulations under Chapters 3745, 3704 or 3734.	Disposal of construction and demolition debris—**applicable**	*OAC* 3745-400-04(A) and (B)
Disposal of construction and demolition debris as "clean hard fill"	Clean hard fill consisting of reinforced or nonreinforced concrete, asphalt concrete, brick (includes but is not limited to refractory brick and mortar), block, tile, or stone shall be managed in one or more of the following ways: • Recycled into usable construction material • Disposed in construction and demolition debris or other waste facilities • Used in legitimate fill operations for construction purposes or to bring the site up to consistent grade, on the site of generation, or on a site other than the site of generation, pursuant to paragraph (C) of *OAC* 3745-400-05.	Use of clean hard fill (does not include materials contaminated with hazardous, solid, or infectious waste) to bring a construction site up to consistent grade—**applicable**	*OAC* 3745-400-05(A)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Disposal of construction and demolition debris as “clean hard fill” (continued)	Clean hard fill may be stored for a period of less than 2years. “Stored” means held in a manner remaining retrievable and substantially unchanged. Clean hard fill piled adjacent to a construction materials processing facility shall not be considered stored for more than 2 years if the pile is active, i.e., if clean hard fill material is added to and removed from the pile within a 2-year period.		*OAC* 3745-400-05(B)
AIR EMISSIONS			
	Fugitive air emissions		
Activities causing fugitive dust (particulate) emissions	Shall take reasonable achievable control measures to prevent particulate matter from becoming airborne. Reasonable achievable control measures shall include, but are not limited to, the following:	Fugitive emissions from transportation, land-disturbing, or building alteration activities located in areas identified in Appendix A to *OAC* 3745-17-08, except as exempted under *OAC* 3745-17-08(A)(3) — **relevant and appropriate**	*OAC* 3745-17-08(B)
	• Use, where possible, of water or chemicals for control of dust and in demolition of existing buildings or structures, construction operations, grading of roads, or the clearing of land		*OAC* 3745-17-08(B)(1)
	• Periodic application of asphalt, oil (excluding used oil), water, or other suitable chemicals on dirt or gravel roads and parking lots, materials stock piles, and other surfaces that can create airborne dusts, or the use of canvas or other suitable coverings for all materials stockpiles and stockpiling operations except temporary stockpiles		*OAC* 3745-17-08(B)(2) and (6)
	• Install and use hoods, fans, and other equipment to adequately enclose, contain, capture, vent, and control the fugitive dust at the point(s) of capture to the extent possible with good engineering design. Equipment must meet the efficiency requirements of *OAC* 3745-17-08(B)(3)(a) and (b)		*OAC* 3745-17-08(B)(3)
	• Use of adequate containment methods during sandblasting or similar operations		*OAC* 3745-17-08(B)(5)
	• Cover, at all times, open-bodied vehicles when transporting materials likely to become airborne		*OAC* 3745-17-08(B)(7)

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
Activities causing fugitive dust (particulate) emissions (continued)	• Pave and maintain roadways in a clean condition and • Promptly remove, in such a manner as to minimize or prevent resuspension, earth or other material from paved streets onto which this material has been deposited by trucking or earth moving equipment or erosion by water or other means.		*OAC* 3745-17-08(B)(8) *OAC* 3745-17-08(B)(9)
	Air emissions from a stationary source		
Activities causing release of air pollutants	Shall not cause the emission or escape into the open air from any source or sources whatsoever of smoke, ashes, dust, dirt, grime, acids, fumes, gases, vapors, odors, or any other substances or combinations of substances in such manner or in such amounts as to endanger the health, safety, or welfare of the public, or cause unreasonable injury or damage to property.	Activities causing the release of air pollution nuisances as defined in *OAC* 3745-15-07(A)—**applicable**	*OAC* 3745-15-07
	The operation of a hazardous waste facility shall not cause, permit, or allow the emission there from of any particulate matter, dust, fumes, gas, mist, smoke, vapor, or odorous substance that unreasonably interferes with the comfortable enjoyment of life or property by persons living or working in the vicinity of the facility or that is injurious to public health.	Site where hazardous waste will be managed such that air emissions may occur—**applicable**	*ORC* 3734.02(I)
Airborne radionuclide emissions	Emissions of radionuclides to the ambient air from DOE facilities shall not exceed those amounts that would cause any member of the public to receive an EDE of 10 mrem per year.	Radionuclide air emissions to the ambient air from DOE facilities—**applicable**	40 *CFR* 61.92

Table F.2. ARARs and TBC Guidance for the Site-wide Waste Disposition Evaluation Project Off-Site Disposal Alternative at PORTS, Piketon, Ohio (Continued)

Action	Requirements[a]	Prerequisite	Citation
WETLANDS			
	Indirect impacts to wetlands		
Activities causing indirect impacts to wetlands	Wetland narrative criteria in *OAC* 3745-1-51(A) shall be protected to prevent significant adverse impacts on the hydrology necessary to support the biological and physical characteristics naturally present in wetlands		*OAC* 3745-1-51(A)
	Wetland narrative criteria in *OAC* 3745-1-51(B) shall be protected to prevent significant adverse impacts on water quality necessary to support existing habitat and populations of wetland flora and fauna and to prevent conditions conducive to the establishment or proliferation of nuisance organisms.		*OAC* 3745-1-51(B)
	Wetland numeric chemical criteria for wastewater discharge to wetlands shall be associated with the "warmwater habitat" use designation shall apply at the "end of pipe".		*OAC* 3745-1-52

ACM = asbestos-containing material
ALARA = as low as reasonably achievable
ARAR = applicable or relevant and appropriate requirement
CFR = Code of Federal Regulations
CMBST = combustion
CWA = Clean Water Act
DEACT = deactivation
DOE = U.S. Department of Energy
DOE M = U.S. Department of Energy Radioactive Waste Management Manual
EDE = effective dose equivalent
EPA = U.S. Environmental Protection Agency
HMR = Hazardous Materials Regulations
HMTA = Hazardous Materials Transportation Act of 1975 (Amendments of 1976)
ID = identification number
LDR = land disposal restriction
LPP = LATA/Parallax Portsmouth, LLC
LLW = low-level (radioactive) waste
MVAC = motor vehicle air conditioning
NACE = National Association of Corrosion Engineers
NCP = National Oil and Hazardous Substances Pollution Contingency Plan
OAC = Ohio Administrative Code
ORC = Ohio Revised Code
PCB = polychlorinated biphenyl
POLYM = polymerization
PORTS = Portsmouth Gaseous Diffusion Plant
POTW = publicly owned treatment works
RACM = regulated asbestos-containing material
RCRA = Resource Conservation and Recovery Act of 1976, as amended
RORGS = recovery of organics
TBC = to-be-considered
TED = total effective dose
TSCA = Toxic Substances Control Act of 1976
UST = underground storage tank
UTS = universal treatment standard
WAC = waste acceptance criteria

APPENDIX G: ENGINEERING STUDY OF PROCESS BUILDING EQUIPMENT SUBSIDENCE AVOIDANCE PROCESS OPTIONS

CONTENTS

TABLES

ACRONYMS

BNFL	British Nuclear Fuel Limited
D&D	decontamination and decommissioning
DOE	U.S. Department of Energy
FS	Feasibility Study
FY	fiscal year
HEPA	high efficiency particulate air
LLW	low-level (radioactive) waste
NDA	nondestructive assay
ODOT	Ohio Department of Transportation
OSDC	on-Site disposal cell
PORTS	Portsmouth Gaseous Diffusion Plant
RI	Remedial Investigation
WAC	waste acceptance criteria
WBS	work breakdown structure

The purpose of this appendix is to evaluate disposal landfill subsidence avoidance process options to support the technology screening phases of the Feasibility Study (FS) for the decontamination and decommissioning (D&D) of the large radiologically contaminated equipment in the process buildings and the FS for the waste disposition decision at the Portsmouth Gaseous Diffusion Plant (PORTS) in Piketon, Ohio. Radiologically contaminated process equipment is expected to represent the highest radiological hazards to PORTS workers and off-PORTS receptors during D&D. However, as a result of their design, they may also represent a significant technical issue for proper design and operation of disposal facilities because of the large void fractions internal to the equipment. This evaluation is conducted in the event that waste acceptance criteria (WAC) require the generating projects to control void spaces in or degradation of their waste to mitigate long-term subsidence. This document addresses subsidence avoidance process options for the process equipment and is primarily oriented toward converters and compressors. Both the waste disposition and process building FSs will use results from this study.

G.1. INTRODUCTION

The U.S. Department of Energy (DOE) is evaluating waste disposition options for up to 1.47 million cy of primarily low-level (radioactive) waste (LLW) anticipated to be generated at the PORTS Facility[1]; 272,000 cy of this volume is process gas equipment. This analysis only addresses the volumes of major equipment from the X-330 and X-333 Buildings that are assumed for on-Site disposal (219,000 cy, of which 154,000 cy are process converters). These converters are assumed in the overall evaluation to be segmented and the nickel removed for future disposition; however, the original in situ volume of 154,000 cy is used for this analysis. Another 53,000 cy (approximately 24 percent) are compressors from the X-330 and X-333 buildings, and 12,000 cy (5.5 percent) are other process gas equipment from these buildings (surge drums and recycle coolers). These three components represent one of the largest, and the most highly contaminated, waste streams requiring disposal under this remedial action.

G.2. SCOPE AND OBJECTIVES

The gaseous diffusion enrichment process equipment is among the largest waste streams expected to be disposed in a potential on-Site disposal cell (OSDC), and the anticipated waste volume for on-Site disposal is approximately 219,000 cy of original equipment. The designs of the process equipment result in significant internal voids. The radioactive contamination inside the equipment and the size of the equipment present a technical challenge, if the disposal facility requires that the disposed waste be controlled in some fashion to control subsidence at the disposal facility. This study evaluates process options to avoid subsidence at a potential OSDC. These options involve eliminating the void space by destructing the equipment, filling the voids in the equipment with a suitable material, or protecting the equipment from corrosion and subsequent degradation. This study does not address options that could be applied to OSDC design or operation to address subsidence concerns.

As remedial decisions, cell design, the WAC, and characterization information matures into a final plan, it is expected that different process options may be selected or not even be needed. This study identifies the representative process options that will be used in the FSs to allow a consideration of the impacts such a requirement may impose.

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[1] These waste volumes represent uncontainerized waste with no adjustments for expansion or compaction.

The following addresses the initial scope assumptions for this evaluation. Equipment considered is as follows:

- X-330 converters and compressors-Though the converters will be disassembled and segmented to recover the nickel, the original in situ volume will be included in this analysis for comparison of alternatives.
- X-333 converters and compressors-Though the converters will be disassembled and segmented to recover the nickel, the original in situ volume will be included in this analysis for comparison of alternatives.
- Size reduction of process piping will not be evaluated. It will be demolished with the building and size-reduced with the other building steel.
- Other process equipment (e.g., recycle coolers and surge drums) is similar to the converters and compressors so that subsidence avoidance process options can be extrapolated to them.

If any process gas equipment requires disassembly to remove materials, then the logical process at that point is to continue and segment the equipment into pieces to prevent voids during disposal.

Table G.1 describes the quantities of process equipment being evaluated in this document.

Table G.1. Process Equipment at PORTS

Building	Equipment	Type (Designators)	Quantity[1]
X-333	Converter	X-33 or 000	652
	Compressor	X-33 or 000	655
	Recycle Coolers	000 Trane and Koven	82
	Surge Drums	8 ft × 40 ft and smaller	44
X-330	Converter	X-31 or 00 Sizes 4/5/7	511
	Converter	X-29 or 0 Sizes 0 thru 5	621
	Compressor	X-31 or 00	509
	Compressor	X-29 or 0	600
	Recycle Coolers	000 or 00 York	52
	Recycle Coolers	0 2X	60
	Surge Drums	8 ft × 40 ft (and smaller)	82

[1] Quantities are from Mass Flow Commodity Quantities. Some quantities are uncertain because the specific types for spare equipment are not known.

Table G.2 provides the nominal weight and installed volume of each component.

Converters consist of a nickel-plated steel shell with one inlet process pipe, two outlet process pipes, a finned copper tube cooler with smaller inlet and outlet pipes, and the barrier bundle. The barrier bundle consists of a flow transition (aluminum sheet), tube sheets (nickel-plated steel), a center tube (nickel-plated steel), and thousands of barrier tubes (porous nickel). The readily accessible voids are the inlet and outlet pipes around the outside of the cooler and the outside of the barrier bundle. Inaccessible voids are inside the flow transitions, barrier tubes, cooler tubes, and the cooler inlet and outlet pipes.

Table G.2. Parameters of Process Equipment at PORTS

Building	Equipment	Type (Designators)	Component Weight (lb) Each	Component Volume (cy) Each
X-333	Converter	X-33 or 000	67,514	152.1
	Compressor	X-33 or 000	37,552	57.8
	Recycle Coolers	000 Trane and Koven	8,211 average	19.6
	Surge Drums	8 ft × 40 ft and others	17,347	67.5
X-330	Converter	X-31 or 00 Sizes 4/5/7	21,561	55.0
	Converter	X-29 or 0 Sizes 0 thru 5	16,656	42.7
	Compressor	X-31 or 00	14,152	28.2
	Compressor	X-29 or 0	14,835	28.2
	Recycle Coolers	000 or 00 York	8,403	5.2
	Recycle Coolers	0 2X	2,900	5.2
	Surge Drums	8 ft × 40 ft and others	17,421	67.9

Note:
Parameters are from Mass Flow Commodity Quantities.

The compressors in X-330 and X-333 are axial flow and consist of a nickel-plated steel shell that has an inlet nozzle, a compressor body with a side inlet nozzle, and a discharge nozzle. Inside the shell is a stationary compressor stator (aluminum) with aluminum blades; a rotor (nickel-plated steel) with aluminum blades mounted on a rotating shaft. The rotating shaft penetrates the shell where two compressor seals form a barrier from the outside. The accessible voids in the compressor are the space between the stator and shell, the space between the rotor and stator where the blades are, and all of the nozzles. The inaccessible voids are the interior of the rotor and the ends of the rotor adjacent to the seals.

Recycle coolers are a nickel-plated steel shell with an inlet and outlet process pipe and a copper-finned tube cooler with smaller inlet and outlet pipes. The accessible voids are inside the shell and process inlets. The inaccessible voids are inside the cooler tubes and the cooler inlet and outlet pipes.

Surge drums are nickel-plated steel tanks with inlet and outlet process pipes. The interior is empty and all voids are accessible.

Table G.3 presents a summary of the void spaces in the various process equipment items being evaluated in this study.

The void fractions above are conservative for two reasons. First, some components’ volumes are determined here by simple maximum length, width, and height, and do not take into account irregularities and dimension changes that would reduce the volume. Second, some items inside the equipment (e.g., cooler tubes, impellers, bellows) may have the materials of construction (e.g., exterior nickel plating, aluminum, monel) and structural integrity to withstand the disposal facility stresses without collapse, and thus could potentially be exempted from any future potential requirement for void filling in the WAC.

Table G.3. Void Space in Process Equipment at PORTS

Building	Equipment	Type (Designators)	Void Fraction (%)
X-333	Converter	X-33 or 000	96
	Compressor	X-33 or 000	88
	Recycle Coolers	X-33 or 000	97
	Surge Drums	8 ft × 40 ft	98
X-330	Converter	X-31 or 000	95
	Converter	X-29 or 00	96
	Compressor	X-31 or 00	90
	Compressor	X-29 or 0	90
	Recycle Coolers	000, 00, or 0	93
	Surge Drums	8 ft × 40 ft	98

G.3. PROCESS OPTION DESCRIPTIONS

Subsidence avoidance process options are grouped: (1) segmenting the equipment uniquely or prior to a secondary treatment step to make the equipment void disappear (all surfaces available for fill placement), (2) filling the equipment voids with material compatible with potential future WAC of the disposal facility, or (3) protecting the equipment from degradation for the design life of the facility. Segmentation process options before or during demolition include:

- Cutting into pieces/shapes capable of bulk disposal
- Shearing into pieces/shapes capable of bulk disposal
- Cutting or disassembling to fit into a compactor to prevent subsidence
- Cutting or disassembling to fit into a shredder to prevent subsidence
- Cutting or disassembling to fit into a melter to prevent subsidence.

Void-filling process options to prevent subsidence without segmentation include:

- Foaming with an approved dense foam in situ, at a intermediate foaming station, or at the disposal facility

- Sand or other dry solid media fill at the disposal facility

- Low-density grout fill at the disposal facility.

Subsidence avoidance process options to prevent subsidence through corrosion inhibition include:

- Surrounding the equipment with concrete fill
- Applying corrosion resistant external fixatives.

G.3.1 COMMON ELEMENTS

During the evaluation of these various options, there are some common elements that will be part of the cost estimate to give an accurate reflection of program-level cost impacts. In all cases, some equipment cutting is needed prior to removal of hold-up material or to remove the equipment from the buildings. Then a capping process is used to prevent the spread of contamination after cutting. Finally, the equipment is moved to a shop for further segmentation, a storage area for additional subsidence avoidance efforts, or the disposal facility where some subsidence avoidance efforts may be used. The following process option discussion highlights the common elements that are used in the cost estimate for each subsidence avoidance process option.

Air carbon arc cutting, previously known as air arc cutting, is an arc-cutting process where metal is cut and melted by the heat of a carbon arc. Molten metal is then removed by a blast of air. It employs a consumable carbon or graphite electrode to melt the material, which is then blown away by an air jet. It is the current method used at PORTS to remove equipment that has welded flanges.

Plasma is a process used to cut steel and other metals of different thicknesses (or sometimes other materials) using a plasma torch. In this process, an inert gas (in some units, compressed air) is blown at high speed out of a nozzle; at the same time an electrical arc is formed through that gas from the nozzle to the surface being cut, turning some of that gas to plasma. The plasma is sufficiently hot to melt the metal being cut and moves sufficiently fast to blow molten metal away from the cut. Plasma is currently used at PORTS for cutting pipe and welds where reinstallation preparation will be needed.

Oxy-acetylene is a process that uses a cutting torch to heat metal to kindling temperature. A stream of oxygen is then trained on the metal. The metal burns in that oxygen and then flows out of the cut as an oxide slag. This process requires both fuel and oxygen tanks. It cuts at approximately the same speed as arc air, but tank change outs result in a lower effectiveness. Slag, gases, and fumes are also considerable. Historically, oxy-acetylene cutting has been used extensively in cutting operations at PORTS, although less often on process equipment.

Mechanical cutting is a process where machinery (e.g., circular or reciprocating saws) is used to cut out equipment. Localized heating is much less than with hot cutting. It is much slower than hot cutting, and the in-hand equipment is much heavier for manual cutting (mechanized setup and cutting is generally not feasible for gaseous diffusion equipment). Shards are minimal and gases and fumes are nonexistent. Mechanical cutting was used on the smaller K-25 equipment and piping in Oak Ridge, Tennessee, where limited equipment and piping were removed prior to demolition.

Plastic (3 to 7 mil thickness) and duct tape for capping of openings after cutting are most often used when contamination control is desired. There are minimal security concerns, and no structural strength is required for air or fill pressure on the opening. It is the most common method of capping currently employed at PORTS.

Sheet metal (14- to 18-gauge thickness) and two-part epoxy are used for capping when contamination control is required and some security concerns exist. Oftentimes, duct tape or clamps are used to allow setting of the epoxy. Generally, this process option is not applicable for grout or sand fill pressures on the openings, but it has been successfully used in sealing for foaming operations. This method was used at the K-25 D&D Project in Oak Ridge.

The addition of a plate (1/8 to 1/4-in. thickness) with tack or seam welds is used to provide contamination control, security, and/or fill pressure effectiveness. In some instances, clamps and/or gaskets can be substituted for the welds. Large diameter plates may also require stiffening beams to withstand fill pressures. This method is currently in use at PORTS for sealing of equipment for security requirements or for subsequent pressurization of equipment.

Some segmentation and subsequent mining may occur to comply with a numerical or safety-based WAC. Converters would be removed by cleared workers, capped with plastic and duct tape (sheet metal or plates may be required if uncleared movers are employed), and moved by cart to the decontamination area. In a secure facility, special carts are employed to cut loose and hold the inlet head and outlet head with the cooler assembly. Then the barrier bundle is extracted from the center shell and the transition is removed. The heads and shell are inspected to determine if holdup is present. If holdup is present (not considered likely), then the subassemblies are moved for mechanical or wet decontamination of holdup.

Compressors may have the compressor seals removed in the process buildings before compressor removal by cleared workers, any visible holdup is removed from the seal cavity, and the cavity is sealed with a special bolted plate or sheet metal around the shaft. In situ nondestructive assay (NDA) may then be conducted to determine if further material removal is still required. If necessary, the compressor is then removed from the cell by cleared workers, closed with plastic and duct tape, and removed from the process building onto a cart. Uncleared workers transport the compressor to the decontamination area. The inlet and discharge nozzles are removed, and the rotor and stator are removed from the compressor body. Visible holdup is removed by mechanical scraping or by wet decontamination.

G.3.2 SEGMENTATION SUBSIDENCE AVOIDANCE OPTIONS

The segmentation subsidence avoidance options are as follows:

Segmentation to a Small Size. This process option uses the cutting techniques discussed above to continue disassembly of the equipment to remove material sufficiently to meet the WAC of a disposal facility. In this process option, future potential WAC are met by reducing the size of the residual pieces of the equipment. In general, pieces of waste no larger than 4 ft in length are anticipated.

Shearing In Situ. Shearing is used to significantly avoid subsidence by cutting equipment and piping in the field. It also crushes the equipment together to some extent and achieves some further void reduction in this manner. Special equipment is required to shear process equipment of this size, and this can result in a technology limitation because of the size of tracked equipment that can be effectively used. Shear throat sizes of 18 to 24 in. are achievable, and designs that punch through equipment metal to allow cutting in the throat can be obtained. This process option was successfully used to shear smaller diameter process piping (up to 12-in. diameter), centrifugal compressors, and structural steel during demolition of the K-25 Building in Oak Ridge.

Compaction. Compaction is often coupled with an initial shear or segmentation to facilitate the process. This process option was successfully used by British Nuclear Fuel Limited (BNFL) in the processing and disposition of process equipment from the K-29, K-31, and K-33 buildings in Oak Ridge. Compaction opening size (throat) and high efficiency particulate air (HEPA) filtration are factors affecting cost and operations, as well as the need for separate compactors if classified components are to be processed. Delivery of the subassemblies or sectioned subassemblies to the compactors requires additional movement equipment (carts, conveyors, or wheeled handling equipment). Compacted materials require transfer to conveyances, depending on the requirements of the disposal path, perhaps requiring additional movement equipment. Most of these conveyances become weight-limited rather than volume-limited for transportation. Not all equipment or subassemblies benefit from compaction.

Shredding. Equipment subassemblies could be fed to commercial shredders specially modified to handle radioactive materials by the addition of HEPA filters and ductwork to control airborne contamination. Equipment cost is primarily a factor of shredder opening size (throat) and power (metal types and thicknesses). Larger throat sizes require higher capacity HEPA filtration, so there is a tradeoff between shredder size and the need to further segment subassemblies, although perhaps not to the extent for waste packaging/void avoidance. Security concerns may also require a minimum of two shredders to process the classified waste separately from the remainder of the process equipment. Delivery of the subassemblies or sectioned subassemblies to the shredders requires additional movement equipment (e.g., carts, conveyors, or wheeled handling equipment). Shredded materials are collected in hoppers and require transfer to conveyances, depending on the requirements of the disposal path. Not all subassemblies benefit from shredding. Curved steel plate may actually result in fewer voids than shredded plate. Cooler and barrier tube shredding would reduce the voids for these subcomponents. Although separated from the equipment, they meet the future potential WAC of the disposal facilities because of their small diameters.

Melting. This process option eliminates voids in the equipment and produces ingots that are volumetrically contaminated. As with the other process options, melters require some additional segmentation of subassemblies so they can be placed in the melter. At the melter, special handling equipment is necessary to load and unload them. Slag (more highly contaminated) is either added to the melted material or segregated as a separate waste stream. After cooling, the ingots are placed into conveyances, depending on the requirements of the disposal path. Most of these conveyances would become weight-limited rather than volume-limited for transportation.

G.3.3 SUBSIDENCE AVOIDANCE WITHOUT SEGMENTATION AND SIZE REDUCTION (VOID FILLING)

Subsidence avoidance without segmentation or size reduction occurs through the introduction of inert materials of sufficient strength to withstand disposal facility waste and cap pressures after the process equipment external shell has degraded (oxidized) to the point that structural integrity is lost. The amount of necessary subsidence avoidance is a function of the design and future WAC at the disposal facility. This is still indeterminate for any potential OSDC. Using the component weights and volumes in Table G.2 and assuming all materials are the density of steel, rough total void fractions are provided in Table G.3. If needed, these void fractions will be refined with more accurate weight and volume determinations, based on materials of construction in the D&D design phase. However, for now, they are conservatively suitable for process option discussions concerning subsidence avoidance.

Three media are considered for void-filling of the PORTS process equipment, low-density grout, dry sand, or high-strength foam. Of the three, only the foam option is considered feasible for all of the equipment at a location remote from the disposal facility because of the weight gains associated with the other process options. Introduction of sand and grout is assumed to occur at a potential OSDC. The three media and their use are described in the following paragraphs:

High-density Foam. High-density foam such as isocyanate foams can be used to fill the voids in the process equipment. These foams are injected as two relatively nonviscous liquids that rapidly react and expand into a hard, solid matrix that has a density of approximately 135 lb/cy. Foaming requires commercial foam injection equipment, and injection occurs in nominally 2-ft lifts to allow the material below to react and harden. The injection equipment is portable, and hoses with mixing guns are used to inject the foam. The liquids are generally supplied in drums or slightly larger totes, which are delivered by truck or forklift. As with the grout (and sand), the same numbers of holes or ports are used for introduction, the viscosity prevents some voids from being reached (although the expansion does assist), the converter security requirements remain, and contamination control with HEPA is likewise needed.

Foaming at the point of generation is a possibility because of the relatively low weight density, the equipment required, and the method of introduction. During the K-25 Building D&D, it was successfully used in the cell enclosures for void reduction in Size 3 and 4 converters (nominally the size of the X-326 converters). Two sub-options are foaming after cutting and capping the process equipment and foaming before cutting and capping. Because of combustibility, foaming cannot be used where hot cutting techniques are employed. Therefore, if foaming occurs before cutting the equipment, piping is foamed also and mechanical cutting becomes the only alternative for removal. Foaming also has nuclear safety analysis ramifications. If a building fire is a credible nuclear accident scenario, one of the foam components is combustible, and this could cause a limit to the amount of foam inventory allowed in the facility. The operations and equipment may also be subject to nuclear safety controls dictated by the analysis.

Sand. Sand may be used from the top to fill the voids in the process equipment. Dry sand has a nominal density of 2,700 lb/cy and flows into a relatively compact form that does not compress or settle significantly. In order to introduce the sand, all openings in the process equipment must be capped with plates capable of withstanding static pressure from the sand during curing, which can be several hundred pounds per square foot of opening. This generally requires the welding-on of steel plates, or they can be tack-welded or clamped with compressed gaskets. This is assumed to occur during equipment removal from the process buildings. Three types of sand introduction are possible, gravity pour, augered, or pumped. This requires openings or ports on the top (or side near the top) of the equipment at each location where the equipment is sectioned off by the internal components. The sand introduction phase may require some method of contamination control to prevent airborne contamination from exiting the opening and contaminating the equipment or personnel. Generally, this is provided by localized portable HEPA systems. Security controls and cleared workers are also required when accessing a converter for the introduction of sand. Sand may be added at a disposal facility transfer area, at the disposal area face, or inside the disposal area. Each of these options is feasible, but adding sand outside of the disposal area requires heavy duty carts and cranes or other heavy lifting equipment to place the equipment. Sand filling is expected to be slower than grout introduction, and it is not expected to fill as much void space as grout. Dry sand does pose a storage problem prior to use, and silica can be a worker health hazard. An alternative to sand introduction at the potential OSDC could be preparation of the equipment so sand or compact gravel could be placed in its voids after placement of the equipment in the disposal facility. While this is not a viable process option for converters or centrifugal compressors, it could be employed by placing axial compressors with their nozzles in the vertical position, filling around the body, and then filling the nozzles with sand or gravel that will self-compact. A similar technique may be applicable to some models of the recycle coolers.

Low-Density Grout. Grout with a sufficient compressive strength to meet future potential WAC requirements could be introduced into the tops of the process equipment to fill voids. Generally, grout densities of 500 to 3,000 lb/cy can be formulated to provide strengths equal to or greatly exceeding 50 lb/sq ft. Robust opening caps are needed, as with sand, and the security concerns and need for cleared workers remain. The methods of movement or introduction at the disposal facility remain as with the sand. Once again, HEPA ventilation for contamination control may be required. Mixtures with low viscosity can be produced to maximize infiltration of voids. Grout could be mixed at PORTS or purchased for delivery. On-PORTS mixture requires materials storage, expertise in mixing equipment and technology, procedures, and quality assurance programs. Grout filling has been successfully used for some equipment (e.g., centrifuge casings) at the Environmental Management Waste Management Facility in Oak Ridge.

G.3.4 SUBSIDENCE AVOIDANCE THROUGH CORROSION INHIBITION

The design of the process equipment is expected to be able to withstand the soil pressures of the disposal facility without significant deflection or subsidence, although this will have to be technically verified.

The process equipment exterior surfaces are mild steel and will be subject to oxidation corrosion and slow structural degradation, eventually resulting in deflection and subsidence. If this corrosion could be arrested for the life of the disposal facility, then subsidence of the cap could be avoided. Based on highway structure designs and testing, two methods of significantly arresting mild steel corrosion is immersion in concrete rubble or application of noncorrosive protective coverings to the steel. These two process options are described as follows:

Surround with Concrete Fill. This process option can be performed if a supply of concrete fill is available during placement of the process equipment. Depending on how the equipment is placed in the disposal facility, approximately 100,000 to 150,000 cy of concrete fill would be necessary to surround the 219,000 cy of process equipment (assuming all placed without void reduction). Placement would begin with a lift of concrete fill; then placement of the process equipment; then buildup around the equipment with concrete fill, eventually filling up, over, and between the equipment with concrete; and finally a compacted lift of concrete fill above the equipment so another layer of equipment could be placed.

Corrosion-Resistant Exterior Fixatives. Fixatives similar to those used in highway structure designs could be applied to the exterior of the process equipment, forming an impervious barrier to moisture and oxidation of the steel. Application would be by brush or spray, depending on the thickness of application. Normal waste fill or procured fill could then be placed around and between the equipment as with the previously discussed concrete fill.

G.4. PROCESS OPTION EVALUATION DISCUSSION

The following discussion evaluates the effectiveness, implementability, and cost of the various subsidence avoidance process options. Effectiveness evaluates the capability of the process option to reduce disposal facility subsidence through elimination of void from the process equipment, reducing the void in intact equipment by filling it to the extent reasonable with a material that can withstand disposal facility fill pressures, or protecting the equipment from oxidation and subsequent structural degradation. Implementability addresses maturity and acceptability of the processes in comparison to current equipment, facilities, and resource experience. It highlights any significant implementation challenges or schedule impacts. It also addresses the impact of the process option on the size of the disposal facility. Health and safety issues are also discussed under implementability.

The cost evaluation presents capital costs of the entire process equipment removal, treatment, and transportation effort for on-Site disposal, including the cost of the subsidence avoidance process option. Disposal costs assuming on-Site disposition are included. The cost estimates are used only for technology screening and are not used in the detailed analysis of alternatives. More detailed estimates are used at that phase of the project. The first cost estimate on segmentation is considered the baseline case, and it assumes removal and size reduction of the X-330 and X-333 converters and compressors. Estimates from other studies have been used as available, either directly or parametrically, for the changes to each estimate brought about by differing subsidence avoidance process options. If no existing estimates exist, then an estimate has been formulated and the basis of the estimate is documented.

G.4.1 SEGMENTATION TO SMALL SIZE

Segmentation Effectiveness – Good. Disassembly and cutting up of the process equipment renders the equipment very similar to the size reduced steel waste from building demolition (e.g., structural steel, nonprocess piping) and allows it to be dumped and placed in a manner similar to that of the building waste in a potential OSDC. As with building waste, it allows mixing at the disposal point with either soil,

soil-like waste (e.g., rubblized concrete, roofing materials), or fill to meet landfill requirements. Similar to other building waste, there would be short lengths of intact tubing and curved steel surfaces that might cause localized voids (depending upon final orientation), but these would be dispersed through the disposal facility with the other waste. Thus, differential subsidence because of localized large voids would not occur.

Segmentation Implementability – Good. Existing equipment, procedures, and resources have been used to perform very similar work at PORTS in the recent past during pre-D&D activities in the X-705, X-700, and X-720 buildings. These existing buildings, and the existing processes and equipment they contain, are considered viable for executing this process option and likely represent the process option with the least impact to starting work. This process option is planned to be used to remove material from the interior of process equipment to meet the numerical WAC of any disposal facility, or to meet transportation limits for off-Site transport. Thus, this process option is expected to be implemented for some of the process equipment without respect for subsidence avoidance. It does allow segregation and reduction of classified materials, reducing the impact and size of this unique waste stream.

Segmenting the equipment is expected to reduce the total volume of process equipment waste in the cell from approximately 219,000 cy (the equipment volume for X-330 and X-333 converters and compressors) to approximately 60,000 to 70,000 cy, or perhaps less (i.e., about a 12 percent reduction in total waste volume for D&D). The 219,000 cy excludes the intact X-326 converters and compressors.

The major issue with segmenting the process gas equipment is that the removal, moving, and processing of all the equipment (piece-by-piece) is very labor-intensive and slow. It may impact the overall D&D schedule (likely it would be critical path to process building D&D startup). The size of the equipment and a significant contamination exposure potential for workers during removal and size reduction all contribute to potential safety issues for the workers. Processing the equipment requires double handling (movement and lifting) of the equipment and causes significant security concerns in dismantling and handling the classified components in the equipment. Staging areas would be required for classified and unclassified equipment and processed waste containers. Depending on the final sizing of the waste, new fixtures, containment systems, and movement equipment may need to be designed and fabricated.

Segmentation Cost. The costs for this process option are reasonably well understood, given that it has been estimated using the methods used for estimating the FS alternatives. The major costs of the segmentation-to-small-size process option are as follows:

1. Removal (X-330 and X-333 equipment)	$38.0 million
2. Movement (X-330 and X-333 equipment)	$5.7 million
3. Disassembly and segmentation systems (X-330 and X-333 equipment) capital and operating cost	$123.5 million
4. Disposal facility capital and operating cost (including trucking) for 66,000 cy	$59.7 million
Total Capital Costs	**$226.8 million**

G.4.2 SHEARING IN PLACE

Shearing Effectiveness – Good. Shearing is applicable only to compressors after the seals are removed. Converters cannot be sheared at the demolition location because of classification issues, and they must be processed using one of the other process options (assumed for this analysis to be disassembly and segmentation). Shearing with machine-mounted equipment during demolition results in metal waste for disposal that is similar to the size-reduced structural steel of the buildings. This process option is somewhat superior because curved surfaces can be flattened and metals generally can be bent into more compact or conforming shapes, depending on the amount of processing in the field.

Shearing Implementability – Excellent. Shearing of the compressors involves a much less labor-intensive approach than segmentation and the process options discussed below because of its dependence on heavy equipment. Shearing of the process equipment would use essentially the same mobile heavy equipment and shears used to process structural steel and would let the majority of the size-reduced process equipment be mixed with the building waste for shipment. This process option could reduce the labor and time (perhaps significantly) for cutting and removing the compressors from the field because it could occur during building demolition and use the same equipment. This could result in an earlier start of building demolition because process equipment removal and processing is expected to be the critical schedule driver of process building D&D. Shearing has a significant safety benefit. It removes many workers from the safety risks of cutting, moving, and segmenting the compressors. This process option would not be applicable to converters from X-330 and X-333. Because of security concerns, they would have to be segmented into disposable waste without the benefit of field shearing.

Implementing this process option during demolition would result in compressors being pulled down from the elevated cell floor along with all of the process piping and nonprocess equipment, piping, and structural steel. The primary concern is loss of contamination control and the potential spread of contamination through the storm drain system or dust migration. Commingling of these wastes is not expected to affect waste disposal, as both the process equipment and the structures are currently expected to be treated as LLW. Whether the process equipment is present or not, dust suppression techniques would be employed during demolition. Shearing of process equipment on the demolition location does increase the risk of contaminant migration to storm water. This technique was used during the K-25 Building west wing demolition, but with equipment foamed for contamination control and controlled shearing of process equipment. Also, storm water retention and storm grate filtration were employed for both particulate and contaminant control, although building radioactivity was not detected in either the storm water or the storm grates. No violations of storm water management requirements occurred because of radionuclide transport. There were pH violations resulting from incorrect gravel placement. This is attributed in part to the large amount of concrete from the structure, which tended to immobilize any radioactive contamination flowing from the demolition area in surface waters.

In order to implement this process option, a fixative to immobilize the majority of residual internal contamination in the compressors is conservatively assumed to be necessary. Contamination fixation technologies such as CCFix® or CCWet® could be employed to spray accessible sections of the compressors after cutting from the process piping. Application techniques would have to be developed, but at present, it is assumed that the number of cuts could be reduced from the amount needed during implementation of the segmentation process options. Additional access holes for the compressors would be necessary to allow the maximum feasible coverage inside the equipment.

Shearing of the compressors (with segmentation for the converters) is expected to reduce the total volume of process equipment waste in the cell from approximately 219,000 cy (as is equipment volume) to approximately 60,000 to 70,000 cy, or perhaps less, waste truck volume (i.e., about a 12 percent reduction of total waste volume for D&D). For this analysis, it was assumed that the compressors would be sheared to the same extent that converters are segmented in the segmentation shop (a volume reduction factor of 3.3).

Shearing in place at PORTS is a new process option, at least for the large process equipment D&D, which would require specialty fabrication of shearing fixtures, equipment operations training, readiness evaluation, and new procedures for safety and quality documentation.

Shearing Cost. Costs for this process option are based on shearing efforts implemented with the building structure demolition shearing (with a percentage increase to the average for the heavier work). This process option is considered to be well developed, consisting of techniques used in other contaminated D&D projects throughout the country. The major costs of shearing in place of compressors and using segmentation for removed converters are as follows:

1. Removal (X-330 and X-333 converters) and fixing with CCFix® (X-330 and X-333 compressors)	$41.1 million
2. Movement (X-330 and X-333 converters)	$4.0 million
3. Disassembly and segmentation systems (X-330 and X-333 converters) capital and operating cost	$90.5 million
4. Shearing of X-330 and X-333 compressors in place	$8.5 million
5. Disposal facility capital and operating costs, including trucking for 66,000 cy	$59.7 million
Total Capital Costs	**$203.7 million**

G.4.3 COMPACTION

Compaction Effectiveness – Very Good, Slightly Superior to Segmentation. Compaction starts with the same process of disassembly and segmentation as the baseline process option, but only segments to the point the waste can fit into the compactor(s). This process option is superior because curved surfaces are flattened, tubing is flattened or crushed, and metals are generally bent into more compact or conforming shapes. Compaction was successfully used on the K-31 and K-33 equipment removal project in Oak Ridge.

One uncertainty is the loss of compaction during placement in the disposal facility. Crushed groupings of metal may separate to some extent, depending on the equipment used to place the waste in the disposal facility (e.g., bulldozers). Also, tightly packed groupings may affect the ability to surround them with soil-like waste or fill. This could be exacerbated if bulldozer placement of waste is used, less so with front end loader placement. But if this process option is extensively used, then the suspected subsidence avoidance is expected to be quite uniform and significantly less than placement of whole equipment.

Compaction Implementability – Fair. This process option relies significantly on the disassembly and segmentation process option for implementation. It has one process advantage. Depending on the compactor design, it could somewhat reduce the segmentation effort (although not disassembly). A compactor design with shearing capabilities, similar to the one used in the BNFL process, would reduce hot work cutting. Compaction does introduce an additional handling process to move the disassembled and partially segmented materials to the compaction operation.

This process option would not be applicable to converter bundles from X-330 and X-333. They would have to be segmented to disposable waste without benefit of compaction because of security concerns.

Use of compaction is expected to reduce the total volume of process equipment waste in the cell from approximately 219,000 cy (as is equipment volume) to approximately 40,000 to 50,000 cy, or perhaps less (i.e., about a 13 percent reduction of total waste volume for D&D).

Compaction is a new process option at PORTS, requiring design, fabrication, construction, testing and checkout, training, and readiness evaluation. New procedures, safety documents, and quality documents would have to be written. Safety risks would change and may actually improve, based on the BNFL success with compaction, over complete hot work segmentation of the equipment. There may be significant schedule delays for construction of the compactor and when the compactor is not operational.

Compaction Cost. Costs for compaction are reasonably well understood; components of which have been estimated by DOE in Critical Decision-1 for budgetary as well as regulatory purposes. The major costs of compaction with some segmentation are as follows:

1. Removal (X-330 and X-333 equipment)	$38.0 million
2. Movement (X-330 and X-333 equipment)	$5.7 million
3 Disassembly and segmentation systems (X-330 and X-333 equipment) capital and operating cost, including full size reduction of converter bundles	$120.1 million
4. Compaction capital and operating cost (including movement)	$15.3 million
5. Disposal facility capital and operating costs (including trucking) for 45,000 cy	$40.7 million
Total Capital Costs	**$219.7 million**

G.4.4 SHREDDING

Shredding Effectiveness – Very Good, Slightly Superior to Segmentation and Compaction. This process option is beneficial because large metal components are reduced to shards of metal that can be placed in a landfill, easily mixed with soil-like waste or fill, and compacted. The expected subsidence is expected to be quite uniform and significantly less than for placement of whole equipment.

The only detriment to the effectiveness of this process option is that the large plate steel in the equipment may actually increase in volume from the previous two process options. The significance of this increase is dependent on the shredded shard shape and size. Partial segmentation of the equipment is still needed prior to feeding the waste into the shredder.

Shredding Implementability – Fair. Shredding relies significantly on disassembly and segmentation, but only to the extent required to access the shredder(s). Shredding could, depending on the shredder design, somewhat reduce the segmentation effort (although not disassembly). The shredder throat size would be crucial in determining the extent of segmentation required. This study assumes that some additional segmentation beyond that required for direct disposal is required for shredding.

This process option could be applicable to process converter bundles from X-330 and X-333. A smaller dedicated unit could be employed to shred partially segmented bundles and barrier to disposable waste. The shredding and landfill placement of this waste would require security controls (e.g., controlled processing area, sacrificial containers or supersacks, cleared workers).

As with compaction, shredding is expected to reduce the total volume of process equipment waste in the cell from approximately 219,000 cy (as is equipment volume) to approximately 30,000 to 40,000 cy, or perhaps less (i.e., about a 14 percent reduction of total waste volume for D&D).

Equipment shredding at PORTS is a new process option, requiring design, fabrication, construction, testing and checkout, training, and readiness evaluation. New procedures, safety documents, and quality documents would have to be written. Safety risks would change and are uncertain because of the additional handling and process steps that shredding would add. As with compaction, there is a potential for schedule delays resulting from design and construction of the facility and potential facility or equipment failure.

Shredding Cost. Costs for shredding are reasonably well understood. The capital and operating costs of the shredding operation have been evaluated as a recycling process option. The major costs of the shredding process option are as follows:

1. Removal (X-330 and X-333 equipment)	$38.0 million
2. Movement (X-330 and X-333 equipment)	$5.7 million
3. Disassembly and segmentation systems (X-330 and X-333 equipment) capital and operating cost	$126.9 million
4. Shredding capital and operating cost (including converter bundles)	$24.6 million
5. Disposal facility capital and operating cost (including trucking) for 35,000 cy	$31.6 million
Total Capital Costs	**$226.8 million**

G.4.5 MELTING

Melting Effectiveness – Excellent, Superior to Segmentation, Compaction, and Shredding. This process option is beneficial because large metal components are reduced to ingots that can be placed in a landfill, easily surrounded with soil-like waste or fill, and compacted. The expected subsidence avoidance is the ultimate that is achievable and significantly less than for placement of whole equipment. As with compaction and shredding, partial segmentation is needed prior to waste entering the melter.

Melting Implementability – Fair. Melting relies significantly on disassembly and segmentation and requires a significant new process option never utilized at PORTS. It starts with the same process of disassembly and segmentation as the baseline process option, but stops the segmentation at a point that depends on the size and capabilities of the melter(s) employed. As with the shredding, it is currently assumed that segmentation for melting would result in more cutting than the direct disposal alternative. The melter capacity/entrance size would be crucial in determining the extent of segmentation required.

This process option could be applicable to process converter bundles from X-330 and X-333 with the addition of security controls. A smaller dedicated unit could be employed to melt partially segmented bundles and barrier to disposable waste that has little or no security requirements.

Melting is expected to reduce the total volume of process equipment waste in the cell from approximately 219,000 cy (as is equipment volume) to approximately 10,000 to 20,000 cy (i.e., about a 16 percent reduction of total waste volume for D&D).

Equipment melting at PORTS is a new process option requiring design, fabrication, construction, testing and checkout, training, and readiness evaluation. New procedures, safety documents, and quality documents would be needed. Safety risks would change, but they are uncertain at this time because of the uniqueness of the process option and the additional handling and processing steps that melting would add. Depending on the design and operation of the melter(s), there is a risk of total or partial outages from unforeseen events. The risk of equipment failure is considered highest for this process option. Schedule risks and delays are also the highest for this process option because melter design and construction are anticipated to take several years.

Melting Cost. Costs for this process option are less certain, given the relatively new technology. The capital and operating cost of the melting operation has been evaluated as a recycling process option and has been reviewed. Specifically, the vacuum induction melting process option was used as a basis for a cost estimate. The major costs of the melting process option are as follows:

1. Removal (X-330 and X-333 equipment)	$38.0 million
2. Movement (X-330 and X-333 equipment)	$5.7 million
3. Disassembly and segmentation systems (X-330 and X-333 equipment) capital and operating cost	$130.4 million
4. Melting capital and operating cost (including converter bundles)	$325.1 million
5. Disposal facility capital and operating cost (including trucking) for 15,000 cy	$13.6 million
Total Capital Costs	**$512.7 million**

G.4.6 FOAMING

Foaming Effectiveness – Good. This process has the same effectiveness as grouting and is more effective than sand because of flowability. Foam is used by the K-25 D&D Project in Oak Ridge. Historically, it has effectively filled most of the void spaces in their process equipment, at least to the level required to meet a future potential WAC of the disposal facility. The foam does not appreciably enter the barrier and cooler tubes, and it does not reduce the process equipment volume in the disposal facility.

Foaming Implementability – Good. Foam is introduced after hot cutting of the process equipment to remove it from the building. Introducing foam before cutting would require mechanical cutting of the large process equipment to avoid a fire, but this is not considered to be feasible for the large equipment.

This process option has one advantage. It could allow compressor (but not converter) shearing during demolition, providing contamination control and allowing loading and movement with the other sheared building waste. Foam can also be introduced at the process buildings, which would avoid filling at the disposal facility. Lighter plates (or even sheet metal) could be used to seal the equipment after foaming, thus avoiding the heavier plates and attachment methods used with grouting and sand.

Foaming does not reduce the total in situ process equipment volume (219,000 cy) destined for the disposal facility.

Foaming Cost. Foam has some very significant material costs, although the capital cost of application equipment is considerably less than those for other process options. Costing for this process option assumes hot cutting of the equipment first. The costs also assume movement of the equipment to the disposal facility for burial without any further processing. The costs are as follows:

1. Cutting and removal and installation of plates, and foam injection and vent ports		$51.5 million
2. Foam in situ capital and operating cost		$145.2 million
3. Disposal facility capital and operating cost (including trucking) for 219,000 cy		$200.0 million
	Total Capital Costs	**$396.7 million**

G.4.7 SAND

Sand Effectiveness – Good. The introduction of dry, pourable, sand-like materials of sufficient structural strength into the equipment at the disposal cell would lessen subsidence upon equipment degradation and steel collapse. This process option, however, does nothing to reduce the overall process equipment volume placed in the disposal facility.

Sand Implementability – Good. The introduction of sand can occur during normal disposal facility operations, avoiding or minimizing additional moves for processing. The sand would be introduced at the disposal location because the weight of a sand-filled piece of equipment would make transport difficult. Sand filling is not as labor-intensive as the segmentation process options. It is applicable for both converters and compressors.

This process option has not been implemented during any DOE D&D activities, mainly because grouting process options have been considered to be superior because of flowability and weather considerations. Sand does require the installation of heavier plates to seal the equipment from the pressures of the sand. In addition, introduction of the sand requires the cutting of access ports in the equipment. Vent ports are also required, and contamination control filters must be attached. The sand needs to be kept dry, and implementing this process option would require covered storage areas and potentially dry weather operations only.

Placement of the equipment in the disposal facility could require additional equipment, depending on the location of the sand introduction. After placement, special efforts to fill and compact around the equipment would be necessary.

Sand Cost. Filling with sand has some significant material costs, but comparatively little capital cost for processing equipment. Costing for this process option assumes plates, pouring holes, and vent holes are installed during equipment removal. Placement would involve crane movement for the equipment. The costs are as follows:

1. Removal and installation of plates, and pouring and vent holes		$51.9 million
2. Sand capital and operating cost		$31.1 million
3. Disposal facility capital and operating cost (including trucking) for 219,000 cy		$200.2 million
	Total Capital Costs	**$283.2 million**

G.4.8 GROUTING

Grouting Effectiveness – Good. Introduction of grout materials with sufficient structural strength into the process equipment at the disposal cell would prevent subsidence indefinitely. This process option, however, does nothing to reduce the overall process equipment volume placed in the disposal facility.

Grouting Implementability – Very Good. Grouting can be implemented during normal disposal facility operations, and it could avoid or minimize additional equipment movement for processing. Grouting is not as labor-intensive as the segmentation process options. It is applicable to both converters and compressors.

Grouting does require the installation of heavier plates to seal the equipment from the pressures of the grout. Also, introduction of the grout requires the cutting of access ports in the equipment. Vent ports are also required, and contamination control filters must be attached. Cold weather grouting requires additional curing measures to assure solidification.

Placement of the equipment in the disposal facility could require additional equipment, depending on the location of the grouting. After placement, special efforts to fill and compact around the equipment would be necessary. Grouting operations at the disposal facility would also be somewhat weather dependent because grouting would cease during rain or snow events.

Grouting Costs. Grouting has some significant material costs, but comparatively little capital cost for processing equipment. Costing for this process option assumes plates, cutting of injection and vent holes during equipment removal, and grout injection (as opposed to gravity flow). Placement would involve crane movement for all equipment. The costs are as follows:

1. Removal, including installation of plates, injection ports, and vent ports	$51.9 million
2. Grouting capital and operating cost	$35.3 million
3. Disposal facility capital and operating cost (including trucking) for 219,000 cy	$200.0 million
Total Capital Costs	**$287.2 million**

G.4.9 SURROUND WITH CONCRETE FILL

Surround with Concrete Fill Effectiveness – Fair. The effectiveness of surrounding the process equipment with concrete fill is based on verification of two factors: (1) the ability of concrete fill to inhibit corrosion of the external steel surfaces for the design life of the disposal facility cap, and (2) the strength of the unfilled process equipment to withstand the structural pressures of the disposal facility. Surrounding with concrete does not reduce the total in situ process equipment and piping volume (219,000 cy) destined for the disposal facility.

Research shows that corrosion inhibition of concrete for oxidation of steel is significantly slower than for soils. If this slower reaction is more than a factor of 4 to 6, then it is possible for the process equipment encased in concrete fill to survive without rusting away and collapsing for the design life of the disposal facility cap.

Although the equipment strength would have to be confirmed with calculations, the cylindrical shapes of the major equipment are sufficiently similar to those of large corrugated piping (21 ft in diameter) tested at significant burial depths (up to 75 ft), which showed that the piping could potentially support the soil pressure with minimal deflection (< 5 percent) (Ohio Department of Transportation [ODOT] 2004).

Surround with Concrete Implementability – Fair. This process option's implementability is dependent upon a ready source of concrete fill, such as the concrete rubble from the process building floors and slabs. This presents a logistics problem because the process equipment would be available for burial and require staging in the process buildings well before the concrete is rubblized, at least for the first process building demolished. Concrete rubble from other demolished buildings could be used, but it would likely be deficient in quantity (nominally 10,000 - 25,000 cy would be required initially). It would also require a segregation effort to extract the concrete rubble from other D&D waste.

If available, this process option offers a direct equipment placement technique that avoids all specific processing and movements other than the initial logistics of obtaining sufficient concrete fill for placement around the equipment.

Surround with Concrete Costs. This process option has the second lowest capital and operating costs of all of the process options, assuming concrete fill is available. The costs are as follows:

1. Removal	$47.7 million
2. Concrete rubblization	$31.3 million
3. Disposal facility capital and operating cost (including trucking) for 219,000 cy	$200.0 million
Total Capital Costs	**$279.0 million**

G.4.10 CORROSION-INHIBITING EXTERNAL FIXATIVE

Corrosion Fixative Effectiveness – Fair. This process option's effectiveness is fair, provided the fixative can withstand the burial process, and has a design life that is a significant fraction of the cap design life. As with the previously discussed concrete-fill process option, the ability of the unfilled process equipment to withstand the structural pressures of the disposal facility is a necessary element of its effectiveness. There is no reduction in volume of the process equipment with this option. External fixatives have not been used by DOE as a method of corrosion inhibition in disposal facilities.

Corrosion Fixative Implementability – Very Good. Fixatives would be easy to implement if effective spray technologies can be developed. Such technologies must provide sufficient coverage and thickness to ensure the corrosion inhibitor would not degrade within the design life of the disposal facility. If viable as a spray, the optimum method for implementing this process option would be spraying in place prior to removal, spraying at a local spraying station in the process buildings before movement to a disposal facility, or spraying at the disposal facility prior to placement. If the inhibitor requires more aggressive application (surface preparation, dipping, two-part application), then these methods would require development, and the equipment may have to be moved to a processing area similar to the one for the segmentation process options.

Corrosion Fixative Costs. The costs are somewhat uncertain and are dependent on design requirements such as containment and method of application. It is assumed for this study that surface preparation is not required and that spray gun application is possible. Curing times are assumed to be several hours, allowing application in an assembly line method. This approach would be best performed in place inside the cell enclosures just before cutting and capping for removal, or immediately afterwards. The costs are as follows:

1. Removal	$38.0 million
2. Fixative application capital and operating costs	$19.9 million
3. Disposal facility capital and operating cost (including trucking) for 219,000 cy	$200.0 million
Total Capital Costs	**$257.8 million**

Table G.4 provides an evaluation summary for the previously discussed subsidence avoidance process options.

Table G.4. Summary of the Subsidence Avoidance Process Option Evaluation for PORTS

Void Reduction Process Option	Effectiveness	Implementability	Capital Cost
Segmentation to small size	Pro – Waste would be similar to construction debris; eliminates large majority of void Con – Tubing would be intact for short lengths; would be many curved surfaces that do not nest well in packages or landfill Good effectiveness	Pro – Currently in use; facilitates material removal if necessary; allows segregation of classified materials; achieves ability to cover disposal lifts; reduces process equipment volume in disposal facility from 219,000 cy to 60-70,000 cy Con – Extensive labor; hot cutting is a safety risk; double handling; processing classified equipment is a security risk; requires some new fixtures Good Implementability	Pro – Existing space and equipment; support and documentation largely in place; people are trained Con – Removal and segmentation are both labor-intensive $227 million
Shearing In Place	Pro – Would be demolition waste; eliminates large majority of void Con – Not applicable to converters Good effectiveness	Pro – Same equipment as used to shear structural steel in field; waste shipped with other building waste; significantly reduces pre-demolition equipment removal and segmentation. Improved safety. Reduces process equipment volume to 60-70,000 cy Con – Contamination would spread if not fixed/foamed Excellent Implementability	Pro – Avoids removal, movement, and segmentation (but not cutting) of all equipment and piping except converters Con – Increases demolition equipment and labor costs; adds capital and labor cost of fixation equipment; still requires segmentation of converters $204 million

Table G.4. Summary of the Subsidence Avoidance Process Option Evaluation for PORTS (Continued)

Void Reduction Process Option	Effectiveness	Implementability	Capital Cost
Compaction	Pro – Eliminates large majority of void; would crush tubing Con – Requires partial segmentation to enter compactor throat; curved heavy metal plate may not compact totally, leaving void Very good effectiveness	Pro – Same as segmentation; less hot cutting required Con – Same as segmentation but less cutting required; converter bundles must be handled separately; compaction is new operation, has new safety concerns, and is single point constraint if not operating; facility construction; 12 to 18 months to operation start Fair Implementability	Pro – Reduces segmentation to disassembly and segmentation to fit compactor; reduces disposal facility size and placement cost slightly from segmentation process option Con – Not viable for converters; double handling; construction and operating cost of compactor $220 million
Shredding	Pro – Eliminates large majority of void; good uniform waste matrix; mixes easily with fill Con – Requires partial segmentation to enter shredder throat; expands volume of plate steel walls Very good effectiveness	Pro – Same as compaction Con – Same as compaction Fair implementability	Pro – Reduces disposal facility size and placement cost slightly from segmentation process option Con – Increases amount of segmentation slightly; double handling; construction and operating cost of shredder $227 million
Melting	Pro – Eliminates all void Con – Requires partial segmentation to enter melter Excellent effectiveness	Pro – Same as compaction; eliminates classification constraints with processed waste Con – Same as compaction but greater safety issues; 2 to 4 years to operation start Fair implementability	Pro – Reduces disposal facility size and placement cost considerably from segmentation process option Con – Increases segmentation cost slightly to fit melter; double handling; construction and operating cost of melter $513 million

Table G.4. Summary of the Subsidence Avoidance Process Option Evaluation for PORTS (Continued)

Void Reduction Process Option	Effectiveness	Implementability	Capital Cost
Foaming	Pro – Fills large majority of void Con – Does not appreciably enter tubes; fills void, does not eliminate it Good effectiveness	Pro – Allows pipe shearing during demolition; provides effective contamination control; avoids classified segmentation; avoids all movement and effort of other processes Con – Must foam after cutting; additional equipment movement during demolition; requires equipment placement and filling around in disposal facility; would not apply to surge drums (continue to segment) Good implementability	Pro – Avoids all equipment removal (but not cutting) and segmentation except surge tanks; avoids equipment movement to processing Con – Requires additional foam holes in equipment; adds capital, material, and operating cost of foaming $397 million
Sand	Pro – Fills majority of voids Con – Does not appreciably enter tubes; requires filling at or near disposal facility; fills void, does not eliminate it Good effectiveness	Pro – Potentially single move to disposal; equipment preparation minimal; not labor-intensive; avoids classified segmentation; sand operations can be constructed during disposal facility construction Con – Requires placement and filling around in disposal facility; material must be kept dry; material takes up disposal cell space; not as effective as grout in reducing voids; would not apply to surge drums (continue to segment) Good implementability	Pro – Avoid segmentation costs for most of the equipment; avoid movement to segmentation Con –adds capital, material, and operating cost of sand filling $283 million
Grouting	Pro – Fills majority of void; provides long term structural stability Con – Same as sand Good effectiveness	Pro – Same as sand Con – Requires placement and filling around in disposal facility; material takes up disposal cell space; cold weather grouting requires additional curing measures; would not apply to surge drums (continue to segment) Very good implementability	Pro – Same as sand Con – adds capital, material, and operating cost of grouting $287 million

Table G.4. Summary of the Subsidence Avoidance Process Option Evaluation for PORTS (Continued)

Void Reduction Process Option	Effectiveness	Implementability	Capital Cost
Surround with Concrete Fill	Pro – Protects against subsidence Con – Corrosion inhibition for design life not technically proven; does not eliminate void Fair effectiveness	Pro – Eliminates need for additional move and segmentation; provides use for concrete fill waste; avoids classified segmentation Con – Introduces logistics of managing concrete; requires placement and fill in disposal facility; likely not logical for surge drums Fair implementability	Pro – Avoids all equipment removal (but not cutting) and segmentation except surge tanks; avoids equipment movement to processing Con – Requires special processing of concrete beyond that for normal demolition $280 million
Corrosion-inhibiting external fixative	Pro – Protects against subsidence Con – Corrosion inhibition for design life not technically proven; does not eliminate void Fair effectiveness	Pro – Eliminates need for additional move and segmentation; avoids classified segmentation Con – Introduces external fixation process before removal; requires placement and fill in disposal facility; likely not logical for surge drums Very good implementability	Pro – Avoids all equipment removal (but not cutting) and segmentation except surge tanks; avoids equipment movement to processing Con – Adds capital and operating cost for external fixation $258 million

G.5. SUMMARY

Numerous potential process options and approaches can be used to minimize future subsidence in a potential OSDC. An evaluation of the effectiveness, implementability, and cost of the process options that could be applied to the waste shows that some of the options are not viable for further consideration at PORTS. Those process options with a high reliance on newly designed and constructed facilities such as a compactor, shredder, or melter are no longer considered viable because of the increased schedule delays that would occur as a result of designing these facilities, constructing them, and training a work force to operate them. More importantly, these facilities could add additional costs with only a minimal improvement in effectiveness over segmentation or shearing to reduce voids and prevent subsidence. A compactor was shown to be effective in Oak Ridge, and the extra costs for the compactor could be offset by a reduction in the volume disposed on Site, but the schedule delays for design and construction are still considerations. These process options were summarized and screened out in Section 7 of the waste disposition Remedial Investigation/FS Report.

The other process options not considered to be viable are the corrosion inhibition process options. This is attributed to significant uncertainty about their long-term effectiveness. The tests necessary to demonstrate their ability to prevent equipment degradation for the required 1,000 years have not been performed. Tests to duplicate the uncertain environment of a disposal cell would be very difficult to design. Although these process options are much less expensive and easier to implement than all of the others, they are no longer considered for application at PORTS.

The two cutting options (segmentation using workers and shearing using heavy equipment) and the three filling process options remain viable for further consideration in the process building FS for PORTS. It is expected that all process equipment containing deposits or excessive deposition that would represent a criticality concern or exceed the disposal facility WAC would be removed, disassembled to remove uranium materials to abate the concern, and then segmented using workers to small pieces for disposal using the segmentation-to-small-size process option. Based on the existing NDA data, this process will be used on only a small percentage (less than 10 percent) of the process equipment.

Two representative process options for the majority of the remaining process equipment are selected for the equipment not requiring segmentation for deposit removal; grout filling and shearing. These process options will be used in the process building FS to develop alternatives. The other filling process options could be reconsidered during design as well as other techniques to control subsidence.

Grout filling is selected as the representative process option for subsidence avoidance of the major process equipment in the FS. In this scenario, the majority of the process equipment (compressors, converters, coolers) would be removed before demolition. The majority of the equipment would be transported to a staging area or a potential OSDC where they would be filled with grout. This process option avoids the large amount of effort, safety issues, and cost involved with disassembly and segmentation of the converters, compressors, and coolers to small size.

Shearing will be the representative process option in the FS for subsidence avoidance of the piping and valves. The piping and valves in the cell and unit bypasses would be sheared into waste during demolition of the process buildings. This option significantly reduces the amount of manual pipe cutting necessary for D&D and is much more cost-effective than filling.

The combined use of segmentation, shearing, and grout filling results in a safe and cost-effective method of preparing the process equipment and piping for disposal, one that recognizes the various equipment designs. It is effective in avoiding subsidence by filling or destructing the voids in the process gas equipment. Implementing these process options is reasonable because all of them have been used in demolition of like uranium enrichment buildings and equipment. This combination of representative process options will allow the FS to present a fair analysis of the impacts of avoiding subsidence at a potential OSDC by additional handling of the waste.

G.6. REFERENCES

ODOT 2004, *Pressure Distribution Around a Metal Pipe Under Deep Cover*, FHWA/OH-2004/019, Office of Research & Development, Executive Summary Report, December.

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ATTACHMENT G.1: BASIS OF ESTIMATES

Estimates have been for comparison purposes only between possible process options. To the extent practical, existing estimates have been utilized, with adjustment to escalated dollars based on the schedule for process building decontamination and decommissioning (D&D). No contingency has been applied. If existing estimates are mostly applicable but require minor reductions or additions, those modifications are described in the basis to estimate the process option costs. Some estimates are based on existing experience and productivity factors from other D&D activities or based on communications from other D&D projects.

The scope for all estimates is assumed to be all of the X-330 and X-333 converters and compressors, but not the X-326 converters and compressors which are currently planned to be disposed off Site without processing (see Tables G.1 and G.2 in the main appendix text).

Segmentation to Small Size

Removal

1. Used the estimate for converter and compressor removal costs in escalated dollars from Appendix F of the process building Remedial Investigation/Feasibility Study (RI/FS) estimate for D&D work breakdown structures (WBSs) EM.PO.04.01.01.02.12 for X-333 and EM.PO.04.01.02.02.12 for X-330. Included cutting, capping, and movement to facility exit. Assume all piping or other process equipment removal in these estimates is minimal and within the accuracy of the estimate.

Movement

2. Used waste transport to on-Site disposal cell (OSDC) in RI/FS estimate for equivalent movement of components to X-700 and X-705 facilities for disassembly and segmentation. Escalated rate per cubic yard to the midpoint of X-330 and X-333 deactivation (assumed fiscal year [FY] 2019). Applied rate per in situ cubic yard for 219,000 cy of converters and compressors.

Disassembly and segmentation systems capital and operating cost

3. Used the estimate for refurbishment and capital modifications to disassemble and segment X-330 and X-333 converters and compressors from the process building RI/FS, Appendix F, Sensitivity Analysis of D&D with Off-Site Disposal of Wastes under process building D&D WBS PORTS: EM.PO.04.01.02.02.05 X-330 – X-700 Refurbishment. Costs are in escalated dollars.

4. Used the estimate for operating costs to disassemble and segment all of the X-330 and X-333 converters and compressors from the process building RI/FS, Appendix F, Sensitivity Analysis of D&D with Off-Site Disposal of Wastes under process building D&D WBS PORTS: EM.PO.04.01.01.02.05 X-333 – Material Removal-Process Deposit Mat and Recover Nickel and EM.PO.04.01.02.02.05 X-330 – Material Remove-Process Deposit Mat and Recover Nickel. Costs are in escalated dollars.

Trucking of segmented materials

5. This cost is included in the disposal facility capital and operating costs below.

Disposal facility capital and operating cost for 66,000 cy

6. Used the waste disposition RI/FS cost estimate for planning, design, capital construction, operating, and closure costs (but not long-term surveillance and maintenance) divided by the total waste volume to be disposed (1,300,000 cy) to determine a total disposal cost per cubic yard of waste. Escalated this rate per cubic yard to the midpoint of X-330 and X-333 deactivation (assumed FY 2019). Applied the rate per processed cubic yard for 66,000 cy of segmented converters and compressors.

Shearing in Place

Removal (X-330 and X-333 converters and cutting and capping compressors)

1. Used the removal estimate for Segmentation to Small Size. Note the adjustment in item 2 below.

Fixation with CCFix® (compressors only, not converters)

2. Assumed the cutting included with Removal above makes the compressors accessible for introduction of fixative. Application of the fixative inside the compressors will increase the removal labor costs by 15 percent but will avoid the lifting and crane transport of the compressors to the crane hatches for transport (assumed to be 8 percent of the removal cost). Therefore, the net labor increase for compressor fixative is 7 percent of the removal labor cost.

3. Added fixation equipment (electric-powered spray machines with hose delivery), total of three with two spares. Added material costs of $1/sq ft coated. Assumed compressors are 65,000 cy, and the conversion factor is 0.5 sq ft/cf. This equals 878,000 sq ft and is conservative because of the amount of equipment surface inaccessible for coating.

Movement (X-330 and X-333 converters)

4. Used Waste Transport to OSDC in RI/FS estimate for equivalent movement of converters to the X-700 facility for disassembly and segmentation. Escalated rate per cubic yard to the midpoint of X-330 and X-333 deactivation (assumed FY 2019). Applied rate per in situ cubic yard for 154,000 cy of converters.

Disassembly and segmentation systems (X-330 and X-333 converters) capital and operating cost

5. Used the estimate for refurbishment and capital modifications to disassemble and segment X-330 and X-333 converters from the process building RI/FS, Appendix E, Cost Estimate under process building D&D WBS PORTS: EM.PO.04.01.02.02.05 X-330 – X-700 Refurbishment. Costs are in escalated dollars.

6. Used the estimate for operating costs to disassemble and segment all of the X-330 and X-333 converters from the process building RI/FS, Appendix E, Cost Estimate under process building D&D WBS PORTS: EM.PO.04.01.01.02.05 X-333 - Material Removal-Process Deposit Mat and Recover Nickel and EM.PO.04.01.02.02.05 X-330 - Material Remove-Process Deposit Mat and Recover Nickel. Costs are in escalated dollars.

Shearing of compressors in place

7. Used the cost estimates for X-330 and X-333 Building Demolitions in the process building RI/FS, Appendix E, Cost Estimate, WBSs EM.PO.04.01.01.03.03 and EM.PO.04.01.02.03.03. Assumed that compressor density and complexity would increase the demolition effort by 50 percent for the cubic yards of compressors over the average cubic yard of building waste. The total cubic yards in situ of X-330 and X-333 building waste (excluding slabs and underground structures and piping) is 426,000 cy. Used the demolition estimates divided by the waste volume to determine the rate per cubic yard. Increased this rate by 50 percent and applied it to 65,000 cy of compressors. Costs are in escalated dollars.

Trucking of sheared materials (and segmented X-330 and X-333 converters)

8. This cost is included in the disposal facility capital and operating costs below.

Disposal facility capital and operating savings for 66,000 cy

9. Used the waste disposition RI/FS cost estimate for planning, design, capital construction, operating, and closure costs (but not long-term surveillance and maintenance) divided by the total waste volume to be disposed (1,300,000 cy) to determine a total disposal cost per cubic yard of waste. Escalated this rate per cubic yard to the midpoint of process building D&D (assumed FY 2019). Applied the rate per processed cubic yard for 66,000 cy of segmented converters and sheared compressors.

Compaction

Removal

1. Same estimate as segmentation.

Movement

2. Same estimate as segmentation.

Disassembly and segmentation systems (X-330 and X-333 converters and compressors) capital and operating cost

3. Used segmentation estimate, but reduced the operating cost by 5 percent for less segmentation required to fit compactor throat.

Compaction capital and operating cost (including movement)

4. Assumed two compactors similar to those estimated in the Critical Decision-1 estimate. Added 30 percent for supporting equipment and materials. Escalated to the midpoint of capital construction (assumed FY 2015).

5. For additional compactor operations, added one foreman, six D&D laborers, four D&D workers, and four rad techs for duration of operation (assumed 6 years). Added 20 percent for support equipment and materials beyond compactors. Escalated to the midpoint of process building D&D (assumed FY 2019).

Trucking of compacted materials (and segmented converter bundles)

6. This cost is included in the disposal facility capital and operating costs below.

Disposal facility capital and operating savings for 45,000 cy

7. Used same approach as segmentation except for 45,000 cy.

Shredding

Removal

1. Same estimate as segmentation.

Movement

2. Same estimate as segmentation.

Disassembly and segmentation systems (X-330 and X-333 converters and compressors) capital and operating cost

3. Used segmentation estimate, but increased segmentation operations cost by 5 percent for additional segmentation necessary to meet shredder throat size.

Shredding capital and operating cost (including movement)

4. Used the shredding automated sorting process white paper as a cost basis with the changes below. Assumed classified shredding would add a single shredder and conveyor equal to the secondary shredder.

5. Deducted the cleaning station, eddy current separator, ferrous sorting belts, nonferrous sorting belts, and radiation detection and monitoring allowance.

6. Removed contingency and escalated to the midpoint of capital construction (assumed FY 2015).

7. For shredding operations, added one foreman, six D&D laborers, four D&D workers, and four rad techs for duration of operation (assumed 6 years). Added 20 percent for support equipment and materials beyond shredding equipment. Escalated to the midpoint of process building D&D (assumed FY 2019).

Trucking of compacted materials

8. This cost is included in the disposal facility capital and operating cost below.

Disposal facility capital and operating savings for 35,000 cy

9. Used same approach as segmentation except for 35,000 cy.

Melting

Removal

1. Same estimate as segmentation.

Movement

2. Same estimate as segmentation.

Disassembly and segmentation systems (X-330 and X-333 converters and compressors) capital and operating cost

3. Used segmentation estimate with changes below.

4. Increased the segmentation operations cost for converters and compressors by 10 percent for more cuts required.

Melting capital and operating cost (including movement)

5. Used *Cost Estimate to Meet CERCLA Needs Related to Constructing a Melter Thermal Waste Treatment Alternative* (Restoration Services, Inc. [RSI] 2011) for capital costs. Added an additional 5-ton melter for barrier. For operating costs, used shredder operating costs plus 10 percent. Escalated to the midpoint of capital construction (assumed FY 2015).

6. Used the following assumptions for melting operations costs. Assumed a standalone facility with full operations support. Labor costs included one project manager, three engineers, three health and safety specialists, one radiological engineer, five rad techs, one quality specialist, two quality techs, two waste management specialists, two foremen, five waste management workers, four laborers, three equipment operators, two mechanics, two electricians, and one truck driver. Assumed materials and equipment costs at 30 percent of labor costs. Assumed facility power costs are 4 megawatts on

average. Assumed subcontract costs are $500,000 annually. Escalated to the midpoint of process building deactivation (assumed FY 2019).

Trucking of melted materials

7. This cost is included in the disposal facility capital and operating cost below.

Disposal facility capital and operating savings for 15,000 cy

8. Used same approach as segmentation except for 15,000 cy.

Foaming

Cutting and preparation

1. Used segmentation process option removal costs. Added three additional D&D workers each to three crews for the period of D&D deactivation. Assumed the personnel associated with rigging and moving the equipment and piping, plus the three additional workers per crew, will now be dedicated to the foaming process after cutting and installing caps on the equipment and piping.

Installation of plates, foam injection ports, and vent ports

2. Additional cutting for foam holes adds one additional D&D worker and one additional high-lift platform to each of the three removal crews for the period of D&D deactivation.

3. Plates must be sheet metal and be taped or epoxy-attached, not covered with plastic. Added one D&D worker for each of the three removal crews. Increased material costs for 3,548 converters and compressors by $700 each.

Foam capital and operating cost

4. Capital cost for foaming assumed as one foaming unit for the three removal crews plus two spares at $75,000 per unit (total of five), heated foam storage units (three each) at $30,000, four each 5,000-lb forklifts, and two additional high-efficiency particulate air units per crew (total of six).

5. Material cost for foam assumed as $500 (FY 2013 dollars) per cy foamed. Conservatively, assumed all 219,000 cy are foamed.

6. Operating costs for foaming are included in the cutting estimate above. Foaming support costs for all the removal crews assumed as two D&D workers and one equipment operator for movement and control of foam materials for each crew for the period of D&D deactivation.

Movement to disposal facility

7. This cost is included in the disposal facility capital and operating cost below.

Disposal facility capital and operating cost for 219,000 cy

8. Used same approach as segmentation except for 219,000 cy. Added disposal facility capital and operating costs for a 100-ton crane for the period of D&D deactivation.

Sand Filling

Removal

1. Used the same estimate as segmentation. Adjusted for different plate strengths and ports in next item.

Installation of plates, pouring, and vent ports

2. Added 30 percent additional labor (including the cleared workers for converters) to removal and movement to install heavier plates, and to cut and temporarily seal pour and vent ports.

3. Added material costs of $1,200/component for 3,548 converters and compressors for heavier bracing on large plates and fabrication costs for port seals.

Movement to disposal facility

4. This cost is included in the disposal facility capital and operating cost below.

Sand capital and operating cost

5. Assumed design and construction of a covered materials storage area for 1,000 cy of sand. Assumed use of front end loaders for loading sand into dump trucks.

6. Assumed dry materials for 219,000 cy of sand, two front end loaders, and two 5,000-lb forklifts.

7. Major equipment to handle the process gas equipment and piping assumed to be two trucks, two 25-ton forklifts, and one 100-ton mobile crane. Escalated to the midpoint of capital construction (assumed FY 2015).

8. Operations personnel assumed to be one supervisor, one foreman, four waste management workers, three equipment operators, two craftsmen, and two rad techs for a period of 6 years (length of X-330 and X-333 deactivation). Escalated to the midpoint of process building deactivation (assumed FY 2019).

Disposal facility capital and operating cost for 219,000 cy

9. Used same approach as segmentation except for 219,000 cy. Added disposal facility capital and operating costs for a 100-ton crane and two sand auger conveyors for the period of D&D deactivation.

Grouting

Removal

1. Used the same estimate as segmentation. Adjusted for different plate strengths and ports in next item. Installation of plates, injection ports, and vent ports.

2. Added 30 percent additional labor (including the cleared workers for converters) to removal and movement to install heavier plates, injection ports, and vent ports.

3. Added material costs of $1,200 each for 3,548 converters and compressors for heavier bracing on large plates and fabrication costs for injection and vent ports.

Movement to disposal facility

4. This cost is included in the disposal facility capital and operating costs below.

Grouting capital and operating cost

5. Used the process building RI/FS D0 cost estimate for grouting at the OSDC. Removed the estimates for movement and trucking (included elsewhere in this estimate).

Disposal facility capital and operating cost for 219,000 cy

6. Used same approach as segmentation except for 219,000 cy. Added disposal facility capital and operating costs for a 100-ton crane for the period of D&D deactivation.

Surround with Concrete Fill

Removal

1. Used the same estimate as segmentation. Adjusted for heavy plate installation in the next item.

2. Added 20 percent additional labor (including the cleared workers for converters) to Removal to install heavier plates.

3. Added material costs of $900 each for 3,548 converters and compressors costs for heavier bracing on large plates.

Concrete rubblization and staging

4. For an in situ equipment and piping volume of 219,000 cy, the as-placed volume was assumed to be nominally 360,000 cy; therefore, assumed that 141,000 cy of rubblized concrete fill is required. Used 160,000 cy for edge effects. Because concrete is already part of the D&D waste, the process option estimate used assumption to segregate, process, and manage it for use as fill around the equipment.

5. Segregation assumed to be with one track-mounted machine outfitted with a grappler and one front end loader to remove concrete slabs and chunks. Processing assumed to be with two track-mounted machines outfitted with concrete pulverizers (this is because of the rate of generation; if faster is required, then add a concrete crusher) and two front end loaders. Trucks and drivers for movement of concrete fill are already included in the D&D estimate.

6. Labor and materials cost included one supervisor, one foreman, seven equipment operators, two D&D workers, three craftsmen (maintenance), and two rad techs for the period of D&D deactivation. Material costs included pulverizer teeth changeout each 500 cy and maintenance contracts on equipment.

Movement to disposal facility

7. This cost is included in the disposal facility capital and operating costs below.

Disposal facility capital and operating cost for 219,000 cy

8. Used same approach as segmentation except for 219,000 cy. Added disposal facility capital and operating costs for a 100-ton crane.

Corrosion-Inhibiting Fixative

Removal

1. Same estimate as segmentation.

Fixative application capital and operating costs

2. Added two additional D&D workers, two laborers, and one equipment operator to each of the three removal crews for converters and compressors. These personnel assumed to be dedicated to the fixation process after cutting and installing caps on the equipment.

3. Added coating equipment (electric-powered spray machines with hose delivery), one per cutting/coating crew with two spares for a total of five. Added material costs of $4/sq ft coated. Assumed process equipment is 219,000 cy and the conversion factor is 0.5 sq ft/cf because of the larger diameters. This equals 3.0 million sq ft.

Movement to disposal facility
4. This cost is included in the disposal facility capital and operating cost below.

Disposal facility capital and operating cost for 219,000 cy
5. Used same approach as segmentation except for 219,000 cy. Added disposal facility capital and operating costs for a 100-ton crane.

REFERENCE

RSI 2011, *Cost Estimate to Meet CERCLA Needs Related to Constructing a Melter Thermal Waste Treatment Alternative*, RSI/PORTS-187 (Rev. 0), Prepared for the U.S. Department of Energy, Portsmouth/Paducah Project Office, Lexington, KY, April.

ATTACHMENT G.2: SEGMENTATION TO SMALL SIZE COST ESTIMATE

SEGMENTATION TO SMALL SIZE

PROJ. ESTIMATOR: C. Oldham

TITLE Segmentation to Small Size **PROJECT LOCATION:** Portsmouth, Ohio **DATE:** July 17, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	EQUIPMENT REMOVAL														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis) for both converter and compressor removal														
1	WBS Ports: EM.PO.04.01.01.02.12 X-333 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		211,131			12,005,899		1,216,977		2,020,980		32,618	15,276,474
2	WBS Ports: EM.PO.04.01.02.02.12 X-330 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		326,947			18,178,252		2,044,441		2,391,064		67,457	22,681,213
														EQUIPMENT REMOVAL TOTAL	**$ 37,957,687**
	MOVE EQUIPMENT TO X-700/X-705														
1	Use Estimate Assembly No XWST 1060R1 (Transport Debris in Articulated Dump) for cost per cy in FY 13 dollars	219,000	CY		0			0		0		0	22.48	4,922,479	4,922,479
2	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										4,922,479	753,139	753,139
														MOVEMENT TOTAL	**$ 5,675,619**

SEGMENTATION TO SMALL SIZE

		PROJ. ESTIMATOR:	**C. Oldham**
TITLE **Segmentation to Small Size**	**PROJECT LOCATION:** **Portsmouth, Ohio**	**DATE:**	**July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	MATERIAL $/UNIT	$ VALUE	EQUIPMENT $/UNIT	$ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	$ VALUE	TOTAL ($)
	DISASSEMBLY AND SEGMENTATION														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.02.02.05 X-330 - X-700 Refurbishment Total	1	EA		256,979			14,288,014		7,182,555		4,550,730		0	26,021,300
2	WBS Ports: EM.PO.04.01.01.02.05 X-333 - Material Removal-Process Deposit Mat and Recover Nickel Total	1	Lot		513,128			29,176,434		9,729,675		998,236		0	39,904,345
3	WBS Ports: EM.PO.04.01.02.02.05 X-330 - Material Remove-Process Deposit Mat and Recover Nickel Total	1	Lot		711,540			39,561,648		11,591,495		6,427,533		0	57,580,675
											DISASSEMBLY AND SEGMENTATION TOTAL				**$ 123,506,320**
	DISPOSAL FACILITY-(includes Trucking)														
1	Use summary cost estimate (without long- term S&M) from "Alternative 2: On-site Disposal RI/FS -DFFO/CERCLA Case" for cost per cy of waste in FY 2013 dollars (1,300,000 cy).	66,000	CY		0			0		0		0	784	51,744,000	51,744,000
2	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										51,744,000	7,916,832	7,916,832
													DISPOSAL FACILITY TOTAL		**59,660,832**
													SEGMENTATION TOTAL		**$ 226,800,458**

ATTACHMENT G.3: SHEARING IN PLACE COST ESTIMATE

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SHEARING IN PLACE

PROJ. ESTIMATOR: **C. Oldham**

TITLE **Shearing in Place** **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	EQUIPMENT REMOVAL														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.01.02.12 X-333 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		211,131			12,005,899		1,216,977		2,020,980		32,618	15,276,474
2	WBS Ports: EM.PO.04.01.02.02.12 X-330 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		326,947			18,178,252		2,044,441		2,391,064		67,457	22,681,213
3	Coating Equipment --- Electric powered spray machines with hose delivery (1 ea). Assume 3 each required including 2 each spares.	3	Ea		0			0		0	5,000	15,000	0	0	15,000
4	Fixation material for compressors only--CCFix at $1.00 / SF ($1.15 escalated) of coated surface	878,000	SF		0			0	1.15	1,009,700		0	0	0	1,009,700
5	Increased labor to apply fixation material to compressors, assume increase of 7% of X-330 and X-333 Equipment Removal labor cost above - (12,005,899 + 18,178,253) X .07 = $2,112,891	1	Lot		0			2,112,891		0		0	0	0	2,112,891
												EQUIPMENT REMOVAL TOTAL			**$ 41,095,278**

SHEARING IN PLACE

PROJ. ESTIMATOR: **C. Oldham**

TITLE **Shearing in Place** **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	MATERIAL $/UNIT	$ VALUE	EQUIPMENT $/UNIT	$ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	$ VALUE	TOTAL ($)
	MOVE EQUIPMENT TO X-700/X-705														
1	Use Estimate Assembly No XWST 1060R1 (Transport Debris in Articulated Dump) for cost per cy in FY 13 dollars for movement of converters	154,000	CY		0			0		0		0	22.48	3,461,470	3,461,470
2	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										3,461,470	529,605	529,605
													MOVEMENT TOTAL		**$ 3,991,074**
	DISASSEMBLY AND SEGMENTATION														
	Use estimates prepared in Process Building RI/FS Cost Estimate (See Appendix F) for converter segmentation only														
1	WBS Ports: EM.PO.04.01.02.02.05 X-330 - X-700 Refurbishment Total	1	EA		232,560			12,930,330		6,500,050		4,118,308		0	23,548,687
2	WBS Ports: EM.PO.04.01.01.02.05 X-333 - Material Removal-Process Deposit Mat and Recover Nickel Total	1	Lot		346,589			19,707,074		8,189,943		1,866,495		0	29,763,511
3	WBS Ports: EM.PO.04.01.02.02.05 X-330 - Material Remove-Process Deposit Mat and Recover Nickel Total	1	Lot		460,199			25,587,086		8,178,769		3,410,517		0	37,176,372
											DISASSEMBLY AND SEGMENTATION TOTAL				**$ 90,488,571**

SHEARING IN PLACE

PROJ. ESTIMATOR: C. Oldham

TITLE **Shearing in Place** PROJECT LOCATION: **Portsmouth, Ohio** DATE: **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	MATERIAL $/UNIT	$ VALUE	EQUIPMENT $/UNIT	$ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	$ VALUE	TOTAL ($)
	SHEARING OF COMPRESORS IN PLACE														
	Use proration of demolition estimates prepared in Process Building RI/FS document (See Appendix F)														
	WBS Ports: EM.PO.04.01.01.03.03 X-333 - Building Demolition Total													**19,880,301**	
	WBS Ports: EM.PO.04.01.02.03.03 X-330 - Building Demolition Total													**17,192,941**	
										BUILDING DEMOLITION SUBTOTAL				**37,073,241**	
1	COMPRESSOR SHEARING COST: Building demolition cost of $37,073,241 is for a total waste volume of ~426.000 cy equating to a cost of $87.03/cy Assume compressor shearing at a 50% increase or $130.55/cy. Compressor volume is ~65,000 cy .	65,000	CY										**130.55**	8,485,750	8,485,750
										SHEARING OF COMPRESORS IN PLACE TOTAL					**$ 8,485,750**
	DISPOSAL FACILITY-(includes Trucking)														
1	Use summary cost estimate (without long-term S&M) from "Alternative 2: On-site Disposal RI/FS DFFO/CERCLA Case" for cost per cy of waste in FY 2013 dollars (1,300,000 cy).	66,000	CY		0			0		0		0	784	51,744,000	51,744,000
2	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										51,744,000	7,916,832	7,916,832
												DISPOSAL FACILITY TOTAL			**59,660,832**
												SHEAR IN PLACE TOTAL			**$ 203,721,505**

ATTACHMENT G.4: COMPACTION COST ESTIMATE

COMPACTION

													PROJ. ESTIMATOR:		C. Oldham	
TITLE	Compaction						PROJECT LOCATION:		Portsmouth, Ohio				DATE:		July 17, 2013	

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	 TOTAL MH	 CRAFT	 $/MH	 $ VALUE	MATERIAL $/UNIT	 $ VALUE	EQUIPMENT $/UNIT	 $ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	 $ VALUE	TOTAL ($)
	EQUIPMENT REMOVAL														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis) for removal of converters and compressors.														
1	WBS Ports: EM.PO.04.01.01.02.12 X-333 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		211,131			12,005,899		1,216,977		2,020,980		32,618	15,276,474
2	WBS Ports: EM.PO.04.01.02.02.12 X-330 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		326,947			18,178,252		2,044,441		2,391,064		67,457	22,681,213
														EQUIPMENT REMOVAL TOTAL	**$ 37,957,687**
	MOVE EQUIPMENT TO X-700/X-705														
1	Use Estimate Assembly No XWST 1060R1 (Transport Debris in Articulated Dump) for cost per cy in FY 13 dollars	219,000	CY		0			0		0		0	22.48	4,922,479	4,922,479
2	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										4,922,479	753,139	753,139
													MOVEMENT TOTAL		**$ 5,675,619**
	DISASSEMBLY AND SEGMENTATION														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														

COMPACTION

													PROJ. ESTIMATOR:		C. Oldham
TITLE	Compaction			PROJECT LOCATION:		Portsmouth, Ohio							DATE:		July 17, 2013
Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
1	WBS Ports: EM.PO.04.01.02.02.05 X-330 - X-700 Refurbishment Total	1	EA		256,979			14,288,014		7,182,555		4,550,730		0	26,021,300
2	WBS Ports: EM.PO.04.01.01.02.05 X-333 - Material Removal-Process Deposit Mat and Recover Nickel Total	1	Lot		513,128			29,176,434		9,729,675		998,236		0	39,904,345
3	WBS Ports: EM.PO.04.01.02.02.05 X-330 - Material Remove-Process Deposit Mat and Recover Nickel Total	1	Lot		711,540			39,561,648		11,591,495		6,427,533		0	57,580,675
4	Reduction in Material Removal labor cost due to less Segmentation required to fit Compactor throat Assume 5% reduction.	1	Lot					(3,436,904)		0		0		0	(3,436,904)
											DISASSEMBLY AND SEGMENTATION TOTAL				$ 120,069,416
	COMPACTION-CAPITAL and OPERATING														
1	Compaction equipment--procure and install--cost in FY 2015 $	2	EA		0			0		0		0	425,000	850,000	850,000
2	Supporting equipment and materials at 30% of equipment costs in FY 2015 $	1	Lot		0			0		0		0		255,000	255,000
	Compactor operations consisting of the following staff and material. Assume an operating duration of 6 years at 2,080 hrs/year /employee (12,480 hours)														
3	Foreman/supervisor	1	EA	12,480	12,480	SUP	56.68	707,366		0		0		0	707,366
4	Laborer (USW)	6	EA	12,480	74,880	LAB	44.50	3,332,160		0		0		0	3,332,160
5	D & D worker	4	EA	12,480	49,920	D/D	49.59	2,475,533		0		0		0	2,475,533
6	Radiological Control Tech	4	EA	12,480	49,920	R/T	44.64	2,228,429		0		0		0	2,228,429
7	Supporting materials and equipment for the above labor crew at 20% of labor costs	1	Lot		0			0		0		0		1,748,698	1,748,698
8	PPE Level D	187,200	Hrs						1.38	258,336		0		0	258,336
9	Indirects @ 12%	12.0%													1,422,663
														Subtotal	13,278,184
10	Operations Costs only:-Escalation to midpoint of X 333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										13,278,184	2,031,562	2,031,562

COMPACTION

PROJ. ESTIMATOR: C. Oldham

TITLE Compaction **PROJECT LOCATION:** Portsmouth, Ohio **DATE:** July 17, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
											COMPACTION-CAPITAL and OPERATING TOTAL				$ 15,309,746
	DISPOSAL FACILITY-(includes Trucking)														
1	Use summary cost estimate (without long-term S&M) from "Alternative 2: On-site Disposal RI/FS -DFFO/CERCLA Case" for cost per cy of waste in FY 2013 dollars (1,300,000 cy).	45,000	CY		0			0		0		0	784	35,280,000	35,280,000
2	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										35,280,000	5,397,840	5,397,840
													DISPOSAL FACILITY TOTAL		40,677,840
													COMPACTION TOTAL		$ 219,690,308

ATTACHMENT G.5: SHREDDING COST ESTIMATE

SHREDDING

PROJ. ESTIMATOR: **C. Oldham**

TITLE **Shredding** **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	**DESCRIPTION**	**QTY**	**UNIT**	**LABOR**					**MATERIAL**		**EQUIPMENT**		**SUBCONTRACT or UNIT RATE**		**TOTAL ($)**
				UNIT MH	**TOTAL MH**	**CRAFT**	**$/MH**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	
	EQUIPMENT REMOVAL														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.01.02.12 X-333 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		211,131			12,005,899		1,216,977		2,020,980		32,618	15,276,474
2	WBS Ports: EM.PO.04.01.02.02.12 X-330 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		326,947			18,178,252		2,044,441		2,391,064		67,457	22,681,213
														EQUIPMENT REMOVAL TOTAL	**$ 37,957,687**
	MOVE EQUIPMENT TO X-700/X-705														
1	Use Estimate Assembly No XWST 1060R1 (Transport Debris in Articulated Dump) for cost per cy in FY 13 dollars	219,000	CY		0			0		0		0	22.48	4,922,479	4,922,479
2	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										4,922,479	753,139	753,139
														MOVEMENT TOTAL	**$ 5,675,619**

SHREDDING

PROJ. ESTIMATOR: **C. Oldham**

TITLE Shredding **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	LABOR TOTAL MH	LABOR CRAFT	LABOR $/MH	LABOR $ VALUE	MATERIAL $/UNIT	MATERIAL $ VALUE	EQUIPMENT $/UNIT	EQUIPMENT $ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	SUBCONTRACT or UNIT RATE $ VALUE	TOTAL ($)
	DISASSEMBLY AND SEGMENTATION														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.02.02.05 X-330 - X-700 Refurbishment Total	1	EA		256,979			14,288,014		7,182,555		4,550,730		0	26,021,300
2	WBS Ports: EM.PO.04.01.01.02.05 X-333 - Material Removal-Process Deposit Mat and Recover Nickel Total	1	Lot		513,128			29,176,434		9,729,675		998,236		0	39,904,345
3	WBS Ports: EM.PO.04.01.02.02.05 X-330 - Material Remove-Process Deposit Mat and Recover Nickel Total	1	Lot		711,540			39,561,648		11,591,495		6,427,533		0	57,580,675
4	Increase in Material Removal labor cost due to more Segmentation required to meet Shredder throat size. Assume 5% increase	1	Lot					3,436,904		0		0		0	3,436,904
											DISASSEMBLY AND SEGMENTATION TOTAL				**$ 126,943,224**
	SHREDDING-CAPITAL and OPERATING														
	The Capital Costs of this estimate are based on a "White Paper Study for a Shredding Automated Sorting Process" prepared by RSI in FY 2011 with modifications as noted below														
	CAPITAL COSTS														
1	Shredding equipment--procure and install-Capital cost Total in FY 2011 dollars	1	Lot		0			0		0		0		27,517,500	27,517,500

SHREDDING

PROJ. ESTIMATOR: **C. Oldham**

TITLE **Shredding** **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
2	Add a Shredder and Conveyor equal to the Secondary Shredder listed in the White Paper for shredding the classified waste. Use $650,000 for the Shredder plus $100,000 for the Conveyor plus $350,000 for the control station.	1	Lot											1,100,000	1,100,000
3	Deduct the Cleaning Station	1	EA		0			0		0		0		(50,000)	(50,000)
4	Deduct the Eddy Current Separator	1	EA		0			0		0		0		(200,000)	(200,000)
5	Deduct the Ferrous Sorting Belts	1	EA		0			0		0		0		(150,000)	(150,000)
6	Deduct the Non-Ferrous Sorting Belts	1	EA		0			0		0		0		(75,000)	(75,000)
7	Deduct the Rad Detection and sorting	1	EA		0			0		0		0		(10,000,000)	(10,000,000)
8	Remove Contingency cost	1	EA		0			0		0		0		(7,643,750)	(7,643,750)
	Subtotal														10,498,750
9	Capital cost-- Escalation-- FY 2011 to midpoint of facility construction --FY 2015 (4 years) @ 2.4%/year	10.0%	per cent										10,498,750	1,049,875	1,049,875
	Capital Total-Escalated $														11,548,625
	OPERATING COSTS														
	Assume Shredding operations consisting of the following staff and material. Assume an operating duration of 6 years at 2,080 hrs/ year /employee (12,480 hours)														
1	Foreman/supervisor	1	EA	12,480	12,480	SUP	56.68	707,366		0		0		0	84,884
2	Laborer (USW)	6	EA	12,480	74,880	LAB	44.50	3,332,160		0		0		0	3,332,160
3	D & D worker	4	EA	12,480	49,920	D/D	49.59	2,475,533		0		0		0	2,475,533
4	Radiological Control Tech	4	EA	12,480	49,920	R/T	44.64	2,228,429		0		0		0	2,228,429
5	Supporting materials and equipment for the above labor crew at 20% of additional labor costs	1	Lot		0			0		0		0		1,748,698	1,748,698
6	PPE Level D	187,200	Hrs						1.38	258,336		0		0	258,336
7	Indirects @ 12 %	12.0%													1,215,365
	Operating Total-FY 2013 $														11,343,404

SHREDDING

													PROJ. ESTIMATOR:		C. Oldham
TITLE	Shredding			PROJECT LOCATION:		Portsmouth, Ohio							DATE:		July 17, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	MATERIAL $/UNIT	$ VALUE	EQUIPMENT $/UNIT	$ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	$ VALUE	TOTAL ($)
8	Operations cost--Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										11,343,404	1,735,541	1,735,541
															13,078,945
	Operating Total-Escalated $														
											SHREDDING-CAPITAL and OPERATING TOTAL				$ 24,627,570
	DISPOSAL FACILITY-(includes Trucking)														
1	Use summary cost estimate (without long-term S&M) from "Alternative 2: On-site Disposal RI/FS -DFFO/CERCLA Case" for cost per cy of waste in FY 2013 dollars (1,300,000 cy).	35,000	CY		0			0		0		0	784	27,440,000	27,440,000
2	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										27,440,000	4,198,320	4,198,320
												DISPOSAL FACILITY TOTAL			31,638,320
												SHREDDING TOTAL			$ 226,842,420

ATTACHMENT G.6: MELTING COST ESTIMATE

MELTING

PROJ. ESTIMATOR: **C. Oldham**

TITLE Melting **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	LABOR TOTAL MH	LABOR CRAFT	LABOR $/MH	LABOR $ VALUE	MATERIAL $/UNIT	MATERIAL $ VALUE	EQUIPMENT $/UNIT	EQUIPMENT $ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	SUBCONTRACT or UNIT RATE $ VALUE	TOTAL ($)
	EQUIPMENT REMOVAL														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.01.02.12 X-333 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		211,131			12,005,899		1,216,977		2,020,980		32,618	15,276,474
2	WBS Ports: EM.PO.04.01.02.02.12 X-330 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		326,947			18,178,252		2,044,441		2,391,064		67,457	22,681,213
													EQUIPMENT REMOVAL TOTAL		**$ 37,957,687**
	MOVE EQUIPMENT TO X-700/X-705														
1	Use Estimate Assembly No XWST 1060R1 (Transport Debris in Articulated Dump) for cost per cy in FY 13 dollars	219,000	CY		0			0		0		0	22.48	4,922,479	4,922,479
2	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										4,922,479	753,139	753,139
													MOVEMENT TOTAL		**$ 5,675,619**

MELTING

PROJ. ESTIMATOR: C. Oldham

TITLE Melting PROJECT LOCATION: Portsmouth, Ohio DATE: July 17, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	LABOR TOTAL MH	LABOR CRAFT	LABOR $/MH	LABOR $ VALUE	MATERIAL $/UNIT	MATERIAL $ VALUE	EQUIPMENT $/UNIT	EQUIPMENT $ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	SUBCONTRACT or UNIT RATE $ VALUE	TOTAL ($)
	DISASSEMBLY AND SEGMENTATION														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.02.02.05 X-330 - X-700 Refurbishment Total	1	EA		256,979			14,288,014		7,182,555		4,550,730		0	26,021,300
2	WBS Ports: EM.PO.04.01.01.02.05 X-333 - Material Removal-Process Deposit Mat and Recover Nickel Total	1	Lot		513,128			29,176,434		9,729,675		998,236		0	39,904,345
3	WBS Ports: EM.PO.04.01.02.02.05 X-330 - Material Remove-Process Deposit Mat and Recover Nickel Total	1	Lot		711,540			39,561,648		11,591,495		6,427,533		0	57,580,675
4	Increase in labor cost due to more cuts required during disassembly and segmentation. Assume 10% increase.	1	Lot					6,873,808		0		0		0	6,873,808
													DISASSEMBLY AND SEGMENTATION TOTAL		**$ 130,380,128**
	MELTING-CAPITAL and OPERATING														
	This estimate is based on Document RSI/PORTS-187, Rev 0 titled "Cost Estimate to Meet CERCLA Needs Related to Constructing a Melter Thermal Waste Treatment Alternative" prepared by RSI in FY 2011 with modifications as noted below														
	CAPITAL COSTS														
1	Capital cost of Designing and Constructing a 30-ton Melting Furnace Facility (in FY 2011 $) without Contingency.	1	Lot		0			0		0		0		192,207,020	192,207,020

MELTING

PROJ. ESTIMATOR: **C. Oldham**

TITLE **Melting** PROJECT LOCATION: **Portsmouth, Ohio**

DATE: **July 17, 2013**

Item				LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		
No.	DESCRIPTION	QTY	UNIT	UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	TOTAL ($)
2	Add a 5-ton Melting Furnace unit for Barrier and Security Sensitive waste. Assume 20% of the 30 Ton total cost.	1	Lot											38,441,404	38,441,404
	CAPITAL SUBTOTAL-FY 2011 $														230,648,424
3	Capital cost-- Escalation-- FY 2011 to midpoint of facility construction --FY 2015 (4 years) @ 2.4%/year	10.0%	per cent										230,648,424	23,064,842	23,064,842
	Capital Total-Escalated $														253,713,266
	OPERATING COSTS														
	Assume Melting Facility operations consisting of the following staff, materials, and utilities Assume an operating duration of 6 years at 2,080 hrs/year /employee (12,480 hours)														
1	Project Manager-Mid-FGG	1	EA	12,480	12,480	PM	99.94	1,247,254		0		0		0	1,247,254
2	Engineer-Jr-FGG	3	EA	12,480	37,440	ENG	67.90	2,542,176		0		0		0	2,542,176
3	Health and Safety Specialist	3	EA	12,480	37,440	H/S	29.57	1,107,101		0		0		0	1,107,101
4	Radiological Engineer	1	EA	12,480	12,480	R/E	53.37	666,095		0		0		0	666,095
5	Radiological Control Tech	5	EA	12,480	62,400	R/T	44.64	2,785,536		0		0		0	2,785,536
6	Quality Specialist	1	EA	12,480	12,480	Q/E	72.51	904,925		0		0		0	904,925
7	QA/QC Representative/Technician	2	EA	12,480	24,960	Q/T	48.98	1,222,541		0		0		0	1,222,541
8	Waste Management Specialist	2	EA	12,480	24,960	WM	57.60	1,437,609		0		0		0	1,437,609
9	Foreman/supervisor	2	EA	12,480	24,960	SUP	56.68	1,414,733		0		0		0	1,414,733
10	Waste Management Worker	5	EA	12,480	62,400	WW	50.40	3,144,735		0		0		0	3,144,735
11	Laborer (USW)	4	EA	12,480	49,920	LAB	44.50	2,221,440		0		0		0	2,221,440
12	Equipment Operator	3	EA	12,480	37,440	OP	48.52	1,816,589		0		0		0	1,816,589
13	Mechanic	2	EA	12,480	24,960	ME	49.88	1,244,990		0		0		0	1,244,990
14	Electrician	2	EA	12,480	24,960	ENG	49.30	1,230,486		0		0		0	1,230,486
15	Truck Driver	1	EA	12,480	12,480	TD	45.98	573,830		0		0		0	573,830
16	PPE Level D	461,760	Hrs						1.38	637,229		0		0	637,229
17	Supporting materials and equipment for the above labor crew at 30% of labor costs	1	Lot		0					0		0		7,068,012	7,068,012

MELTING

						PROJ. ESTIMATOR:	C. Oldham
TITLE	Melting	PROJECT LOCATION:	Portsmouth, Ohio			DATE:	July 17, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
18	Assume Power cost at 4 megawatts annually average for operating duration of 6 years. Assume 24-hour electrical required for operational needs-8,760 hr/year Cost per year at $0.10 per kW hr.=$3,504,000	6	Years		-			0		0		0	3,504,000	21,024,000	21,024,000
19	Assume Subcontracts of $500,000 annually for operating duration of 6 years	6	Years		-			0		0		0	500,000	3,000,000	3,000,000
20	Indirects @ 12%	12.0%			-					0		0			6,634,713
	Operating Total-FY 2013 $														61,923,992
21	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										61,923,992	9,474,371	9,474,371
	Operating Total-Escalated														71,398,363
											MELTING-CAPITAL and OPERATING TOTAL				$ 325,111,630
	DISPOSAL FACILITY-(includes Trucking)														
1	Use summary cost estimate (without long-term S&M) from "Alternative 2: On-site Disposal RI/FS -DFFO/CERCLA Case" for cost per cy of waste in FY 2013 dollars (1,300,000 cy).	15,000	CY		0					0		0	784	11,760,000	11,760,000
2	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										11,760,000	1,799,280	1,799,280
													DISPOSAL FACILITY TOTAL		13,559,280
													MELTING TOTAL		$ 512,684,344

ATTACHMENT G.7: FOAMING IN SITU COST ESTIMATE

FOAMING

													PROJ. ESTIMATOR:		**C. Oldham**	
TITLE	**Foaming**				**PROJECT LOCATION:**			**Portsmouth, Ohio**					**DATE:**		**July 17, 2013**	
Item No.	**DESCRIPTION**	**QTY**	**UNIT**	**LABOR**					**MATERIAL**		**EQUIPMENT**		**SUBCONTRACT or UNIT RATE**		**TOTAL ($)**
				UNIT MH	**TOTAL MH**	**CRAFT**	**$/MH**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	
	EQUIPMENT REMOVAL														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.01.02.12 X-333 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		211,131			12,005,899		1,216,977		2,020,980		32,618	15,276,474
2	WBS Ports: EM.PO.04.01.02.02.12 X-330 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		326,947			18,178,252		2,044,441		2,391,064		67,457	22,681,213
3	Additional material required for sheet metal, ports, etc., and attachments. Allow $700 ($810 escalated) for each of 3,548 converters and compressors.	3548	EA		0			0	810	2,873,880		0		0	2,873,880
4	Additional labor associated with removal, and installation of plates/ports. Assume 3 crews and an operating duration of 6 years at 2,080 hrs/year /employee (12,480 hours). Add 5 each D & D workers per crew at $49.59/hr ($57.18/hr escalated).	15	EA	12,480	187,200	D/D	57.18	10,703,585		0		0		0	10,703,585
														EQUIPMENT REMOVAL TOTAL	51,535,152

FOAMING

PROJ. ESTIMATOR: **C. Oldham**

TITLE **Foaming** **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	FOAMING-CAPITAL and OPERATING														
	CAPITAL COSTS														
1	Provide one Foaming unit per removal crew (3 each), plus 2 spares for a total of 5 units.	5	EA					0		0	75,000	375,000		0	375,000
2	Heated Foam storage units	3	EA		0			0		0	30,000	90,000	0	0	90,000
3	HEPA units @ 2 per crew; 3-crews	6	EA		0			0		0	10,000	60,000	0	0	60,000
4	High-lift platform @ 1 per crew: 3 crews	3	EA		0			0		0	45,000	135,000	0	0	135,000
5	Forklift 5,000 lb capacity	4	EA		0			0		0	30,000	120,000	0	0	120,000
6	Indirects @ 12%	12.0%													93,600
	CAPITAL SUBTOTAL-FY 2013 $														873,600
7	Capital cost-- Escalation-- FY 2013 to midpoint of facility construction --FY 2015 (2 years) @ 2.4%/year	4.9%	per cent										873,600	42,806	42,806
	Capital Total-Escalated $														916,406
	OPERATING COSTS														
	Operating costs for Foaming are included in Equipment Removal costs above. Assume additional support cost to Foaming operations consisting of the following staff and materials. Assume an operating duration of 6 years at 2,080 hr/year /employee (12,480 hours)														
1	Foaming material @ $500/cy	219,000	CY					0	500	109,500,000		0		0	109,500,000
2	D & D worker	2	EA	12,480	24,960	D/D	49.59	1,237,766		0		0		0	1,237,766
3	Equipment Operator	1	EA	12,480	12,480	OP	48.52	605,530		0		0		0	605,530
4	Supporting materials and equipment for the above labor crew at 10% of additional labor costs	1	Lot					0		0		0		184,330	184,330

FOAMING

PROJ. ESTIMATOR: **C. Oldham**

TITLE **Foaming** **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	MATERIAL $/UNIT	$ VALUE	EQUIPMENT $/UNIT	$ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	$ VALUE	TOTAL ($)
5	PPE Level D	37,440	Hrs						1.38	51,667		0		0	51,667
6	Equipment operating and maintenance--Allowance @ $2,000/ mo for 72 months	72	MO					0		0	2,000	144,000		0	144,000
7	Indirects @ 12%	12.0%													13,406,795
	Operating Total-FY 2013 $														125,130,088
8	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										125,130,088	19,144,903	19,144,903
	Operating Total- Escalated $														144,274,991
											FOAMING-CAPITAL and OPERATING TOTAL				**$ 145,191,398**
	DISPOSAL FACILITY-(includes Trucking)														
1	Use summary cost estimate (without long-term S&M) from "Alternative 2: On-site Disposal RI/FS -DFFO/CERCLA Case" for cost per cy of waste in FY 2013 dollars (1,300,000 cy).	219,000	CY					0		0		0	784	171,696,000	171,696,000
2	Procure a 100-ton crane	1	EA					0		0	900,000	900,000	0	0	900,000
3	Equipment Operations/Maintenance: Crane @ $12,250/month for the duration of the operation of 72 months	72	MO					0		0	12,250	882,000		0	882,000
4	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										173,478,000	26,542,134	26,542,134
												DISPOSAL FACILITY TOTAL			**200,020,134**
												FOAMING TOTAL			**$ 396,746,684**

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ATTACHMENT G.8: SAND FILLING COST ESTIMATE

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SAND FILLING

												PROJ. ESTIMATOR:		**C. Oldham**	
TITLE	**Sand Filling**				**PROJECT LOCATION:**			**Portsmouth, Ohio**					**DATE:**	**July 17, 2013**	
Item No.	**DESCRIPTION**	**QTY**	**UNIT**	**LABOR**					**MATERIAL**		**EQUIPMENT**		**SUBCONTRACT or UNIT RATE**		**TOTAL ($)**
				UNIT MH	**TOTAL MH**	**CRAFT**	**$/MH**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	
	EQUIPMENT REMOVAL														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.01.02.12 X-333 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		211,131			12,005,899		1,216,977		2,020,980		32,618	15,276,474
2	WBS Ports: EM.PO.04.01.02.02.12 X-330 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		326,947			18,178,252		2,044,441		2,391,064		67,457	22,681,213
3	Additional labor required for installation of plates, pouring, and vent ports on removed equipment. Assume 30% increase in equipment removal labor above	1	Lot		0			9,055,245		0		0		0	9,055,245
4	Additional material required for plates, bracing, and fabrication cost for port seals. Allow $1,200 ($1,380 escalated) for each of 3,548 converters and compressors.	3548	EA		0			0	1,380	4,896,240		0		0	4,896,240
												EQUIPMENT REMOVAL TOTAL			**$ 51,909,172**

SAND FILLING

PROJ. ESTIMATOR: **C. Oldham**

TITLE Sand Filling **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	MATERIAL $/UNIT	$ VALUE	EQUIPMENT $/UNIT	$ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	$ VALUE	TOTAL ($)
	SAND FILLING-CAPITAL and OPERATING														
	CAPITAL COSTS														
1	Design & Construct a Material Storage Area and to hold 1,000 cy of sand and a sand Conveyor System (Located at Cell) that will process 100 cy of sand per day. Assume this area will be constructed within close proximity of the OSDC Area. Cost elements include the following: Planning & Design --- $200,000; Mob --- 50,000; Cut/Grade/Prep --- 150,000; Sand Auger Conveyor System -(2 Ea)--- 1,300,000; Storage Building --- 200,000; Demob --- 50,000.	1	Lot					0		0		0		1,950,000	1,950,000
2	Two Frontend Loaders & two 5,000 lb Forklifts.	1	Lot		0			0		0	275,000	275,000	0	0	275,000
3	Two Trucks; two 25-ton Forklifts; and one 100-ton mobile crane.	1	Lot		0			0		0	1,300,000	1,300,000	0	0	1,300,000
4	Indirects @ 12%	12.0%													423,000
	CAPITAL SUBTOTAL-FY 2013 $														3,948,000
5	Capital cost-- Escalation-- FY 2013 to midpoint of facility construction --FY 2015 (2 years) @ 2.4%/year	4.9%	per cent										3,948,000	193,452	193,452
	Capital Total-Escalated $														4,141,452
	OPERATING COSTS														
	Assume Sand Filling operations consisting of the following staff and materials. Assume an operating duration of 6 years at 2,080 hrs/year /employee (12,480 hours)														
1	Foreman/supervisor	2	EA	12,480	24,960	SUP	56.68	1,414,733		0		0		0	1,414,733
2	Waste Management worker	4	EA	12,480	49,920	WW	50.40	2,515,788		0		0		0	2,515,788
3	Equipment Operator	3	EA	12,480	37,440	OP	48.52	1,816,589		0		0		0	1,816,589
4	D & D worker	2	EA	12,480	24,960	D/D	49.59	1,237,766		0		0		0	1,237,766
5	Radiological Control Tech	2	EA	12,480	24,960	R/T	44.64	1,114,214		0		0		0	1,114,214

SAND FILLING

			PROJ. ESTIMATOR:	C. Oldham
TITLE **Sand Filling**	PROJECT LOCATION:	Portsmouth, Ohio	DATE:	July 17, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	LABOR TOTAL MH	LABOR CRAFT	LABOR $/MH	LABOR $ VALUE	MATERIAL $/UNIT	MATERIAL $ VALUE	EQUIPMENT $/UNIT	EQUIPMENT $ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	SUBCONTRACT or UNIT RATE $ VALUE	TOTAL ($)
6	Supporting materials and equipment for the above labor crew at 20% of additional labor costs	1	Lot					0		0		0		1,619,818	1,619,818
7	PPE Level D	162,240	Hrs						1.38	223,891		0		0	223,891
8	Sand, clean, fine, Assume 30 mile haul	219,000	CY						50.00	10,950,000		0		0	10,950,000
9	Indirects @ 12%	12.0%													2,507,136
	Operating Total-FY 2013 $														23,399,936
9	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										23,399,936	3,580,190	3,580,190
	Operating Total- Escalated $														26,980,126
											SAND FILLING-CAPITAL and OPERATING TOTAL				$ 31,121,578
	DISPOSAL FACILITY-(includes Trucking)														
1	Use summary cost estimate (without long-term S&M) from "Alternative 2: On-site Disposal RI/FS - DFFO/CERCLA Case" for cost per cy of waste in FY 2013 dollars (1,300,000 cy).	219,000	CY					0		0		0	784	171,696,000	171,696,000
2	Equipment Operations/Maintenance: Crane @ $12,250/month for the duration of the operation of 72 months= $882,000; Utility Trucks- 2 each @$2,000 ea/Mo for 72 months=$288,000: Front end Loaders--2 each @ $4,500 ea/mo for 72 months= $648,000; Other equipment cost=allowance of $100,000. TOTAL=$1,918,000	1	Lot					0		0	1,918,000	1,918,000		0	1,918,000
3	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										173,614,000	26,562,942	26,562,942
													DISPOSAL FACILITY TOTAL		200,176,942
												SAND FILLING TOTAL			$ 283,207,693

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ATTACHMENT G.9: GROUTING COST ESTIMATE

GROUTING

													PROJ. ESTIMATOR:		**C. Oldham**
TITLE	**Grouting**				**PROJECT LOCATION:**			**Portsmouth, Ohio**					**DATE:**		**July 17, 2013**
Item No.	**DESCRIPTION**	**QTY**	**UNIT**	**LABOR** **UNIT MH**	**TOTAL MH**	**CRAFT**	**$/MH**	**$ VALUE**	**MATERIAL** **$/UNIT**	**$ VALUE**	**EQUIPMENT** **$/UNIT**	**$ VALUE**	**SUBCONTRACT or UNIT RATE** **$/UNIT**	**$ VALUE**	**TOTAL ($)**
	EQUIPMENT REMOVAL														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.01.02.12 X-333 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		211,131			12,005,899		1,216,977		2,020,980		32,618	15,276,474
2	WBS Ports: EM.PO.04.01.02.02.12 X-330 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		326,947			18,178,252		2,044,441		2,391,064		67,457	22,681,213
3	Additional labor required for installation of plates, and injection and vent ports on removed equipment. Assume 30% increase in equipment removal labor above	1	Lot		0			9,055,245		0		0		0	9,055,245
4	Additional material required for plates, bracing, and fabrication cost for ports. Allow $1,200 ($1,380 escalated) for each of 3,548 converters and compressors.	3548	EA		0			0	1,380	4,896,240		0		0	4,896,240
														EQUIPMENT REMOVAL TOTAL	**$ 51,909,172**

GROUTING

												PROJ. ESTIMATOR:		C. Oldham	
TITLE	Grouting			PROJECT LOCATION:			Portsmouth, Ohio					DATE:		July 17, 2013	

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	GROUTING-CAPITAL and OPERATING														
	Use estimates prepared in Process Building D&D RI/FS D0 document (dated 2-8-2012)														
1	Grouting of Process Equipment Total	1	Lot		0			0		0		0	38,618,634	38,618,634	38,618,634
2	Delete "Movement"	1	Lot		0			0		0		0	(1,699,164)	(1,699,164)	(1,699,164)
3	Delete "Trucking"	1	Lot		0			0		0		0	(1,599,190)	(1,599,190)	(1,599,190)
	Capital and Operating Total-Escalated $														35,320,280
											GROUTING-CAPITAL and OPERATING TOTAL				**$ 35,320,280**
	DISPOSAL FACILITY-(includes Trucking)														
1	Use summary cost estimate (without long- term S&M) from "Alternative 2: On-site Disposal RI/FS-DFFO/CERCLA Case" for cost per cy of waste in FY 2013 dollars (1,300,000 cy).	219,000	CY					0		0		0	784	171,696,000	171,696,000
2	Procure a 100-ton crane	1	EA					0		0	900,000	900,000	0	0	900,000
3	Equipment Operations/Maintenance: Crane @ $12,250/month for the duration of the operation of 72 months	72	MO					0		0	12,250	882,000		0	882,000
4	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										173,478,000	26,542,134	26,542,134
													DISPOSAL FACILITY TOTAL		**200,020,134**
													GROUTING TOTAL		**$ 287,249,586**

ATTACHMENT G.10: SURROUND WITH CONCRETE COST ESTIMATE

SURROUND WITH CONCRETE FILL

		PROJ. ESTIMATOR:	**C. Oldham**
TITLE Surround with Concrete Fill	**PROJECT LOCATION:** Portsmouth, Ohio	**DATE:**	**July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	MATERIAL $/UNIT	$ VALUE	EQUIPMENT $/UNIT	$ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	$ VALUE	TOTAL ($)
	EQUIPMENT REMOVAL														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.01.02.12 X-333 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		211,131			12,005,899		1,216,977		2,020,980		32,618	15,276,474
2	WBS Ports: EM.PO.04.01.02.02.12 X-330 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		326,947			18,178,252		2,044,441		2,391,064		67,457	22,681,213
3	Additional material required for metal plates, bracing, etc., and attachments. Allow $900 ($1,040 escalated) for each of 3,548 converters and compressors.	3548	EA		0			0	1,040	3,689,920		0		0	3,689,920
4	Additional labor required for installation of plates on removed equipment. Assume 20% increase in equipment removal labor above	1	Lot		0			6,036,830				0		0	6,036,830
												EQUIPMENT REMOVAL TOTAL			47,684,437
	CONCRETE RUBBLIZATION-CAPITAL and OPERATING														
	CAPITAL COSTS														
1	Procure a track-mounted excavator w/grappler for removal of concrete slabs and chunks.	1	EA					0		0	860,000	860,000		0	860,000
2	Procure front end loaders for removal of concrete slabs and concrete processing.	3	EA		0			0		0	550,000	1,650,000	0	0	1,650,000

SURROUND WITH CONCRETE FILL

PROJ. ESTIMATOR: **C. Oldham**

TITLE **Surround with Concrete Fill** **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	MATERIAL $/UNIT	$ VALUE	EQUIPMENT $/UNIT	$ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	$ VALUE	TOTAL ($)
3	Procure track-mounted excavator with concrete pulverizer for processing the concrete.	2	EA		0			0		0	1,100,000	2,200,000	0	0	2,200,000
4	Indirects @ 12%	12.0%													565,200
	CAPITAL SUBTOTAL-FY 2013 $														5,275,200
5	Capital cost-- Escalation-- FY 2013 to midpoint of facility construction --FY 2015 (2 years) @ 2.4%/year	4.9%	per cent										5,275,200	258,485	258,485
	Capital Total-Escalated $														5,533,685
	OPERATING COSTS														
	Assume Concrete fill operations consist of the following staff and materials. Assume an operating duration of 6 years (72 months) at 2,080 hrs/year /employee (12,480 hours)														
1	Foreman/supervisor	2	EA	12,480	24,960	SUP	56.68	1,414,733		0		0		0	1,414,733
2	D & D worker	2	EA	12,480	24,960	D/D	49.59	1,237,766		0		0		0	1,237,766
3	Equipment Operator	7	EA	12,480	87,360	OP	48.52	4,238,707		0		0		0	4,238,707
4	Mechanic	3	EA	12,480	37,440	ME	49.88	1,867,485		0		0		0	1,867,485
5	Radiological Control Tech	2	EA	12,480	24,960	R/T	44.64	1,114,214		0		0		0	1,114,214
6	Supporting materials and equipment for the above labor crew at 10% of additional labor costs	1	Lot					0		0		0		987,291	987,291
7	PPE Level D	199,680	Hrs						1.38	275,558		0		0	275,558
8	Equipment operating and maintenance--Excavators-3 each @ $30,400/ea/mo for 72 months	72	MO					0		0	91,200	6,566,400		0	6,566,400
9	Equipment operating and maintenance--Front end loaders- 3 each @ $8,800/ea/mo for 72 months	72	MO					0		0	26,400	1,900,800		0	1,900,800

SURROUND WITH CONCRETE FILL

PROJ. ESTIMATOR: **C. Oldham**

TITLE **Surround with Concrete Fill** **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	LABOR TOTAL MH	LABOR CRAFT	LABOR $/MH	LABOR $ VALUE	MATERIAL $/UNIT	MATERIAL $ VALUE	EQUIPMENT $/UNIT	EQUIPMENT $ VALUE	SUBCONTRACT or UNIT RATE $/UNIT	SUBCONTRACT or UNIT RATE $ VALUE	TOTAL ($)
10	Pulverizer teeth changeout--assume changeout required each 500 cy. Concrete fill required =141,000 cy; therefore 282 changeouts required	282	MO					0		0	1,200	338,400		0	338,400
11	Indirects @ 12%	12.0%													2,392,963
	Operating Total-FY 2013 $														22,334,317
12	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										22,334,317	3,417,151	3,417,151
	Operating Total- Escalated $														25,751,468
											CONCRETE FILL CAPITAL and OPERATING TOTA				**$ 31,285,152**
	DISPOSAL FACILITY-(includes Trucking)														
1	Use summary cost estimate (without long-term S&M) from "Alternative 2: On-site Disposal RI/FS -DFFO/CERCLA Case" for cost per cy of waste in FY 2013 dollars (1,300,000 cy).	219,000	CY					0		0		0	784	171,696,000	171,696,000
2	Procure a 100 ton crane	1	EA					0		0	900,000	900,000	0	0	900,000
3	Equipment Operations/Maintenance: Crane @ $12,250/month for the duration of the operation of 72 months	72	MO					0		0	12,250	882,000		0	882,000
4	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										173,478,000	26,542,134	26,542,134
													DISPOSAL FACILITY TOTAL		**200,020,134**
											SURROUND WITH CONCRETE FILL TOTAL				$ 278,989,724

ATTACHMENT G.11: CORROSION-INHIBITING FIXATIVE COST ESTIMATE

CORROSION-INHIBITING FIXATIVE

PROJ. ESTIMATOR: **C. Oldham**

TITLE Corrosion-Inhibiting Fixative **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **July 17, 2013**

Item				LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		
No.	DESCRIPTION	QTY	UNIT	UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	TOTAL ($)
	EQUIPMENT REMOVAL														
	Use estimates prepared in Process Building RI/FS document (See Appendix G Sensitivity Analysis)														
1	WBS Ports: EM.PO.04.01.01.02.12 X-333 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		211,131			12,005,899		1,216,977		2,020,980		32,618	15,276,474
2	WBS Ports: EM.PO.04.01.02.02.12 X-330 Equipment Removal - Remove and Package Converters, Compressors, Process Equip, & Piping Total	1	Lot		326,947			18,178,252		2,044,441		2,391,064		67,457	22,681,213
												EQUIPMENT REMOVAL TOTAL			37,957,687
	CORROSION-INHIBITING FIXATIVE-CAPITAL and OPERATING														
	CAPITAL COSTS														
1	Provide one each coating equipment (electric powered spray machine with hose delivery) per removal crew (3 each), plus 2 spares for a total of 5 units	5	EA					0		0	3,000	15,000		0	15,000

CORROSION-INHIBITING FIXATIVE

		PROJ. ESTIMATOR:	C. Oldham
TITLE Corrosion-Inhibiting Fixative	PROJECT LOCATION: Portsmouth, Ohio	DATE:	July 17, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT or UNIT RATE		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
2	Indirects @ 12%	12.0%													1,800
	CAPITAL SUBTOTAL-FY 2013 $														16,800
3	Capital cost-- Escalation-- FY 2013 to midpoint of facility construction --FY 2015 (2 years) @ 2.4%/year	4.9%	per cent										16,800	823	823
	Capital Total-Escalated $														17,623
	OPERATING COSTS														
	Operating costs for Corrosion-Inhibiting Fixative are additional to the Equipment Removal costs above. Assume additional support cost for Fixative operations consisting of the following crafts and materials. Assume an operating duration of 6 years at 2,080 hrs/year /employee (12,480 hours)														
1	Fixative material cost --- Use $4.00/SF coated. Process Equipment footage = 219,000 cy x 0.5 SF/cy x 27 CF/cy = 2,956,500 SF coated. Say 3.0 million SF	3,000,000	SF					0	4	12,000,000		0		0	12,000,000
2	D & D worker	2	EA	12,480	24,960	D/D	49.59	1,237,766		0		0		0	1,237,766
3	Laborer	2	EA	12,480	24,960	L	44.50	1,110,720		0		0		0	1,110,720
4	Equipment Operator	1	EA	12,480	12,480	OP	48.52	605,530		0		0		0	605,530
5	Supporting materials and equipment for the above labor crew at 10% of additional labor costs	1	Lot					0		0		0		295,402	295,402

CORROSION-INHIBITING FIXATIVE

												PROJ. ESTIMATOR:		**C. Oldham**	
TITLE	**Corrosion-Inhibiting Fixative**			**PROJECT LOCATION:**		**Portsmouth, Ohio**						**DATE:**		**July 17, 2013**	
Item				**LABOR**					**MATERIAL**		**EQUIPMENT**		**SUBCONTRACT or UNIT RATE**		
No.	**DESCRIPTION**	**QTY**	**UNIT**	**UNIT MH**	**TOTAL MH**	**CRAFT**	**$/MH**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**TOTAL ($)**
6	PPE Level D	62,400	Hrs						1.38	86,112		0		0	86,112
7	Equipment operating and maintenance--Allowance @ $500/ mo for 72 months	72	MO					0		0	500	36,000		0	36,000
8	Indirects @ 12%	12.0%													1,844,584
	Operating Total-FY 2013 $														17,216,113
9	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										17,216,113	2,634,065	2,634,065
	Operating Total- Escalated $														19,850,178
											FIXATIVE--CAPITAL and OPERATING TOTAL				**$ 19,867,802**
	DISPOSAL FACILITY-(includes Trucking)														
1	Use summary cost estimate (without long-term S&M) from "Alternative 2: On-site Disposal RI/FS -DFFO/CERCLA Case" for cost per cy of waste in FY 2013 dollars (1,300,000 cy).	219,000	CY					0		0		0	784	171,696,000	171,696,000
2	Procure a 100-ton crane	1	EA					0		0	900,000	900,000	0	0	900,000
3	Equipment Operations/Maintenance: Crane @ $12,250/month for the duration of the operation of 72 months	72	MO					0		0	12,250	882,000		0	882,000
4	Escalation to midpoint of X-333 and X-330 Deactivation--FY 2019 (6 years) at 2.4%/year	15.3%	per cent										173,478,000	26,542,134	26,542,134
											DISPOSAL FACILITY TOTAL				**200,020,134**
										CORROSION-INHIBITING FIXATIVE TOTAL					**$ 257,845,623**

APPENDIX H: FILL SOURCE EVALUATION FOR THE ON-SITE DISPOSAL COMPONENT OF ALTERNATIVE 2, THE COMBINED ON-SITE AND OFF-SITE DISPOSAL ALTERNATIVE

CONTENTS

FIGURES

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TABLE

ACRONYMS

D&D	decontamination and decommissioning
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DNAPL	dense nonaqueous phase liquid
DOE	U.S. Department of Energy
EC	engineering category
EPA	U.S. Environmental Protection Agency
FS	feasibility study
NPV	net present value
Ohio EPA	Ohio Environmental Protection Agency
OSDC	on-Site disposal cell
PCB	polychlorinated biphenyl
PORTS	Portsmouth Gaseous Diffusion Plant
RCRA	Resource Conservation and Recovery Act of 1976, as amended
RI	remedial investigation
ROD	Record of Decision
TCE	trichloroethene
WAC	waste acceptance criteria

H.1 INTRODUCTION

The permanent disposition of the Portsmouth Gaseous Diffusion Plant (PORTS) decontamination and decommissioning (D&D) waste in a potential new on-Site disposal cell (OSDC) requires a substantial quantity of structural fill soil ("fill") to achieve OSDC design and compaction requirements for waste placement. "Fill" in this appendix refers to engineering category (EC)-1 as defined in Section 1.1 of the main text of the Site-wide Waste Disposition Evaluation Remedial Investigation/Feasibility Study (waste disposition RI/FS). The potential construction of a new OSDC to compliantly dispose of the D&D waste that would result from the takedown of the PORTS buildings and structures is part of Alternative 2, the combined on-Site and off-Site disposal alternative, under evaluation in the waste disposition RI/FS. The waste disposition RI/FS is being conducted to satisfy requirements in *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O) (Ohio Environmental Protection Agency [Ohio EPA] 2012).

This appendix presents the results of a fill source evaluation study to identify and evaluate the options for obtaining fill in sufficient quantities to meet potential on-Site D&D waste placement needs, if Alternative 2 is selected for implementation in the waste disposition Record of Decision (ROD).

Alternative 2 is described in detail in Section 8.3.2 Description of Alternative 2 in the main body of the RI/FS report. The primary feature of Alternative 2 is the design and construction of a new OSDC in an area of the plant where the most favorable underlying geology is present to support an on-Site waste disposal approach. The intent of the fill source evaluation presented in this appendix is to identify a range of viable options (termed "process options") that can satisfy a potential OSDC's projected fill needs, and to then identify a representative process option for inclusion in the formulation of Alternative 2 to support the detailed alternative evaluation presented in Section 9 of the RI/FS report.

The concept of using representative process options to formulate and evaluate RI/FS alternatives is a fundamental tool recognized in the U.S. Environmental Protection Agency's (EPA's) *Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA* (EPA 1988). During the development of alternatives, "…technology processes (called process options) considered to be implementable are evaluated in greater detail before selecting one process to represent each technology type to simplify the subsequent development and evaluation of alternatives without limiting flexibility during remedial design. The representative process provides a basis for developing performance specifications during preliminary design; however, the specific process actually used to implement the remedial action at a site may not be selected until the remedial design phase." The fill source evaluation presented in this appendix adopts the representative process option concept, as recognized by the EPA RI/FS guidance, to arrive at the identified option for inclusion in Alternative 2. All viable process options, however, including the representative option, would remain available for consideration during remedial action selection, design, and implementation as necessary, consistent with the representative process option concept adopted by the RI/FS guidance.

H.1.1 PROJECTION OF OSDC FILL VOLUME REQUIREMENTS IN THE DEVELOPMENT OF ALTERNATIVE 2

Under Alternative 2, it is estimated that 1.078 million cy of D&D waste requiring fill (EC-2) would require placement in a potential OSDC. FS-level design calculations for a potential OSDC indicate that a 2:1 EC-1/EC-2 ratio would be required to achieve design and compaction requirements in the placement of the waste (2 cy of soil [EC-1] required for each cy of waste requiring fill [EC-2] placed in a potential OSDC). Using this target 2:1 ratio, there is a need for 2.156 million cy of fill to satisfy projected waste placement demands. The final EC-1/EC-2 ratio would be established during detailed remedial design, if Alternative 2 is selected as the preferred remedial action for the ROD. For FS-level planning purposes, however, the 2:1 ratio is considered representative and is used to support all calculations in the waste disposition RI/FS and this companion fill source evaluation appendix.

In the DFF&O (Para. 5(e)(3) and 5(e)(4)(ii)), residual soil is identified as soil which adheres to the equipment, structures, piping, building contents, concrete foundations, etc., while integral soil refers to soil that otherwise must be excavated as part of dismantlement, demolition, and removal activities, or as an integral part of a removal or remedial action pursuant to the DFF&O. It is estimated that 53,000 cy of "residual soil" (EC-1) would be generated concurrently with and as a consequence of demolition activities. The residual soil is primarily from adherence to slabs and subsurface structures, utility corridor excavations, and the need for laybacks to support removal of building foundations. The residual soil (EC-1) volume offsets a portion of the projected fill requirement, resulting in a net need for 2.103 million cy of fill. This 2.103 million cy net projection is used throughout this appendix to develop and evaluate process options for meeting the projected needs.

H.1.2 IDENTIFICATION OF PROCESS OPTIONS TO MEET PROJECTED FILL VOLUME REQUIREMENTS

The fill source evaluation considered the following range of viable process options to meet the 2.103 million cy projected OSDC fill volume requirements under Alternative 2:

- **Source Option 1:** Purchase clean fill from commercial off-PORTS sources (referred to as the "Buy" option).

- **Source Option 2:** Use on-PORTS clean soil obtained from one or more new on-PORTS soil borrow areas that would be developed within the boundaries of the PORTS reservation, including the possibility of borrow sources within the potential OSDC construction footprint itself (referred to as the "Make/Clean" option).

- **Source Option 3:** Use on-PORTS sources of non-D&D contaminated soil obtained from various areas of the plant (referred to as the "Make/Contaminated" option).

Each of these three source options is described in detail in Section H.2 and then evaluated in Section H.3. In Section H.4, the representative process option is identified, based on the overall evaluation. For orientation purposes, Figure H.1 shows the locations of the soil contamination areas (EC-1) at PORTS that are candidates for inclusion in developing Source Option 3, regardless of the regulatory authority required to excavate and dispose of the soil. Within the identified area there are several closed landfills or land disposal units, including X-231A, X-231B, X-749, X-749A, and X-749B. The identified areas also include many solid waste management units, some of which have not been fully characterized and were deferred under the Ohio Consent Decree.

H.1.3 APPROACH TO EVALUATING AND COMPARING FILL SOURCE OPTIONS

The source-option evaluation is conducted by first assessing the ability of each potential option to meet the engineering needs, quantity demands, and timing of the fill requirement. All three of the potential source options are considered able to meet the engineering needs, quantity demands, and timing, and are therefore identified as viable options for inclusion in the detailed evaluation.

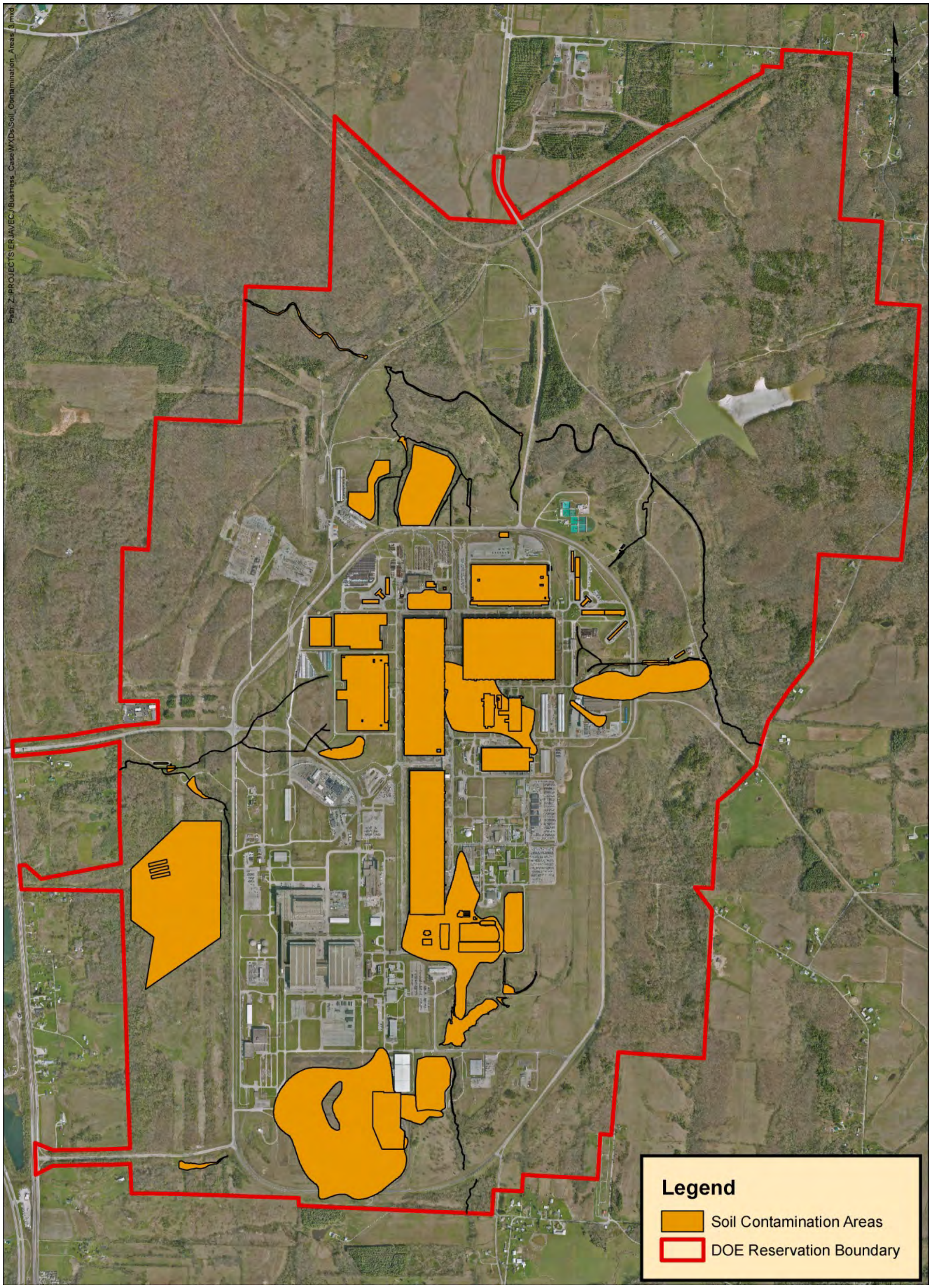

Figure H.1. Candidate Soil Contamination Areas for Consideration as Sources of Fill

The evaluation considers the cost of the three viable source options to support the identification of the representative option. This is presented in detail in Section H.3. The representative process option that is identified in Section H.4 of this appendix is then carried forward to support the formulation of waste-disposal Alternative 2.

Excavation of non-D&D contaminated soil for use as fill could impact areas that have undergone final or interim action under the Ohio Consent Decree. Those areas include landfills that have caps that would be removed if the underlying soil were used as a source of fill and areas with active groundwater interim remedies including monitoring wells and other components that could be impacted by fill excavation activities. The U.S. Department of Energy (DOE) would be required to seek and gain approval from Ohio EPA before undertaking any fill excavation activities that would impact such areas. Completing this process with Ohio EPA would increase the administrative requirements for implementing Alternative 2. Following completion of any fill excavation activities, any follow-on evaluation or remedial activities for affected areas would be conducted in accordance with the Ohio Consent Decree.

H.1.4 APPENDIX H ORGANIZATION

The remainder of Appendix H is organized into the following major sections and contents:

Section H.2	**Options to Obtain Fill for a Potential OSDC:** Describes each of the three source options individually and identifies the major potential sources of contaminated soil for inclusion in the development of Source Option 3.
Section H.3	**Cost Comparison of the Three Options to Obtain Fill:** Evaluates and compares the cost of the three options.
Section H.4	**Identification of the Representative Process Option:** Reviews the results of the evaluation and identifies the representative fill source option for inclusion in waste disposal Alternative 2 in the main body of the RI/FS report.

H.2 OPTIONS TO OBTAIN FILL FOR A POTENTIAL OSDC

As discussed in Section H.1.2, several viable options for obtaining fill are available, consisting of: (1) buying clean fill from off-PORTS sources; (2) excavating clean fill from on-PORTS source areas (e.g., site preparation activities in the potential OSDC footprint); and (3) excavating contaminated soil from various locations across the PORTS reservation. The following subsections describe these three primary options in detail.

H.2.1 SOURCE OPTION 1: BUYING CLEAN FILL FROM OFF-PORTS SOURCES

In this option, fill would be purchased from an off-PORTS vendor and managed by plant personnel for delivery into a potential OSDC, concurrent with waste placement activities within a potential OSDC.

As discussed in Section H.1.1, the volume of fill required is 2.103 million cy. Trucks would transport soil from a vendor facility to an approved clean stockpile area within a potential OSDC operations footprint and staged adjacent to a potential OSDC. When waste placement operations within a potential OSDC require fill, the requisite volume of soil would be transferred from the staging area into a potential OSDC. This operation is anticipated to be two-fold. Load-out operations would be conducted using “clean” heavy equipment to load the transport trucks. The transport trucks would be required to enter the waste areas within a potential OSDC and as such they would be considered “contaminated”, requiring segregation to prevent contaminating clean areas. This segregation of equipment would allow the fill staging area to remain clean, permitting the vendor to consistently operate unencumbered by radiological control operations associated with OSDC waste placement.

H.2.2 SOURCE OPTION 2: EXCAVATION OF CLEAN SOIL FROM ON-PORTS BORROW AREAS FOR USE AS FILL

This option considers the generation of clean soil from areas within the PORTS reservation for the creation of 2.103 million cy of fill. Specifically, the source area is the footprint of a potential OSDC where site preparation activities would generate soil and rock that can be amended with the soil to satisfy the fill requirements, along with other clean source areas at PORTS. The use of the materials generated from the construction of a potential OSDC was reviewed as a source due to the fact that the materials would be generated as part of OSDC construction activities and made readily available at that time.

During the construction of a potential OSDC, several million cubic yards of overburden soil and rock would be generated. The excess soil and rock would be stockpiled adjacent to the construction area, and this mixture of soil and rock would be processed into a product that would meet design specifications and could be used as fill. This processing would include such operations as screening and crushing, which add to the typical borrow area costs of simple excavation and transportation of clean material.

Processing would take place in a designated clean area near a potential OSDC. The rock from site preparation activities would be screened and crushed for size-reduction and then amended with the soil generated from those same site preparation activities, creating a usable and compactable material. When waste placement operations within a potential OSDC require fill, the requisite volume of soil would be transferred from the staging area into a potential OSDC.

This operation is anticipated to be two-fold. Screening and crushing operations would be conducted using “clean” heavy equipment to load the transport trucks. The transport trucks would be required to enter the waste areas within a potential OSDC, and as such they would be considered “contaminated”, requiring segregation to prevent contaminating clean areas. This segregation of equipment would allow the fill staging area to remain clean, permitting the plant personnel to consistently operate unencumbered by radiological operations.

H.2.3 SOURCE OPTION 3: EXCAVATION OF NON-D&D CONTAMINATED SOIL FROM ON-PORTS BORROW AREAS FOR USE AS FILL

Using non-D&D contaminated soil from various on-PORTS sources is a more complex option that requires a more detailed evaluation than the previous two options. The operational history at PORTS has resulted in the presence of surface and near-surface soil contamination areas, closed landfills, and contaminated groundwater areas. Together, these serve as the potential source(s) of contaminated fill for consideration in developing Source Option 3.

Surface and Near-Surface Soil Contamination Areas

There are various soil areas across the PORTS reservation that are expected to be contaminated as a result of historical plant operations, including, for example, the management of radiological and/or chemical materials or waste. The majority of these expected soil contamination areas are within Perimeter Road and are associated with the three main process buildings and the ancillary support facilities, while the remainder are just outside Perimeter Road and are associated with laydown or material staging areas. Although these soil areas have not yet been fully characterized, existing process knowledge and the available characterization conducted to date indicate these areas are viable sources of contaminated soil that could help satisfy fill quantity requirements for a potential OSDC.

Most of the contamination is expected to be limited to within the top few feet due to surficial contaminant deposition, with some contamination expected to be greater than 10 ft deep following preferential pathways near disturbed areas associated with subsurface structures. The estimated volume of non-D&D contaminated soil (EC-1) associated with these areas is 710,000 cy. The location and volume of the surface and near-surface soil contamination areas makes them ideal candidates for consideration under Source Option 3 to help satisfy the demands for fill.

Subsurface Soils Associated With On-PORTS Groundwater Contamination Areas

The contaminated subsurface soils that are in contact with contaminated groundwater at PORTS (EC-1) are the largest source of contaminated fill available for consideration in developing Source Option 3, and could complement the estimated 710,000 cy of potential fill projected to be available from the surface and near-surface soil contamination areas discussed above. While DOE does not expect to excavate Ohio Consent Decree plumes for groundwater remediation, those areas may be used to obtain additional fill. This subsection describes the five groundwater contamination areas at PORTS and identifies the subsurface contaminated soil quantities within the groundwater contamination areas that could serve as a source of fill for further consideration in developing Source Option 3 to achieve the 2.103-million-cy projected fill demand.

There are five general groundwater contamination areas at PORTS: X-701B, X-740, X-749/120, 7-Unit, and 5-Unit. Trichloroethene (TCE) is the primary contaminant in the groundwater. Based on the sizes and concentrations of TCE contamination observed in the groundwater, it is evident that in certain circumstances TCE has entered the subsurface as free-phase dense nonaqueous phase liquid (DNAPL) and created dissolved TCE groundwater plumes in the Gallia sand and gravel formation. In certain circumstances, DNAPL may have also accumulated in the weathered portion of the Sunbury shale formation below the Gallia sand and gravel formation, as illustrated in Figure H.2.

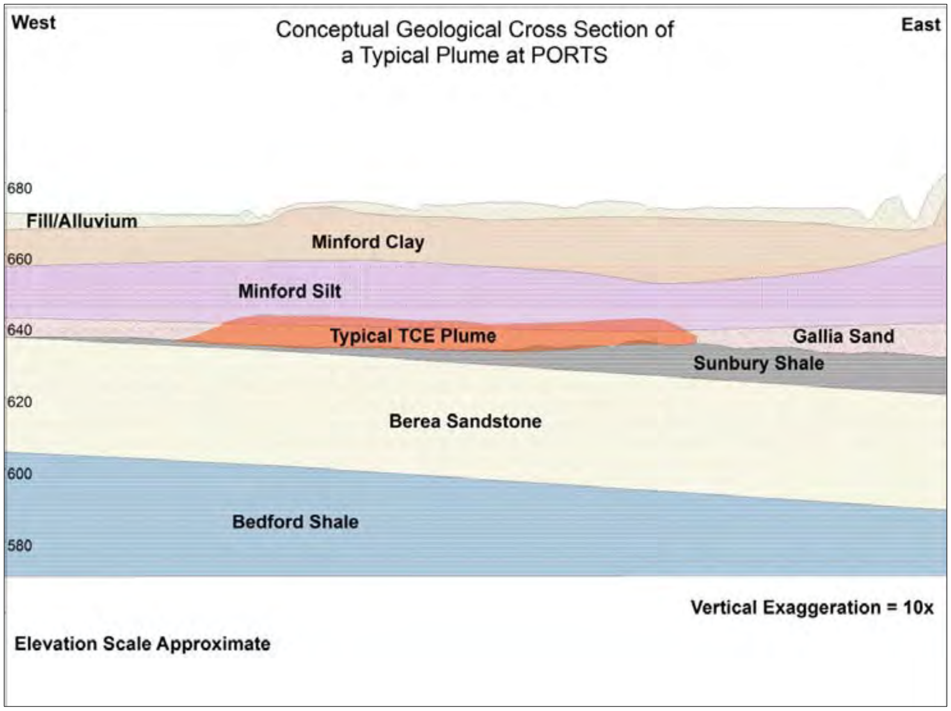

Figure H.2. Example of Cross Section of Typical Plume (not to scale)

The highest-concentration dissolved TCE groundwater contamination locations in the five groundwater contamination areas (and the areas where DNAPL contamination may be present) are the highest priority areas considered in this evaluation for obtaining contaminated fill from the groundwater contamination areas (EC-1).

An evaluation of the fill available from the subsurface soils in each of the five groundwater contamination areas is summarized below. The sources of this information are the PORTS Geographical Information System and interpretations of geological cross sections.

X-701B Groundwater Area

The X-701B soil contamination area that is impacted by the groundwater unit is generally defined as a roughly 7 ft thick Gallia Formation, plus 1 ft of overlying Minford silt sitting atop the Sunbury shale. This layer of contaminated soil, on average, is approximately 22 ft below ground surface and is beneath layers of alluvium, Minford clay, and the majority of the Minford silt. (Together these layers comprise the overburden material.)

Using the thickness of approximately 7 ft, the volume of contaminated soil within this area is 267,000 cy. Overlying that same area, the volume of overburden material is 719,000 cy.

In the X-701B area, the primary constituents of contamination concern are TCE and its degradation products. However, there also is a minor presence of polychlorinated biphenyls (PCBs), Resource Conservation and Recovery Act of 1976, as amended (RCRA) metals, and limited radionuclides (uranium and technetium-99).

X-740 Groundwater Area

The X-740 soil contamination area that is impacted by the groundwater unit is generally defined as a roughly 4-ft-thick Gallia Formation, plus 1 ft of overlying Minford silt sitting atop the Berea. This layer of contaminated soil, on average, is approximately 29 ft below ground surface and is beneath layers of alluvium, Minford clay, and the majority of the Minford silt (combined comprises the overburden material).

Using the thickness of approximately 4 ft, the volume of contaminated soil within this area is 15,000 cy. Overlying that same area, the volume of overburden material is 68,000 cy.

In the X-740 area, the primary constituents of contamination concern are TCE and its degradation products.

X-749/120 Groundwater Area

The X-749/120 soil contamination area that is impacted by the groundwater unit is generally defined as a roughly 6-ft-thick Gallia Formation, plus 1 ft of overlying Minford silt sitting atop the Sunbury shale. This layer of contaminated soil, on average, is approximately 19 ft below ground surface and is beneath layers of alluvium, Minford clay, and the majority of the Minford silt (combined comprises the overburden material).

Using the thickness of approximately 6 ft, the volume of contaminated soil within this area is 643,000 cy. Overlying that same area, the volume of overburden material is 1,367,000 cy.

In the X-749/120 area, the primary constituents of contamination concern are TCE and its degradation products. However, PCBs, RCRA metals, and limited radionuclides (uranium and technetium-99) also are present.

7-Unit Groundwater Area
The 7-Unit soil contamination area that is impacted by the groundwater unit is generally defined as a 9-ft-thick Gallia Formation, plus 2 ft of overlying Minford silt sitting atop the Sunbury shale. This layer of contaminated soil, on average, is approximately 30 ft below ground surface and is beneath layers of alluvium, Minford clay, and the majority of the Minford silt (combined comprises the overburden material).

Using the thickness of approximately 9 ft, the volume of contaminated soil within this area is 278,000 cy. Overlying that same area, the volume of overburden material is 789,000 cy.

In the 7-Unit area, the primary constituents of contamination concern are TCE and its degradation products. However, there also is a minor presence of technetium-99.

5-Unit Groundwater Area
The 5-Unit soil contamination area that is impacted by the groundwater unit is generally defined as a roughly 7-ft-thick Gallia Formation, plus 1 ft of overlying Minford silt sitting atop the Sunbury shale. This layer of contaminated soil, on average, is approximately 27 ft below ground surface and is beneath layers of alluvium, Minford clay, and the majority of the Minford silt (combined comprises the overburden material).

Using the thickness of approximately 7 ft, the volume of contaminated soil within this area is 292,000 cy. Overlying that same area, the volume of overburden material is 903,000 cy.

In the 5-Unit area, the primary constituents of contamination concern are TCE and its degradation products.

Several of the subsurface contamination areas described above include landfills that are positioned on top of the subsurface contaminated soil. These landfills contain contaminated soil (EC-1) along with waste requiring fill (EC-2). These landfills could also serve as a potential source of fill for a potential OSDC.

H.2.3.1 Assessment of Non-D&D Contaminated Soil as Fill Quantities for Developing Source Option 3

As discussed in Section H.1.1, the volume of fill required for a potential OSDC is 2.103 million cy in order to meet the waste placement requirements. The majority of contaminated soil on the PORTS reservation that would serve to satisfy this fill requirement would need to originate from the subsurface soil associated with the groundwater contamination areas (EC-1), supplemented with the estimated 710,000 cy of contaminated soil projected to be available from the surface and near-surface soil contamination areas (EC-1).

Landfills that would be potential sources of contaminated fill (EC-1 and EC-2) are located over or adjacent to two of the previously discussed soil contamination areas associated with the groundwater contamination. These landfills, X-231A, X-231B, X-749, X-749A, and X-749B, in general, have clean material (soil) serving as their associated caps, and the groundwater contamination areas have a relatively thick stratum of clean overburden overlying the subsurface contaminated soil. The approach for dealing with the clean cap and overburden soil is discussed in detail in the following section (Section H.2.3.2).

The landfills in question would have to be removed to provide access to the soil contamination areas associated with the groundwater contamination areas. These landfills contain, in total, approximately 223,000 cy of waste requiring fill (EC-2) and an estimated 345,000 cy of contaminated soil (EC-1) beneath their caps. At the expected 2:1 EC-1/ EC-2 ratio, use of the landfills would require an additional 446,000 cy of fill in order to be placed in a potential OSDC. Therefore, the fill requirement under Source Option 3 is increased by 101,000 cy (from 2.103 million cy to 2.204 million cy) after accounting for both the contaminated soil (EC-1) and also the waste requiring fill (EC-2) anticipated to be encountered during excavation of the landfills.

Table H.1 identifies the fill needs associated with Source Option 3 and outlines the proposed scenario for use of contaminated soil to meet those fill needs. Table H.1 is organized to present the waste volume requiring fill (EC-2) expected to be generated from the five targeted contaminated soil areas, in addition to the waste volumes requiring fill that would be generated from the D&D of the buildings (EC-2). The table then provides a breakdown of the additional soil (EC-1) required for placement of the additional waste requiring fill (EC-2) in the proposed OSDC. The volume of soil expected to be generated from the excavation of the landfills is then compared to the soil volume required for placement and the remaining soil needs are listed. The final column of the table goes on to show how contaminated soil would be used to balance all needs. The breakdown presented in this table summarizes the detailed planning that has been used in the development of Source Option 3. The table confirms that the use of contaminated soil under Source Option 3 can meet the projected fill requirements of a potential OSDC, even when the additional waste requiring fill from the landfills is considered.

H.2.3.2 Implementation Approach for Source Option 3

For Source Option 3, the intent is to cost-effectively satisfy the fill requirements for a potential OSDC using contaminated soil as the source of the fill. This intention considers that an area-by-area excavation process would be implemented — targeting the abundant source of contaminated subsurface soil associated with the groundwater contamination areas as the primary source of fill, and supplemented with the contaminated soil available from the surface and near-surface soil contamination areas. As described above in Section H.2.3.1, each of the subsurface fill sources associated with the groundwater areas lies beneath a “layer” of clean overburden soil. Therefore, the clean overburden materials would be removed and stockpiled in an adjacent and approved location for later use as backfill for the contaminated subsurface soil excavation area.

Several of the subsurface contamination areas include historical landfills that are positioned on top of the subsurface contaminated soil. These landfills, as encountered, would be excavated to the extent of their documented or delineated boundaries and depths with excavation continuing into the contaminated subsurface soil associated with groundwater contamination in order to obtain the required volumes from each area needed to satisfy the 2.204-million-cy projected fill demand.

Similar to the clean overburden associated with the subsurface contaminated soils, the landfills have caps constructed of clean soil, which would be stockpiled and utilized in the same manner as the aforementioned clean overburden. For purposes of cost analysis, the majority of the contaminated waste requiring fill (EC-2) encountered within the exposed landfills is assumed to meet the expected waste acceptance criteria (WAC) for a potential OSDC and waste meeting such WAC would be disposed at a potential OSDC. The landfills also contain contaminated soil (EC-1), which DOE anticipates using as fill to support waste placement in a potential OSDC.

Table H.1. Contaminated Source Areas for OSDC Fill under Source Option 3

Source Area	Waste Requiring Fill (EC-2) (cy)	Fill (EC-1) Required at 2:1 Ratio (cy)	Residual Soil (EC-1) (cy)	Contaminated Soil from Landfills (EC-1) (cy)	Net Fill (EC-1) Required (cy)	Contaminated Soil from Surface, Near Surface, and Subsurface Areas to be Used as Fill (EC-1) (cy)
Building Waste	1,078,000	2,156,000	53,000	--	2,103,000	--
Subtotal	***1,078,000***	***2,156,000***	***53,000***		***2,103,000***	--
Surface and Near-Surface Soil Contamination Areas	--	--	--	--		710,000
X-701B Groundwater Area Subsurface Soil	--	--	--	--		267,000
X-740 Groundwater Area Subsurface Soil	--	--	--	--		15,000
X-749/120 Groundwater Area Subsurface Soil *(beneath the X-749 & X-749B Landfills)*	204,000	408,000	--	200,000	208,000	642,000
7-Unit Groundwater Area Subsurface Soil	--	--	--	--		278,000
5-Unit Groundwater Area Subsurface Soil *(beneath the X-231A&B and X-749A Landfills)*	19,000	38,000	--	145,000	-107,000	292,000
Subtotal	***223,000***	***446,000***	***0***	***345,000***	***101,000***	***2,204,000***
Grand Total	**1,301,000**	**2,602,000**	**53,000**	**345,000**	**2,204,000**	**2,204,000**

EC = engineering category

Any waste that did not meet the approved OSDC WAC would be sent off Site for treatment and/or disposal, as required.

Following completion of excavation of selected landfills and/or groundwater plumes, the set aside clean overburden from the same area would be used to backfill the excavated area. The filled footprint would be graded to drain. Following this excavation, backfill with the clean overburden soil, and re-grading process, there would not be deep holes and/or steep slopes left in the excavated areas. Range of the final soil surface contours within the Perimeter Road would be within approximately 10 ft and still relatively flat. The re-graded contours would also promote surface water drainage in a pattern similar to the pre-excavation conditions, so future surface water flow rates in the existing surface water drainage areas would not be significantly impacted. Based on preliminary cut and fill calculations, this final site condition can be achieved without importing clean fill.

H.3 COST COMPARISON OF THE THREE SOURCE OPTIONS FOR OBTAINING FILL

Each of the three source options (“Buy,” “Make/Clean,” and “Make/Contaminated”) to obtain fill (EC-1) for a potential OSDC has been estimated independently from each other, allowing their costs to be used in concert with the remaining costs associated with Alternative 2, to provide an assessment of each source option’s impact on Alternative 2.

H.3.1 SOURCE OPTION 1: “BUY” OPTION

The total estimated cost of Source Option 1 is $50 million, which is built up by the estimated purchase price of approximately $11/cy at 2.1 million cy, equaling $24 million for the materials with an additional $26 million for handling on-Site stockpile management, and placing with the contaminated D&D waste. In order to evaluate all options on equal ground, this constant dollar cost was converted into net present value (NPV), as recommended in EPA’s Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, cost-estimating guidance (EPA 2000). With that, the NPV for the use of purchased clean soil as fill in a potential OSDC is $43 million.

H.3.2 SOURCE OPTION 2: “MAKE/CLEAN” OPTION

The total estimated cost of Source Option 2 is $61 million, which is built up by the estimated cost of the screening and crushing of the excavated rock at $52 million. The remaining $9 million is attributed to the transportation and use as fill. For the same reasons as stated above, this estimate was converted into NPV, resulting in a cost estimate of $53 million.

H.3.3 SOURCE OPTION 3: “MAKE/CONTAMINATED” OPTION

The total estimated cost of Source Option 3 is $299 million. This cost is built up by $136 million associated with excavation of the non-D&D contaminated soil as well as the staging and replacement of the clean overburden and caps. The remaining $163 million is attributed to the transportation and use as fill. As stated earlier, to provide an accurate comparison to the other options, the cost was converted into NPV. This results in an NPV cost estimate of $251 million for this option in total.

H.4 IDENTIFICATION OF THE REPRESENTATIVE PROCESS OPTION

In consideration of the three options evaluated in this appendix, Source Option 3 is identified as the representative process option to carry forward into Alternative 2 in the main body of the RI/FS report.

As the representative process option, Source Option 3 utilizes both the contaminated surface and near-surface soils and the subsurface soils from PORTS' groundwater contamination areas as the primary sources of OSDC fill — coupled with the concurrent removal of historical landfills from within the boundaries of Perimeter Road (EC-1 and EC-2).

In the short term, Source Option 3 has a higher cost compared to the clean fill options represented by Source Options 1 and 2. However, Source Option 3 has the potential to beneficially impact the final groundwater remedial actions that would be conducted under the Ohio Consent Decree and reduce the potential cost of such actions.

H.5 REFERENCES

EPA 2000, *A Guide to Developing and Documenting Cost Estimates During the Feasibility Study*, EPA 540-R-00-002, OSWER 9355.0-75, U.S. Environmental Protection Agency, Washington, D.C., July.

EPA 1988, *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA*, EPA/540/G-89/004, OSWER Directive 9355.3-01, U.S. Environmental Protection Agency, Washington, D.C., October.

Ohio EPA 2012, *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*, Ohio Environmental Protection Agency, Columbus, OH, July 16.

APPENDIX I: DRAFT PERFORMANCE-BASED ACTIVITY AND CHEMICAL CONCENTRATION WASTE ACCEPTANCE DEVELOPMENT CRITERIA

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ACRONYMS

ACM	asbestos-containing material
AMSL	above mean sea level
ARAR	applicable or relevant and appropriate requirement
ATSDR	Agency for Toxic Substances and Disease Registry
AWQC	ambient water quality criteria
California EPA	California Environmental Protection Agency
COC	contaminant of concern
CSM	conceptual site model
D&D	decontamination and decommissioning
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE	U.S. Department of Energy
EC	engineering category
ELCR	excess lifetime cancer risk
EPA	U.S. Environmental Protection Agency
FML	flexible membrane liner
FS	feasibility study
GCL	geosynthetic clay liner
HDPE	high-density polyethylene
HELP	Hydrologic Evaluation of Landfill Performance
MCL	maximum contaminant level
NRC	U.S. Nuclear Regulatory Commission
OAC	*Ohio Administrative Code*
ODNR	Ohio Department of Natural Resources
Ohio EPA	Ohio Environmental Protection Agency
OSDC	on-Site disposal cell
PCB	polychlorinated biphenyl
PGE	process gas equipment
POA	point of assessment
POC	point of compliance
PORTS	Portsmouth Gaseous Diffusion Plant
RAIS	Risk Assessment Information System
RC	regulatory category
RCRA	Resource Conservation and Recovery Act of 1976 (as amended)
RCW	recirculating cooling water
RI	remedial investigation
RMD	Risk Methods Document
SAP	sampling and analysis plan
STOMP	Surface Transport Over Multiple Phases
SVOC	semivolatile organic compound
TCLP	Toxicity Characteristic Leaching Procedure
3-D	three-dimensional
TPMC	Theta Pro2Serve Management Company, LLC
VOC	volatile organic compound
WAC	waste acceptance criteria
WHO	World Health Organization

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Decontamination and decommissioning (D&D) and waste disposition planning activities at the U.S. Department of Energy (DOE) Portsmouth Gaseous Diffusion Plant (PORTS) include the evaluation of on-Site waste disposal (Alternative 2) within an engineered on-Site disposal cell (OSDC) designed, constructed, operated, and closed to safely dispose of waste that would meet waste acceptance criteria (WAC) developed for such a potential OSDC. Waste that does not meet the WAC of such a potential OSDC would either be treated to meet the WAC or be disposed off Site at a DOE-approved waste disposal facility.

In accordance with *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O) (Ohio Environmental Protection Agency [Ohio EPA] 2012), the Remedial Investigation (RI)/Feasibility Study (FS) is to include draft WAC. Per the DFF&O, WAC means "the criteria developed by Respondent with community input and approved by Ohio EPA which specify standards that must be met by each waste prior to its acceptance into any on-site disposal facility." WAC are the criteria which specify standards that must be met by each waste prior to its acceptance into a specific on-Site disposal facility. The WAC are comprised of prohibitions resulting from applicable or relevant and appropriate requirements (ARARs), as well as DOE operational decisions, and the six DFF&O components defined in Paragraph 5.mm as: (1) activity criteria and chemical concentration criteria, (2) waste evaluation and characterization standards, (3) waste physical characteristics standards, (4) waste packaging standards, (5) waste safe handling standards, and (6) waste transportation standards. A waste stream must meet each component before being allowed to be disposed in a potential OSDC.

The activity and chemical concentration WAC consider both results from fate and transport modeling to determine levels to ensure long-term protectiveness (performance-based criteria) and regulations that specify concentration limits for waste that may be placed in a potential OSDC. This appendix presents the fate and transport modeling completed to develop performance-based activity and chemical concentration WAC (referred to as modeled WAC).

I.1. INTRODUCTION

These performance-based activity and chemical concentration WAC (modeled WAC), are based on compliance with the long-term protectiveness requirements for a potential OSDC by applying fate and transport analysis conducted using conceptual design elements of a potential OSDC and industry-accepted groundwater and dose modeling approaches In development of draft modeled WAC, site-specific information obtained in accordance with the *Geotechnical Sampling and Analysis Plan for the Sitewide Waste Disposition Evaluation Project at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2011a), referred to as the Geotechnical Sampling and Analysis Plan (SAP), such as hydraulic conductivity, distribution coefficient (K_d) values, etc., was used. Absent site-specific values, model default values, literature values, or values used in the PORTS-wide groundwater model, were used for the analysis and modified for specific geologic strata based on the site-specific uranium K_d relationships observed in the data. The modeling approaches used for this analysis are consistent with those described in *Work Plan for Modeling Analysis in Support of Regulatory Decisions at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2011b).

I.2. REPRESENTATIVE OSDC LOCATION

I.2.1 REPRESENTATIVE LOCATION SELECTION AND FIELD INVESTIGATIONS

Appendix D of the *Remedial Investigation and Feasibility Study Report for the Site-wide Waste Disposition Evaluation Project at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio*, referred to hereafter as the waste disposition RI/FS, presents an analysis of four potential areas for siting a potential OSDC at PORTS, Study Areas A, B, C, and D (Figure I.1). Selection of a representative location, as well as development of a potential OSDC, requires data on hydrogeologic and geochemical properties of soil and rock for subsurface flow and transport modeling and modeled WAC development. Geotechnical data are also needed to determine soil properties such as subsidence, compaction, and permeability.

For these data collection efforts, several intrusive field methods were used to obtain the required geotechnical, geochemical, and analytical data, as outlined in the Geotechnical SAP (DOE 2011a). These methods include, but are not limited to, cone penetration testing, drilling in both unconsolidated and bedrock formations to collect soil samples for geotechnical and geochemical testing, and installation of monitoring wells and piezometers.

The Geotechnical SAP was written to ensure that the field investigation and sampling were performed in a technically acceptable manner. The specific types of data collected included the following:

- Hydrogeologic data such as depth to groundwater and vertical permeability for evaluating sites for a potential OSDC
- Geochemical data such as contaminant adsorption coefficients and fraction of organic carbon in soil to support modeling
- Geotechnical and analytical data from the four RI/FS study areas being evaluated
- Investigation of nearby surface water streams and installation of test pits to observe subsurface conditions.

Appendix D of the waste disposition RI/FS report evaluates the information available about each of the potential study areas. On the basis of geology, constructability, and public input, Study Areas A and B were removed from consideration. Study Areas C and D provide a superior level of protection and therefore were considered further. Study Area D in the northeast portion of the PORTS Facility was selected as the representative location for modeled WAC development because of the geology as well as improved operations and capacity for a facility at this location.

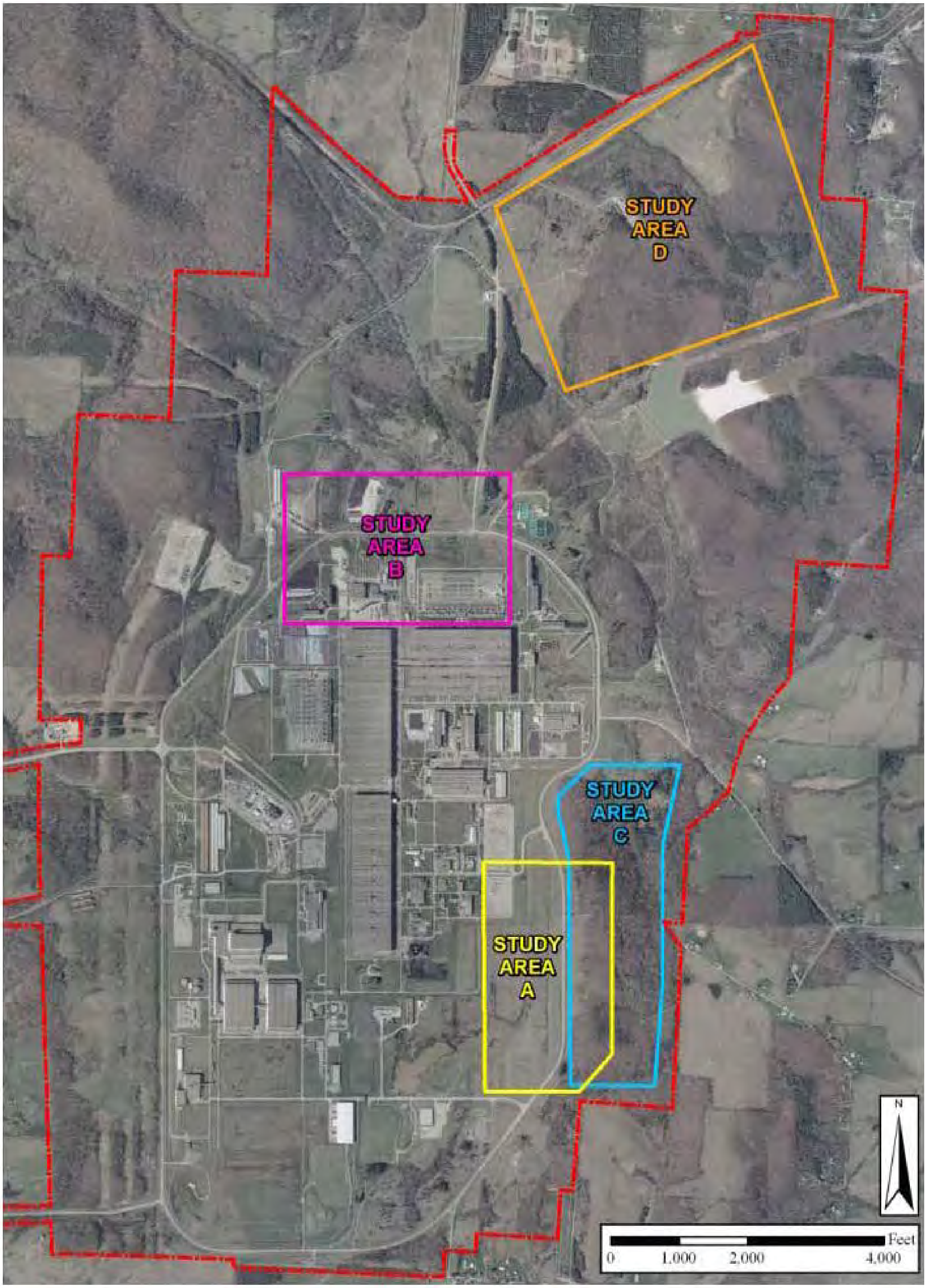


Figure I.1. Potential Study Areas for Waste Disposal at PORTS

I.2.2 HYDROGEOLOGIC CONDITIONS

A general cross section of the geology and hydrogeology of the PORTS study areas and the relative position of Study Area D are shown in Figure I.2.

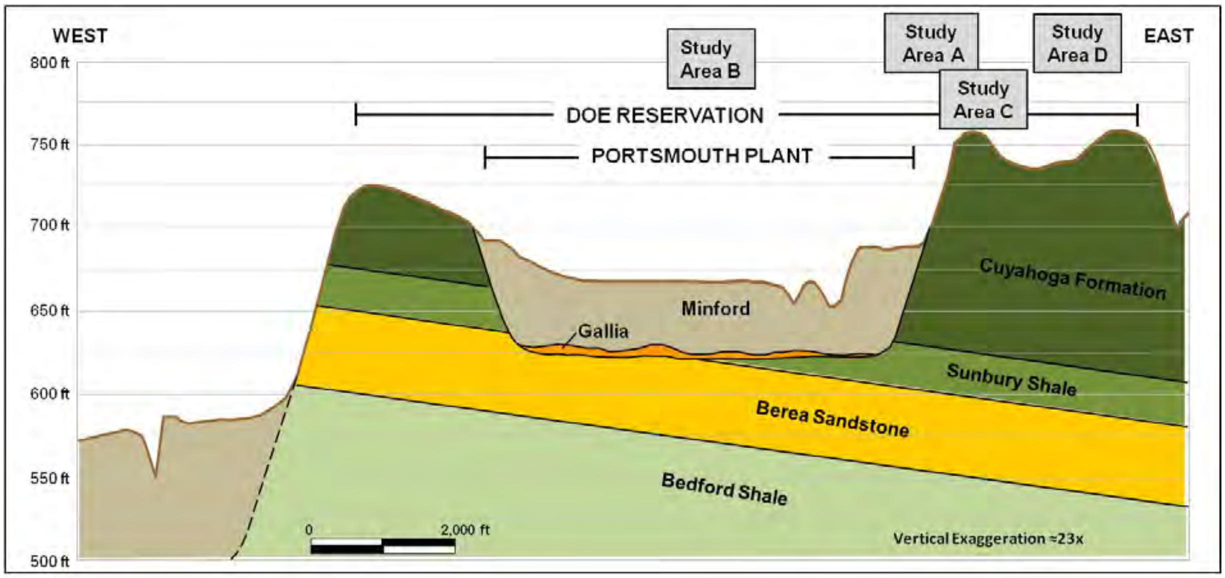


Figure I.2. Geological Cross Section of the PORTS Facility

Study Area D lies in an upland area predominantly outside the ancestral Portsmouth River valley. Stratigraphic units from oldest to youngest in age (Upper Devonian and Mississippi strata) include the Bedford shale, Berea sandstone, Sunbury shale, and Cuyahoga Formation. The Quaternary Teays Formation (Minford Member/Gallia Member) unconformably overlies the bedrock within the ancestral valley and pinches out on the western and northern flanks of the uplands.

The northern and western portions are underlain by the Minford/Gallia whereas most of the study area is underlain by the Cuyahoga Formation. Figure I.3 is a three-dimensional (3-D) representation of the major geologic formations at Study Area D. The depth to bedrock in Study Area D ranges from less than 10 ft in the upland areas to up to 40 ft deep on the western and northern boundaries. The Cuyahoga Formation is overlain by a combination of a thin veneer of Minford silt/clay and residual soil developed on the bedrock. The maximum thickness of the Cuyahoga Formation is estimated to be up to 120 ft where the uplands are at their greatest height. The Cuyahoga Formation is a moderately hard, thinly laminated shale with sandstone laminations. The Cuyahoga at Study Area D contains numerous thin (less than 3-in. thick) sandstone layers, and borings indicate a 2-ft-thick sandstone layer at an approximate elevation of 680 ft above mean sea level (AMSL). This layer is continuous across the study area. The sandstone layer extends outside of the study area eastward. This 2-ft-thick sandstone layer may be correlated to the 5-ft-thick “670 Sandstone Unit” at the Pike Sanitation, Inc. landfill located approximately 5 miles north-northwest of Study Area D (both units occur 30 to 40 ft above the contact between the Cuyahoga and Sunbury). Figure I.4 is a representation of the geologic formations at Study Area D showing the 2-ft-thick sandstone layer existing beneath Site D within the Cuyahoga shale and outcrops at several locations along the edges of the hillside, as well as the extent of this layer outside the DOE boundary. Currently, the water elevation in the X-611B Sludge Pond is approximately 680 ft AMSL, which is mostly above the elevation of the expected sandstone outcrops along the northern edge of the pond (approximately 675 – 681 ft AMSL). However, the assumed future condition of the X-611B Sludge Pond is that the water is drained and the remaining lime deposits are covered with soil to a final elevation at or below the elevation of the sandstone outcrops. This provides a natural discharge pathway from the sandstone layer.

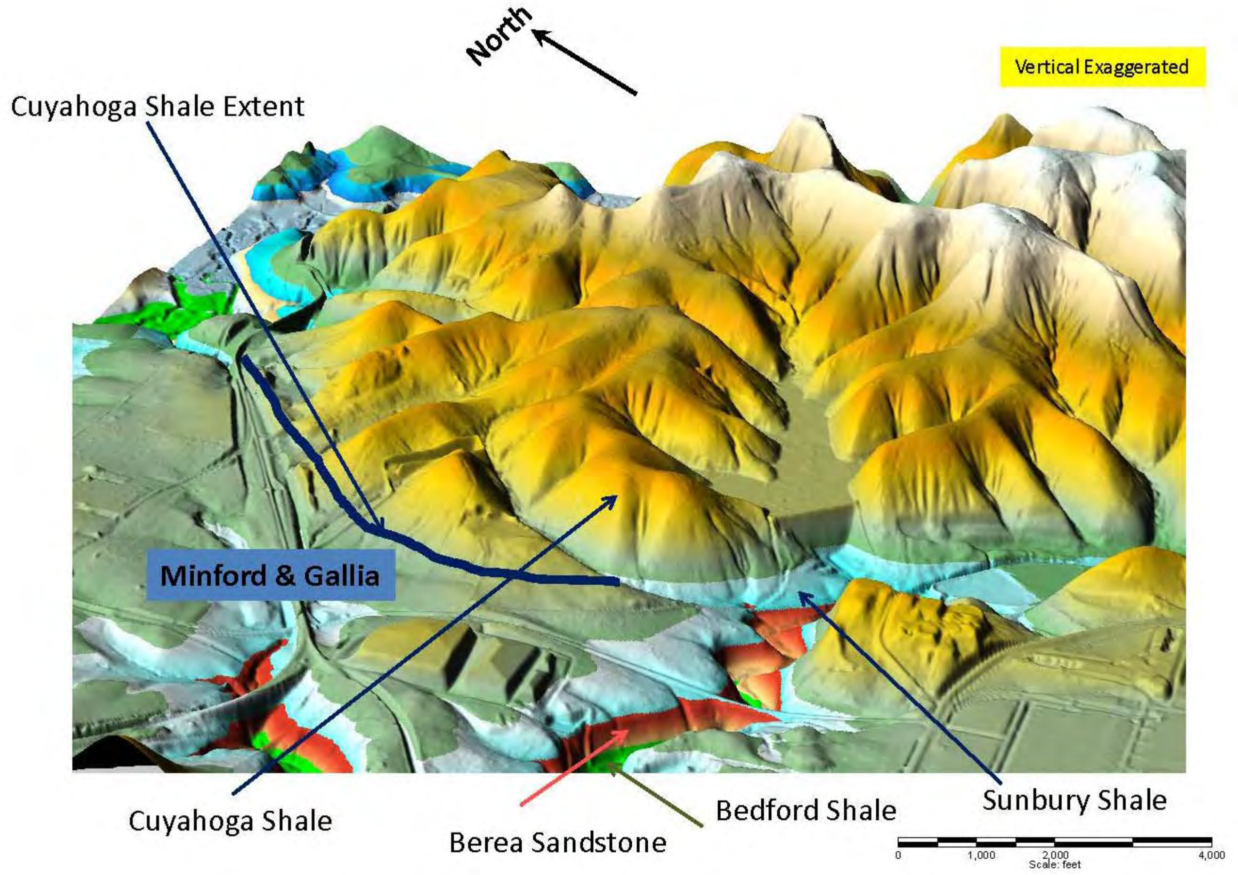


Figure I.3. Three-Dimensional Representation of Geologic Units at Site D

The Cuyahoga Formation also contains other thin, discontinuous sandstone layers with several layers occurring near the 720-ft AMSL horizon. These sandstone units are thinner (average approximately 0.5 ft thick) than the 680-ft sandstone layer and are not readily correlated from one boring to the next. These upper Cuyahoga Formation sandstone units have been grouped into geologic facies based on the presence of the different sandstone layers. The individual sandstone layers that comprise the 720-ft sandstone facies are difficult to correlate from boring to boring and do not appear to be continuous across Study Area D. Saturated conditions within the 720-ft sandstone facies appear to be limited or localized near the shallow hill slope area on the eastern side of the site.

The Cuyahoga is underlain by the Sunbury shale (approximately 20 ft thick) and the Berea sandstone (average thickness of approximately 35 ft) in the PORTS area. The Berea is composed of a light gray, hard, thickly bedded, fine-grained sandstone with thin shale laminations. The Berea sandstone overlies the Bedford shale. The bedrock formations dip gently to the east-southeast at approximately 30 ft/mile.

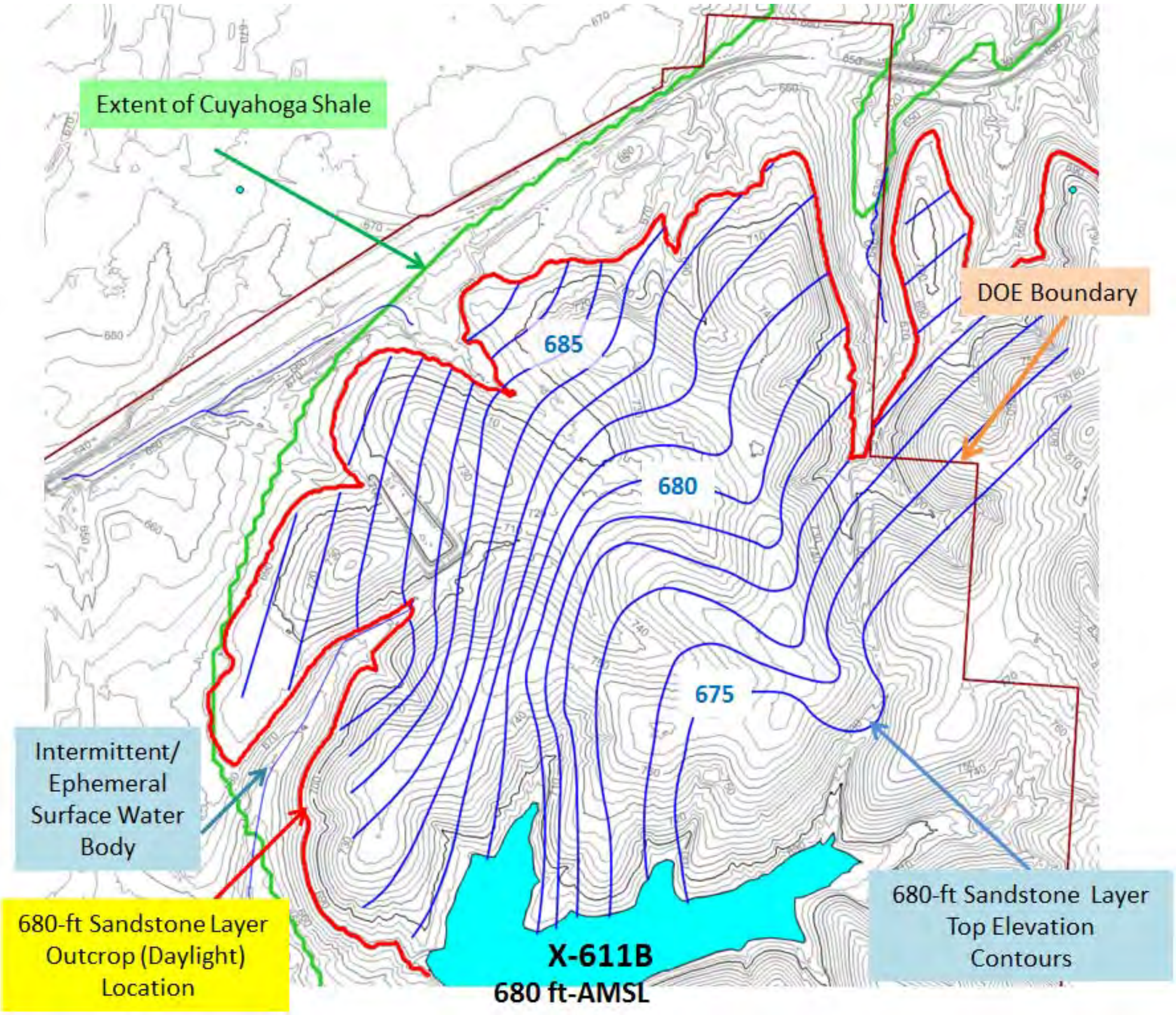


Figure I.4. Cuyahoga Shale and the Sandstone Layer Distribution and Exposure at Study Area D

The groundwater flow system at Study Area D includes the aquifers of the unconsolidated Gallia sand and gravel and the Berea sandstone, along with the aquitards of Cuyahoga/Sunbury shale, Bedford shale, and unconsolidated Minford clay and silt. The basal portion of the Minford is generally grouped with the Gallia to form the uppermost and primary aquifer beneath the industrial portion of PORTS. The Minford/Gallia are found only in the western and extreme northern portions of the study area and are absent in the upland areas where a potential OSDC would likely be located.

Natural recharge to the groundwater flow system comes mainly from precipitation, although land use and the presence of the bedrock shale units effectively reduce recharge to underlying units. Discharge of groundwater to the surface occurs primarily along streams that transect the plant. Natural recharge to the central portion of the plant is approximately 4 to 7 in./yr whereas recharge in the uplands, such as those at Study Area D (areas underlain by shale bedrock), is only 2 to 4 in./yr (Ohio Department of Natural Resources [ODNR] 2003). The recharge is less in the upland areas because of topography and low permeability of the bedrock and residual clayey soil. Water that infiltrates through the residuum likely moves laterally upon reaching the base of the deeply weathered zone because of the very low vertical permeability of the unweathered Cuyahoga Formation (1E-03 to 1E-05 ft/day).

Groundwater flow in the Gallia is essentially toward Little Beaver Creek and an unnamed tributary to Little Beaver Creek that lies west of the study area. The hydraulic gradient in the Gallia is low (ranging from less than 0.004 ft/ft to 0.015 ft/ft) with the steeper gradients existing closer to the discharge areas. Horizontal gradients measured in the Gallia during an 8-month period in 1994 averaged 0.0041 ft/ft. In the far western portion of Study Area D, groundwater flow in the Berea is towards the south-southwest, also discharging to Little Beaver Creek, with a gradient varying from less than 0.002 to 0.004 ft/ft (Figure D.26 in Appendix D of the waste disposition RI/FS report). Also, horizontal gradients measured at the same time in the Berea averaged 0.0025 ft/ft, slightly lower than that measured in the Gallia. Monitoring wells in the western portion of Study Area D showed no difference in water level elevation between the Gallia and Berea and suggest free groundwater exchange between the two units in this area. Within the remaining portion of Study Area D, groundwater flow in the Berea is predominantly eastward with a horizontal hydraulic gradient of approximately 0.006 ft/ft.

The thin sandstone layer within the Cuyahoga Formation may provide a significant zone of saturation. It appears saturated in portions of Study Area D. The horizontal permeability determined on tests of Berea sandstone cores ranges from 5.4E-03 to 9.9E-02 ft/day with a mean value of 2.0E-02 ft/day. Vertical permeability was slightly less than horizontal permeability with a mean value of 1.0E-02 ft/day. Based on tests of Berea cores from the X-737 area, the horizontal conductivity varied from 1 to 2.5 times greater than the vertical conductivity. Porosity of the Berea, measured in the western portion of Site D, was approximately 15 to 20 percent.

Borehole geophysical tools were used in selected soil borings at Study Area D to investigate the possible existence of fractures in the bedrock. An acoustic televiewer log was used because of its capability to provide an image similar to that of a video camera, and to provide azimuth and dip information for fractures and bedding structures. The data from this tool, used in conjunction with other geophysical tools described below, provided the location and orientation information for features such as fractures and lithologic contacts.

A suite of geophysical logs was collected in each piezometer in Study Area D, including caliper, natural gamma, single-point resistance, normal and lateral resistivity, and the digital acoustic televiewer. Variations in the resistance, resistivity, and natural gamma logs, in conjunction with the caliper and acoustic televiewer log responses, allowed the identification of lithologic changes and geologic features in the bedrock. Bedding plane fractures were noted at the upper bedding contact of the 2-ft-thick sandstone layer in piezometers WD-PZ08C and WD-PZ13C. No additional fractures or joints were identified in the geophysical logs. Additionally, a vertical fracture appears to exist as evidenced in WD-PZ09C, based on the geophysical log for this boring.

To visually assess the shallow subsurface bedrock features, a rock trencher was used to cut two vertical trenches in the bedrock (Cuyahoga shale) at two locations prior to excavating the rock between the trenches. Two parallel, 50-ft-long trenches were initially cut into the exposed rock surface to a depth of 4 ft. The trenches were 15 ft apart and ran in an east-west direction. Observations from the test pit included the following:

- Fractures seen on the surface of the 2-ft-thick sandstone in the Cuyahoga Formation continued throughout the thickness of the sandstone layer but did not extend into the underlying shale. Fractures in the 2-ft-thick sandstone layer also contained clayey soil approximately 0.5 in. thick.

- A 4-in.-thick sandstone layer was observed at a depth of approximately 4 ft. It was fractured in a fairly regular pattern with each piece exhibiting an average diameter of approximately 12 in. This layer was easily broken with the ripper attachment.

- Observed fractures and/or joints were limited to the more brittle sandstone layers. No fractures or joints were observed in the shale.

- The degree of weathering of the shale, as expected, diminished with depth. The moisture content of the shale was observed to be higher near the surface, and it decreased with depth.

- The bulldozer could easily remove the shale to a depth of 8 ft with the blade only, but a ripper attachment was needed to go deeper.

I.2.3 LABORATORY STUDIES AND GEOCHEMICAL CONDITIONS

Partition coefficient (K_d) analyses were performed to determine how species of uranium and technetium-99 in groundwater and soil partition between phases. This information is important in the analysis and evaluation of the retardation of uranium and technetium, the two primary contaminants of concern (COCs) at PORTS, and potential contaminant transport through the geologic strata. To obtain the most representative results, standard adsorption tests following American Society for Testing and Materials C 1733 were performed on collected soil/rock samples, using both contaminated groundwater from the plant and spiked water. The initial levels, or concentrations, of uranium and technetium-99 in the soil/rock samples and groundwater were determined by laboratory analyses. A summary of the results of the K_d analyses is listed in Table I.1 for the various geologic units at PORTS, including geometric means and arithmetic means (referred to as mean) of the data sets. All K_d results and laboratory reports are provided in Appendix C of the waste disposition RI/FS report. To be conservative, the lower values between the geometric means and the arithmetic means of these data are used in the modeling as described in Section I.5.2.2. These lower K_d values result in relatively higher mobility potential and therefore lower modeled WAC values. The exceptions are the Sunbury and Berea datasets in which the arithmetic means are used because the dataset is not large enough to calculate a geometric mean.

Table I.1. K_d Analytical Results for PORTS

Constituent	Geologic Unit	Min (mL/g)	Max (mL/g)	Median (mL/g)	Geometric Mean (mL/g)	Mean (mL/g)	Standard Error on the Mean (mL/g)	Number of Samples
Technetium-99	Waste	2.02	2.05	NA	NA	2.035	0.015	2
	Minford	2.72	4.97	4.01	3.79	3.84	0.16	15
	Gallia	4.32	8.16	7.29	6.36	6.59	1.16	3
	Regolith[1]	3.08	5.93	4.28	4.29	4.37	0.25	12
	Cuyahoga	3.17	8.86	4.33	4.60	4.87	0.83	6
	Cuyahoga (sandstone layer)	3.27	3.49	3.38	3.38	3.38	0.11	2
	Sunbury	130	303	217	198	217	86.5	2
	Berea[2]	3.29	3.38	3.34	3.33	3.34	0.045	2
Uranium	Waste	246	634	NA	NA	440	194.03	2
	Minford	3.67	118	10.4	14.2	26.1	11.1	10
	Gallia	12.3	118	15.3	28.1	48.5	34.7	3
	Regolith[1]	4.20	687	17.9	22.6	77.6	55.6	12
	Cuyahoga	2.04	58.5	7.03	6.60	14.82	8.96	6
	Cuyahoga (sandstone layer)	64.4	71.7	68.1	68	68.1	3.65	2
	Sunbury	757	757	NA	NA	NA	NA	1
	Berea[2]	1.13	1.94	1.54	1.48	1.54	0.41	2

[1] Regolith consists of in place weathered materials above the Cuyahoga shale.
[2] Discrepencies in the K_d results for the geologic units are due to differing geochemical conditions within the units which alter the sorption affinity of both technetium-99 and uranium.

Max = maximum detected value
Min = minimum detected value
NA = not applicable

I.2.4 CONCEPTUAL SITE MODEL

Development of a conceptual site model (CSM) is necessary prior to evaluating the likely impact of potential contaminants that might emanate from a potential OSDC at Study Area D. A CSM is a visual representation that identifies the types and locations of all potential sources and how and where exposure may occur. Figure I.5 illustrates the current condition CSM. This figure illustrates the relative ground elevations (vertically exaggerated) along with the underlying geology previously discussed for Study Area D. Visually establishing the current conditions from a geological/hydrogeological perspective ensures that the important components of the site are identified and an understanding of how they may be modified by or affected by the potential construction of a disposal facility at Study Area D is important to development of a future condition CSM.

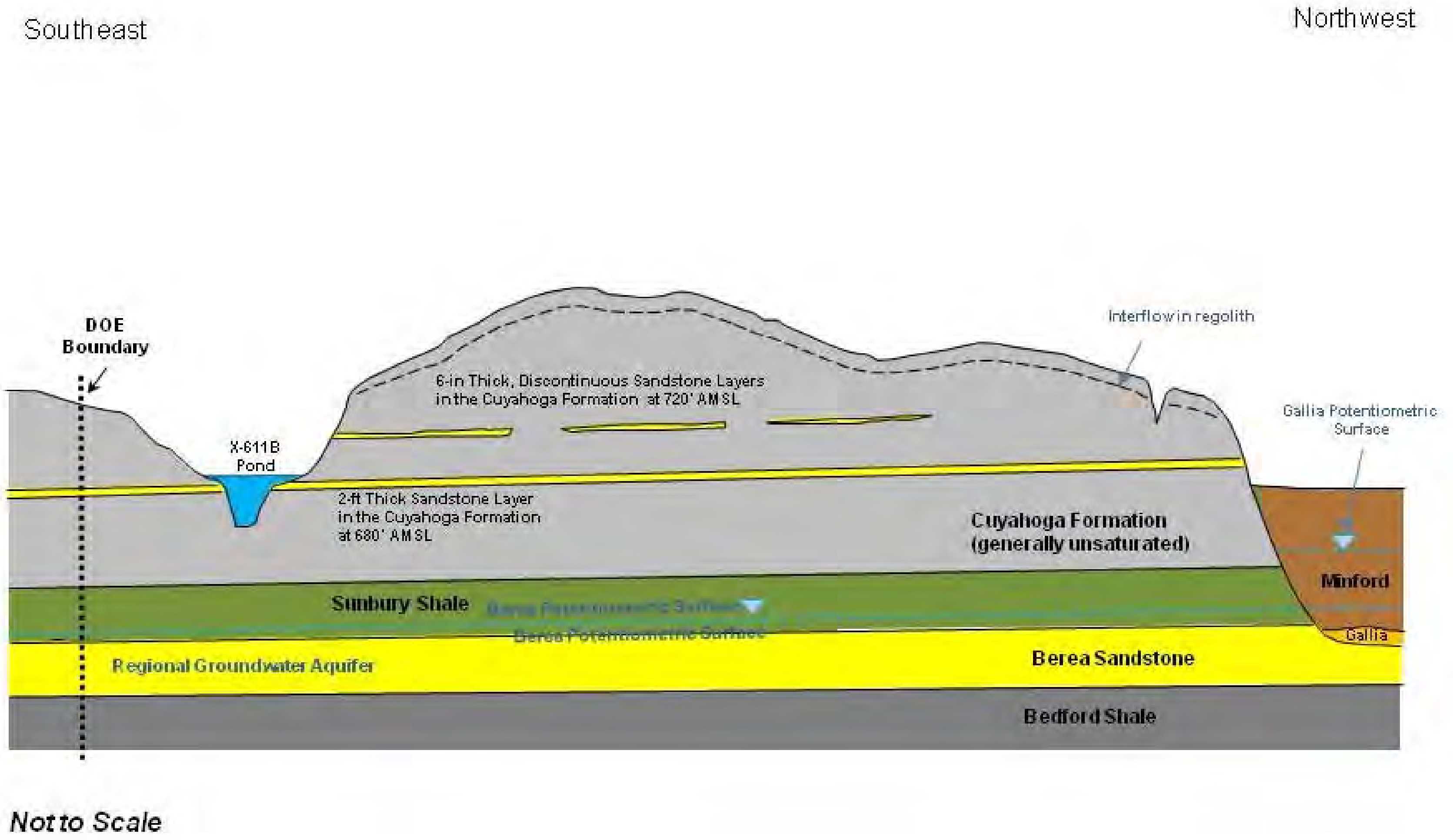


Figure I.5. Conceptual Site Model for PORTS Modeled Waste Acceptance Criteria – Current Condition

A future condition CSM identifies the key elements of fate and transport, which include the media that the contaminants may move through and the receptor that could become exposed to such contaminants. The locations of these receptors are termed point of assessment (POA) or point of compliance (POC) and are used to define the exposure assumptions that are to be considered in the modeled WAC development. A POA is a point at which it is assumed that a receptor may come in contact with media that may be contaminated by a potential OSDC based on fate and transport modeling and current and future site characteristics. POA locations are selected based on water flow directions beneath the site and likely future use scenarios in the vicinity of a potential OSDC, resulting in potential exposure to a receptor. Based on characteristics of the relevant exposure media and locations, specific exposure scenarios apply to the POAs which are considered in the development of modeled WAC to ensure protection of human health and the environment. The POC is a regulatory-driven requirement and is the basis for future monitoring of groundwater in the regional aquifer. The following summarizes the POAs and the POC that are to be evaluated in the WAC modeling for a potential OSDC:

- POA-1: maximum impacted surface water/sediment at the 680-ft sandstone discharge.

- POA-2: maximum impacted groundwater at facility boundary (300 ft from waste boundary [i.e., unit boundary]) within the 680-ft sandstone layer.

- POA-3: maximum impacted groundwater at facility boundary (300 ft from unit boundary) within the Berea sandstone under an open borehole configuration to allow for mixing from the 680-ft sandstone layer. (Note – under this POA scenario it is assumed that well water is withdrawn from the regional groundwater aquifer [Berea sandstone] in which an open borehole configured well is the only hydraulic connection between the regional groundwater aquifer and the shallow zone of saturation [i.e., 680-ft sandstone layer located immediately downgradient from the potential OSDC.])

- POA-4: maximum impacted groundwater/surface water under a future residential farmer scenario.

- POA-5 maximum impacted groundwater in Berea sandstone in the nearest downgradient point along the DOE property boundary which represents potential impacts of a potential OSDC to the regional groundwater aquifer (potential impacts to the Berea sandstone from the 680-ft sandstone layer is limited due to a greater distance from the waste).

- POC: groundwater monitoring at a point in the Berea sandstone at the downgradient edge of the unit boundary.

While this future condition CSM is a simplification of the fate and transport processes, it provides a visualization and general understanding of the potential impacts from a potential OSDC that are used to develop the WAC modeling processes.

Figure I.6 illustrates the future condition CSM applicable to Study Area D and, specifically, the primary steps in the modeled WAC development process for the constituents expected to be present in waste that could migrate from a potential OSDC to the applicable POA or POC. The steps include the following:

Step 1 Developing a source term for each constituent for the waste

Step 2 Estimating the infiltration rate for water moving through the cap and into the waste mass

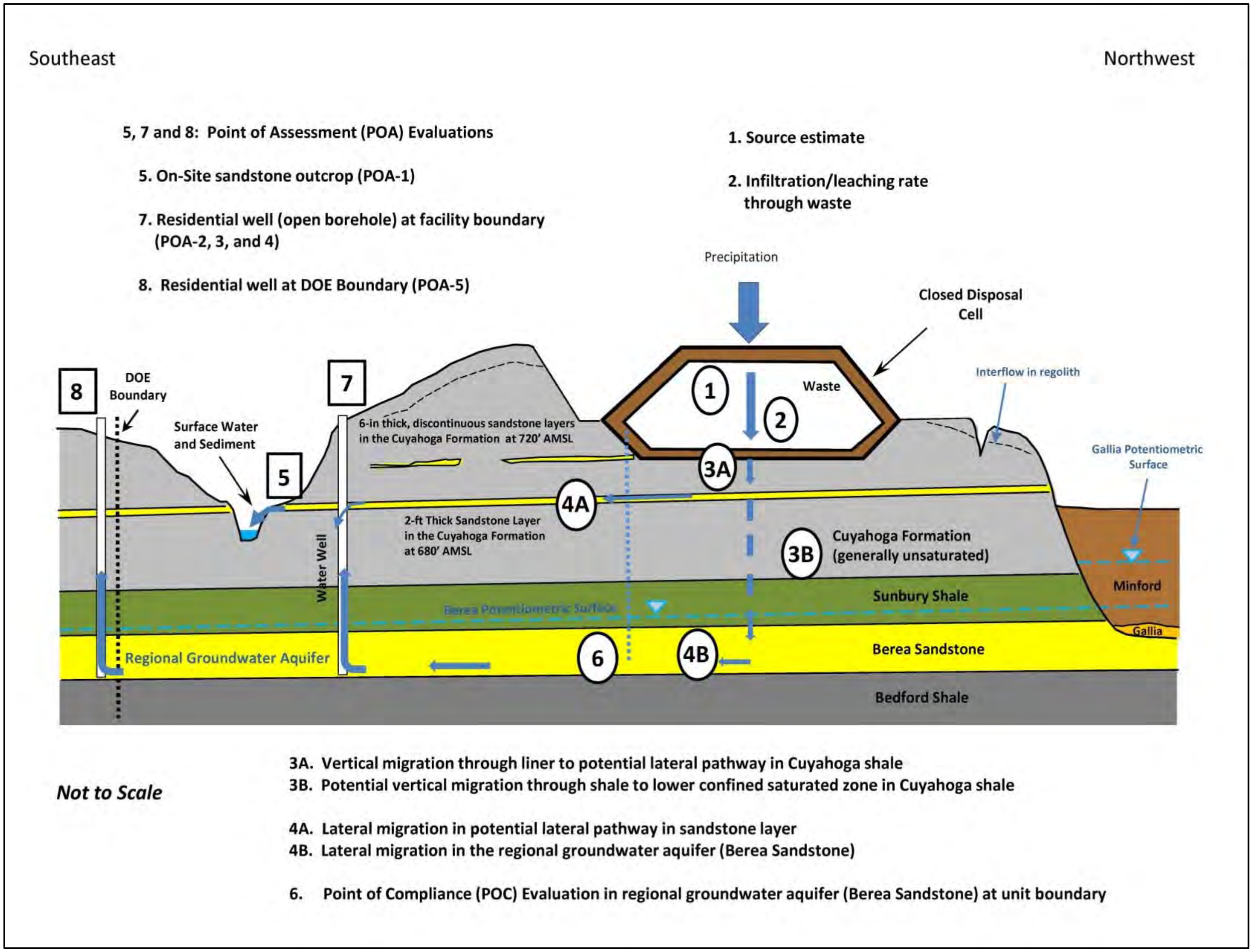


Figure I.6. Conceptual Site Model for PORTS Modeled Waste Acceptance Criteria – Future Condition

Step 3 Estimating the leaching rate of each constituent through the base liner materials and various layers (vadose and saturated zones) beneath the OSDC

Step 4 Predicting the lateral migration through the saturated zones (water bearing 2-ft sandstone layer in the unsaturated Cuyahoga Shale and regional Berea groundwater aquifer) within the compliance period of 1,000 years

Step 5 If applicable, estimating the contaminant concentration in surface water and sediment at POA-1 (sandstone outcrop) in the maximum impact direction from the OSDC within the compliance period of 1,000 years under a recreational exposure scenario

Step 6 If applicable, estimating the contaminant concentration in groundwater at the POC within the compliance period of 1,000 years

Step 7 If applicable, estimating the contaminant concentrations in groundwater at POA-2, POA-3, and POA-4 within the compliance period of 1,000 years and using maximum contaminant levels (MCLs)/risk-based concentrations for POA-2 and POA-3, and risk-based concentrations for all pathways under a future residential farmer scenario for POA-4

Step 8 If applicable, estimating the contaminant concentration in groundwater at POA-5 within the compliance period of 1,000 years using MCLs/risk-based concentrations.

The footprint for a potential OSDC at Study Area D and the basis for the CSM are the conceptual design described in Section 8 and drawings presented in Appendix J of the waste disposition RI/FS report. For purposes of modeled WAC development, a footprint applicable to an 11 cell, 5-million-cy capacity requiring 66 acres is assumed. The bottom liner of the facility is to be built on competent Cuyahoga shale in order to provide a stable base. As noted in the facility cross sections in Appendix J, the bottom elevations of the individual cells are cut below the existing grade elevation between approximately 10 ft and 45 ft. Therefore, construction of a potential OSDC at Study Area D would result in excavation of the weathered zone (i.e., regolith) within the footprint. Additionally, the bottom elevations of much of the base liner are below the discontinuous sandstone layer identified at 720 ft AMSL resulting in excavation of much of this sandstone. Excavation and/or isolation of the 720-ft sandstone layer under the potential OSDC during liner construction will be specified in the final design of the sub-grade to sufficiently eliminate this layer from becoming a lateral pathway for potential leaks to migrate outside of the potential OSDC footprint. Monitoring of the remaining portion of this layer outside but adjacent to the potential OSDC will also be conducted as part of the overall potential OSDC monitoring system. Therefore, no additional engineered features would be necessary to address the shallow subsurface water flow beneath a potential OSDC at Study Area D.

For each constituent that is modeled to reach the POA or POC within the compliance time frame, draft modeled WAC are derived using the ratios of risk-based or regulatory-based performance standards to model-predicted values to derive the maximum concentrations or maximum activity of COCs that may be placed in a potential OSDC at Study Area D.

I.3. WASTE STREAMS, WASTE ACCEPTANCE CRITERIA CONTAMINANTS, AND PERFORMANCE STANDARDS

Most of the waste planned to be generated is building waste (regulatory category [RC]-1, engineering category [EC]-2), the majority of it from the three large process buildings. The primary contaminants at PORTS are radionuclides, but other contaminants such as metals, organics, etc. are present. The large volume of soil assumed to be generated under the Ohio Consent Decree (RC-2, EC-1) is uncertain because remedial action objectives have not yet been established, and the soils beneath the process buildings and across much of PORTS have not been fully characterized. Soil brings a host of additional contaminants to the waste streams, which must be managed in a safe and compliant manner. In general, most of the waste streams are classified as low-level waste. Section I.3.1 discusses the waste types and volumes which subsequent sections discuss how contaminants were selected for modeled WAC development.

I.3.1 WASTE STREAMS, WASTE FORMS, AND CONTAMINANTS

The vast majority of waste expected to be generated during D&D of PORTS (RC-1) would originate from the three large gaseous diffusion process buildings, X-326, X-330, and X-333. The waste volumes include the structure of each facility, all process gas equipment (PGE) (except from X-326) and industrial equipment within each facility, and facility slabs. The balance of the expected volume is from hundreds of smaller buildings and man-made structures. This volume of waste requiring fill (RC-1, EC-2) (1.4 million cy) requires a disposal facility with a total capacity of approximately 3.9 million cy, assuming an EC-1/EC-2 ratio of 2 to 1. However, as a contingency for containing additional waste that may be generated at PORTS, a disposal facility with a total capacity of 5 million cy is assumed for modeled WAC development.

The primary waste forms associated with D&D of PORTS (RC-1) requiring on-Site disposal are as follows:

- Other building waste
- Concrete waste
- PGE waste
- Residual soils.

While not all of these wastes are candidates for disposal on Site, there would be large portions of each waste form that would be able to meet a potential OSDC WAC.

A starting point for characterization of the waste expected to be generated is identifying and understanding the processes that created radiological and/or chemical waste. Most of the effort in developing waste types has focused on the three process buildings because D&D at these facilities would generate a majority of the waste volume.

The primary radiological COCs within the process buildings are uranium (uranium-234, uranium-235, uranium-238) and technetium-99. The uranium contamination results from the gaseous diffusion process. Most of the technetium-99 was introduced into the cascade system either as direct feed of reactor returns or through feeding of Paducah product (UF_6) material. Radionuclides introduced into the gaseous diffusion system from the processing of reactor returns were typically generated through the plutonium uranium extraction PUREX process. A byproduct of this process was uranium trioxide, which was returned to the uranium feed cycle for the production of UF_6 feed materials. The PUREX process was highly efficient at separating out fission products and transuranic elements from its product streams.

However, for some radionuclides, the PUREX separation process was not fully effective. These reactor returns were introduced into the gaseous diffusion process to facilitate increased production and reduced reliance on commercial uranium ore mining and milling. As a result, the contaminants present in the feed materials generated from reactor returns are known to have contained measurable concentrations of fission products and transuranic elements, including most notably technetium-99, neptunium-237, and plutonium-239. Small quantities of transuranic elements, neptunium-237 and plutonium-239, are also suspected of being introduced into PORTS during the feeding of reprocessed uranium feed stock.

Exterior surface uranium contamination exists in all three PORTS process buildings (X-326, X-330, and X-333). Contamination resulted from maintenance activities and infrequent leaks of process gas during greater than atmospheric pressure operations in the X-330 and X-333 Buildings. Both fixed and removable contamination can be found on the operating and cell floors.

Chemical trapping materials in the process buildings include alumina, such as aluminum oxide (Al_2O_3) and sodium fluoride (NaF). These trapping materials contain elevated concentrations of uranium, hydrogen fluoride, technetium-99, and heavy metals. The alumina traps were used as final filtration before discharge of light gases to the atmosphere. Sodium fluoride was used to recover UF_6 from purge gas streams before return to the cascade and final purging. Magnesium fluoride (MgF_2) side-stream traps were installed in the X-326 Building (Cells 25-7-15, 17, and 19) to remove technetium-99 in the top of the cascade. This trapping system was successful in reducing the cascade technetium-99 inventory, but created a source of concentrated technetium-99 trap media. Also, there is an assumption that plutonium and neptunium may also be present on the magnesium fluoride trapping material. The traps have been disconnected from the cascade. Currently, they are compliantly stored in the X-326 Building (on the operating floor).

The primary COCs are polychlorinated biphenyls (PCBs), metals, asbestos, and strong oxidizing agents (as described in Section 5 of the waste disposition RI/FS). PCBs from electrical capacitors, transformers, and impregnated ventilation gaskets; metals such as lead and silver solder from tube fittings and other applications; cadmium and other metals from alloys and trapping materials; strong oxidizing agents from the residual UF_6 (fluorine); and hydrogen fluoride are anticipated to be present.

Initially, the PORTS recirculating cooling water (RCW) treatment system contained hexavalent chromium to prevent corrosion. In the 1990s, treatment of the cooling water was changed to a more environmentally acceptable phosphate-based system. Therefore, residual chromate and phosphate compounds are anticipated in the RCW system within the three process buildings. In addition, residual chromate is likely to be present in cooling towers and possibly other PORTS RCW support systems.

Residual amounts of hydrocarbon oils used to lubricate the process compressors and motors may be encountered in the lubricating oil headers, filters, tanks, and hydraulic lines, once drained from the system.

Small amounts of mercury are contained in various specialized instruments essential to the proper functioning and operation of the process equipment. For example, mercury is commonly found in temperature/pressure contact switches, chemical traps, fire pull stations, and mercury vapor lamps used for high-bay lighting (Theta Pro2Serve Management Company, LLC [TPMC] 2006). The X-326 Building instrument and sampling lines contain small mercury traps that were used to remove corrosive gases within the line and prevent damage to the mass spectrometer line recorders.

Arsenic may be found primarily in the X-326 Building instrument lines and sampling lines as a result of treatment gases. Beryllium is present in aluminum compressor blades and compressor impellers in low parts-per-million quantities.

I.3.2 MODELED WASTE ACCEPTANCE CRITERIA CONTAMINANT OF CONCERN SELECTION PROCESS

A qualitative human health and ecological risk assessment was conducted to assess the threat of contamination in the buildings at PORTS if no action is taken in the future and the buildings are allowed to degrade with no waste disposed. This assessment (Section 5 of the waste disposition RI/FS) identified the following COCs in the buildings at PORTS:

- Uranium isotopes (uranium-234, uranium-235, and uranium-238)
- Total uranium
- Technetium-99
- Asbestos-containing material (ACM)
- Trichloroethene
- PCBs (Aroclor-1254, Aroclor-1260)
- Chromium (including chromium III and VI).

These contaminants require an assessment of potential fate and transport through a potential OSDC into the underlying media. Because ACM is only a threat through inhalation and not a viable pathway from a closed cell, the compound was not modeled.

The risk assessment was qualitative and based on process knowledge. Existing data suggest that other contaminants are present, they could be placed in the OSDC, and such potential placement merits consideration. Based on existing analytical data from the process equipment, the following contaminants have also been assessed:

- Thorium-228
- Thorium-230
- Uranium-236
- Neptunium-237
- Plutonium-238
- Plutonium-239/240
- Americium-241.

Based on existing analytical data from the environmental media, the contaminants in Table I.2 have also been assessed as they may be present in other waste streams generated under the Ohio Consent Decree (RC-2) or as fill (RC-2, RC-3, EC-1) used in the operations of a potential OSDC. This list is derived by tabulating every COC that exceeded remedial action objectives or preliminary remediation goals in previous quadrant-specific Resource Conservation and Recovery Act of 1976 (as amended) (RCRA) Facility Investigations (DOE 1996a, 1996b, 1996c, 1996d), Corrective Measure Study documents (DOE 1998a, 1998b, 2000, 2001), the PORTS Baseline Human Health Risk Assessment (DOE 1995a) and the PORTS Baseline Ecological Risk Assessment (DOE 1996e), with the exception of naturally occurring daughter isotopes in the uranium and thorium decay chains. Data presented in these documents represent releases from activities that originally occurred in or around the buildings or as a result of waste generated in the buildings. As such, these contaminants are present in environmental media that may be candidates for disposal in a potential OSDC.

Table I.2. Modeled Waste Acceptance Criteria Contaminants of Concern from PORTS Environmental Data

Organic Constituents		Inorganic Constituents
Acenapthylene	Endosulfan II	Antimony
Benzene	Endosulfan sulfate	Arsenic
Benzo(a)anthracene	Endrin ketone	Barium
Benzo(a)pyrene	Ethylbenzene	Beryllium
Benzo(b)fluoranthene	Heptachlor	Cadmium
Benzo(g,h,i)perylene	Hexachlorobenzene	Cobalt
Benzo(k)fluoranthene	Hexachlorocyclohexane-alpha	Copper
Bis(2-chloroethyl)ether	Hexanone, 2-	Cyanide
Bromoform	Indeno(1,2,3-cd)pyrene	Fluoride
Butanone, 2-	Methoxychlor	Lithium
Carbon Tetrachloride	Methylnaphthalene, 2-	Manganese
Chlordane-gamma	Napthalene	Mercury
Chloro,3-methylphenol, 4-	Nitrobenzene	Nickel
Chloroform	Nitrobenzeneamine, 4-	Selenium
Chrysene	Nitrophenol, 4-	Silver
Dibenz(a,h)anthracene	n-Nitroso-di-n-propylamine	Vanadium
Dibenzofuran	Phenanthrene	Zinc
Dibromochloromethane	Tetrachloroethene	
Dichloroethane, 1,2-	Toluene	
Dichloroethene, 1,1-	Tribromomethane	
Dichloroethene, 1,2-	Trichloroethane, 1,1,1-	
Dieldrin	Trichloroethane, 1,1,2-	
Dimethylphthalate	Vinyl acetate	
Dinitrotoluene, 2,4-	Vinyl chloride	

As previously mentioned, a contingency volume is assumed for sizing a potential OSDC. Because this additional waste may contain constituents that could be classified as hazardous waste under RCRA, a consideration is made to include all constituents that are found on the Toxicity Characteristic Leaching Procedure (TCLP) table in 40 *CFR* 261. Table I.3 identifies additional modeled WAC COCs from the TCLP list.

Table I.3. Additional Modeled Waste Acceptance Criteria Contaminants of Concern from Toxicity Characteristic Leaching Procedure List

Organic Constituents		Inorganic Constituents
Chlordane	Methylphenol, 3- (m-Cresol)	Lead
Chlorobenzene	Methylphenol, 4- (p-Cresol)	
Cresol	Pentachlorophenol	
Dichlorobenzene, 1,4-	Pyridine	
Endrin	Toxaphene	
Hexachlorobutadiene	2,4-D	
Hexachloroethane	2,4,5-TP (Silvex)	
Lindane	2,4,5-Trichlorophenol	
Methylphenol, 2- (o-Cresol)	2,4,6-Trichlorophenol	

Finally, a review of landfills at the former DOE Oak Ridge K-25 site (now East Tennessee Technology Park), which are similar to those at PORTS, was performed in order to identify additional constituents for WAC modeling. These landfills (i.e., K-1070-A and K-1070-B landfills) received waste items and materials from the gaseous diffusion process and have been sampled and profiled for disposal at the on-site waste disposal facility in Oak Ridge. Using these data as proxy for the similar landfills at PORTS and comparing the maximum detected concentrations or activity concentrations to risk-based concentrations results in the addition of 8 organic constituents. Table I.4 identifies the additional modeled WAC COCs for PORTS.

Table I.4. Additional Modeled Waste Acceptance Criteria Contaminants of Concern Consistent with Similar Landfills at other DOE Sites

Organic Constituents
Acetone
Aroclor-1242
Anthracene
Methylene chloride

Source: Bechtel Jacobs Company LLC 2010.

I.3.3 PERFORMANCE STANDARDS

The performance standards for modeled WAC development are consistent with the remedial action objectives presented in Section 7.3 of the waste disposition RI/FS. Risk-based performance standards ensure that the excess lifetime cancer risk (ELCR) for each constituent is set at 1E-05 and the hazard quotient is set at 1. The regulatory-based performance standards consist of MCLs for protection of human health and Ohio ambient water quality criteria (AWQC) for the protection of aquatic species.

Based on the previously described POAs, the following receptors and exposure pathways are considered for the POAs:

- Recreational scenario (POA-1) – includes incidental ingestion and dermal contact with sediment and surface water potentially emanating from the 680-ft sandstone layer

- Ecological receptors (POA-1) – includes AWQC from *Ohio Administrative Code (OAC)* 3745-1-07 applicable to surface water potentially emanating from the 680-ft sandstone layer

- MCLs in groundwater (POA-2, POA-3, and POA-5) from the U.S. Environmental Protection Agency (EPA) publication *National Primary Drinking Water Regulations* (EPA 2009)

- Future residential farmer scenario (POA-4) – includes groundwater ingestion and ingestion of food crops and animal products (milk and beef) irrigated and watered with surface water and/or groundwater, as applicable.

The sources of the performance standards are as follows:

1) For sediment, values are calculated using the DOE Risk Assessment Information System (RAIS) with user-defined, site-specific exposure parameters consistent with *Methods for Conducting Human Health Risk Assessments and Risk Evaluations at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio,* (DOE 2011c) (referred to as the Risk Methods Document [RMD]) under a recreational teen exposure scenario (scaled to a hazard quotient of 1 or ELCR of 1E-05) (blue highlight).

2) For surface water, values are from RMD (yellow highlight) and RAIS (blue highlight) for constituents not listed in the RMD.

3) Ecological standards are from *OAC* 3745-1-70, Table 7-1, inside the mixing zone (green highlight).

4) MCLs are from EPA 2009 (orange highlight).

5) For groundwater and ingestion of vegetables, milk, and beef under a future resident farmer, all values are from RAIS (blue highlight).

The performance standards used in the derivation of modeled WAC are shown in Table I.5.

It should be noted that the radionuclide performance standards are risk- or ARAR-based. These standards are either equivalent to a 1E-5 ELCR, in the case for the recreational and resident farmer scenarios, or are based on the MCL for alpha or beta activity-related nuclides for groundwater exposure. *OAC* 3701:1-54-08(B)(1) requires that concentrations of radioactive material released to the general environment in groundwater, surface water, air, soil, plants, and animals must not result in an annual dose exceeding the equivalent of 25 mrem to the whole body, 75 mrem to the thyroid, or 25 mrem to any other organ to any member of the public. The risk- and ARAR-based performance standards meet (or exceed) this requirement. First, the risk-based performance standard concentrations are based on an ELCR that is nearly an order of magnitude lower than the equivalent risk associated with an annual dose of 25 mrem/yr to the whole body or any organ, which according to EPA equates to an approximate 5E-4 ELCR (EPA 1997), and an order of magnitude lower than the equivalent risk associated with an annual dose of 75 mrem/yr to the thyroid. Second, the MCL-based performance standards equate to an annual dose of between 2 and 11 mrem/yr to the whole body or any organ, again lower than the required dose.

Table I.5. Performance Standards at Exposure Locations

	POA-1			POA-2	POA-3	POA-4	POA-5
COCs	Recreational Scenario Risk-based Surface Water Concentration (µg/L or pCi/L)	Recreational Scenario Risk-based Soil Concentration (mg/kg or pCi/g)	Ecological Standards Ohio Ambient Water Quality Criteria Concentration (µg/L)	Groundwater in 680-ft Sandstone Layer MCL or Risk-based Concentration (µg/L or pCi/L)	Groundwater in Berea mixing with 680-ft Sandstone Layer MCL or Risk-based Concentration (µg/L or pCi/L)	Future Resident Farmer Scenario – All Pathways Risk-based Concentration (µg/L or pCi/L)	Groundwater in Berea at DOE Property Line MCL or Risk-based Concentration (µg/L or pCi/L)
Radionuclides							
Americium-241	801	311	NV	15	15	4.3	15
Neptunium-237	1,350	325	NV	15	15	7.1	15
Plutonium-238	636	343	NV	15	15	3.4	15
Plutonium-239	617	301	NV	15	15	3.3	15
Plutonium-240	617	301	NV	15	15	3.3	15
Thorium-228	779	3,000	NV	15	15	153	15
Thorium-230	916	408	NV	15	15	4.1	15
Technetium-99	30,300	10,600	NV	900	900	4.9	900
Uranium-234	1,180	525	NV	7.48	7.48	6.1	7.48
Uranium-235	1,200	68.1	NV	7.6	7.6	6.2	7.6
Uranium-236	1,240	558	NV	7.9	7.9	6.5	7.9
Uranium-238	1,300	582	NV	8.27	8.27	6.8	8.27
Inorganics							
Antimony	254	1,020	NV	6	6	8.49	6
Arsenic	57	88.7	680	10	10	0.30	10
Barium	72,000	511,000	NV	2,000	2,000	4,232	2,000
Beryllium	87	5,110	NV	4	4	37.9	4
Cadmium	136	2,200	9	5	5	13	5
Chromium	118,667	3,830,000	1,100	100	100	29,335	100
Chromium VI	8.9	296	31	0.41	0.41	0.35	0.41
Cobalt	510	767	NV	13.1	13.1	6	13.1
Copper	58,667	102,000	27	1,300	1,300	764	1,300
Fluoride (salts)	76,333	10,200	NV	4,000	4,000	759	4,000
Lead	16,900	17,500	190	15	15	14	15

Table I.5. Performance Standards at Exposure Locations (Continued)

	POA-1			POA-2	POA-3	POA-4	POA-5
COCs	**Recreational Scenario Risk-based Surface Water Concentration (µg/L or pCi/L)**	**Recreational Scenario Risk-based Soil Concentration (mg/kg or pCi/g)**	**Ecological Standards Ohio Ambient Water Quality Criteria Concentration (µg/L)**	**Groundwater in 680-ft Sandstone Layer MCL or Risk-based Concentration (µg/L or pCi/L)**	**Groundwater in Berea mixing with 680-ft Sandstone Layer MCL or Risk-based Concentration (µg/L or pCi/L)**	**Future Resident Farmer Scenario – All Pathways Risk-based Concentration (µg/L or pCi/L)**	**Groundwater in Berea at DOE Property Line MCL or Risk-based Concentration (µg/L or pCi/L)**
Inorganics (continued)							
Lithium	16,700	5,110	NV	57.3	57.3	23	57.3
Manganese	5,367	61,300	NV	983	983	836	983
Mercury	108	409	2.9	2	2	3	2
Nickel	15,233	51,100	940	863	863	428	863
Selenium	7,333	12,800	NV	50	50	19	50
Silver	1,733	12,800	NV	210	210	61	210
Uranium	4,440	7,670	NV	30	30	67	30
Vanadium	13,200	12,900	NV	393	393	149	393
Zinc	483,333	766,000	230	13,133	13,133	2,912	13,133
Cyanide	29,300	1,530	44	200	200	4.86	200
Organics							
Acenapthylene	NV	NV	NV	NV	NV	NV	NV
Acetone	1,486,667	2,300,000	NV	24,467	24,467	1,351	24,467
Anthracene	267	505,000	NV	140	140	138	140
Aroclor-1242	1.23	47.8	NV	0.5	0.5	0.16	0.5
Aroclor 1254	0.17	32.8	NV	0.5	0.5	0.10	0.5
Aroclor 1260	0.25	47.8	NV	0.5	0.5	0.01	0.5
Benzene	367	854	NV	5	5	3.05	5
Benzo(a)anthracene	0.072	134	NV	0.2	0.2	0.02	0.2
Benzo(a)pyrene	0.072	13.4	NV	0.2	0.2	0.02	0.2
Benzo(b)fluoranthene	0.072	134	NV	0.2	0.2	0.02	0.2
Benzo(g,h,i)perylene	267	NV	NV	0.2	0.2	140	0.2
Benzo(k)fluoranthene	0.072	1,340	NV	0.2	0.2	0.02	0.2
Bis(2-chloroethyl)ether	65.6	98	NV	0.118	0.118	0.08	0.118

Table I.5. Performance Standards at Exposure Locations (Continued)

	POA-1			POA-2	POA-3	POA-4	POA-5
COCs	Recreational Scenario Risk-based Surface Water Concentration (µg/L or pCi/L)	Recreational Scenario Risk-based Soil Concentration (mg/kg or pCi/g)	Ecological Standards Ohio Ambient Water Quality Criteria Concentration (µg/L)	Groundwater in 680-ft Sandstone Layer MCL or Risk-based Concentration (µg/L or pCi/L)	Groundwater in Berea mixing with 680-ft Sandstone Layer MCL or Risk-based Concentration (µg/L or pCi/L)	Future Resident Farmer Scenario – All Pathways Risk-based Concentration (µg/L or pCi/L)	Groundwater in Berea at DOE Property Line MCL or Risk-based Concentration (µg/L or pCi/L)
Organics (continued)							
Bromoform	6,890	13,500	NV	85.1	85.1	73	85.1
2-Butanone	886,667	1,530,000	NV	2,240	2,240	1,016	2,240
Carbon Tetrachloride	274	518	NV	5	5	3.3	5
Chlordane	85	367	NV	2	2	1.6	2
gamma-Chlordane	85	367	NV	6.4	6.4	6.4	6.4
4-Chloro, 3-methylphenol	NV	NV	NV	NV	NV	NV	NV
Chlorobenzene	4,067	51,100	NV	100	100	81	100
Chloroform	1,180	295	NV	1.93	1.93	1.75	1.93
Chrysene	0.072	13,400	NV	0.02	0.02	0.02	0.02
Cresol (including o-, m-, p-)	2,920	91,300	NV	215	215	193	215
Dibenz(a,h)anthracene	0.072	13.4	NV	0.2	0.2	0.01	0.2
Dibenzofuran	63	2,560	NV	35	35	19	35
Dibromochloromethane	2,363	494	NV	5	5	3.1	5
1,4-Dichlorobenzene	1,510	2,390	NV	75	75	4.23	75
1,2-Dichloroethane	540	374	NV	5	5	1.09	5
1,1-Dichloroethene	20,700	128,000	NV	7	7	264	7
1,2-Dichloroethene	4,000	23,000	NV	70	70	126	70
Dieldrin	1.51	6.66	0.47	0.4	0.4	0.03	0.4
Dimethylphthalate	NV	NV	NV	NV	NV	NV	NV
2,4-Dinitrotoluene	186	342	NV	2.17	2.17	1	2.17
2,4-D	11,500	21,300	NV	70	70	140	70
Endosulfan II	6,167	NV	NV	261	261	261	261
Endosulfan sulfate	7,433	NV	NV	262	262	262	262
Endrin	124	548	0.17	2	2	6	2

Table I.5. Performance Standards at Exposure Locations (Continued)

	POA-1			POA-2	POA-3	POA-4	POA-5
COCs	Recreational Scenario Risk-based Surface Water Concentration (µg/L or pCi/L)	Recreational Scenario Risk-based Soil Concentration (mg/kg or pCi/g)	Ecological Standards Ohio Ambient Water Quality Criteria Concentration (µg/L)	Groundwater in 680-ft Sandstone Layer MCL or Risk-based Concentration (µg/L or pCi/L)	Groundwater in Berea mixing with 680-ft Sandstone Layer MCL or Risk-based Concentration (µg/L or pCi/L)	Future Resident Farmer Scenario – All Pathways Risk-based Concentration (µg/L or pCi/L)	Groundwater in Berea at DOE Property Line MCL or Risk-based Concentration (µg/L or pCi/L)
Organics (continued)							
Endrin ketone	NV	NV	NV	NV	NV	NV	NV
Ethylbenzene	644	4,270	NV	700	700	12.9	700
Heptachlor	6.9	23.7	NV	0.4	0.4	0.08	0.4
Hexachlorobenzene	1.74	66.6	NV	1	1	0.26	1
Hexachlorobutadiene	75.3	1,370	NV	28.6	28.6	10.8	28.6
alpha-Hexachlorocylcohexane	2.5	16.9	NV	0.11	0.11	0.07	0.11
Hexachloroethane	83.6	1,280	NV	7.88	7.88	6.27	7.88
2-Hexanone	4,600	12,800	NV	49	49	26	49
Indeno(1,2,3-cd)pyrene	0.072	134	NV	0.2	0.2	0.02	0.2
Lindane	14.1	117	1.9	0.2	0.2	0.4	0.2
Methoxychlor	687	9,130	0.03	40	40	105	40
Methylene Chloride	7,230	15,300	NV	48	48	26	48
2-Methylnaphthalene	606	6,730	NV	48.8	48.8	38	48.8
Naphthalene	267	3,740	NV	140	140	118	140
4-Nitrobenzeneamine	3,260	5,330	NV	32.6	32.6	11	32.6
Nitrobenzene	1,453	5,030	NV	1.22	1.22	1.18	1.22
4-Nitrophenol	NV	NV	NV	NV	NV	NV	NV
n-Nitroso-di-n-propylamine	9.4	15.2	NV	0.1	0.1	0.03	0.1
Pentachlorophenol	2.55	187	29	1	1	0.32	1
Phenanthrene	267	NV	NV	140	140	140	140
Pyridine	6,090	2,560	NV	28.4	28.4	4	28.4
Tetrachloroethene	18.9	15,300	NV	5	5	1.08	5
Toluene	14,800	204,000	NV	1,000	1,000	1,234	1,000
Toxaphene	0.987	96.8	NV	3	3	0.12	3

Table I.5. Performance Standards at Exposure Locations (Continued)

COCs	POA-1 Recreational Scenario Risk-based Surface Water Concentration (µg/L or pCi/L)	POA-1 Recreational Scenario Risk-based Soil Concentration (mg/kg or pCi/g)	POA-1 Ecological Standards Ohio Ambient Water Quality Criteria Concentration (µg/L)	POA-2 Groundwater in 680-ft Sandstone Layer MCL or Risk-based Concentration (µg/L or pCi/L)	POA-3 Groundwater in Berea mixing with 680-ft Sandstone Layer MCL or Risk-based Concentration (µg/L or pCi/L)	POA-4 Future Resident Farmer Scenario – All Pathways Risk-based Concentration (µg/L or pCi/L)	POA-5 Groundwater in Berea at DOE Property Line MCL or Risk-based Concentration (µg/L or pCi/L)
Organics (continued)							
1,1,1-Trichloroethane	776,667	5,110,000	NV	200	200	9,144	200
1,1,2-Trichloroethane	668	841	NV	5	5	1.92	5
Trichloroethene	4,100	1,020	NV	5	5	5.65	5
2,4,5-Trichlorophenol	26,600	183,000	NV	1,630	1,630	1,172	1,630
2,4,6-Trichlorophenol	278	1,830	NV	16.6	16.6	12	16.6
2,4,5-TP (Silvex)	7,680	18,300	NV	50	50	143	50
Vinyl acetate	5,900,000	2,560,000	NV	411	411	382	411
Vinyl chloride	57.6	2.33	NV	2	2	0.13	2

Notes:
Yellow: PORTS RMD, Table 1, scaled to ELCR of 1×10^{-5} or hazard quotient of 1.
Blue: DOE's RAIS at http://rais.ornl.gov/ using exposure factors consistent with PORTS RMD document.
Green: *OAC* 3745-1-07, Table 7-1 and 7-9, IMZM classification
Orange: EPA 816-F-09-004, May 2009.

Because the performance standards are risk-based using typical exposure parameters, some constituents have standards greater than unity (that is 100%). This is an artifact of the method for calculating the performance standards and where this occurs, the physical limit becomes the *de facto* standard.

COC = contaminant of concern
DOE = U.S. Department of Energy
EPA = U.S. Environmental Protection Agency
IMZM = inside mixing zone maximum
MCL = maximum contaminant level
NV = no value

OAC = Ohio Administrative Code
POA = point of assessment
PORTS = Portsmouth Gaseous Diffusion Plant
RAIS = Risk Assessment Information System
RMD = Risk Methods Document

I.4. PRELIMINARY OSDC DESIGN

A conceptual design for a potential OSDC has been used for modeling and considers the volumes and types of waste (radiological and chemical waste streams) potentially projected to be placed in such a facility, consistent with those presented in Section 4 of the waste disposition RI/FS report. Because a potential OSDC would manage waste with RCRA, Toxic Substances Control Act of 1976, and radioactive contaminants, the conceptual design incorporates a number of elements associated with the various design requirements in the waste management regulations for each of these waste types. This includes a multilayer base liner system and a multilayer cap system. Understanding the physical design of a potential OSDC is essential to properly account for the impact of these design features in modeling contaminant transport. The description of a potential OSDC herein is for illustrative purposes only as the basis for draft modeled WAC development, and it should not be construed that Alternative 2 has actually been selected.

I.4.1 OSDC FOOTPRINT AND LAYOUT

A potential OSDC assumed in this modeled WAC analysis considers a 5 million cy volume capacity facility, which is the volume necessary to contain the DFF&O waste as well as additional waste that may be generated during the cleanup of PORTS. The disposal cells at Study Area D would sit on a topographic high area (Figures I.7 and I.8) and entirely on top of competent Cuyahoga shale, which includes both weathered shale and competent shale. The depth to bedrock in Study Area D ranges from less than 10 ft in the upland areas to up to 40 ft deep on the western and northern boundaries.

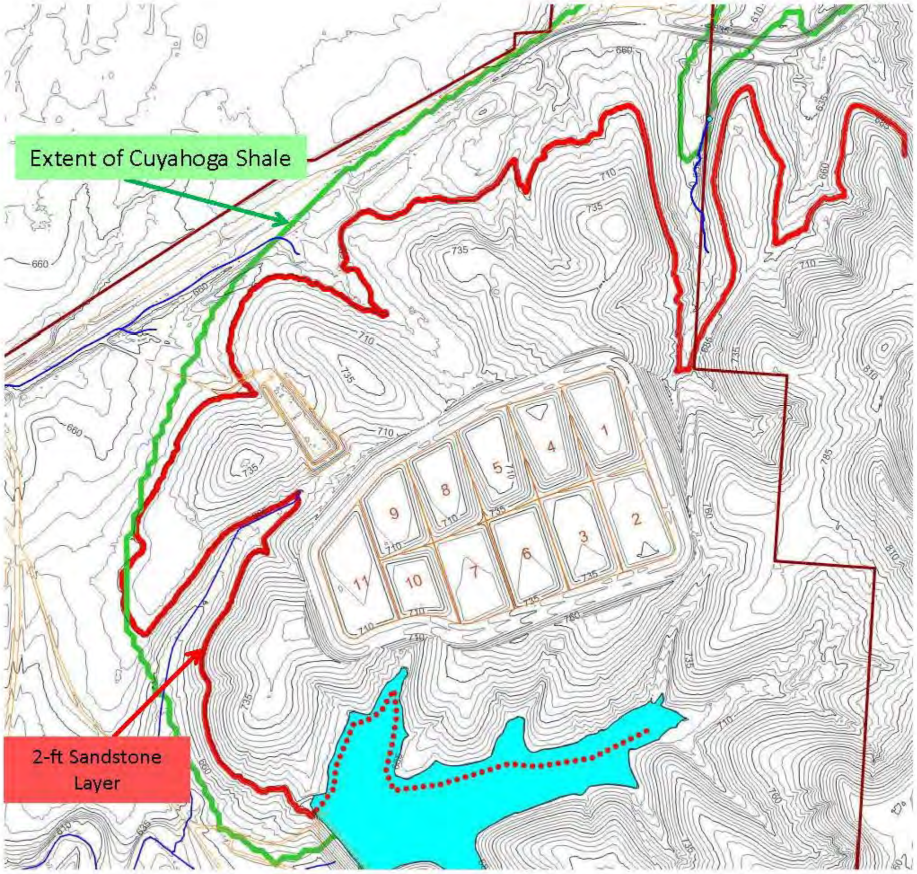


Figure I.7. Conceptual Location of a Potential OSDC at PORTS

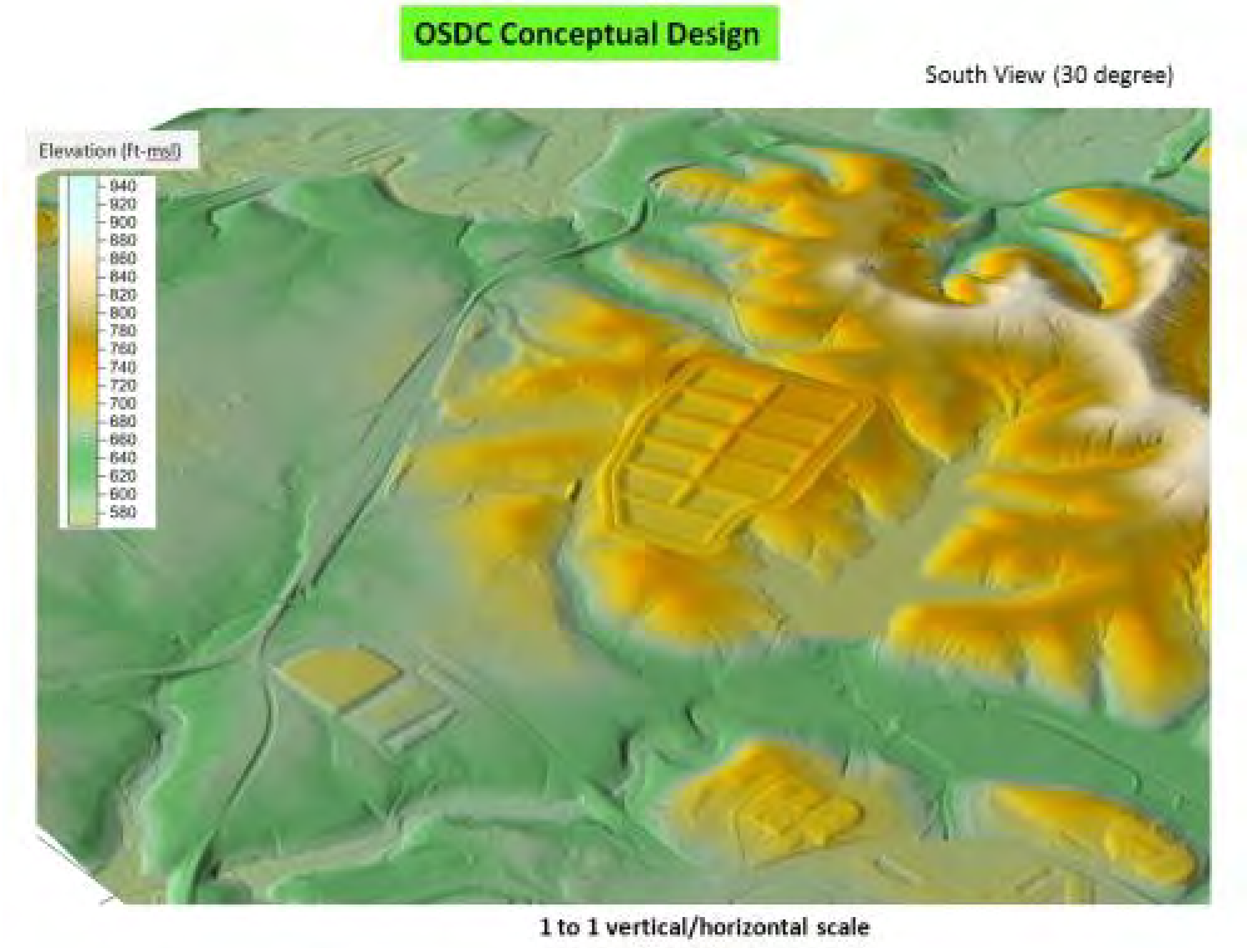


Figure I.8. Three-Dimensional Representation of OSDC Cells at PORTS

I.4.2 MULTILAYER BASE LINER SYSTEM

The purpose of this system is to prevent leachate from migrating out of the disposal unit. A compacted clay liner with a double geocomposite liner system is proposed, along with two low-permeability liners, a leachate collection and removal system, and a leak detection system. The primary liner would be constructed of a geomembrane to prevent migration of hazardous constituents into the secondary liner for the active life and post-operations care period. The secondary component of the composite bottom-liner would be designed and constructed using materials to minimize the migration of hazardous constituents if a breach in the primary liner were to occur. The active leachate collection system, which includes a drainage layer above the primary liner, would be designed, assembled, and installed to be fully functional for at least 30 years of post-operations, while the leak detection system between the primary and secondary layers would be capable of detecting leachate movement through the primary liner in excess of the action leakage rate. After the post-operations period ends, leachate would continue to be collected, although the amount generated is expected to be low. This leachate would be directed through the passive treatment system. The base liner proposed for the conceptual design includes the following layers from the cell base up:

- Compacted clay liner: A 3-ft-thick, low-permeability clay layer would be placed above the cut elevation (stable soil or bedrock) and have a hydraulic conductivity ≤ 1E-07 cm/s.

- Secondary liner: A geosynthetic clay liner (GCL) and flexible membrane liner (FML) would be installed. The FML would be a man-made geosynthetic barrier composed of materials compatible with the waste and resistant to degradation by the chemical constituents expected to be present in the leachate. A typical GCL consists of sodium bentonite encapsulated between two geotextiles. The GCL, which is less than 1 in. thick, typically has a hydraulic conductivity on the order of 5E-09 cm/s.

- Leak detection system drainage layer: This is a 1-ft gravel leak detection layer sandwiched between two geotextile layers on the cell floor. On the sloping (3 horizontal to 1 vertical) walls of the facility, geonet (a plastic grid sandwiched between two layers of geotextile with triple the flow capacity of gravel) would be used to transmit any leachate that penetrates the primary liner to the gravel leak detection system drainage layer on the cell base. This layer would be graded to drain toward detection piping. At each location where the leak detection piping penetrates a layer of the primary and secondary liner, an antiseep collar would be installed to prevent development of a preferential flow pathway. The detection piping would be connected to a separate detection sump in the leachate collection and transfer facility downgradient of the disposal cell. Little or no leachate is expected to be captured by this system during the operations or post-operations period.

- Primary liner: The primary liner would retard leachate migration out of the disposal cell and direct leachate into the primary leachate collection layer. The conceptual design includes an FML and a low-permeability GCL.

- Leachate collection system drainage layer: The primary leachate collection system drainage layer consists of a 1-ft-thick gravel layer on top of the primary liner on the cell floor and on the sloping walls. The leachate collection system drainage layer is sandwiched between two layers of geotextile on the cell floor and would collect significant volumes of leachate draining through the waste mass during operations and before placement of the cap. It would also collect small volumes of leachate during the post-operations period. The geotextile layers would cushion and protect the primary liner and retard infiltration of fines from the overlying soil and waste into the gravel, which would prolong the functional life of the leachate recovery system. Perforated leachate collection pipes would be placed in the gravel drainage layer and collect leachate in a central line that gravity flows out of the cell to a collection sump in the leachate collection and transfer facility. The primary leachate collection system would be designed with perforated collection piping and antiseep collars similar to those in the leak detection system drainage layer. On the sloping walls of the disposal cell, geonet (a plastic grid sandwiched between two layers of geotextile and with triple the flow capacity of gravel) would be used to transmit leachate to the gravel leachate collection system on the cell base. Man-made materials would be selected for compatibility with the expected leachate chemistry.

- 1-ft protective soil layer: A protective layer at least 1 ft thick would be placed over the upper leachate collection system geotextile to prevent damage to the underlying layers during operations.

Figure I.9 shows a typical cross section of a RCRA Subtitle C hazardous waste landfill liner system with the various layers that form a portion of the waste containment system.

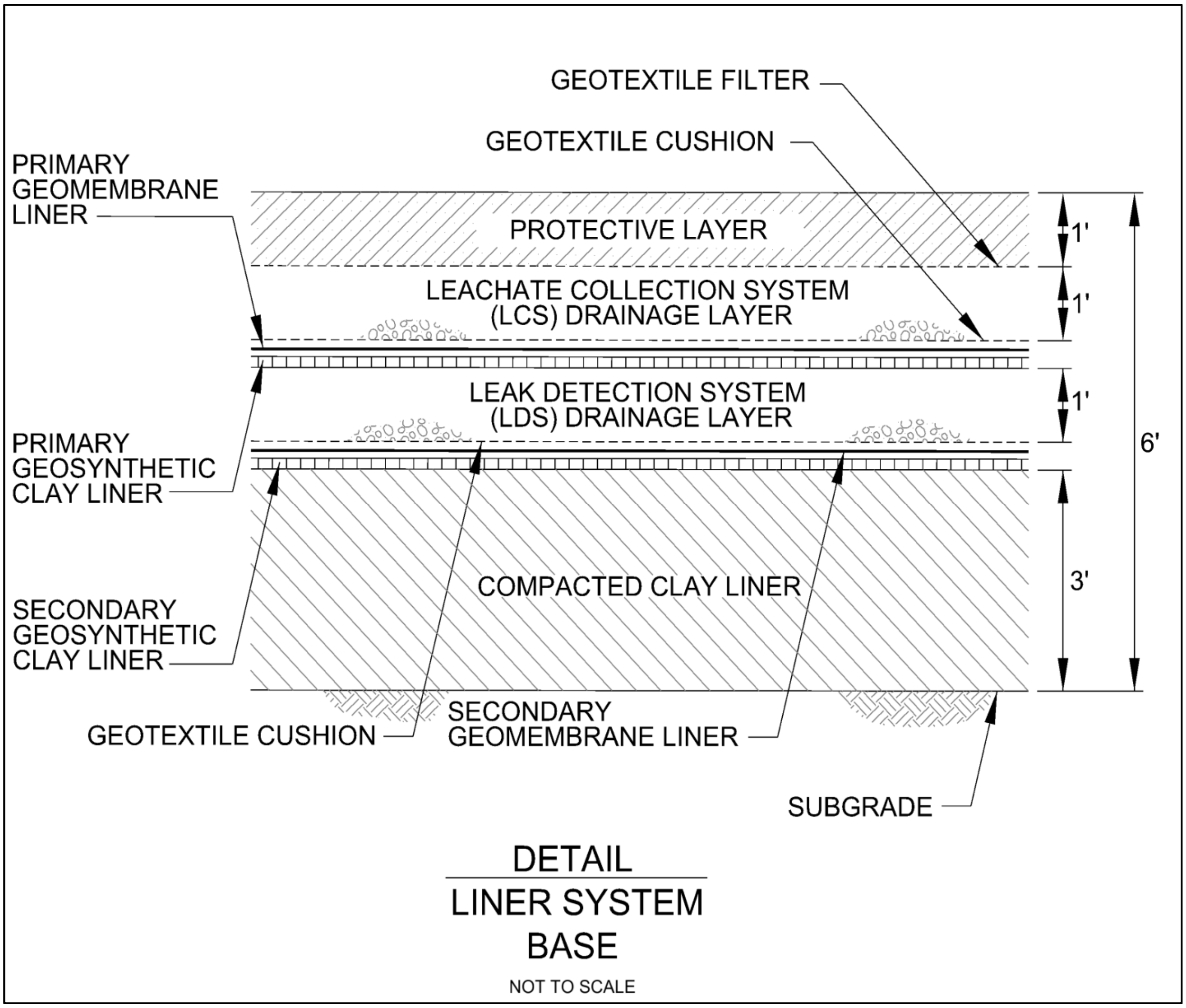


Figure I.9. Typical Section View – Landfill Base Liner System Details for a Potential OSDC at PORTS

I.4.3 COVER SYSTEM

The final cover would be designed and constructed for the following purposes:

- Minimize migration of liquids (precipitation) into the closed disposal cell over the long term
- Promote drainage and minimize erosion or abrasion of the cover
- Accommodate settling and subsidence to maintain the cover’s integrity
- Provide a permeability less than or equal to the permeability of any bottom-liner system or natural subsoils present

- Resist intrusion of humans, plants, and animals

- Minimize future maintenance.

The cover would be sloped to facilitate runoff and would be placed over the waste and into the perimeter of the disposal cells. The conceptual design for the nominal 10-ft-thick cover consists of the following elements from the top of the waste to the top of the cap:

- Soil contour layer: Following the placement of waste to final grade in any area, a soil contour layer would be placed over the waste to reduce infiltration and contain the waste before capping. The soil contour layer would include a 1-ft minimum clay contour soil layer to provide an intermediate uniform layer between the wastes and the final cover. This cover would bring the disposal cell to final grade in preparation for cover placement, reduce infiltration, and protect the permanent cover layer from settlement within the waste cell. With proper maintenance of the soil contour layer, this temporary cover would reduce infiltration sufficiently, pending installation of the other cap components.

- Secondary hydraulic barrier: during final capping, a 2-ft-thick, low-permeability clay layer would be placed above the soil contour layer. This layer is considered to be the secondary hydraulic barrier and would be similar in design to the low-permeability clay layer in the secondary base liner.

- Primary hydraulic barrier: A GCL and FML would be installed above the low-permeability soil layer. The GCL would serve as an additional low-permeability layer and would prevent infiltration. A thin layer of low-permeability clay would be placed above the GCL to prevent migration of the bentonite into the drainage layer in the event the geotextiles deteriorate.

- Drainage layer: Above the FML would be a 1-ft gravel drainage layer sandwiched between two layers of geotextile. The upper geotextile would minimize clogging of the drainage layer, and the lower geotextile would protect the FML from puncture.

- Biointrusion barrier: A 3-ft biointrusion barrier would prevent burrowing animals and plant root systems from penetrating the cover system and would also discourage inadvertent human intrusion by increasing the difficulty of digging or drilling into the cell. This layer would be constructed of cobbles (large, rounded stones) and is assumed to be a vertical percolation layer only to facilitate infiltration of water into the drainage layer, however some benefit to lateral drainage may be expected. A 6-in., graded natural filter (granular layer) would overlie the biointrusion layer to prevent clogging of the porous layer with overlying soil.

- Vegetative soil layer: A 2-ft vegetated soil layer over the filter layer (at a 2 to 2.5 percent grade on top of the cap) would provide conditions that support a vegetative cover to reduce erosion. A 6-in.-thick layer of topsoil would provide for permanent vegetation on top of the cap. To eliminate erosion until the permanent vegetation is established, an erosion mat would be installed to protect the other cover layers from the effects of wind and water erosion. It would accommodate the typical root systems of planted and native vegetation. This layer, the drainage layer, and the biointrusion layer together would be much thicker than the local frost depth, preventing frost damage to the FML and the low-permeability soil layer. Side slopes (6 ft horizontal to 1 ft vertical) of the cover system would be covered with a 2-ft soil/rock matrix and a 3-ft riprap layer to minimize erosion.

Figure I.10 shows a typical cross section of a RCRA Subtitle C hazardous waste landfill cap system with the various layers that form a portion of the waste containment system.

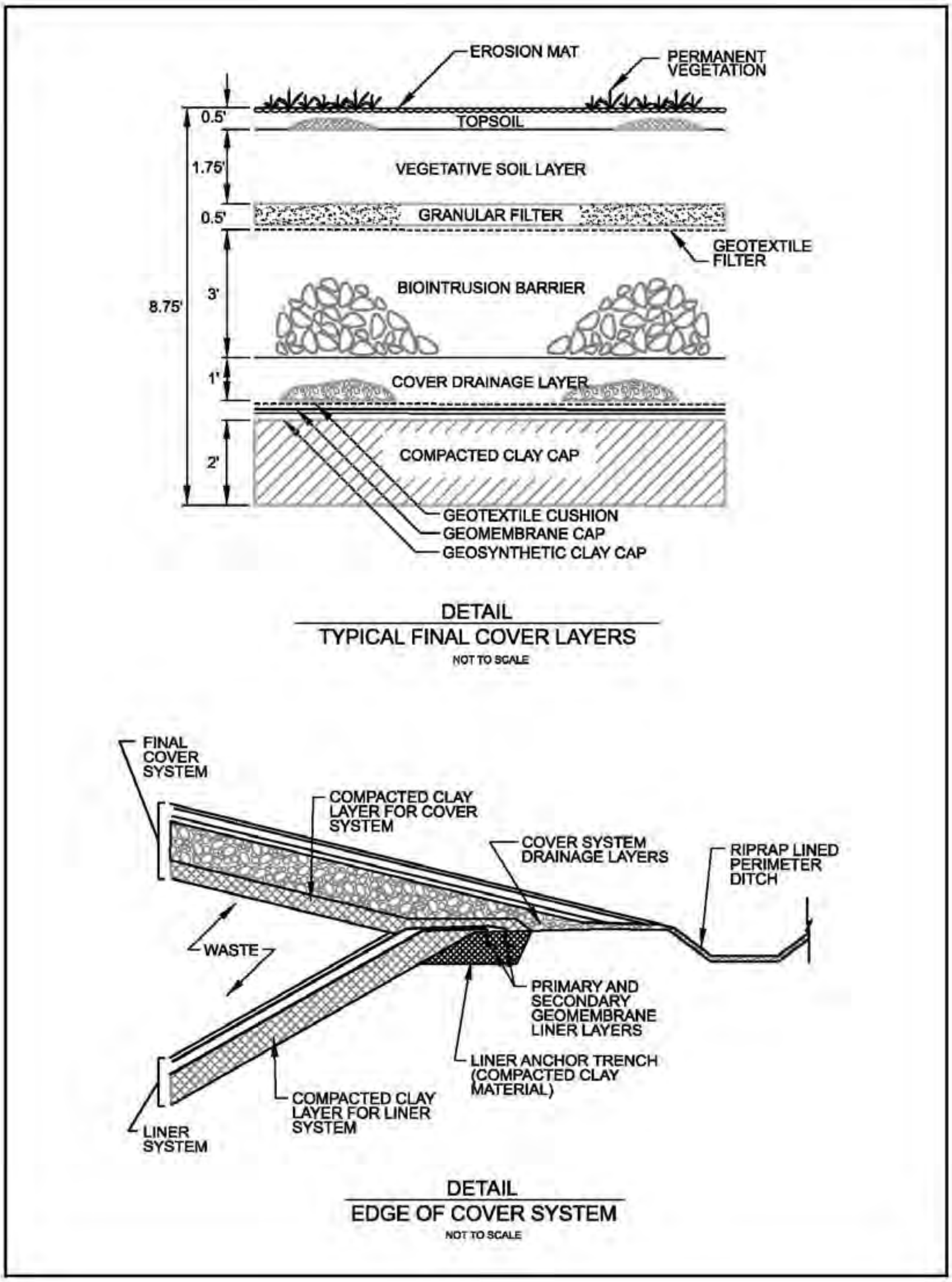


Figure I.10. Typical Section View – Landfill Final Cap Cover for a Potential OSDC at PORTS

The waste layer (averages approximately 50 ft thick) is assumed to consist primarily of contaminated soil and soil-like materials (EC-1), as well as scrap metal, cement-solidified waste, and other building waste (EC-2), based on analysis of the waste generation forecast presented in Section 4 of the RI/FS report. These wastes are assumed to be placed in vertical lifts sufficient to minimize void spaces within the waste layer. Specific OSDC waste loading and operational plans and procedures will be developed in post-Record of Decision documentation. For the purposes of draft modeled WAC development, the waste matrix is assumed to consist primarily of soil-like material (EC-1) since the waste (EC-2) is mixed with fill soil (EC-1) at a 2 to 1 ratio in order to meet waste compaction requirements.

The use of high-density polyethylene (HDPE) geomembrane liners in both the landfill cover and base liner systems (typically both a primary and secondary liner) are specifically prescribed by RCRA Subtitle C hazardous waste disposal regulations. Their purpose is primarily to retard the vertical migration of liquids (liners have extremely low hydraulic conductivity values), particularly when high volumes of leachate are expected, such as during operations, and secondarily to facilitate leachate collection and removal. Until very recently, there were little to no long-term performance metrics for HDPE liners. Landfill design and disposal experts have recently developed evidence, through empirical testing and research, that HDPE liners could perform their intended function for upwards of 500 to 1,000 years or more (Rowe et al. 2009). Currently, neither EPA nor the U.S. Nuclear Regulatory Commission (NRC) has developed regulations or guidance specific to assumptions regarding the expected longevity of HDPE liners. However, the NRC held a barriers workshop in August 2010 to gather information necessary to support development of future guidance. The document titled *Composite Barrier Longevity in Service at the Potential Portsmouth On-Site Disposal Cell* (Phifer and Denham 2012) indicates that the minimum service life of HDPE membranes in a potential OSDC would be on the order of 600 to 1,400 years. Nevertheless, for this draft modeled WAC evaluation, the DOE assumption is that no long-term credit is taken for the HDPE membranes in either the cap or liner systems after 200 years.

I.5. MODELED WASTE ACCEPTANCE CRITERIA

I.5.1 MODELING APPROACH AND MODELING CODES

This section provides descriptions of the computer models that were used to analyze fate and transport for a potential OSDC at Site D. To support the specific objectives of this analysis, existing and proven modeling tools, input parameters, and processes were used. The models selected are consistent with those described in the *Work Plan for Modeling Analysis in Support of Regulatory Decisions at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2011b).

The Hydrologic Evaluation of Landfill Performance (HELP) model (Schroeder et al. 1994) was used to evaluate the water budget for a potential OSDC cell. The purpose of the model is to calculate the infiltration rates to groundwater through the varying layers of a potential OSDC, including the cover (or cap), waste layer, liner system, and unsaturated zone.

The HELP computer program is a quasi-two-dimensional hydrologic model of water movement across, into, through, and out of landfills. This model accepts weather, soil, and design data. It uses solution techniques that account for the effects of surface storage; snowmelt; runoff; infiltration; evapotranspiration; vegetative growth; soil moisture storage; lateral subsurface drainage; leachate recirculation; unsaturated vertical drainage; and leakage through soil, geomembrane, or composite liners. Landfill systems with various combinations of vegetation, cover soils, waste cells, lateral drain layers, low-permeability barrier clays and/or soils, and synthetic geomembrane liners may be modeled. The

HELP model was developed to assist landfill designers and regulators evaluate the hydrologic performance of proposed landfill designs. The program was designed to conduct water balance analyses for landfills, cover systems, and solid waste disposal and containment facilities. As such, the model facilitates rapid estimation of the amounts of runoff, evapotranspiration, drainage, leachate collection, and liner leakage that may be expected to result from operations involving a wide variety of landfill designs. The HELP model requires general climatic data, design parameters, and soil characteristics to perform the analysis. These are as follows:

- **Climatic data**. The needed general climatic data include growing season, average quarterly relative humidity, normal mean monthly temperatures and precipitation, maximum leaf area index, evaporative zone depth, and latitude. PORTS Facility meteorological data were used where available. Other parameters such as solar radiation and growing season were taken from the database provided in the HELP model, using the default values for the PORTS area.

- **Design parameters**. Potential OSDC design parameters include such items as the slope and maximum drainage distance for lateral drainage layers, layer thickness, layer description, area, leachate recirculation procedures, subsurface inflows, surface characteristics, and geomembrane characteristics.

- **Soil characteristics**. Necessary soil data include porosity, field capacity, wilting point, saturated hydraulic conductivity, initial moisture storage, and the U.S. Soil Conservation Service runoff curve number. The porosity, field capacity, wilting point, and saturated hydraulic conductivity are used to estimate the soil-water evaporation coefficient and Brooks-Corey soil moisture retention parameters. The HELP model contains default soil characteristics for 42 material types that are used when measurements or site-specific estimates are not available. Geotechnical parameters used in the model for each layer will also be based on final design criteria as information becomes available.

The HELP model simulations also calculate the soil moisture contents for the model layers. To determine the change in soil moisture content and calculate the steady-state soil moisture contents for the long-term scenario, multiple time periods are simulated. HELP Model (Version 3) (Schroeder et al. 1994), a readily available code in the public domain that was developed for EPA, is used to conduct the HELP model construction and simulations.

The Surface Transport Over Multiple Phases (STOMP) model (White and Oostrom 2000, 2006) was developed by Pacific Northwest National Laboratory for modeling subsurface flow and transport systems and remediation technologies. The fundamental purpose of the STOMP simulator is to produce numerical predictions of thermal and hydrogeologic flow and transport phenomena in variably saturated and fractured subsurface environments that are contaminated with radionuclides and volatile or nonvolatile organic compounds.

Quantitative predictions from the STOMP simulator are generated from the numerical solution of partial differential equations that describe subsurface environmental transport phenomena. Description of the contaminated subsurface environment is founded on governing conservation equations and constitutive functions. Governing coupled flow equations are partial differential equations for the conservation of water mass, air mass, carbon dioxide mass, methane mass, volatile organic compound (VOC) mass, salt mass, and thermal energy. Constitutive functions relate primary variables to secondary variables. Solution of the governing partial differential equations occurs by the integral volume finite difference method. The governing equations that describe thermal and hydrogeological flow processes are solved simultaneously using Newton Raphson iteration to resolve the nonlinearities in the governing equations.

Governing transport equations are partial differential equations for the conservation of solute mass. The governing equations for solute mass conservation are solved sequentially, following the solution of the coupled flow equations. This model has been applied at many DOE facilities.

MODFLOW (McDonald and Harbaugh 1988) and Modular Transport 3-Dimensional (MT3D) may be used to predict the impacts of a potential OSDC on regional groundwater zones and receptors away from the OSDC. The estimated parameters include groundwater flow path, travel time, velocity, flux rate, and concentration.

MODFLOW is a modular, block-centered, finite-difference groundwater flow code developed by the U.S. Geological Survey. It is capable of simulating both transient and steady-state saturated groundwater flow in one, two, or three dimensions. MODFLOW calculates potentiometric head distribution, flow rates, velocities, and water balances throughout an aquifer system. It also includes modules simulating recharge; flow towards wells; and groundwater flow into drains, streams, and rivers. A number of different boundary conditions are available, including specified head, areal recharge, injection or extraction wells, evapotranspiration, drains, streams, or rivers. Aquifers can be simulated as unconfined, confined, or a combination of unconfined and confined.

MODFLOW is used for the analysis because it is in the public domain; is widely used by the industrial, scientific, and governmental communities; has been rigorously tested and verified; and has a variety of software tools that are publicly available for graphical preprocessing and post-processing. In addition, MODFLOW has been used as the code for the PORTS-wide groundwater flow model.

The movement of contaminants in groundwater from the waste cell to points of exposure outside of the waste disposal site are simulated by using the MT3D model (Zheng 1990), a 3-D contaminant fate and transport model code.

MT3D is a comprehensive, 3-D numerical model for simulating solute transport in complex hydrogeologic settings. It is a numerical simulation code that models the fate and transport of dissolved, single-species contaminants in saturated groundwater systems. MT3D calculates concentration distributions, concentration histories at selected receptor points, hydraulic sinks (extraction wells), and the mass of contaminants in the groundwater system. The code can simulate 3-D transport in complex, steady-state, and transient flow fields. It can also represent anisotropic dispersion, source-sink mixing processes, first order transformation reactions, and linear and nonlinear sorption. MT3D offers the user a choice of four solution options, which makes it well suited for handling a wide range of conditions.

MT3D is linked with MODFLOW and is designed specifically to handle advectively dominated transport problems without the need to construct refined models specifically for solute transport. It is a popular 3-D solute transport code and has been used successfully to model hydrogeologic conditions at a variety of sites. MT3D is widely accepted by regulators and the groundwater consulting and research communities.

Because of the lithologic complexity of the potential OSDC site and the unique objectives of the models, links and interactions among the models are required. Potential OSDC design and performance assessment, involving many man-made and design features, are best evaluated with the HELP model. The output data, in terms of water flux to the underlying media, are used as the input parameters for the STOMP model, which is used to predict water and contaminant movement at the OSDC site in unsaturated, water-bearing, and small-area-scale groundwater zones. For the recognized regional groundwater zone beneath the OSDC, such as the Berea sandstone, the MODFLOW model is used.

Figure I.11 shows the model linking and relationships between them.

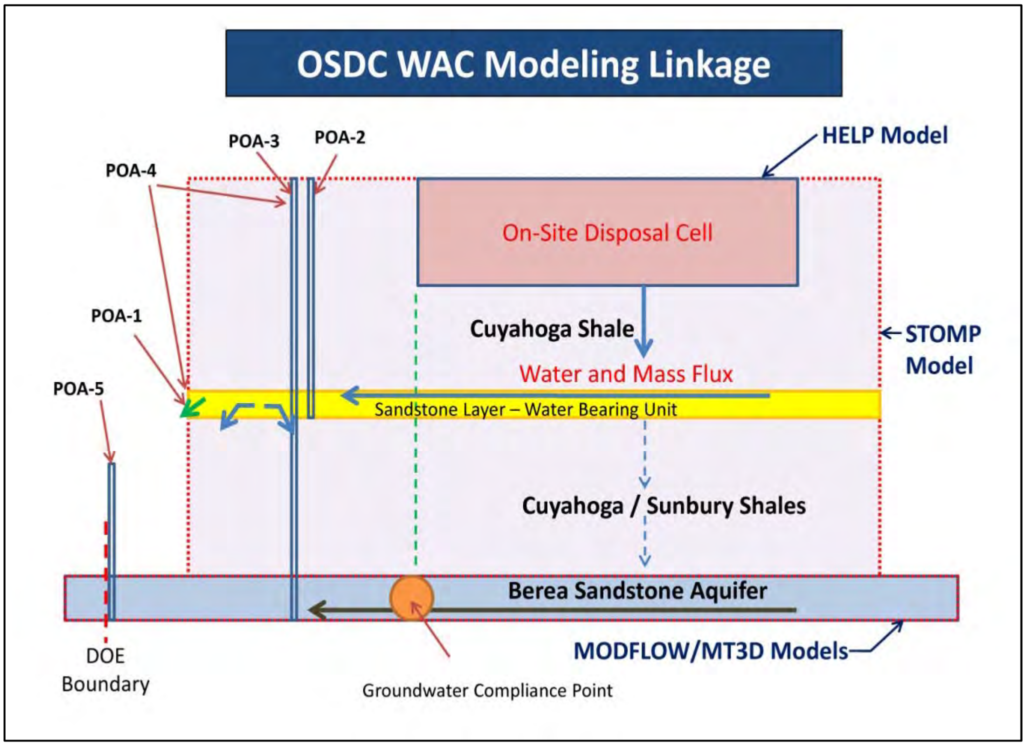


Figure I.11. Waste Acceptance Criteria Model Linkage and Application for PORTS

I.5.2 KEY ASSUMPTIONS AND SITE-SPECIFIC MODELS CONSTRUCTION

I.5.2.1 HELP Model

Climatic Parameters

The general climatic data include weather and evapotranspiration data. These data include growing season, average quarterly relative humidities, normal mean monthly temperatures and precipitation, maximum leaf area index, evaporative zone depth, and latitude. For detailed simulations, daily precipitation and temperature data are also required, either with area-specific data or simulated data based on short-period data for the maximum modeling period for each simulation (100 years).

Daily precipitation and temperature data have been recorded (starting in 1893) continuously at the nearby Waverly weather station, about 5 miles north of the plant. This station is currently operated by the National Oceanic and Atmospheric Administration. It is the most complete long-term weather data available in the area, including 117 years of data ranging from 1893 to 2011. Therefore, the daily data are used for the detailed HELP simulation. The data are also summarized to develop site-specific monthly averages of precipitation and temperature for the HELP model.

The evapotranspiration data for the Cincinnati area, such as solar radiation and growing season, from the database in the HELP model were used. The Cincinnati area has the same latitude (39 degrees) as PORTS.

Table I.6 summarizes the weather and evapotranspiration data used in the HELP model.

Table I.6. Summary of Evapotranspiration and Weather Data in HELP Model

Station Latitude = 39.10 degrees
Maximum Leaf Area Index = 2.00
Start Of Growing Season (Julian Date) = 104
End Of Growing Season (Julian Date) = 295
Evaporative Zone Depth = 21.0 in.
Average Annual Wind Speed = 9.10 mph
Average 1st Quarter Relative Humidity = 70.00%
Average 2nd Quarter Relative Humidity = 67.00%
Average 3rd Quarter Relative Humidity = 73.00%
Average 4th Quarter Relative Humidity = 72.00%

Normal Mean Monthly Precipitation (in.)

January/July	February/August	March/September	April/October	May/November	June/December
3.23	2.63	3.83	3.54	4.12	3.82
4.21	3.82	2.76	2.45	2.76	2.99

Normal Mean Monthly Temperature (ºF)

January/July	February/August	March/September	April/October	May/November	June/December
31.30	33.20	43.00	53.00	62.80	71.30
74.80	73.40	67.00	55.20	43.90	34.00

Design Parameters and Material Characteristics

Design specifications for a potential OSDC at Site D include such items as the slope and maximum drainage distance for lateral drainage layers, layer thickness, layer description, area, leachate recirculation procedures, subsurface inflows, surface characteristics, and geomembrane characteristics.

Necessary data on the soil material include porosity, field capacity, wilting point, saturated hydraulic conductivity, initial moisture storage, and Soil Conservation Service runoff curve number. The porosity, field capacity, wilting point, and saturated hydraulic conductivity are used to estimate the soil-water evaporation coefficients and Brooks-Corey soil moisture retention parameters. The HELP model contains default soil characteristics for 42 material types. They are used when site-specific measurements or estimates are not available.

The proposed engineering design for the disposal cells is used for the design specification, as shown in Section I.4. The geotechnical parameters used in the model for each layer are also based on design criteria. The soil, waste, and geosynthetic material characteristics used in the HELP model are presented in Table I.7.

Table I.7. Design Profile and Soil Characteristics

Layer Number	Material	Layer Type[a]	Layer Thickness (in.)	Soil Texture[b] Type	Total Porosity (vol/vol)	Field Capacity (vol/vol)	Wilting Point (vol/vol)	Sat. Hyd. Conductivity (cm/sec)	Drainage Length (ft)	Drain Slope (%)
1	Top Soil	1	6	10	0.398	0.244	0.136	1.20E-04		
2	Soil	1	21	10	0.398	0.244	0.136	1.20E-04		
3	Filter Sand	1	6	2	0.437	0.062	0.024	5.80E-03		
4	Bio-intrusion (Barrier)	1	36	1	0.417	0.045	0.018	3.0E-01		
5	Drainage	2	12	21	0.397	0.032	0.013	0.300	700	10
6	HDPE (FML)	4	0.06	35				2.00E-13		
7	GCL	3	0.24	17	0.75	0.747	0.4	3.00E-09		
8	Cover Compacted Clay	1	24	16	0.427	0.418	0.367	1.00E-07		
9	Waste	1	600	22	0.419	0.307	0.18	1.90E-05		
10	Protective Layer	1	12	26	0.445	0.393	0.277	1.90E-06		
11	Drainage (Leachate Collection)	2	12	21	0.397	0.032	0.013	0.300	200	2.12
12	HDPE (FML)	4	0.06	35				2.00E-13		
13	GCL	3	0.24	17	0.75	0.747	0.4	3.00E-09		
14	Drainage (Leak Detection)	2	12	21	0.397	0.032	0.013	0.300	200	2.12
15	HDPE (FML)	4	0.06	35				2.00E-13		
16	GCL	3	0.24	17	0.75	0.747	0.4	3.00E-09		
17	Liner Compacted Clay	1	36	16	0.427	0.418	0.367	1.00E-07		

[a] Layer type:
1 - vertical percolation
2 - lateral drainage
3 - barrier soil liner
4 - geomembrane liner

[b] Soil texture type and its characteristics are defined in HELP (Schroeder et. al. 1994)

HDPE = high-density polyethylene
FML = flexible membrane liner
GCL = geosynthetic clay liner

HELP Model Simulation and Results

Because of the long time period considered in the modeled WAC analysis, the designed cell cover and liner system performance will change over time. To account for changes to the material characteristics, the following four scenarios are considered for disposal cell performance:

- Complete design performance – All layers are functional and simulated. It is the design scenario for the duration of the cell operation and the initial full maintenance period. Every aspect of the system is expected to perform as designed, including all engineering-design features such as the HDPE, leachate collection system, and drainage layers.

- Partial design performance – Geomembrane liner layers, consisting of HDPE, are assumed to be totally ineffective after 200 years post-operations. Because there is uncertainty regarding the longevity of the HDPE layers, which have the extremely low permeability of 2E-13 cm/s, it is assumed that the geomembrane liners will no longer function as impermeable layers in the cover and liner systems.

- Long period performance – All engineered GCL layers are assumed to be totally ineffective. The drainage layers in the liner systems are assumed to be ineffective as well, and the drainage layers in the liner system become vertical percolation layers. No water will flow out from these drainage layers of the liner system. The rest of the natural soil materials will maintain their properties.

Figure I.12 shows the general long-term performance of the disposal cell layers and associated modeling assumptions. For the OSDC WAC modeling only, it is assumed that DOE would operate and cap a potential OSDC within an approximate 20-year period. Generally, all engineered systems are assumed to remain fully functional for at least 200 years, with loss in functionality of certain portions of the system after this time frame.

Based on the OSDC design criteria, literature research, applications at other DOE sites, and discussions with Ohio EPA, it is determined that the following performance periods are to be applied for HELP and draft WAC modeling:

- 0-200 years - Complete design performance
- 200-500 years - Partial design performance
- 500-1,000 years - Long-term performance.

Conservative assumptions (those which are lower than expected values) were applied for many of these performance periods resulting in higher modeled contaminant migration rates. For example, various cited references have documented that the HDPE geomembrane liner will last for a period of over 600 years under the typical physiochemical conditions in the landfill system. However, only a 200-year credit is considered for the geomembrane liners. The hydraulic property for the GCL layer in the liner system is also considered to be degraded from 3.0E-09 to 5.0E-08 because of very conservative potential chemical reaction considerations during the partial design performance period. The extremely long period assumed for the cover/liner clays indicates that they will degrade from their initial hydraulic properties to the site-specific Minford clay properties. However, the liner clay layers will be under much greater depth than the Minford clay. Therefore, it is likely that they will remain saturated, which makes the degradation highly unlikely.

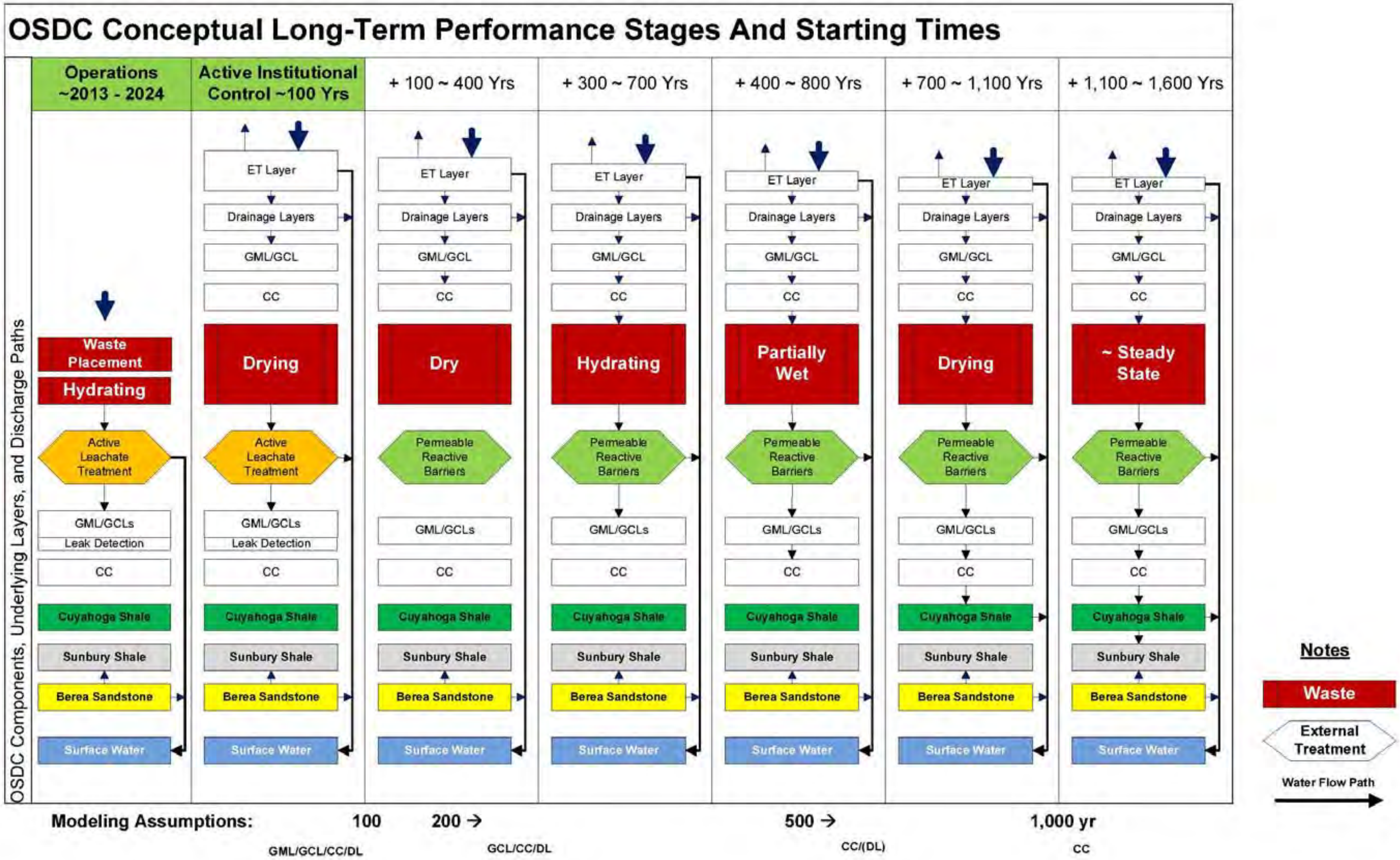


Figure I.12. OSDC Conceptual Long-term Performance at PORTS

HELP model simulations were conducted for each performance period discussed above. Table I.8 summarizes the modeling layer assumptions for the four performance periods and presents the HELP model results.

Table I.8. HELP Model Predicted Mass Balance and Infiltration Rates for Various Performance Periods

Cell Layer System		**Period (Years after Cell Capping)**	**Year 0-200**		**Year 201-500**		**Year 501-1,000**	
Cover System	**Layer Performance**	Topsoil/soil (0.5 ft + 1.75 ft)	Yes		Yes		Yes	
		Sand (0.5 ft)	Yes		Yes		Yes	
		Biointrusion Layer (3 ft Large Cobbles)	Yes		Yes		Yes	
		Drainage (Slope [%]/Length[ft])	10% / 700		10% / 700		10% / 700	
		FML	Yes		Degraded		Degraded	
		GCL	3.0E-09 (cm/s)		3.0E-09 (cm/s)		Degraded (1.0E-07 cm/s)	
		Compacted Clay/ Contour Clay	1.0E-07 cm/s		1.0E-07 cm/s		1.0E-07 cm/s	
	Modeled Results		**(in./yr)**	**(%)**	**(in./yr)**	**(%)**	**(in./yr)**	**(%)**
		Precipitation	39.52	100	39.52	100	39.52	100
		Runoff	3.25	8.23	3.25	8.23	3.25	8.23
		Evapotranspiration	27.74	70.18	27.74	70.18	27.74	70.18
		Drain Collection	8.54	21.62	8.49	21.49	7.02	17.76
		Flux Rate into Waste (in./yr)	**1.00E-05**	0.00004	**0.05**	0.14	**1.08**	3.86
Waste								
Liner System	**Layer Performance**	Soil	Yes		Yes		Yes	
		Leachate Collection Drainage (Slope [%]/Length[ft])	2.12% / 200		2.12% / 200		Not Functional	
		FML	Yes		Degraded		Degraded	
		GCL	Yes		Degraded to (5.0E-08 cm/s)		Degraded (1.0E-07 cm/s)	
		Leak Detection Drainage (Slope [%]/Length[ft])	2.12% / 200		2.12% / 200		Not Functional	
		FML	Yes		Degraded		Degraded	
		GCL	3.0E-09 (cm/s)		Degraded to (5.0E-08 cm/s)		Degraded (1.0E-07 cm/s)	
		Compacted Clay	1.0E-07 cm/s		1.0E-07 cm/s		1.0E-07 cm/s	
	Modeled Results		**in./yr**	**%**	**in./yr**	**%**	**in./yr**	**%**
		Leachate Drain Collection	0.00001	0.00003	0.00061	0.00154		
		Leak Drain Collection	0	0	0.0006	0.00153		
		Flux Rate through Clay Liner (in./yr)	**0.00**	0	**0.05**	0.14	**1.08**	3.84

FML = flexible membrane liner
GCL = geosynthetic clay liner

As shown in Table I.8, no infiltration is expected through the bottom of the liner clay layer and into the underlying Cuyahoga shale for the first 200 years. Additionally, almost no water will enter the waste through the designed cover system for this period (flux of 1E-05 in./yr).

Between 200 and 500 years, a very minimum flux of water is predicted. It enters the waste and is collected by the drainage layer in the liner system. The water flux rate is estimated to be 0.05 in./yr. Between 500 and 1,000 years, the predicted infiltration rate is predicted to increase to 1.08 in./yr. It is noted that the two infiltration rates predicted by the HELP model are higher than the likely natural infiltration rate through the shale formation, based on current investigation and STOMP model simulation of the current conditions. Therefore, applying the higher infiltration rates from the HELP model to the WAC models likely results in higher mass flux to the underlying unit, thereby making the WAC model more conservative.

Various scenarios of cover degradation over time with potential erosion to the biointrusion layer are also simulated with the HELP model. These sensitivity runs provided slightly more variable infiltration rates through the disposal cell, but the results did not change greatly from the base case. Thus, the base case results are used as inputs for the STOMP model.

I.5.2.2 STOMP Model

STOMP Model Construction

A 3-D STOMP model has been developed for the potential OSDC area at Site D. The model domain is selected on the basis of OSDC design, lithological unit distribution, and potential risk receptors. The conceptual OSDC will sit on top of the Cuyahoga shale, which is underlain by Sunbury shale and Berea sandstone. The Berea sandstone is mostly saturated in the area and is considered to be a groundwater aquifer unit. The Berea sandstone is underlain by Bedford shale, a thick shale unit considered to be an aquitard for the area.

During the preliminary investigation, a continuous 2-ft sandstone layer (680-ft sandstone), occurring in the middle of the Cuyahoga shale, was identified as the potential water bearing unit and migration pathway for the contaminants released from the potential OSDC. Therefore, the STOMP model domain is set to include all the potential discharge locations and exposure points associated with the sandstone layer. Figure I.13 shows the model domain used for the 3-D STOMP model.

Construction of the model requires a detailed 3-D representation of the various rock/soil zonations and definition of the boundary conditions. The following data are used to construct the 3-D model:

- Topography
- Lithology
- Cell design.

Based on the site-specific investigation, as discussed in Section 2 of the waste disposition RI/FS report, a detailed 3-D lithologic mapping analysis was conducted during STOMP model development. The distribution of all the stratigraphic units (rock/soil type) is defined in the X, Y, and Z directions. The stratigraphic units include weathered residuum, weathered shale, upper Cuyahoga shale (above the 680-ft sandstone layer), 680-ft sandstone layer, Cuyahoga shale, Sunbury shale, and Berea sandstone. The 680-ft sandstone unit consists of a continuous 2-ft layer and a 6-in. layer separated by a 2-ft shale. Therefore, the unit is represented as a 5-ft-thick layer in the model.

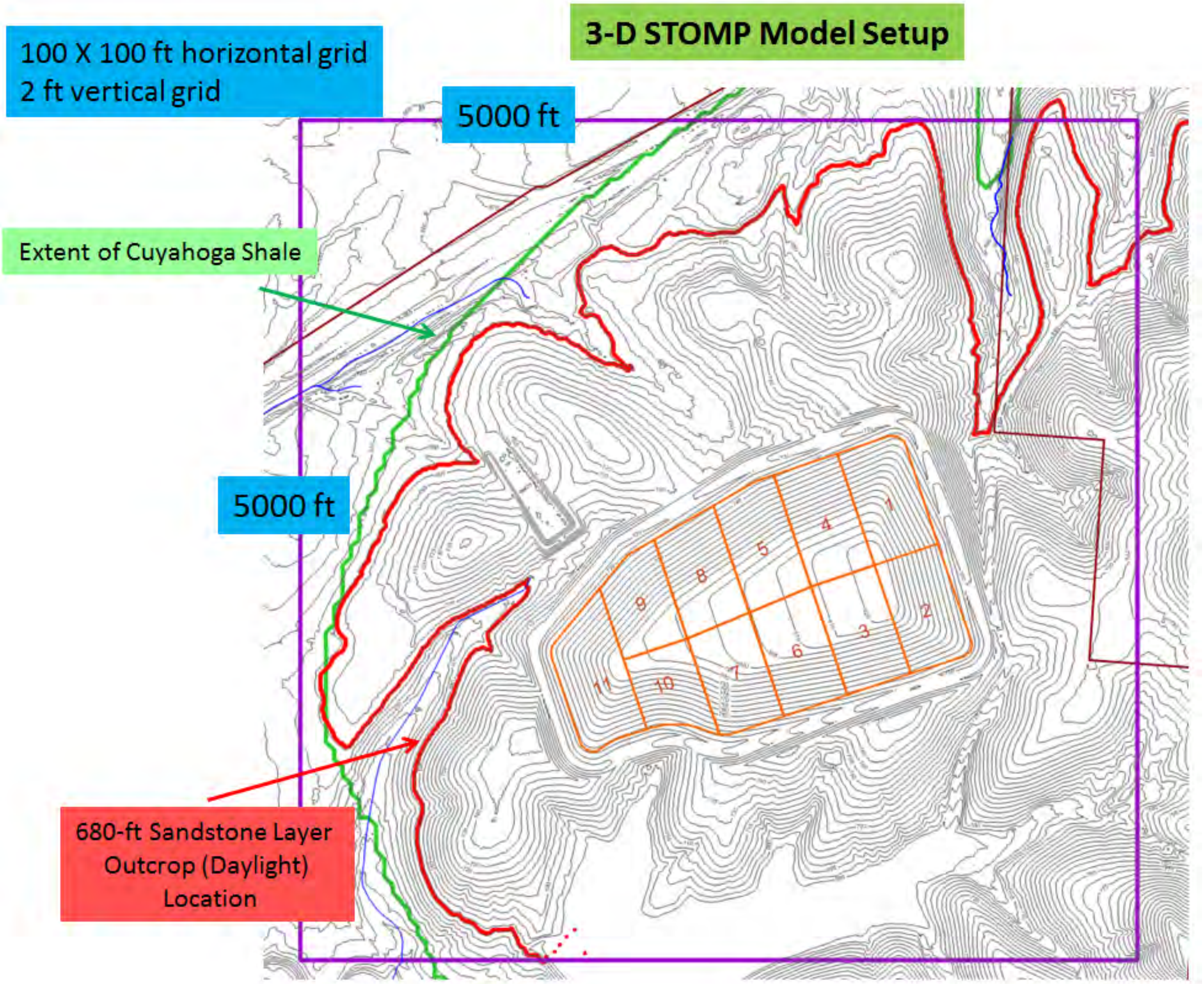


Figure I.13. STOMP Model Domain and Representation for Site D at PORTS

Conceptual design data, previously discussed, are used to define the cover, waste, and liner system. The design data are combined with the current site-specific lithologic data to generate the future stratigraphic distribution of the potential OSDC site. Figure I.14 shows the 3-D distribution of the key layers within the Study Area D model domain.

A horizontally uniform grid system is used to construct the 3-D STOMP model for simplification of model calculation. A grid space of 100 ft is used in both the X and Y directions. Inactive cells are assigned where shale is absent or the area is hydraulically disconnected from the potential OSDC area.

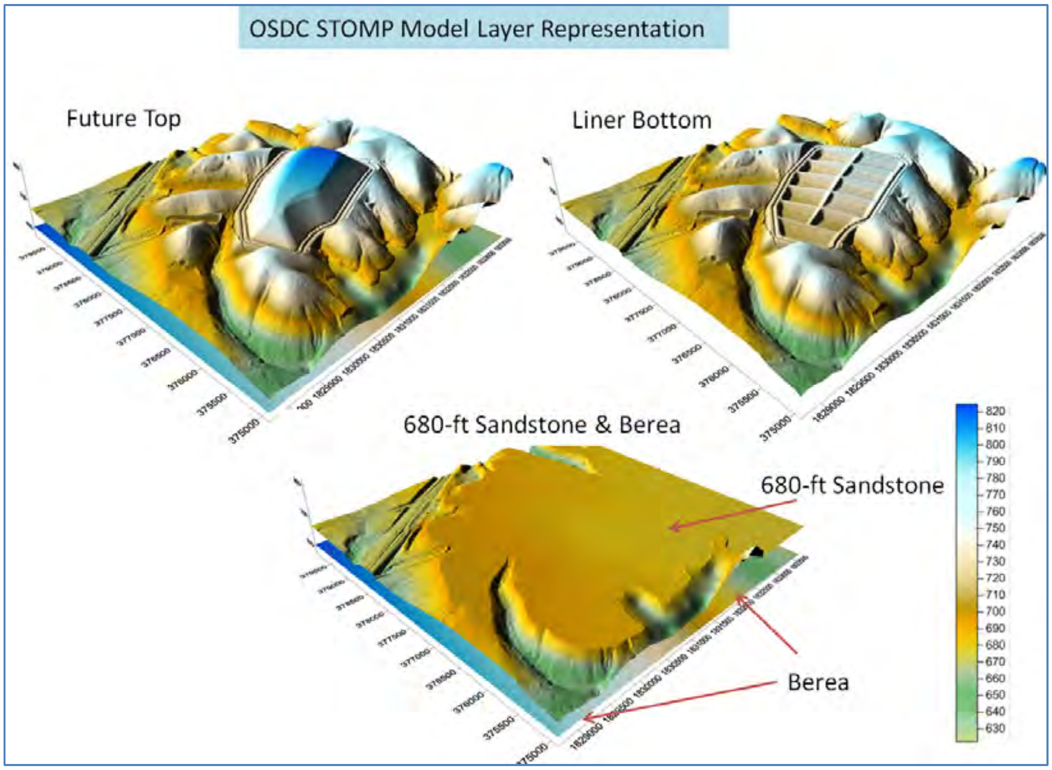


Figure I.14. Three-Dimensional Representation of Key Layers within the Model Domain

Figure I.15 shows a grid setup in the horizontal directions. Fifty cells are used in both the X and Y directions.

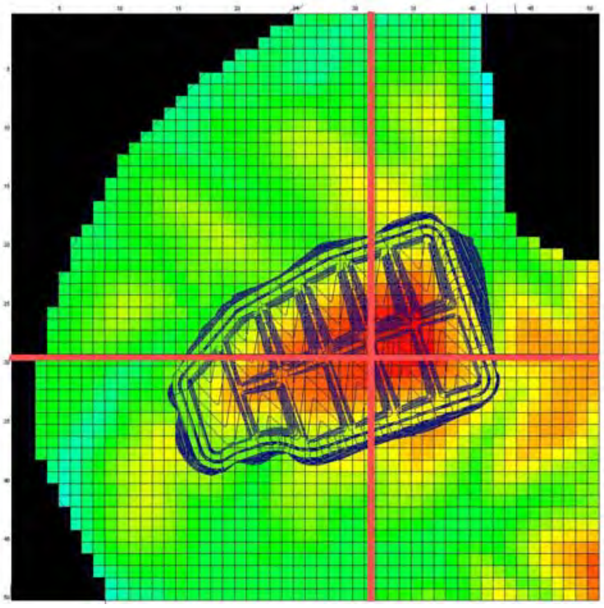


Figure I.15. STOMP Model Grid Setup for Site D at PORTS

A more refined and uniform 2-ft grid space is used to represent the lithologic variation in the vertical direction. The refined grid space in vertical direction allows the model to represent the lithologic variation more precisely and to predict movement of the contaminants in the unsaturated zone beneath the cell because of the unique features of Study Area D. There are 124 layers in the model.

The topography from the conceptual cell design for the affected area and the existing topography outside of the cells are used to establish the top of the active model layer where the top of the Bedford shale is assumed to be the bottom of the active model cells. A free-air flow boundary condition is assigned for all the top nodes of the model layer and all boundary nodes where an unsaturated condition is present. Depending on the water-air pressure relationship, the defined node boundary condition allows the water to get out of the model domain (discharge) if the water pressure is greater than the atmospheric pressure.

The 3-D distribution of the rock/soil types is then represented in the STOMP model. Figures I.16 and I.17 show the vertical representations of the lithologies in the west-east and south-north directions across the potential OSDC footprint. As discussed earlier, the future condition for the X-611B Sludge Pond includes the assumption that the sandstone layer at the northern slope of the pond will be exposed and the assumption that the pond will be drained below the elevation of the sandstone layer; therefore, the current hydraulic head at the X-611B Sludge Pond was not included in the model.

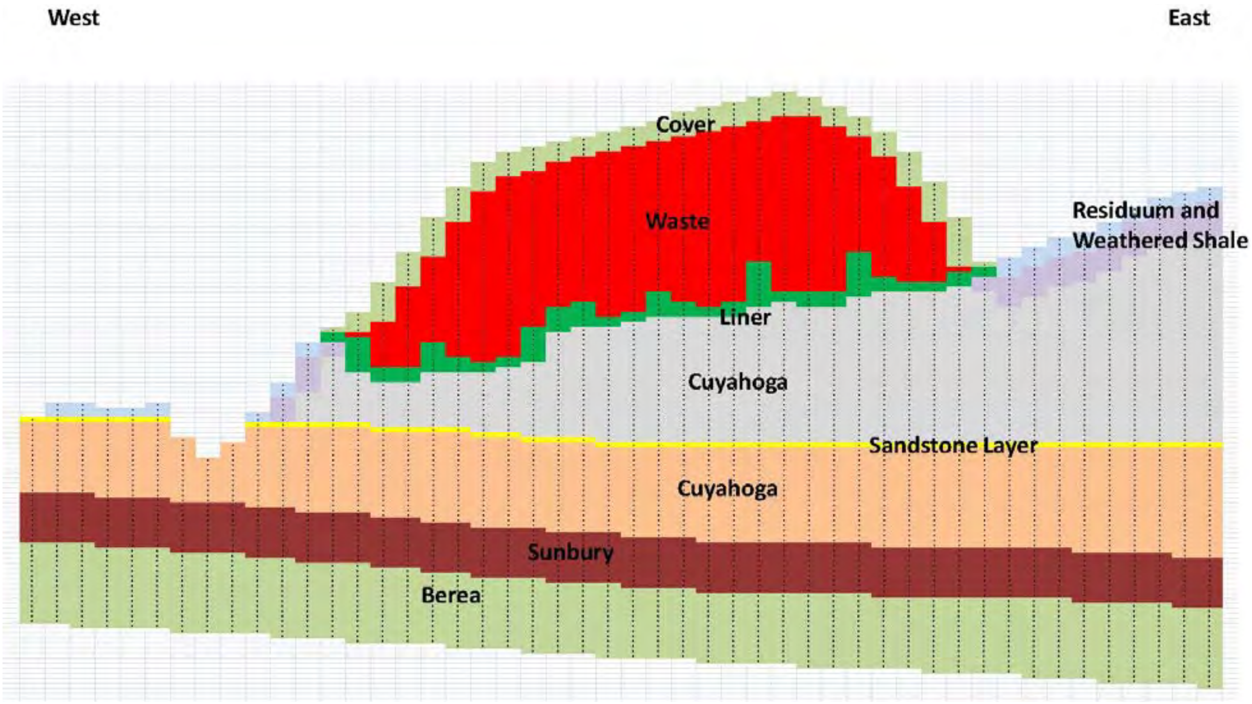


Figure I.16. Vertical Presentation (West-East) in the STOMP Model for Site D at PORTS

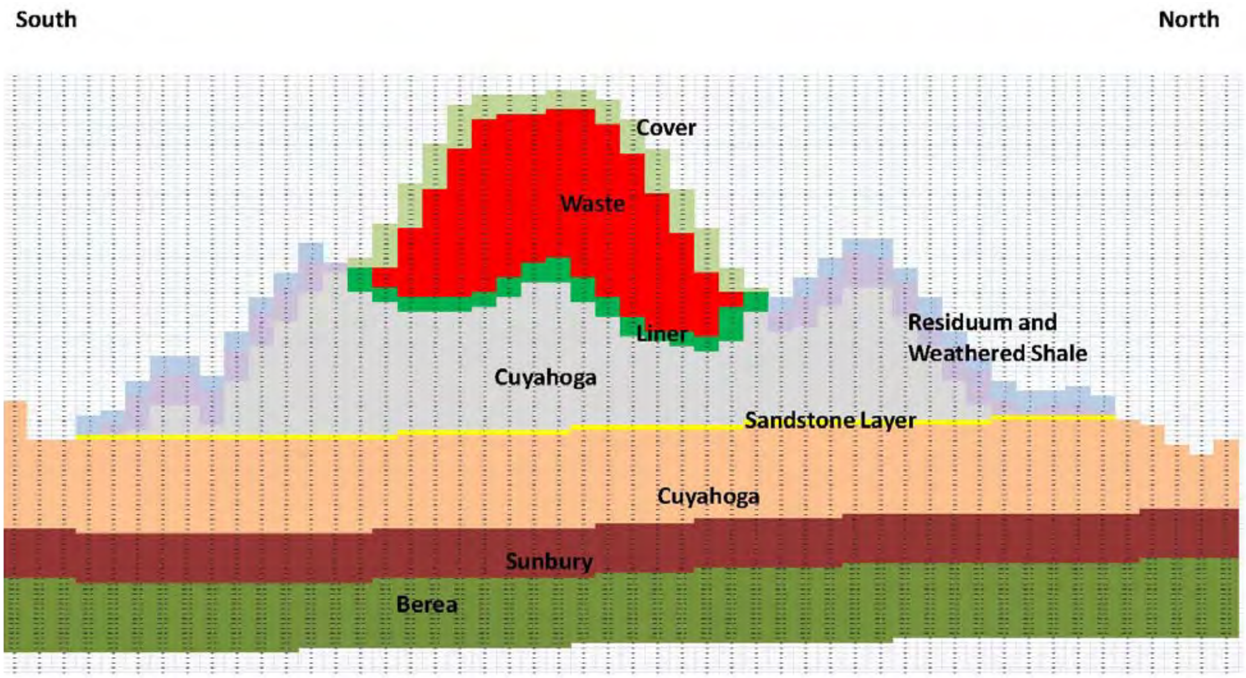


Figure I.17. Vertical Presentation (South-North) in the STOMP Model for Site D at PORTS

Table I.9 summarizes the model construction parameters and the media types represented in the model. Ten rock/soil types are used in the STOMP model.

Table I.9. STOMP Model Summary

Model Grid	Number of Model Columns (along the X Direction)	50
	Number of Model Rows (along the Y Direction)	50
	Number of Model Layers (along the Z Direction)	124
	Number of Model Nodes	310,000
	Number of Active Nodes	182,550
Model Grid Size (ft)	X (uniform)	100
	Y (uniform)	100
	Z (uniform)	2
Material (Rock/Soil) Type	Number of Rock/Soil Types	10
	Rock/Soil Types Modeled	Cell Cover Waste Liner-Clay Residuum Soil Weathered-Shale Upper Cuyahoga-Shale Sandstone-Layer Cuyahoga-Shale Sunbury-Shale Berea-Sandstone

STOMP Model Input Parameters

The input parameter categories required to conduct a STOMP simulation include media, mechanical, and hydraulic properties; saturation function; aqueous relative permeability; solute-fluid interaction; and solute-porous media interaction. These include the following:

- Mechanical properties such as particle density, porosity (total and effective), specific storativity, compressibility, and tortuosity function for each defined rock/soil type
- Hydraulic properties such as intrinsic permeability or hydraulic conductivities in the 3-D directions for each defined rock/soil type
- Saturation function, which defines a saturation-capillary pressure function for each defined rock/soil type
- Aqueous relative permeability, which defines a relative permeability-saturation function for the aqueous phase for each defined rock/soil type
- Solute-fluid interaction, which defines solutes, solute-fluid interactions, and solute radioactive decay path parameters, including diffusion coefficients, radioactive decay rate, and half-life
- Solute-porous media interaction, which defines solid-aqueous phase partition coefficients (K_d) and porous-media-dependent hydraulic dispersivities. The solute-porous parameters are dependent on both the solute and rock/soil type.

All of the input parameters used to conduct the STOMP model are based on investigation data collected at Site D. The investigation, as discussed in Section 2 of the waste disposition RI/FS report, includes the following:

- Lithologic borings
- Water levels and aquifer pump tests
- Geotechnical data
    - Porosity
    - Moisture content
    - Grain size distribution
    - Specific gravity
    - Permeability
    - Hydraulic conductivity.
- Geochemical parameters.
    - Total organic carbon
    - K_d.

The mechanical properties of the conceptual OSDC components, such as cover and liner materials, are based on typical design criteria and the HELP model database. Tables I.10 and I.11 summarize the physical and hydraulic parameters used in the STOMP model for the rock/soil types. The aquifer tests conducted in the 680-ft sandstone identified two hydraulic conductivity zones for the unit. Most of Site D has relatively lower yield; however, this appears to have a higher K zone in the southern part of Site D around PZ-09C and PZ-12C. The southern area near WD-PZ09C and WD-PZ12C appears to be influenced by interconnected fractures and bedding plane partings within the 680-ft sandstone that allow greater transmissivity. Therefore, various hydraulic conductivity values were used during model simulation and sensitivity analysis for the modeled WAC development.

Table I.10. Summary of Soil/Rock Physical Properties in Site D at PORTS

Rock/Soil Types	Particle Density (kg/m^3)	Porosity	Effective (Diffusive) Porosity[1]
Cover	2,650	0.4	0.4
Waste	2,650	0.419	0.419
Liner-Clay	2,650	0.427	0.427
Regolith	2,650	0.4	0.4
Weathered-Shale	2,650	0.25	0.25
Upper Cuyahoga-Shale	2,650	0.16	0.16
Sandstone-Layer	2,650	0.18	0.18
Cuyahoga-Shale	2,650	0.14	0.14
Sunbury-Shale	2,650	0.13	0.13
Berea-Sandstone	2,650	0.21	0.21

[1] For this analysis, effective porosity is assumed to be equivalent to porosity.

Table I.11. Summary of Soil/Rock Hydraulic Conductivities in Site D at PORTS

Rock/Soil Types	K(x) (cm/s)	K(y) (cm/s)	K(z) (cm/s)
Cover	1.00E-05	1.00 E-05	1.00 E-05
Waste	1.00E-04	1.00 E-04	1.00 E-04
Liner-Clay	1.00E-07	1.00 E-07	1.00 E-07
Regolith	5.00E-04	5.00 E-04	1.00 E-04
Weathered-Shale	1.00E-05	1.00 E-05	1.00 E-06
Upper Cuyahoga-Shale	3.20E-06	3.20 E-06	3.20 E-07
Sandstone-Layer	1.00E-04 – 1.40E-02	1.00E-04 – 1.40E-02	1.00 E-05
Cuyahoga-Shale	1.30E-08	1.30 E-08	1.30 E-09
Sunbury-Shale	4.40E-08	4.40 E-08	4.40 E-09
Berea-Sandstone	1.90E-04	1.90 E-04	3.80 E-05

K = hydraulic conductivity

The solute-fluid and solute-porous media interaction parameters are needed to conduct the fate and transport analysis for all the constituents. These parameters are obtained from various sources (in addition to site-specific data). Partition coefficients (K_d values) for technetium-99 and uranium have been obtained from analysis of all the rock/soil types at PORTS, as well as from specific waste items to provide waste-matrix K_d values. For other radionuclide and nonradionuclide constituents, a comprehensive compilation of the K_d values was conducted from DOE and EPA documents (DOE 1995b, EPA 1999a, 1999b, 2004; Yu et al. 2001) and WAC studies conducted for other DOE sites such as Fernald (DOE 1996f) and Oak Ridge (DOE 1998c), and Utah Class A Disposal Cell (Whetstone Associates 2011). Based on the compilation, K_d values in the waste for other radionuclides were selected. To reflect the K_d variation in various rock/soil types, the same relationship observed from site-specific uranium K_d values measured in natural media was applied for these radionuclides. Table I.12 lists the K_d

values applied in the STOMP model for the radionuclides in each rock/soil type. The table also lists the half-life and specific activity of each radionuclide.

Compilation of K_d values for inorganic constituents was also conducted by using various sources (EPA 1996, EPA 1999a, EPA 1999b, EPA 2004, EPA 2005, DOE 2009a, DOE 2009b). Based on the data comparison, the K_d values presented in the latest DOE RAIS database (DOE 2012) were used for most of the COC waste source zone K_d values. Compared with the EPA data range, the RAIS data have generally lower K_d values (more mobile); therefore, model results tend to be more conservative. To reflect the K_d variation in various rock/soil types, the same relationship observed from site-specific uranium K_d values among native media was applied for these inorganic constituents. The K_d values for the soil/rock types used in the STOMP model for inorganic constituents are shown in Table I.13.

The chemical-specific parameters for organic constituents, including the octanol-water partition coefficient (K_{OC}), diffusivity in water, and solubility are obtained from the DOE RAIS database (DOE 2012) and the Agency for Toxic Substances and Disease Registry (ATSDR) database (ATSDR 2012). Using the site-specific total organic carbon values for various media and the K_{OC} values, K_d values for the organic constituents were calculated. Table I.14 lists these values.

Most of the organic compounds, especially VOCs and semivolatile organic compounds (SVOCs), undergo biodegradation under typical environmental conditions. The half-life, which represents the time for one-half of the mass of the compound to degrade and be lost, varies greatly as reported in the literature and depends on environmental conditions and the contaminated media. Extensive literature research was conducted to compile all available organic COC half-life values; California Environmental Protection Agency [California EPA] 2000; and World Health Organization [WHO] 2004). The higher values for half-life for the organic COCs from these sources were used and are listed in Table I.14.

Table I.12. K_d Values and Half-life of Radionuclides Used in the STOMP Model

	K_d (mL/g)[1]									
Radionuclide COC	**Waste**	**Liner Clay (Minford)**	**Regolith**	**Upper Cuyahoga Shale**	**Sandstone Layer**	**Lower Cuyahoga Shale**	**Sunbury Shale**	**Berea Sandstone[2]**	**Half-Life (yrs)**	**Specific Activity (pCi/g)**
Technetium-99	2.03	3.79	4.29	4.60	3.38	4.60	217.00	3.34	2.13E+05	1.70E+10
Uranium-234	395	14.20	22.60	6.60	68.00	6.60	757.00	1.54	2.45E+05	6.25E+09
Uranium-235	395	14.20	22.60	6.60	68.00	6.60	757.00	1.54	7.04E+08	2.16E+06
Uranium-236	395	14.20	22.60	6.60	68.00	6.60	757.00	1.54	2.34E+07	6.47E+07
Uranium-238	395	14.20	22.60	6.60	68.00	6.60	757.00	1.54	4.47E+09	3.36E+05
Americium-241	1,700	1,700	2,705.6	790.1	790.1	790.1	90,626.8	184.4	432	3.44E+12
Neptunium-237	500	500	795.8	232.4	232.4	232.4	26,654.9	54.2	2.14E+06	7.05E+08
Plutonium-238	900	900	1,432.4	418.3	418.3	418.3	47,978.9	97.6	87.7	1.71E+13
Plutonium-239	900	900	1,432.4	418.3	418.3	418.3	47,978.9	97.6	2.41E+04	6.22E+10
Plutonium-240	900	900	1,432.4	418.3	418.3	418.3	47,978.9	97.6	6,540	2.28E+11
Thorium-228	3,400	3,400	5,411.3	1,580.3	1,580.3	1,580.3	181,253.5	368.7	1.91	8.20E+14
Thorium-230	3,400	3,400	5,411.3	1,580.3	1,580.3	1,580.3	181,253.5	368.7	7.70E+04	2.02E+10

[1] PORTS site-specific K_d sample data; geometric means presented for Tc-99, U-234, U-235, U-236, and U-238. For other radionuclide COCs, K_d values for waste are from literature values and for other media K_d values are derived based on site-specific uranium K_d relationship.

[2] Descrepencies in the K_d results for the geologic units are due to differing geochemical conditions within the units which alter the sorption affinity of both Tc-99 and uranium.

COC = contaminant of concern
PORTS = Portsmouth Gaseous Diffusion Plant

Table I.13. K_d Values of Inorganics Used in the STOMP Model

	K_d (mL/g)[1]								
Inorganic COCs	**Waste**	**Liner Clay (Minford)**	**Regolith**	**Upper Cuyahoga Shale**	**Sandstone Layer**	**Lower Cuyahoga Shale**	**Sunbury Shale**	**Berea Sandstone**	**Density (g/cm^3)**
Antimony	45.00	45.00	71.62	20.92	20.92	20.92	2398.94	4.88	5.20
Arsenic	208.0	208.0	331.0	96.7	96.7	96.7	11,088.5	22.6	5.75
Barium	200	200	318.3	93	93	93	10,662	21.7	3.62
Beryllium	790.0	790.0	1257.3	367.2	367.2	367.2	42,114.8	85.7	1.85
Cadmium	48.5	48.5	77.2	22.5	22.5	22.5	2585.5	5.3	8.69
Chromium	810.0	810.0	1,289.2	376.5	376.5	376.5	43,181.0	87.8	5.22
Chromium (VI)	7.0	7.0	11.1	3.3	3.3	3.3	373.2	0.8	7.15
Cobalt	45.0	45.0	71.6	20.9	20.9	20.9	2,398.9	4.9	8.86
Copper	35.0	35.0	55.7	16.3	16.3	16.3	1,865.8	3.8	8.96
Fluoride	150.0	150.0	238.7	69.7	69.7	69.7	7,996.5	16.3	1.55
Lead	28,300.0	28,300.0	45,040.8	13,153.5	13,153.5	13,153.5	1,508,669.0	3,069.2	11.3
Lithium	300.0	300.0	477.5	139.4	139.4	139.4	15,993.0	32.5	0.534
Manganese	16.5	16.5	26.3	7.7	7.7	7.7	879.6	1.8	7.3
Mercury	41.0	41.0	65.3	19.1	19.1	19.1	2,185.7	4.4	13.5
Nickel	65.0	65.0	103.5	30.2	30.2	30.2	3,465.1	7.0	8.9
Selenium	15.0	15.0	23.9	7.0	7.0	7.0	799.6	1.6	4.81
Silver	8.3	8.3	13.2	3.9	3.9	3.9	442.5	0.9	10.5
Uranium	395.0	14.2	22.60	6.60	6.60	6.60	757.00	1.48	19.1
Vanadium	100.0	100.0	159.2	46.5	46.5	46.5	5331.0	10.8	6.0
Zinc	62.0	62.0	98.7	28.8	28.8	28.8	3,305.2	6.7	7.13
Cyanide	9.9	9.9	15.8	4.6	4.6	4.6	527.8	1.1	NV

[1] K_d values for uranium are from site-specific data. K_d values for other COCs for the waste/liner clay media are obtained from literature sources, while K_d values for other media are derived based on site-specific uranium K_d value relationship.

COC = contaminant of concern
NV = no value

Table I.14. Chemical Properties for Organic Constituents Applied in the STOMP Model

Organic COCs	Diffusivity in Water (cm^2/s)	K_{oc} (mL/g)	K_d (mL/g)[1]								Half-Life[2] (years)	Solubility (mg/L)
			Waste	Liner Clay (Minford)	Regolith	Upper Cuyahoga Shale	Sandstone Layer	Lower Cuyahoga Shale	Sunbury Shale	Berea Sandstone		
Acenaphthylene	6.98E-06	5.03E+03	1.03E+01	1.03E+01	2.53E+01	3.52E+01	1.79E+01	3.52E+01	4.19E+02	1.79E+01	2	1.61E+01
Acetone	1.15E-05	2.36E+00	4.82E-03	4.82E-03	1.18E-02	1.65E-02	8.41E-03	1.65E-02	1.97E-01	8.41E-03	1	1.00E+06
Anthracene	7.85E-06	1.64E+04	3.35E+01	3.35E+01	8.23E+01	1.15E+02	5.85E+01	1.15E+02	1.37E+03	5.85E+01	2	4.34E-02
Aroclor 1242	5.04E-06	7.81E+04	1.60E+02	1.60E+02	3.92E+02	5.47E+02	2.78E+02	5.47E+02	6.50E+03	2.78E+02	2.58	2.77E-01
Aroclor 1254	4.68E-06	1.31E+05	2.68E+02	2.68E+02	6.58E+02	9.18E+02	4.67E+02	9.18E+02	1.09E+04	4.67E+02	2.58	4.30E-02
Aroclor 1260	4.12E-06	3.50E+05	7.16E+02	7.16E+02	1.76E+03	2.45E+03	1.25E+03	2.45E+03	2.91E+04	1.25E+03	2.58	1.44E-02
Benzene	1.03E-05	1.46E+02	2.98E-01	2.98E-01	7.33E-01	1.02E+00	5.21E-01	1.02E+00	1.22E+01	5.21E-01	2.2	1.79E+03
Benzo[a]anthracene	5.94E-06	1.77E+05	3.62E+02	3.62E+02	8.89E+02	1.24E+03	6.31E+02	1.24E+03	1.47E+04	6.31E+02	2	9.40E-03
Benzo[a]pyrene	5.56E-06	5.87E+05	1.20E+03	1.20E+03	2.95E+03	4.11E+03	2.09E+03	4.11E+03	4.89E+04	2.09E+03	2	1.62E-03
Benzo[b]fluoranthene	5.56E-06	5.99E+05	1.22E+03	1.22E+03	3.01E+03	4.20E+03	2.14E+03	4.20E+03	4.99E+04	2.14E+03	1	1.50E-03
Benzo[g,h,i]perylene	5.23E-06	1.95E+06	3.99E+03	3.99E+03	9.79E+03	1.37E+04	6.95E+03	1.37E+04	1.62E+05	6.95E+03	2	2.60E-04
Benzo[k]fluoranthene	5.56E-06	5.87E+05	1.20E+03	1.20E+03	2.95E+03	4.11E+03	2.09E+03	4.11E+03	4.89E+04	2.09E+03	2	8.00E-04
Bis(2-chloroethyl)ether	8.71E-06	3.22E+01	6.58E-02	6.58E-02	1.62E-01	2.26E-01	1.15E-01	2.26E-01	2.68E+00	1.15E-01	3	1.72E+04
Bromoform	1.04E-05	3.18E+01	6.50E-02	6.50E-02	1.60E-01	2.23E-01	1.14E-01	2.23E-01	2.65E+00	1.14E-01	1	3.10E+03
2-Butanone	1.02E-05	4.51E+00	9.22E-03	9.22E-03	2.26E-02	3.16E-02	1.61E-02	3.16E-02	3.76E-01	1.61E-02	1	2.23E+05
Carbon Tetrachloride	9.78E-06	4.39E+01	8.97E-02	8.97E-02	2.20E-01	3.08E-01	1.57E-01	3.08E-01	3.66E+00	1.57E-01	10	7.93E+02
Chlordane	5.45E-06	6.75E+04	1.38E+02	1.38E+02	3.39E+02	4.73E+02	2.41E+02	4.73E+02	5.62E+03	2.41E+02	2	5.60E-02
Chlordane, gamma-	1.04E-05	3.18E+01	6.50E-02	6.50E-02	1.60E-01	2.23E-01	1.13E-01	2.23E-01	2.65E+00	1.13E-01	5	3.10E+03
Chloro, 3-methylphenol, 4-	4.02E-06	6.75E+04	1.38E+02	1.38E+02	3.39E+02	4.73E+02	2.41E+02	4.73E+02	5.62E+03	2.41E+02	2	5.60E-02
Chlorobenzene	9.48E-06	2.34E+02	4.78E-01	4.78E-01	1.17E+00	1.64E+00	8.34E-01	1.64E+00	1.95E+01	8.34E-01	2	4.98E+02
Chloroform	1.09E-05	3.18E+01	6.50E-02	6.50E-02	1.60E-01	2.23E-01	1.13E-01	2.23E-01	2.65E+00	1.13E-01	1	7.95E+03
Chrysene	6.75E-06	1.81E+05	3.70E+02	3.70E+02	9.09E+02	1.27E+03	6.45E+02	1.27E+03	1.51E+04	6.45E+02	2	2.00E-03
Cresol, m-	9.32E-06	3.00E+02	6.13E-01	6.13E-01	1.51E+00	2.10E+00	1.07E+00	2.10E+00	2.50E+01	1.07E+00	1	2.27E+04
Cresol, o-	9.32E-06	3.07E+02	6.28E-01	6.28E-01	1.54E+00	2.15E+00	1.09E+00	2.15E+00	2.56E+01	1.09E+00	1	2.59E+04
Cresol, p-	9.24E-06	3.00E+02	6.13E-01	6.13E-01	1.51E+00	2.10E+00	1.07E+00	2.10E+00	2.50E+01	1.07E+00	1	2.15E+04
Cresols	9.78E-06	3.07E+02	6.28E-01	6.28E-01	1.54E+00	2.15E+00	1.09E+00	2.15E+00	2.56E+01	1.09E+00	1	2.59E+04
Dibenz[a,h]anthracene	5.21E-06	1.91E+06	3.90E+03	3.90E+03	9.59E+03	1.34E+04	6.81E+03	1.34E+04	1.59E+05	6.81E+03	2	2.49E-03
Dibenzofuran	7.38E-06	9.16E+03	1.87E+01	1.87E+01	4.60E+01	6.42E+01	3.27E+01	6.42E+01	7.63E+02	3.27E+01	2	3.10E+00
Dibromochloromethane	1.06E-05	3.18E+01	6.50E-02	6.50E-02	1.60E-01	2.23E-01	1.13E-01	2.23E-01	2.65E+00	1.13E-01	1	2.70E+03
Dichlorobenzene, 1,4-	8.68E-06	3.75E+02	7.67E-01	7.67E-01	1.88E+00	2.63E+00	1.34E+00	2.63E+00	3.12E+01	1.34E+00	1	8.13E+01

Table I.14. Chemical Properties for Organic Constituents Applied in the STOMP Model (Continued)

			K_d (mL/g)[1]									
Organic COCs	**Diffusivity in Water (cm^2/s)**	**K_{oc} (mL/g)**	**Waste**	**Liner Clay (Minford)**	**Regolith**	**Upper Cuyahoga Shale**	**Sandstone Layer**	**Lower Cuyahoga Shale**	**Sunbury Shale**	**Berea Sandstone**	**Half-Life[2] (years)**	**Solubility (mg/L)**
Dichloroethane, 1,2-	1.10E-05	3.96E+01	8.10E-02	8.10E-02	1.99E-01	2.77E-01	1.41E-01	2.77E-01	3.30E+00	1.41E-01	2	8.60E+03
Dichloroethene, 1,1-	1.10E-05	3.18E+01	6.50E-02	6.50E-02	1.60E-01	2.23E-01	1.13E-01	2.23E-01	2.65E+00	1.13E-01	0.91	2.42E+03
Dichloroethene, 1,2-	1.12E-05	3.96E+01	8.10E-02	8.10E-02	1.99E-01	2.77E-01	1.41E-01	2.77E-01	3.30E+00	1.41E-01	0.91	3.50E+03
Dieldrin	6.01E-06	2.01E+04	4.11E+01	4.11E+01	1.01E+02	1.41E+02	7.17E+01	1.41E+02	1.67E+03	7.17E+01	5	1.95E-01
Dimethylphthalate	7.14E-06	3.16E+01	6.46E-02	6.46E-02	1.59E-01	2.21E-01	1.13E-01	2.21E-01	2.63E+00	1.13E-01	1	4.00E+03
Dinitrotoluene, 2,4-	7.90E-06	5.76E+02	1.18E+00	1.18E+00	2.89E+00	4.04E+00	2.05E+00	4.04E+00	4.80E+01	2.05E+00	2	2.00E+02
D, 2,4-	6.07E-06	2.96E+01	6.05E-02	6.05E-02	1.49E-01	2.07E-01	1.06E-01	2.07E-01	2.47E+00	1.06E-01	1	6.77E+02
Endosulfan II	4.04E-06	6.76E+03	1.38E+01	1.38E+01	3.39E+01	4.74E+01	2.41E+01	4.74E+01	5.63E+02	2.41E+01	6	4.50E-01
Endosulfan sulfate	3.94E-06	9.85E+03	2.01E+01	2.01E+01	4.94E+01	6.90E+01	3.51E+01	6.90E+01	8.20E+02	3.51E+01	6	4.80E-01
Endrin	4.22E-06	2.01E+04	4.11E+01	4.11E+01	1.01E+02	1.41E+02	7.17E+01	1.41E+02	1.67E+03	7.17E+01	12	2.50E-01
Endrin ketone	4.22E-06	9.72E+03	1.99E+01	1.99E+01	4.88E+01	6.81E+01	3.47E+01	6.81E+01	8.09E+02	3.47E+01	14	7.55E-02
Ethylbenzene	8.46E-06	4.46E+02	9.12E-01	9.12E-01	2.24E+00	3.12E+00	1.59E+00	3.12E+00	3.71E+01	1.59E+00	1	1.69E+02
Heptachlor	5.70E-06	4.13E+04	8.44E+01	8.44E+01	2.07E+02	2.89E+02	1.47E+02	2.89E+02	3.44E+03	1.47E+02	2	1.80E-01
Hexachlorobenzene	7.85E-06	6.20E+03	1.27E+01	1.27E+01	3.11E+01	4.34E+01	2.21E+01	4.34E+01	5.16E+02	2.21E+01	6	6.20E-03
Hexachlorobutadiene	7.03E-06	8.45E+02	1.73E+00	1.73E+00	4.24E+00	5.92E+00	3.01E+00	5.92E+00	7.04E+01	3.01E+00	2	3.20E+00
Hexachlorocyclohexane, alpha-	5.06E-06	2.81E+03	5.74E+00	5.74E+00	1.41E+01	1.97E+01	1.00E+01	1.97E+01	2.34E+02	1.00E+01	1	2.00E+00
Hexachloroethane	8.89E-06	1.97E+02	4.03E-01	4.03E-01	9.89E-01	1.38E+00	7.02E-01	1.38E+00	1.64E+01	7.02E-01	1	5.00E+01
Hexanone, 2-	8.44E-06	1.50E+01	3.07E-02	3.07E-02	7.53E-02	1.05E-01	5.35E-02	1.05E-01	1.25E+00	5.35E-02	5	1.72E+04
Indeno[1,2,3-cd]pyrene	5.23E-06	1.95E+06	3.99E+03	3.99E+03	9.79E+03	1.37E+04	6.95E+03	1.37E+04	1.62E+05	6.95E+03	2	1.90E-04
Lindane	5.06E-06	2.81E+03	5.74E+00	5.74E+00	1.41E+01	1.97E+01	1.00E+01	1.97E+01	2.34E+02	1.00E+01	2	7.30E+00
Methoxychlor	5.59E-06	2.69E+04	5.50E+01	5.50E+01	1.35E+02	1.88E+02	9.59E+01	1.88E+02	2.24E+03	9.59E+01	1	1.00E-01
Methylene Chloride	1.25E-05	2.17E+01	4.44E-02	4.44E-02	1.09E-01	1.52E-01	7.74E-02	1.52E-01	1.81E+00	7.74E-02	5	1.30E+04
Methylnaphthalene, 2-	7.78E-06	2.48E+03	5.07E+00	5.07E+00	1.24E+01	1.74E+01	8.84E+00	1.74E+01	2.07E+02	8.84E+00	2	2.46E+01
Naphthalene	8.38E-06	1.54E+03	3.15E+00	3.15E+00	7.73E+00	1.08E+01	5.49E+00	1.08E+01	1.28E+02	5.49E+00	0.4	3.10E+01
Nitrobenzeneamine, 4-	9.75E-06	1.09E+02	2.23E-01	2.23E-01	5.47E-01	7.64E-01	3.89E-01	7.64E-01	9.08E+00	3.89E-01	1	7.28E+02
Nitrobenzene	9.45E-06	2.26E+02	4.62E-01	4.62E-01	1.13E+00	1.58E+00	8.06E-01	1.58E+00	1.88E+01	8.06E-01	1	2.09E+03
Nitrophenol, 4-	9.94E-06	2.91E+02	5.95E-01	5.95E-01	1.46E+00	2.04E+00	1.04E+00	2.04E+00	2.42E+01	1.04E+00	1	1.16E+04
n-Nitroso-di-n-propylamine	7.76E-06	2.75E+02	5.62E-01	5.62E-01	1.38E+00	1.93E+00	9.80E-01	1.93E+00	2.29E+01	9.80E-01	1	1.30E+04
Pentachlorophenol	8.01E-06	4.96E+03	1.01E+01	1.01E+01	2.49E+01	3.48E+01	1.77E+01	3.48E+01	4.13E+02	1.77E+01	1	1.40E+01

Table I.14. Chemical Properties for Organic Constituents Applied in the STOMP Model (Continued)

			K_d (mL/g)[1]									
Organic COCs	**Diffusivity in Water (cm^2/s)**	**K_{oc} (mL/g)**	**Waste**	**Liner Clay (Minford)**	**Regolith**	**Upper Cuyahoga Shale**	**Sandstone Layer**	**Lower Cuyahoga Shale**	**Sunbury Shale**	**Berea Sandstone**	**Half-Life[2] (years)**	**Solubility (mg/L)**
Phenanthrene	6.69E-06	1.67E+04	3.41E+01	3.41E+01	8.38E+01	1.17E+02	5.95E+01	1.17E+02	1.39E+03	5.95E+01	2	1.15E+00
Pyridine	1.09E-05	7.17E+01	1.47E-01	1.47E-01	3.60E-01	5.02E-01	2.56E-01	5.02E-01	5.97E+00	2.56E-01	1	1.00E+06
Tetrachloroethene	9.46E-06	9.49E+01	1.94E-01	1.94E-01	4.76E-01	6.65E-01	3.38E-01	6.65E-01	7.90E+00	3.38E-01	2.08	2.06E+02
Toluene	9.20E-06	2.34E+02	4.78E-01	4.78E-01	1.17E+00	1.64E+00	8.34E-01	1.64E+00	1.95E+01	8.34E-01	1	5.26E+02
Toxaphene	4.00E-06	7.72E+04	1.58E+02	1.58E+02	3.88E+02	5.41E+02	2.75E+02	5.41E+02	6.43E+03	2.75E+02	12	7.40E-01
Trichloroethane, 1,1,1-	9.60E-06	4.39E+01	8.97E-02	8.97E-02	2.20E-01	3.08E-01	1.57E-01	3.08E-01	3.66E+00	1.57E-01	6	1.29E+03
Trichloroethane, 1,1,2-	1.00E-05	6.07E+01	1.24E-01	1.24E-01	3.05E-01	4.25E-01	2.16E-01	4.25E-01	5.05E+00	2.16E-01	10	4.59E+03
Trichloroethene	1.02E-05	6.07E+01	1.24E-01	1.24E-01	3.05E-01	4.25E-01	2.16E-01	4.25E-01	5.05E+00	2.16E-01	10	1.28E+03
Trichlorophenol, 2,4,5-	8.09E-06	1.78E+03	3.64E+00	3.64E+00	8.94E+00	1.25E+01	6.35E+00	1.25E+01	1.48E+02	6.35E+00	1	1.20E+03
Trichlorophenol, 2,4,6-	8.09E-06	1.78E+03	3.64E+00	3.64E+00	8.94E+00	1.25E+01	6.35E+00	1.25E+01	1.48E+02	6.35E+00	1	8.00E+02
TP, 2,4,5-T (Silvex)	5.32E-06	1.75E+02	3.58E-01	3.58E-01	8.78E-01	1.23E+00	6.24E-01	1.23E+00	1.46E+01	6.24E-01	1	7.10E+01
Vinyl acetate	1.00E-05	5.58E+00	1.14E-02	1.14E-02	2.80E-02	3.91E-02	1.99E-02	3.91E-02	4.65E-01	1.99E-02	1	2.00E+04
Vinyl chloride	1.20E-05	2.17E+01	4.44E-02	4.44E-02	1.09E-01	1.52E-01	7.74E-02	1.52E-01	1.81E+00	7.74E-02	7.91	8.80E+03

Water diffusivity, K_{OC}, and solubility data are from DOE 2012.

[1] K_d values derived based on geometric means of site-specific organic carbon content for the media. The following F_{oc} values are used: Waste/Liner Clay - 0.00204; Residuum/Weathered Shale - 0.00502; Cuyahoga Shale - 0.00701; Sunbury Shale - 0.0833; and Sandstone Layer/Berea Sandstone - 0.00357.
[2] For short half-life COCs, 1 year half-life was assumed.

COC = contaminant of concern
DOE = U.S. Department of Energy

STOMP Model Simulations

Using the parameters discussed above, the STOMP model simulations are conducted in both water-only and coupled-water fate and transport analysis. For water-only simulations, the movement of the water is predicted as the travel time and flux to the underlying sandstone layer and ultimately to the potential receptor locations, as well as to the Berea sandstone, and is presented as saturation profiles over time.

The following water infiltration rates predicted by the HELP model are used as the top boundary flux rates within the OSDC footprint over the modeled WAC time period (1,000 years) with the following time frames and assumptions considered:

- 0-200 years - 0.00 in./yr (no water influx into the cells)
- 200-500 years - 0.054 in./yr
- 500-1,000 years - 1.08 in./yr.

Figure I.18 shows the water saturation profile with time, based on the STOMP model calibration run for one of the cell locations. The saturation curve changes in response to the change of water influx rate within the cell, especially after 500 years post-operations when a higher infiltration rate (1.08 in./yr) was applied. The figure also shows that the lower hydraulic conductivities in the lower Cuyahoga and Sunbury impeded the downward movement of water. The relatively more permeable sandstone layer in the Cuyahoga provides a preferable water pathway for horizontal movement.

Depending on the cell location (in relation to depth to the sandstone layer), the arrival times of water to the sandstone layer ranged from 550 to 600 years. It will take an additional 10-30 years for horizontal migration to occur and reach the sandstone exposure locations along the western stream ditch and X-611 Sludge Pond.

Initial moisture content assigned to the layers in the model has a large impact on the initial water arrival time. Additionally, the moisture content will impact the initial arrival time of constituents. However, the initial moisture content has less impact on peak concentration because the constituent mass flux from the OSDC footprint is controlled by the performance of the potential OSDC.

Using the solute-porous media and solute-fluid parameters, as discussed earlier, the fate and transport of the constituents are modeled. The waste zones in the cells are assigned as the source zone, and an initial unit mass concentration is assigned. The fate and movement of the constituents are then modeled to 1,000 years.

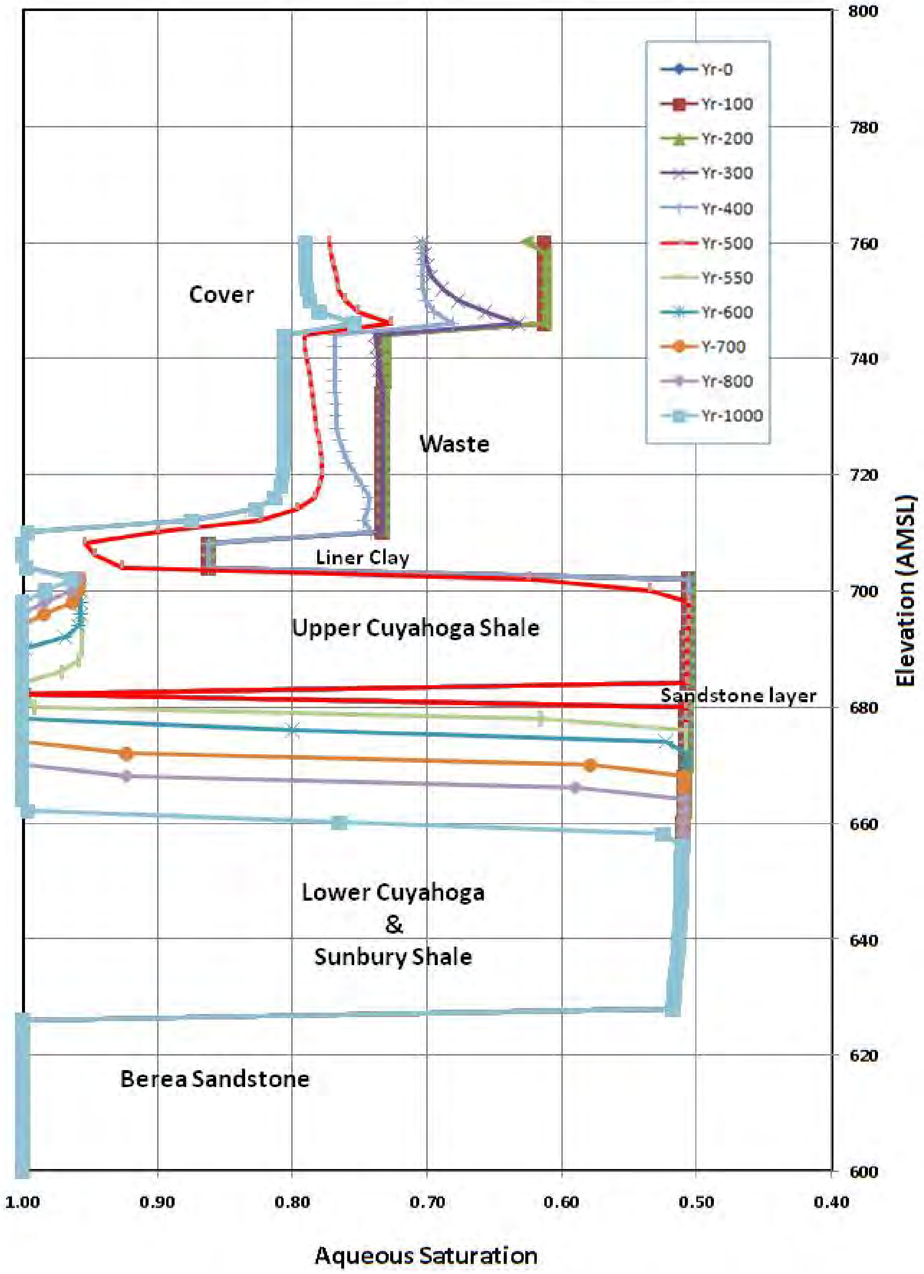


Figure I.18. Water Saturation Profile with Time in Site D at PORTS

The initial unit source concentration of 1 g/cm^3 is assigned for each COC. The source concentration (C) is a combined solute mass absorbed on soil (C_S) and dissolved in the aqueous phase (C_L), based on linear partitioning of solutes between the porous media and aqueous phase:

$$C = C_L \times \text{Porosity} \times \text{Aqueous initial saturation} + C_S \times (1 - \text{porosity})$$

where $C_L = C_S / (K_d \times \text{Particle density})$.

Therefore, the source concentration of each solute at the source in the model simulation is dependent on the source K_d values. The initial aqueous saturation of 0.73 for the source zone is based on HELP model results. It is the ratio of field capacity and porosity. Based on this K_d relationship, the initial source leachate concentration calculated for the organic COCs are higher than their respective solubility limits. Therefore, for these COCs the initial source leachate concentration will be set to the solubility limits.

It should be noted that the mass of constituents considered in the waste placed in a potential OSDC would be subjected to processes that result in reduction over time, including:

- Mass removed during cell operations by contact water collection and removal
- Mass removed by the leachate collection system between years 0 and 500
- Mass migration to beneath the potential OSDC and potentially to environmental media after 500 years.

Batch leach test results conducted using samples from the PGE at PORTS confirmed that contaminant mass may be reduced during initial potential OSDC operations, throughout the operation of the leachate collection system, and due to the reducing geochemical environment along the migration pathway (DOE 2013). However, for conservatism, these processes are not considered in the STOMP model. Therefore, all constituent mass that would be present in the waste when the potential OSDC is capped is assumed to be available for migration to the environmental media, resulting in overestimation of the resultant concentrations and thus lower modeled WAC limits.

As shown in Figure I.19, the 680-ft sandstone layer becomes the major migration pathway for COC movement due to the lower permeability nature of the lower Cuyahoga. Thus, the movement of COCs within the 680-ft sandstone layer is analyzed. As previously stated, the 680-ft sandstone layer tilts to the southeast at Site D. With the design of the conceptual OSDC at Site D, the facility would have the highest cell, relative to the sandstone layer, on the east side, with the bottom of the facility stepping down closer to the sandstone layer toward the west end. Therefore, the vertical distance between the bottom of the facility and the 680-ft sandstone varies across the potential OSDC with the highest in the southeast corner, and it gradually decreases to the west. Because the migration of the COCs occurs within the unsaturated zone, the plume development with time in the 680-ft sandstone layer is influenced by the thickness of the unsaturated zone relative to the bottom of the facility.

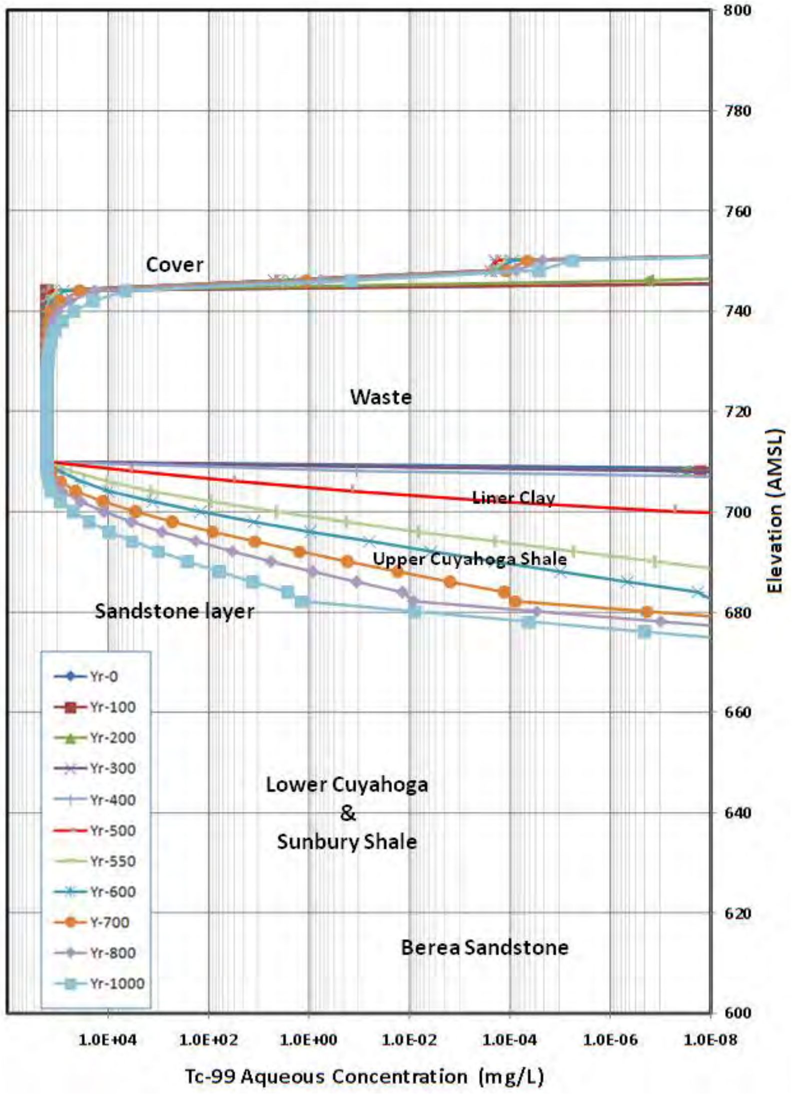


Figure I.19. Technetium-99 Fate and Transport within a Vertical Profile Beneath a Cell

Figure I.20 shows both the model predicted water flow field and technetium-99 relative concentration distribution at various time steps after a potential OSDC closure. At year 500, there is no impact in both water flow direction and contaminant concentration in the 680-ft sandstone layer. Water, along with contaminant mass from a potential OSDC, will reach the 680-ft sandstone layer in year 600, with the highest impact occurring directly beneath Cell #11 because of the underlying shortest vertical distance between the waste and 680-ft sandstone layer. Due to the higher recharge rate assumed for the waste cell area (1.08 in./year), the model predicts that the groundwater potentiometric head will gradually increase and form a groundwater mound near the center of a potential OSDC. As a result, the COCs will gradually spread horizontally within the 680-ft sandstone layer. Over time, the plume will increase in lateral extent, as shown in the time progression figures between 600 and 1,000 years. As depicted in Figure I.20, the plume will have the greatest migration impact to the west and northwest of the cell. When the plume reaches the 680-ft sandstone layer daylight locations, it will discharge to the surface resulting in concentrations in surface soil and water at the discharge locations.

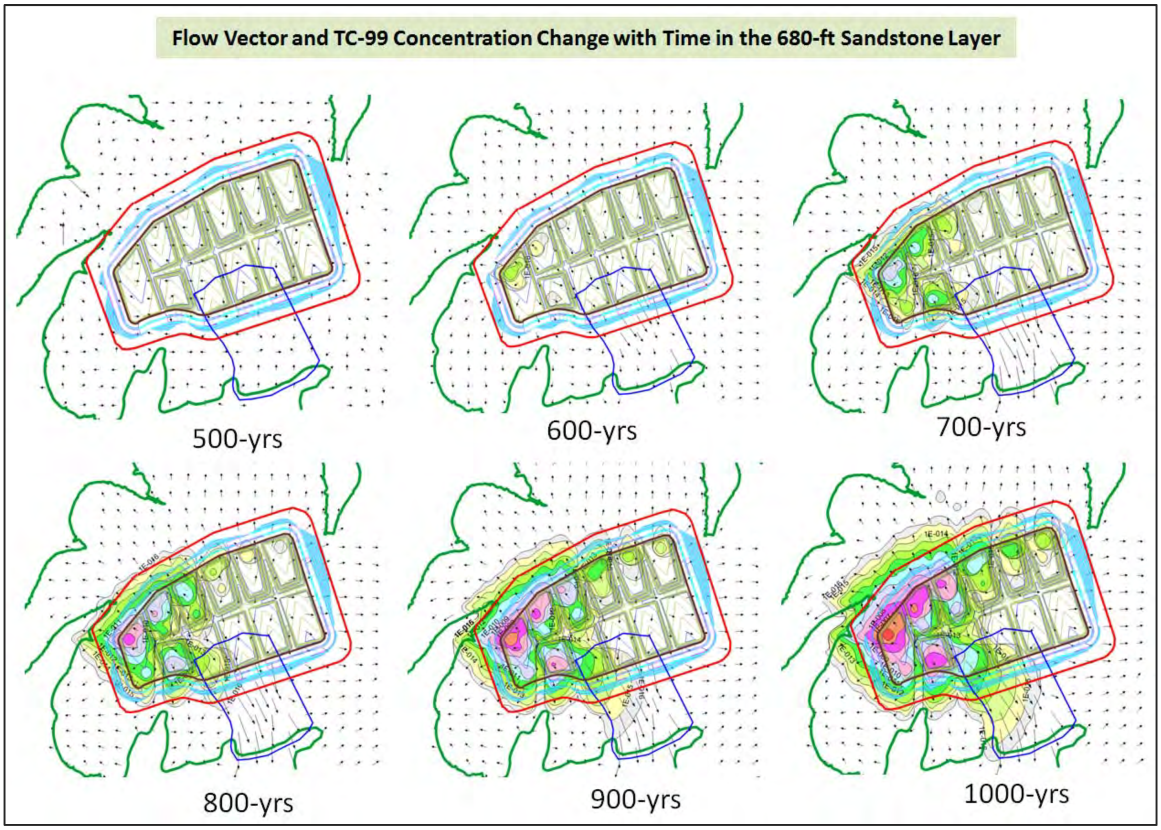


Figure I.20. Flow Vector and Technetium-99 Concentration Change with Time in the 680-ft Sandstone Layer

As discussed in Section I.2, various POAs are considered for modeled WAC development. Based on the model sensitivity runs, the POAs were located to the maximum impact location based on the following criteria:

- COC concentration distribution at 1,000 years
- 680-ft sandstone exposure distance to a potential OSDC
- Suitable topography and land area
- Regulatory requirement and DOE boundary location.

In all cases, the maximum impact location (worst case) is used for modeled WAC development to derive the lowest modeled WAC. The highest concentration at 300 ft from the waste unit is used for POA-2 and POA-3. For POA-1, the location with the maximum concentration is also used. For POA-4, which assumes a potential resident farmer scenario, the receptor location with the maximum plume migration potential is used. A DOE boundary location with the shortest downgradient distance to a potential OSDC is used for POA-5. Figure I.21 shows the POA locations that were used to calculate the lowest modeled WAC for each pathway.

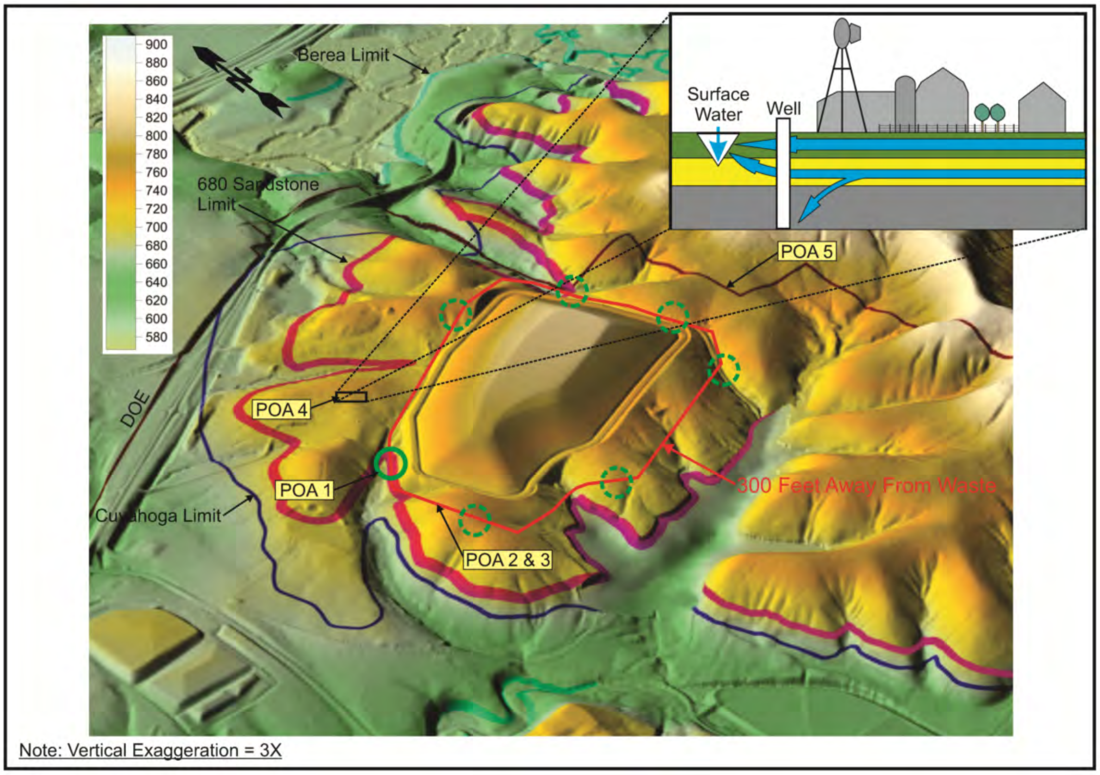


Figure I.21. Point of Assessment Locations for which Waste Acceptance Criteria are Modeled

Extensive sensitivity analyses were conducted before the final STOMP model simulation to determine the best condition representation for the modeling effort. All potential influence parameters, including hydraulic conductivity of the 680-ft sandstone, hydraulic anisotropic ratios, surface water boundary conditions, and recharge rates outside of the cell, were analyzed. Table I.15 lists the sensitivity runs and their potential impacts to the model results for flow and concentration in the 680-ft sandstone. Based on this sensitivity analysis, the base model was determined to have the best representation for the WAC modeling effort.

Table I.15. Results of Sensitivity Runs for the STOMP Model

Sensitivity Scenario	Impact on Flow and Concentration of 680-ft Sandstone Layer
Hydraulic conductivity vertical ratio (Kx/Kz) for upper Cuyahoga shale	Minimal impact on flow or concentration
Uniform hydraulic conductivity distribution (with higher K)	Lowered concentration in exposure locations
Hydraulic conductivity value of 680-ft sandstone layer (uniform higher)	Slightly higher concentration (less than 20 percent) to north and west, lower in other areas
Anisotropic ratio - (Kx/Kz) of 680-ft sandstone layer	Minimal impact
Initial saturation impact of 680-ft sandstone layer	Minimal impact at 1,000 years
Impact of 2-ft vs. 5-ft sandstone layer thickness	Slightly higher concentration with 2-ft zone (less than 50 percent)

Table I.15. Results of Sensitivity Runs for the STOMP Model (Continued)

Sensitivity Scenario	Impact on Flow and Concentration of 680-ft Sandstone Layer
Larger higher K zone in the south	Reduced exposure concentration at west and north
Waste placement impact (1.5 times in Cells 1-6; 0.5 times in Cells 7-11)	Lower concentration in exposure locations
Lower Cuyahoga Kx/Kz (10/1)	No impact on concentration in 680-ft sandstone layer at 1,000 years
Localized higher recharge rate outside cell	Reduced exposure concentration
X-611B future condition impact	Minimal impact at 1,000 years

The base model was then used to conduct fate and transport analysis for all 106 COCs to derive modeled WAC. The COC concentration distribution in the 680-ft sandstone layer for each COC was processed to determine the maximum concentration at 300-ft locations (POA-2 and POA-3) and the daylight location (POA-1), and the concentration at the farmer scenario (POA-4). The concentrations were then used to compare with respective POA-specific performance standards to calculate the maximum allowable waste concentrations in the source area (i.e., draft modeled WAC).

Figure I.22 shows the radionuclide aqueous concentration variation with time at the waste source zone within a cell. The line represents the ratio of aqueous concentration over time to initial aqueous concentration at the source zone. The concentration decreases with time as a result of radioactive decay and migration out of the source zone. A fast decrease in concentrations of thorium-228, plutonium-238, and americium-241 are caused by their fast radioactive decay (short half-life). Other radionuclides show very little source reduction as a result of long radionuclide half-life and negligible migration over the 1,000-year time frame.

Inorganic constituent concentrations in the source zone are shown in Figure I.23. All of the inorganic constituents are relatively immobile within the first 1,000 years because of higher K_d values.

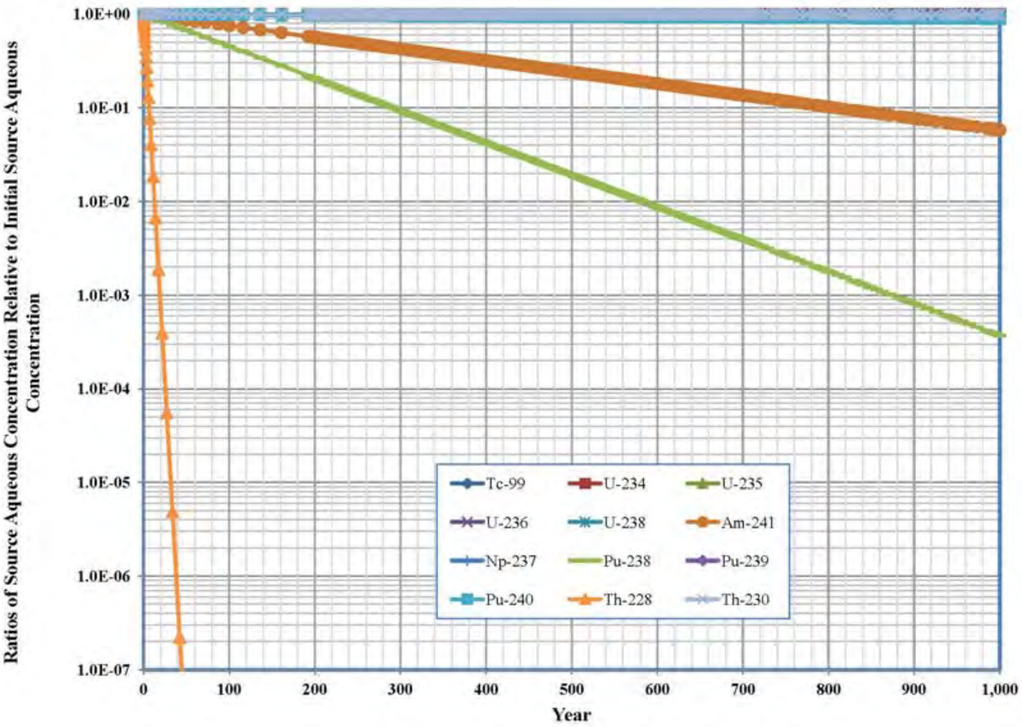


Figure I.22. Radionuclide Contaminant of Concern Aqueous Concentration Change in the Source Zone

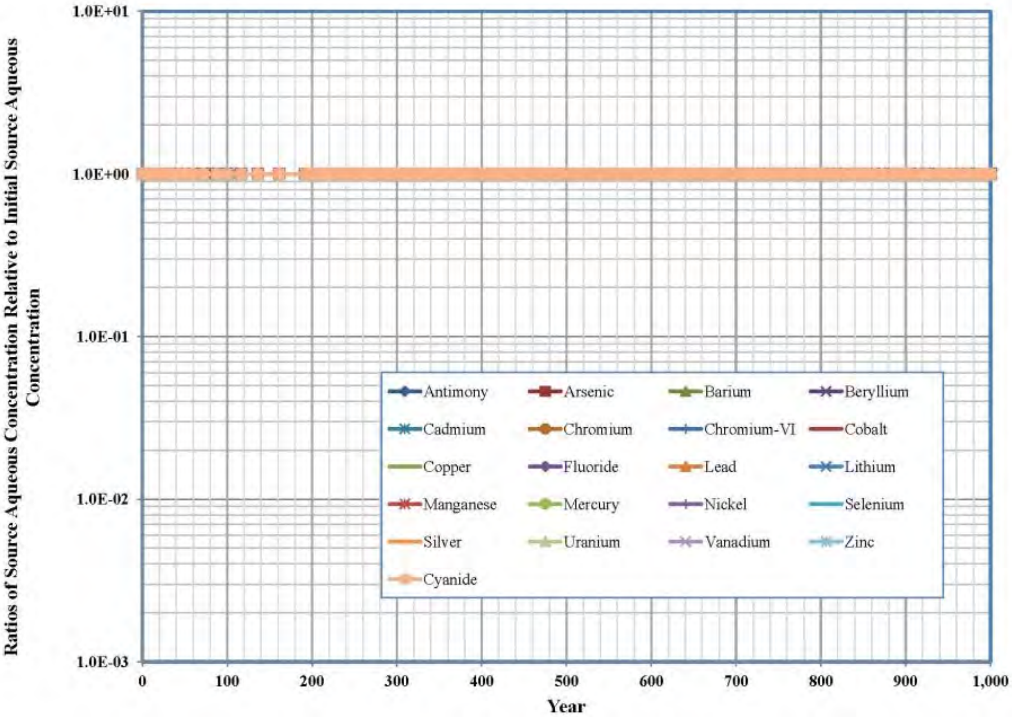


Figure I.23. Inorganic Contaminant of Concern Aqueous Concentration Change in the Source Zone

The fate of selected organic constituents in the source zone is shown in Figure I.24. The source concentrations for these constituents decrease rapidly with the occurrence of biodegradation, which is defined by a constituent's half-life. Some of the constituents have half-lives of less than 1 year.

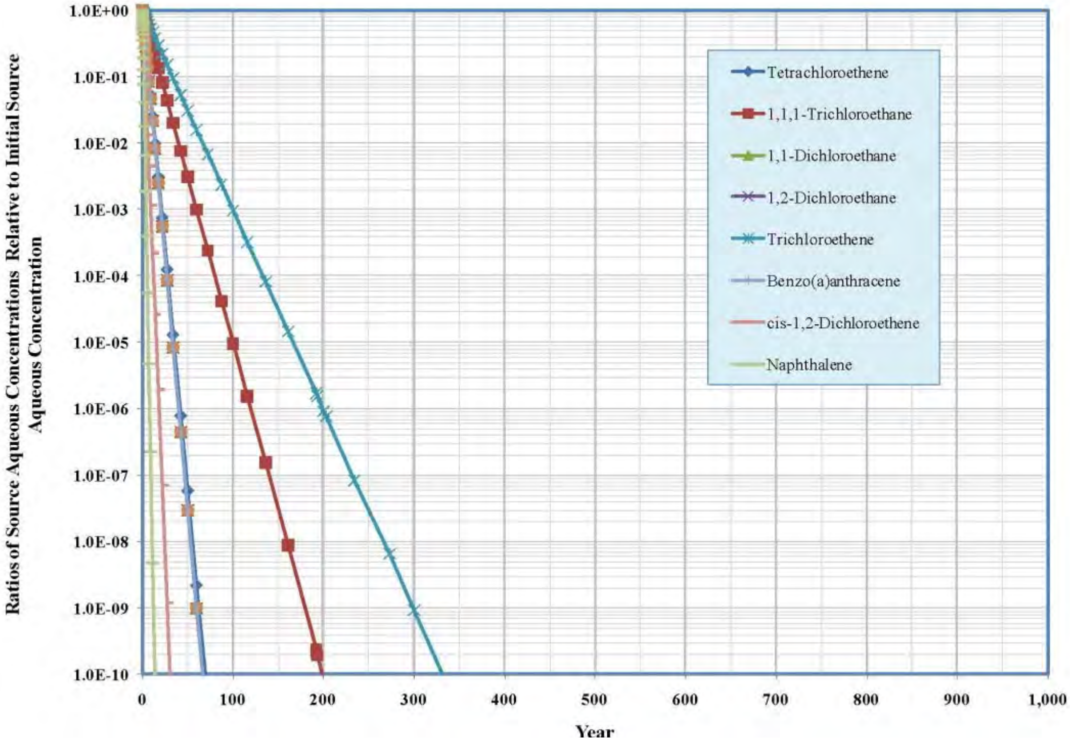


Figure I.24. Organic Contaminant of Concern Aqueous Concentration Change in the Source Zone

Model-predicted concentration profiles of radionuclide constituents at the sandstone layer location at the facility boundary (300 ft from the unit boundary) are presented in Figure I.25. This location is predicted to have the highest migration impact from a potential OSDC. The curves represent the ratios of aqueous concentration over time to the initial source aqueous concentration. The concentration curve for technetium-99 shows an increasing trend during the modeled WAC compliance period (1,000 years). However, the aqueous concentrations are extremely low. All other radionuclides will not reach the POA within the 1,000-year compliance period.

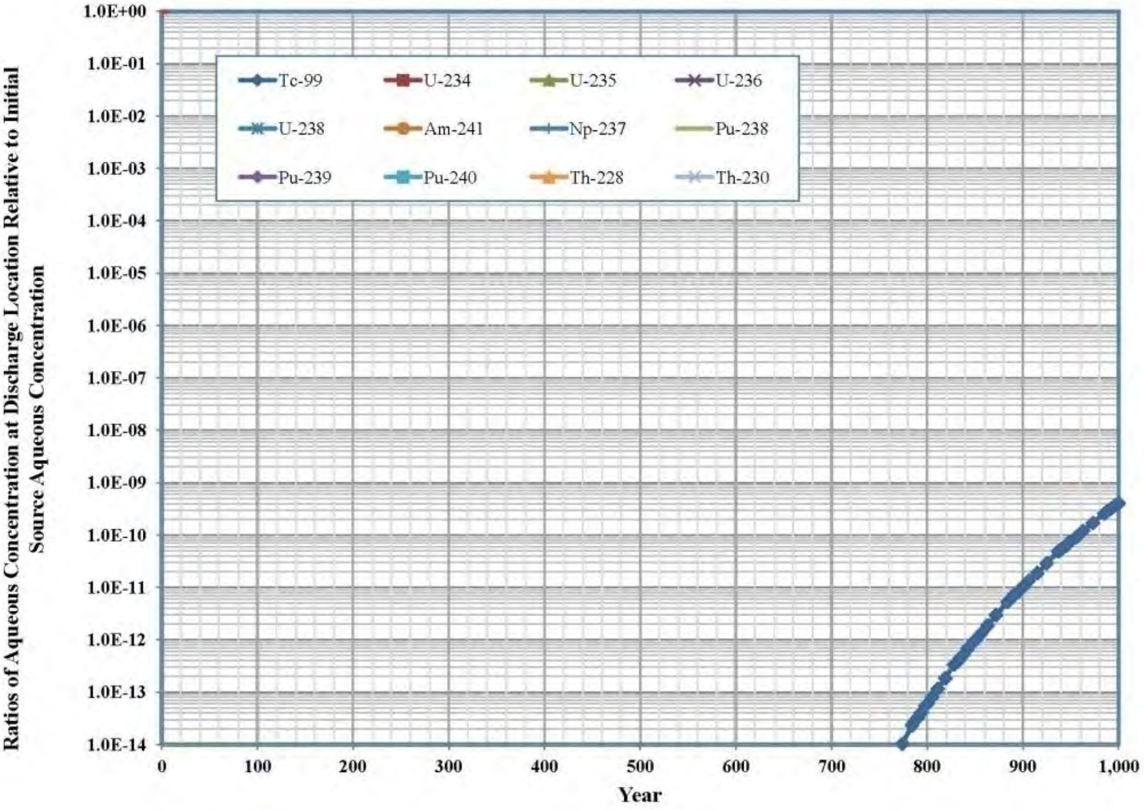


Figure I.25. Concentration Profile of Radionuclide Constituents at the Potential Sandstone Layer Receptor

Figure I.26 shows the inorganic constituent profiles at the same west receptor location. The most mobile contaminants within the 1,000-year compliance period are chromium-VI, silver, and cyanide, all showing increasing trends although the aqueous concentrations are extremely low. As expected, both the arrival time and concentration magnitude are controlled by the K_d values for these constituents.

No organic constituents are shown to migrate to the 680-ft sandstone layer because of either their short half-life or higher K_d values (>10 mL/g).

As discussed earlier, there is no migration of any of the constituents to the Berea sandstone groundwater from a potential OSDC within the modeled WAC compliance period.

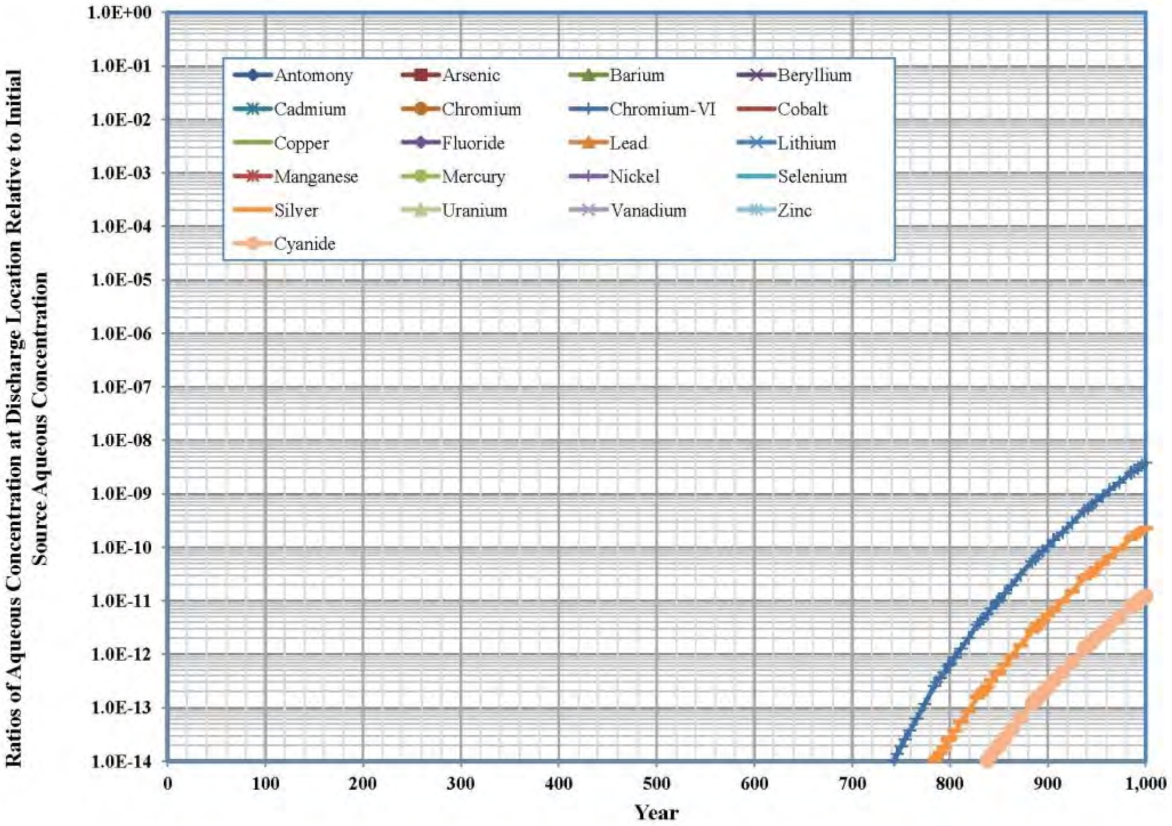


Figure I.26. Concentration Profile of Inorganic Constituents at the Potential Sandstone Layer Receptor

Table I.16 lists the initial source aqueous concentration for a unit source of 1 gm/cm^3, the initial arrival and peak times, and the maximum ratio of aqueous concentrations relative to the initial source concentration predicted for all the constituents within the 1,000-year compliance period for POAs -1, -2, and -3. For POA-2 and POA-3, only technetium-99, uranium-234, uranium-235, uranium-236, uranium-238, chromium VI, silver, and uranium (total) are predicted to arrive between 640 and 900 years post-closure. Only technetium-99, chromium VI, and silver are predicted to arrive at year 700 at extremely low concentrations at POA-1. There is no migration of any organic COC to any of the POAs within the 1,000-year compliance period.

Table I.17 lists the initial source aqueous concentration for a unit source of 1 gm/cm^3, initial arrival and peak times, and maximum ratio of aqueous concentrations relative to the initial source concentration predicted for all the constituents within the 1,000-year compliance period for POAs -4 and -5. As noted, only technetium-99, chromium VI, and silver are predicted to arrive at year 800 at extremely low concentrations at POA-4. There is no migration of any organic COC to POA-4 within the 1,000-year compliance period. Finally, the model predicts that no COC will migrate to POA-5 within the 1,000-year compliance period.

Table I.16. Model-predicted Constituent Arrival Time and Maximum Relative Concentration for POAs -1, -2, and -3

COC	Waste Source Zone	POA-1 (680-ft Sandstone Layer of Cuyahoga Shale Exposure Points)			POA-2 (680-ft Sandstone Layer - 300 ft Away from Waste Limit)			POA-3 (Berea Sandstone Groundwater Mixing with 680-ft Sandstone - 300 ft Away from Waste Limit)		
	Initial Aqueous Concentration (g/mL) for an Initial Source (Solid+Aqueous) Concentration of 1 (g/cm^3)	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years
Americium-241	3.82E-04	>1,000	>1,000	NA	NA	>1,000	NA	>1,000	>1,000	NA
Neptunium-237	1.30E-03	>1,000	>1,000	NA	NA	>1,000	NA	>1,000	>1,000	NA
Plutonium-238	7.22E-04	>1,000	>1,000	NA	NA	>1,000	NA	>1,000	>1,000	NA
Plutonium-239	7.22E-04	>1,000	>1,000	NA	NA	>1,000	NA	>1,000	>1,000	NA
Plutonium-240	7.22E-04	>1,000	>1,000	NA	NA	>1,000	NA	>1,000	>1,000	NA
Thorium-228	1.91E-04	>1,000	>1,000	NA	NA	>1,000	NA	>1,000	>1,000	NA
Thorium-230	1.91E-04	>1,000	>1,000	NA	NA	>1,000	NA	>1,000	>1,000	NA
Technetium-99	2.91E-01	700	>1,000	1.03E-10	650	>1,000	1.72E-09	650	>1,000	9.28E-11
Uranium-234	1.64E-03	>1,000	>1,000	NA	900	>1,000	2.44E-15	900	>1,000	1.32E-16
Uranium-235	1.64E-03	>1,000	>1,000	NA	900	>1,000	2.44E-15	900	>1,000	1.32E-16
Uranium-236	1.64E-03	>1,000	>1,000	NA	900	>1,000	2.44E-15	900	>1,000	1.32E-16
Uranium-238	1.64E-03	>1,000	>1,000	NA	900	>1,000	2.44E-15	900	>1,000	1.32E-16
Antimony	1.44E-02	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Arsenic	3.12E-03	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Barium	3.24E-03	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Beryllium	8.22E-04	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Cadmium	1.33E-02	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Chromium	8.02E-04	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Chromium VI	9.02E-02	700	>1,000	1.11E-09	640	>1,000	1.55E-08	640	>1,000	8.38E-10
Cobalt	1.44E-02	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Copper	1.85E-02	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Fluoride (salts)	4.32E-03	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Lead	2.30E-05	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Lithium	2.16E-03	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA

Table I.16. Model-predicted Constituent Arrival Time and Maximum Relative Concentration for POAs -1, -2, and -3 (Continued)

COC	Waste Source Zone	POA-1 (680-ft Sandstone Layer of Cuyahoga Shale Exposure Points)			POA-2 (680-ft Sandstone Layer - 300 ft Away from Waste Limit)			POA-3 (Berea Sandstone Groundwater Mixing with 680-ft Sandstone - 300 ft Away from Waste Limit)		
	Initial Aqueous Concentration (g/mL) for an Initial Source (Solid+Aqueous) Concentration of 1 (g/cm^3)	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years
Manganese	3.89E-02	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Mercury	1.58E-02	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Nickel	9.96E-03	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Selenium	4.27E-02	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Silver	7.64E-02	700	>1,000	1.31E-10	650	>1,000	2.62E-09	650	>1,000	1.41E-10
Uranium	1.64E-03	>1,000	>1,000	NA	900	>1,000	2.44E-15	900	>1,000	1.32E-16
Vanadium	6.48E-03	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Zinc	1.04E-02	>1,000	>1,000	NA	>1,000	>1,000	NA	>1,000	>1,000	NA
Cyanide	6.43E-02	850	>1,000	1.87E-11	800	>1,000	2.49E-10	800	>1,000	1.34E-11
Acenaphthylene	1.61E-05	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Acetone	1.00E+00	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Anthracene	4.34E-08	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Aroclor-1242	2.77E-07	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Aroclor 1254	4.30E-08	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Aroclor 1260	1.44E-08	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Benzene	1.79E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Benzo(a)anthracene	9.40E-09	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Benzo(a)pyrene	1.62E-09	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Benzo(b)fluoranthene	1.50E-09	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Benzo(g,h,i)perylene	2.60E-10	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Benzo(k)fluoranthene	8.00E-10	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Bis(2-chloroethyl)ether	1.72E-02	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Bromoform		NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
2-Butanone	2.23E-01	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA

Table I.16. Model-predicted Constituent Arrival Time and Maximum Relative Concentration for POAs -1, -2, and -3 (Continued)

COC	Waste Source Zone	POA-1 (680-ft Sandstone Layer of Cuyahoga Shale Exposure Points)			POA-2 (680-ft Sandstone Layer - 300 ft Away from Waste Limit)			POA-3 (Berea Sandstone Groundwater Mixing with 680-ft Sandstone - 300 ft Away from Waste Limit)		
	Initial Aqueous Concentration (g/mL) for an Initial Source (Solid+Aqueous) Concentration of 1 (g/cm^3)	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years
Chlordane	5.60E-08	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
gamma - Chlordane	3.10E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
4-Chloro, 3-methylphenol	5.60E-08	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Chlorobenzene	4.98E-04	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Chloroform	7.95E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Chrysene	2.00E-09	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
m-Cresol	2.27E-02	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
o-Cresol	2.59E-02	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
p-Cresol	2.15E-02	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Cresols	2.59E-02	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Dibenz(a,h)anthracene	2.49E-09	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Dibenzofuran	3.10E-06	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Dibromochloromethane	2.70E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
1,4-Dichlorobenzene	8.13E-05	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
1,2-Dichloroethane	8.60E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
1,1-Dichloroethene	2.42E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
1,2-Dichloroethene	3.50E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Dieldrin	1.95E-07	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Dimethylphthalate	4.00E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
2,4-Dinitrotoluene	2.00E-04	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
2,4-D	6.77E-04	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Endosulfan II	4.50E-07	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Endosulfan sulfate	4.80E-07	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Endrin	2.50E-07	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA

Table I.16. Model-predicted Constituent Arrival Time and Maximum Relative Concentration for POAs -1, -2, and -3 (Continued)

COC	**Waste Source Zone**	**POA-1 (680-ft Sandstone Layer of Cuyahoga Shale Exposure Points)**			**POA-2 (680-ft Sandstone Layer - 300 ft Away from Waste Limit)**			**POA-3 (Berea Sandstone Groundwater Mixing with 680-ft Sandstone - 300 ft Away from Waste Limit)**		
	Initial Aqueous Concentration (g/mL) for an Initial Source (Solid+Aqueous) Concentration of 1 (g/cm^3)	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years
Endrin ketone	7.55E-08	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Ethylbenzene	1.69E-04	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Heptachlor	1.80E-07	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Hexachlorobenzene	6.20E-09	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Hexachlorobutadiene	3.20E-06	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
alpha-Hexachlorocyclohexane	2.00E-06	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Hexachloroethane	5.00E-05	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
2-Hexanone	1.72E-02	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Indeno(1,2,3-cd)pyrene	1.90E-10	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Lindane	7.30E-06	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Methoxychlor	1.00E-07	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Methylene Chloride	1.30E-02	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
2-Methylnaphthalene	2.46E-05	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Naphthalene	3.10E-05	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
4-Nitrobenzeneamine	7.28E-04	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Nitrobenzene	2.09E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
4-Nitrophenol	1.16E-02	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
n-Nitroso-di-n-propylamine	1.30E-02	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Pentachlorophenol	1.40E-05	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Phenanthrene	1.15E-06	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Pyridine	1.00E+00	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Tetrachloroethene	2.06E-04	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Toluene	5.26E-04	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Toxaphene	7.40E-07	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA

Table I.16. Model-predicted Constituent Arrival Time and Maximum Relative Concentration for POAs -1, -2, and -3 (Continued)

COC	Waste Source Zone	POA-1 (680-ft Sandstone Layer of Cuyahoga Shale Exposure Points)			POA-2 (680-ft Sandstone Layer - 300 ft Away from Waste Limit)			POA-3 (Berea Sandstone Groundwater Mixing with 680-ft Sandstone - 300 ft Away from Waste Limit)		
	Initial Aqueous Concentration (g/mL) for an Initial Source (Solid+Aqueous) Concentration of 1 (g/cm^3)	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years
1,1,1-Trichloroethane	1.29E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
1,1,2-Trichloroethane	4.59E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Trichloroethene	1.28E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
2,4,5-Trichlorophenol	1.20E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
2,4,6-Trichlorophenol	8.00E-04	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
2,4,5-TP (Silvex)	7.10E-05	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Vinyl acetate	2.00E-02	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA
Vinyl chloride	8.80E-03	NAP	NAP	NA	NAP	NAP	NA	NAP	NAP	NA

COC = contaminant of concern
NA = not available due to no migration to POA within 1,000 years.
NAP = not applicable due to no COCs migrating to POA
POA = point of assessment

Table I.17. Model-predicted Constituent Arrival Time and Maximum Relative Concentration for POAs -4 and -5

COC	Waste Source Zone	POA-4 (Farmer Scenarios near OSDC)			POA-5 (Berea Groundwater at DOE Boundary)		
	Initial Aqueous Concentration (g/mL) for an Initial Source (Solid+Aqueous) Concentration of 1 (g/cm^3)	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years
Americium-241	3.82E-04	>1,000	>1,000	NA	>1,000	>1,000	NA
Neptunium-237	1.30E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Plutonium-238	7.22E-04	>1,000	>1,000	NA	>1,000	>1,000	NA
Plutonium-239	7.22E-04	>1,000	>1,000	NA	>1,000	>1,000	NA
Plutonium-240	7.22E-04	>1,000	>1,000	NA	>1,000	>1,000	NA
Thorium-228	1.91E-04	>1,000	>1,000	NA	>1,000	>1,000	NA
Thorium-230	1.91E-04	>1,000	>1,000	NA	>1,000	>1,000	NA
Technetium-99	2.91E-01	800	>1,000	3.44E-12	>1,000	>1,000	NA
Uranium-234	1.64E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Uranium-235	1.64E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Uranium-236	1.64E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Uranium-238	1.64E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Antimony	1.44E-02	>1,000	>1,000	NA	>1,000	>1,000	NA
Arsenic	3.12E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Barium	3.24E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Beryllium	8.22E-04	>1,000	>1,000	NA	>1,000	>1,000	NA
Cadmium	1.33E-02	>1,000	>1,000	NA	>1,000	>1,000	NA
Chromium	8.02E-04	>1,000	>1,000	NA	>1,000	>1,000	NA
Chromium VI	9.02E-02	800	>1,000	1.11E-10	>1,000	>1,000	NA
Cobalt	1.44E-02	>1,000	>1,000	NA	>1,000	>1,000	NA
Copper	1.85E-02	>1,000	>1,000	NA	>1,000	>1,000	NA
Fluoride (salts)	4.32E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Lead	2.30E-05	>1,000	>1,000	NA	>1,000	>1,000	NA
Lithium	2.16E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Manganese	3.89E-02	>1,000	>1,000	NA	>1,000	>1,000	NA

Table I.17. Model-predicted Constituent Arrival Time and Maximum Relative Concentration for POAs -4 and -5 (Continued)

COC	Waste Source Zone	POA-4 (Farmer Scenarios near OSDC)			POA-5 (Berea Groundwater at DOE Boundary)		
	Initial Aqueous Concentration (g/mL) for an Initial Source (Solid+Aqueous) Concentration of 1 (g/cm^3)	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years
Mercury	1.58E-02	>1,000	>1,000	NA	>1,000	>1,000	NA
Nickel	9.96E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Selenium	4.27E-02	>1,000	>1,000	NA	>1,000	>1,000	NA
Silver	7.64E-02	800	>1,000	6.54E-13	>1,000	>1,000	NA
Uranium	1.64E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Vanadium	6.48E-03	>1,000	>1,000	NA	>1,000	>1,000	NA
Zinc	1.04E-02	>1,000	>1,000	NA	>1,000	>1,000	NA
Cyanide	6.43E-02	900	>1,000	7.78E-14	>1,000	>1,000	NA
Acenaphthylene	1.61E-05	NAP	NAP	NA	NAP	NAP	NA
Acetone	1.00E+00	NAP	NAP	NA	NAP	NAP	NA
Anthracene	4.34E-08	NAP	NAP	NA	NAP	NAP	NA
Aroclor-1242	2.77E-07	NAP	NAP	NA	NAP	NAP	NA
Aroclor 1254	4.30E-08	NAP	NAP	NA	NAP	NAP	NA
Aroclor 1260	1.44E-08	NAP	NAP	NA	NAP	NAP	NA
Benzene	1.79E-03	NAP	NAP	NA	NAP	NAP	NA
Benzo(a)anthracene	9.40E-09	NAP	NAP	NA	NAP	NAP	NA
Benzo(a)pyrene	1.62E-09	NAP	NAP	NA	NAP	NAP	NA
Benzo(b)fluoranthene	1.50E-09	NAP	NAP	NA	NAP	NAP	NA
Benzo(g,h,i)perylene	2.60E-10	NAP	NAP	NA	NAP	NAP	NA
Benzo(k)fluoranthene	8.00E-10	NAP	NAP	NA	NAP	NAP	NA
Bis(2-chloroethyl)ether	1.72E-02	NAP	NAP	NA	NAP	NAP	NA
Bromoform		NAP	NAP	NA	NAP	NAP	NA
2-Butanone	2.23E-01	NAP	NAP	NA	NAP	NAP	NA
Chlordane	5.60E-08	NAP	NAP	NA	NAP	NAP	NA

Table I.17. Model-predicted Constituent Arrival Time and Maximum Relative Concentration for POAs -4 and -5 (Continued)

COC	Waste Source Zone	POA-4 (Farmer Scenarios near OSDC)			POA-5 (Berea Groundwater at DOE Boundary)		
	Initial Aqueous Concentration (g/mL) for an Initial Source (Solid+Aqueous) Concentration of 1 (g/cm^3)	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years
gamma - Chlordane	3.10E-03	NAP	NAP	NA	NAP	NAP	NA
4-Chloro, 3-methylphenol	5.60E-08	NAP	NAP	NA	NAP	NAP	NA
Chlorobenzene	4.98E-04	NAP	NAP	NA	NAP	NAP	NA
Chloroform	7.95E-03	NAP	NAP	NA	NAP	NAP	NA
Chrysene	2.00E-09	NAP	NAP	NA	NAP	NAP	NA
m-Cresol	2.27E-02	NAP	NAP	NA	NAP	NAP	NA
o-Cresol	2.59E-02	NAP	NAP	NA	NAP	NAP	NA
p-Cresol	2.15E-02	NAP	NAP	NA	NAP	NAP	NA
Cresols	2.59E-02	NAP	NAP	NA	NAP	NAP	NA
Dibenz(a,h)anthracene	2.49E-09	NAP	NAP	NA	NAP	NAP	NA
Dibenzofuran	3.10E-06	NAP	NAP	NA	NAP	NAP	NA
Dibromochloromethane	2.70E-03	NAP	NAP	NA	NAP	NAP	NA
1,4-Dichlorobenzene	8.13E-05	NAP	NAP	NA	NAP	NAP	NA
1,2-Dichloroethane	8.60E-03	NAP	NAP	NA	NAP	NAP	NA
1,1-Dichloroethene	2.42E-03	NAP	NAP	NA	NAP	NAP	NA
1,2-Dichloroethene	3.50E-03	NAP	NAP	NA	NAP	NAP	NA
Dieldrin	1.95E-07	NAP	NAP	NA	NAP	NAP	NA
Dimethylphthalate	4.00E-03	NAP	NAP	NA	NAP	NAP	NA
2,4-Dinitrotoluene	2.00E-04	NAP	NAP	NA	NAP	NAP	NA
2,4-D	6.77E-04	NAP	NAP	NA	NAP	NAP	NA
Endosulfan II	4.50E-07	NAP	NAP	NA	NAP	NAP	NA
Endosulfan sulfate	4.80E-07	NAP	NAP	NA	NAP	NAP	NA
Endrin	2.50E-07	NAP	NAP	NA	NAP	NAP	NA
Endrin ketone	7.55E-08	NAP	NAP	NA	NAP	NAP	NA

Table I.17. Model-predicted Constituent Arrival Time and Maximum Relative Concentration for POAs -4 and -5 (Continued)

COC	**Waste Source Zone**	**POA-4 (Farmer Scenarios near OSDC)**			**POA-5 (Berea Groundwater at DOE Boundary)**		
	Initial Aqueous Concentration (g/mL) for an Initial Source (Solid+Aqueous) Concentration of 1 (g/cm^3)	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years
Ethylbenzene	1.69E-04	NAP	NAP	NA	NAP	NAP	NA
Heptachlor	1.80E-07	NAP	NAP	NA	NAP	NAP	NA
Hexachlorobenzene	6.20E-09	NAP	NAP	NA	NAP	NAP	NA
Hexachlorobutadiene	3.20E-06	NAP	NAP	NA	NAP	NAP	NA
alpha-Hexachlorocyclohexane,	2.00E-06	NAP	NAP	NA	NAP	NAP	NA
Hexachloroethane	5.00E-05	NAP	NAP	NA	NAP	NAP	NA
2-Hexanone	1.72E-02	NAP	NAP	NA	NAP	NAP	NA
Indeno(1,2,3-cd)pyrene	1.90E-10	NAP	NAP	NA	NAP	NAP	NA
Lindane	7.30E-06	NAP	NAP	NA	NAP	NAP	NA
Methoxychlor	1.00E-07	NAP	NAP	NA	NAP	NAP	NA
Methylene Chloride	1.30E-02	NAP	NAP	NA	NAP	NAP	NA
2-Methylnaphthalene	2.46E-05	NAP	NAP	NA	NAP	NAP	NA
Naphthalene	3.10E-05	NAP	NAP	NA	NAP	NAP	NA
4-Nitrobenzeneamine	7.28E-04	NAP	NAP	NA	NAP	NAP	NA
Nitrobenzene	2.09E-03	NAP	NAP	NA	NAP	NAP	NA
4-Nitrophenol	1.16E-02	NAP	NAP	NA	NAP	NAP	NA
n-Nitroso-di-n-propylamine	1.30E-02	NAP	NAP	NA	NAP	NAP	NA
Pentachlorophenol	1.40E-05	NAP	NAP	NA	NAP	NAP	NA
Phenanthrene	1.15E-06	NAP	NAP	NA	NAP	NAP	NA
Pyridine	1.00E+00	NAP	NAP	NA	NAP	NAP	NA
Tetrachloroethene	2.06E-04	NAP	NAP	NA	NAP	NAP	NA
Toluene	5.26E-04	NAP	NAP	NA	NAP	NAP	NA
Toxaphene	7.40E-07	NAP	NAP	NA	NAP	NAP	NA
1,1,1-Trichloroethane	1.29E-03	NAP	NAP	NA	NAP	NAP	NA

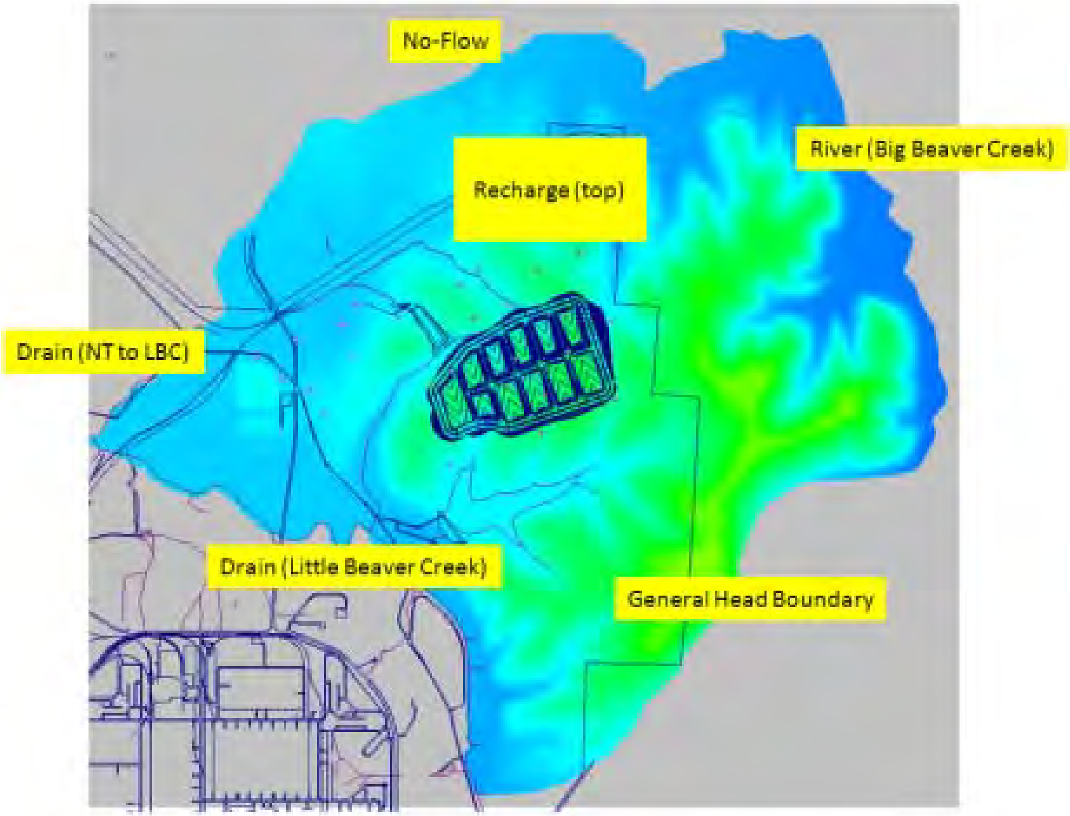
Table I.17. Model-predicted Constituent Arrival Time and Maximum Relative Concentration for POAs -4 and -5 (Continued)

COC	Waste Source Zone	POA-4 (Farmer Scenarios near OSDC)			POA-5 (Berea Groundwater at DOE Boundary)		
	Initial Aqueous Concentration (g/mL) for an Initial Source (Solid+Aqueous) Concentration of 1 (g/cm^3)	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years	Arrival Time (years)	Time (year) of Peak Concentration	Maximum Ratio of Aqueous Concentration to Initial Source Aqueous Concentration at 1,000 years
1,1,2-Trichloroethane	4.59E-03	NAP	NAP	NA	NAP	NAP	NA
Trichloroethene	1.28E-03	NAP	NAP	NA	NAP	NAP	NA
2,4,5-Trichlorophenol	1.20E-03	NAP	NAP	NA	NAP	NAP	NA
2,4,6-Trichlorophenol	8.00E-04	NAP	NAP	NA	NAP	NAP	NA
2,4,5-TP (Silvex)	7.10E-05	NAP	NAP	NA	NAP	NAP	NA
Vinyl acetate	2.00E-02	NAP	NAP	NA	NAP	NAP	NA
Vinyl chloride	8.80E-03	NAP	NAP	NA	NAP	NAP	NA

COC = contaminant of concern
DOE = U.S. Department of Energy
NA = not available due to no migration to POA within 1,000 years.
NAP = not applicable due to no COC migration to POA
OSDC = on-Site disposal cell
POA = point of assessment

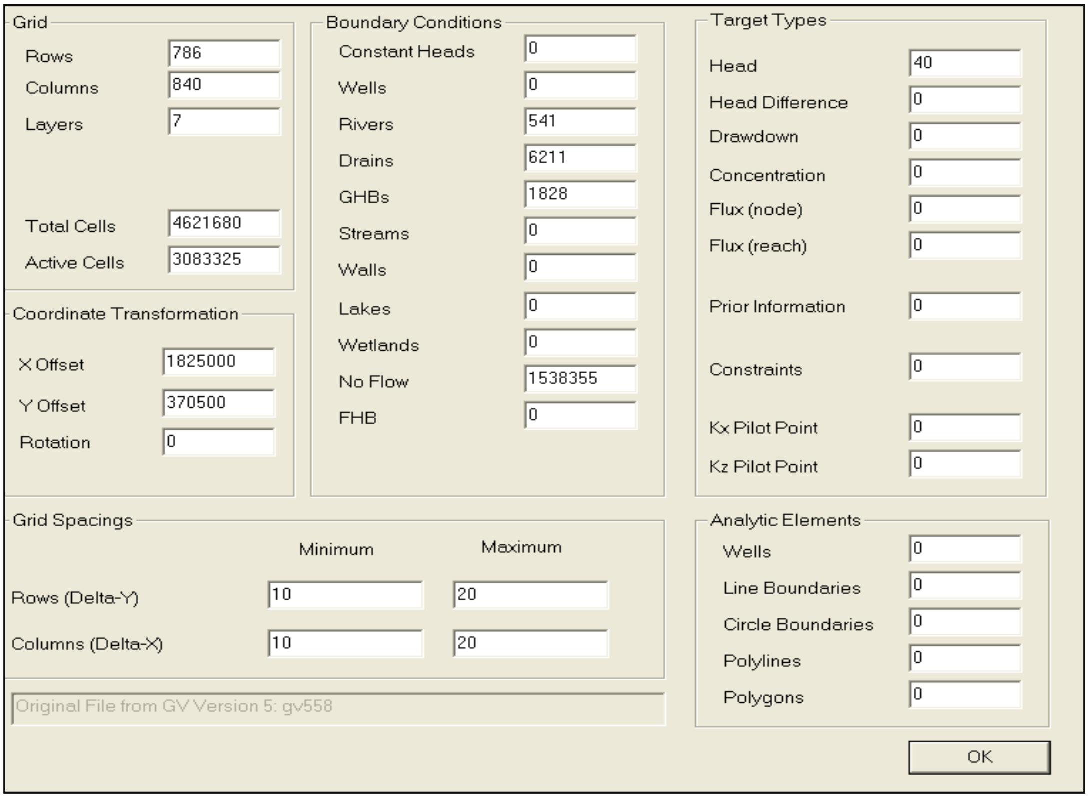
I.5.2.3 MODFLOW and MT3D Models

In anticipation of the potential impact to the Berea groundwater from a potential OSDC, a 3-D groundwater model was developed for a potential OSDC at Site D. The groundwater model was constructed using the MODFLOW code. The model domain is shown in Figure I.27. The boundary conditions were set up so the natural flow conditions were used. This model consists of 840 columns and 784 rows with a grid space from 10 to 20 ft. The refined grid allows a detailed representation of the potential OSDC engineering design and key surface features. Seven model layers are used to represent the vertical variation of the hydrological units at the site. The model has over 4.6 million model grids. Figure I.28 shows the model construction summary.



LBC = Little Beaver Creek
NT = Northern Tributary

Figure I.27. Site D Groundwater Model Domain and Boundary Conditions



Grid
Rows 786
Columns 840
Layers 7
Total Cells 4621680
Active Cells 3083325

Coordinate Transformation
X Offset 1825000
Y Offset 370500
Rotation 0

Boundary Conditions
Constant Heads 0
Wells 0
Rivers 541
Drains 6211
GHBs 1828
Streams 0
Walls 0
Lakes 0
Wetlands 0
No Flow 1538355
FHB 0

Target Types
Head 40
Head Difference 0
Drawdown 0
Concentration 0
Flux (node) 0
Flux (reach) 0
Prior Information 0
Constraints 0
Kx Pilot Point 0
Kz Pilot Point 0

Grid Spacings

	Minimum	Maximum
Rows (Delta-Y)	10	20
Columns (Delta-X)	10	20

Original File from GV Version 5: gv558

Analytic Elements
Wells 0
Line Boundaries 0
Circle Boundaries 0
Polylines 0
Polygons 0

Figure I.28. Site D Groundwater Model Summary

All identified hydraulic units in the area were represented in the model. Figure I.29 shows the model representation of the units in the model top layer and its west-east cross section. Three recharge rates were applied to the top of the model, based on rock and soil types: 4 in./yr was used for the Minford and Gallia formations; 0.4 in./yr was used for the X-735 Landfill; and no recharge was used for the Cuyahoga shale. Due to the thickness of the Cuyahoga shale and the confining nature of the Berea beneath the Cuyahoga and Sunbury shales, it is expected that no precipitation recharge will occur into the Berea sandstone in areas overlaid by the Cuyahoga and Sunbury shales. The hydraulic properties assigned to these units are summarized in Table I.18.

Preliminary model calibration to the current groundwater information at the site was conducted. The model predicted that the flow pattern will be similar to that in the conceptual model.

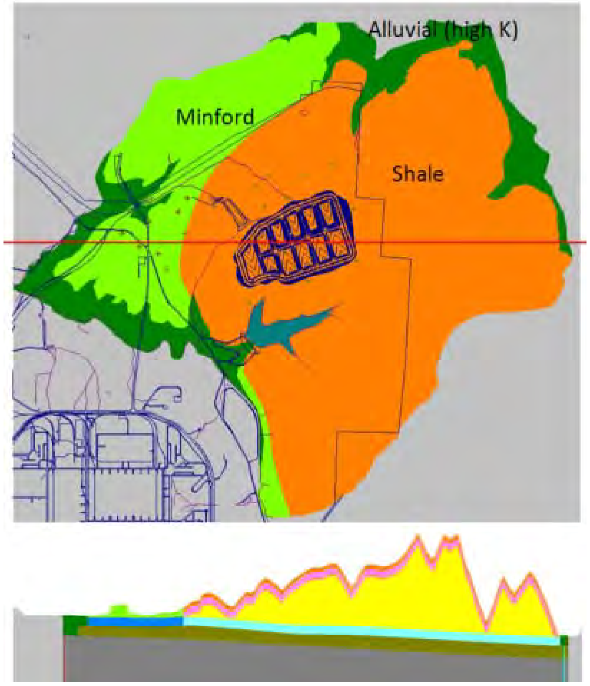


Figure I.29. Model Representation of the Units in the Model Top Layer and Cross-section View

Table I.18. Hydraulic Unit Parameter Summary

Rock/Soil Type	Represented within Model Layer	K(x) (cm/s)	K(y) (cm/s)	K(z) (cm/s)
Regolith	1	2.50E-04	2.50 E-04	5.00 E-05
Weathered Cuyahoga	2	5.00 E-05	5.00 E-05	1.00 E-05
Fractured Cuyahoga	3	2.50 E-05	2.50 E-05	5.00 E-06
Competent Cuyahoga	4	1.30 E-08	1.30 E-08	1.30 E-09
Sunbury shale	5	4.40 E-08	4.40 E-08	4.40 E-09
Berea sandstone	6	1.90 E-04	1.90 E-04	3.80 E-05
Bedford shale	7	5.00 E-09	5.00 E-09	5.00 E-10
Minford	1,2,3,4	1.76 E-04	1.76 E-04	1.76 E-05
Gallia	5	1.76 E-02	1.76 E-02	1.76 E-03
Drain media	1,2,3,4,5,6	1.00 E-01	1.00 E-01	1.00 E-01
X-611 Sludge Basin	1,2,3	1.00 E-04	1.00 E-04	1.00 E-04

K = hydraulic conductivity

The MODFLOW model, along with MT3D code, may be linked to the unsaturated zone model to predict the potential contaminant impact to Berea groundwater at the site and any off-Site location. However, the STOMP model simulation indicated that there will be no contaminant migration to the Berea sandstone within the time frame considered.

I.5.3 MODELED WASTE ACCEPTANCE CRITERIA

In order to calculate draft modeled WAC, the maximum COC concentration predicted at each POA within 1,000 years post-closure was compared to the its respective performance standard as listed in Table I.6. For the surface water/sediment pathway (POA-1), it is assumed that the surface water concentration discharged from the sandstone layer is at the concentration of the groundwater in this layer and that no mixing or dilution with existing surface water occurs. The resulting soil concentration from the discharging seepage is calculated using the K_d relationship previously described. The site-specific Minford K_d values for radionuclides from Table I.12 are used, while the Minford K_d values from Tables I.13 and I.14 were used for other constituents. The lower value of the three performance standards for each COC is used for the draft modeled WAC calculation.

For the 680-ft sandstone groundwater contribution to the Berea groundwater open-hole pathway, an analysis was conducted to determine the contribution percentage. The analysis used both an analytical method of water-bearing zone transmissivity and a numerical method using a 3-D groundwater model of steady-state and transient-state simulation under applicable pumping conditions.

For the analytical method, a constant transmissivity analytical method was used. Thus, the well pumping rate is proportional to the transmissivity of the layers. Assuming the 680-ft sandstone layer and the Berea sandstone have the same hydraulic conductivities and the water will be withdrawn from the total length of the well with both water bearing units, the analytical method yields a result of 5.4 percent contribution of water from the 680-ft sandstone layer to the well completed in the Berea sandstone. The assumption that water is simultaneously withdrawn from the total length of the water-bearing open hole is conservative, resulting in over estimating the percent contribution from the 680-ft sandstone layer. In reality, a groundwater pump is placed in the bottom of the well to provide the maximum yield. When the well is pumped from a confined layer such as the Berea sandstone, the water flow to the well is likely from aquifer storage in the immediate vicinity of the pump. For sedimentary sandstone rock, the water will be drawn preferably from the horizontal directions due to higher permeability in this direction. An additional conservatism is the constant transmissivity for the 680-ft sandstone layer. Due to this layer’s limited thickness, the transmissivity from the 680-ft sandstone layer will mostly likely decrease due to drawdown (further reducing the water-bearing layer thickness) at the well location, rather than remain constant. This is the most likely scenario if a high-rate pumping scenario occurs with the Berea aquifer if an open hole exists.

A well drawdown analysis under various usage pumping scenarios typical for domestic use was also used to calculate the 680-ft sandstone water contribution. This method assumes that the bore hole void space above the Berea potentiometric surface is filled with water from the 680-ft sandstone layer. Pumping from a Berea aquifer will cause drawdown in the well, with the water in the drawdown portion of the well above the Berea assumed to be all from the 680-ft sandstone layer. A simplified 3-D flow module within the MODFLOW groundwater model was developed to calculate drawdown from a heterogeneous multi-layer aquifer. Eleven model layers were used to represent the aquifer, water bearing layers, and aquicludes based on Site D site-specific data and K values. Various steady-state and transient-state pumping scenarios representing usage for a family of four, typically 240 gal/day, were conducted for a 6-in. typical water supply well. Based on the modeling results, the calculated contribution percentages ranged from 0.5 to 3.0 percent.

The higher of the simulated values for percent water contribution from the 680-ft sandstone layer to a Berea sandstone well (5.4 percent) based on the two methods described above is used to calculate the groundwater composite concentration in the well. This conservatism is considered to be more protective of human health.

The process used to derive the draft modeled WAC, based on the STOMP model simulation for these COCs predicted to have reached the respective POAs, are discussed below. The model-predicted maximum aqueous concentration for each constituent for a unit source of 1 g/cm^3 at the specific POA within the 1,000 years is compared to the lowest performance standard (allowable aqueous concentration [C-aq $_{\text{(allowable)}}$]) from Table I.5. The model-predicted maximum aqueous concentration at a given POA is equal to the concentration ratio times the initial aqueous source concentration. The modeled WAC is then calculated for the waste zone on the basis of the following relationship:

For nonradionuclide COCs,

draft modeled WAC (mg/kg) =
$[\text{C-aq}_{\text{allowable}} \div (\text{Concentration ratio} \times \text{C-aq}_{\text{initial source}})] \times [1\ (\text{g/cm}^3) \div \text{Bulk density}\ (\text{g/cm}^3)] \times 10^6$

where :

the concentration ratio is the ratio of the model predicted aqueous concentration at the POA to the initial aqueous concentration for an initial source concentration in the waste zone of 1 g/cm^2

10^6 is the unit conversion factor and C-aq$_{\text{allowable}}$ and C-aq$_{\text{initial source}}$ are in µg/L.

For radionuclide COCs,

draft modeled WAC (in pCi/g) =
$[\text{C-aq}_{\text{allowable}} \div (\text{Concentration ratio} \times \text{C-aq}_{\text{initial source}})] \times [1\ (\text{g/cm}^3) \div \text{Bulk density}\ (\text{g/cm}^3)] \times$ Specific Activity (Ci/g) × 10^{12}

where:

the concentration ratio is the ratio of the model predicted aqueous concentration at the POA to the initial aqueous concentration for an initial source concentration in the waste zone of 1 g/cm^2

10^{12} is the unit conversion factor and C-aq$_{\text{allowable}}$ and C-aq$_{\text{initial source}}$ are in pCi/L.

As shown in Table I.19, only technetium-99 and chromium VI have draft modeled WAC that are slightly lower than their respective specific activity or physical limit for POA-2. All calculated draft modeled WAC for the remaining radionuclides and inorganic constituents for other POAs within the 1,000-year compliance period are higher than their respective specific activity or physical limit. Further, none of the organic COCs are modeled to reach the respective POAs within the 1,000-year compliance period,. Based on the analysis performed herein, the exposure scenarios considered (within the compliance period of 1,000 years), and the use of risk-based and MCL-based performance standards, waste from the D&D of PORTS (RC-1) that complies with other DFF&O-required WAC elements, including regulatory-based activity and chemical concentration WAC, may be safely managed in a potential OSDC at Site D.

Table I.19. Potential OSDC Draft Modeled Waste Acceptance Criteria

COC	Draft Concentration-based Modeled WAC[1] (pCi/g or mg/kg)					
	Specific Activity or Physical Limit (pCi/g or mg/kg)	POA-1	POA-2	POA-3	POA-4	POA-5
Radionuclides						
Americium-241	3.44E+12	3.44E+12	3.44E+12	3.44E+12	3.44E+12	3.44E+12
Neptunium-237	7.05E+08	7.05E+08	7.05E+08	7.05E+08	7.05E+08	7.05E+08
Plutonium-238	1.71E+13	1.71E+13	1.71E+13	1.71E+13	1.71E+13	1.71E+13
Plutonium-239	6.22E+10	6.22E+10	6.22E+10	6.22E+10	6.22E+10	6.22E+10
Plutonium-240	2.28E+11	2.28E+11	2.28E+11	2.28E+11	2.28E+11	2.28E+11
Thorium-228	8.20E+14	8.20E+14	8.20E+14	8.20E+14	8.20E+14	8.20E+14
Thorium-230	2.02E+10	2.02E+10	2.02E+10	2.02E+10	2.02E+10	2.02E+10
Technetium-99	1.70E+10	1.70E+10	**9.78E+08**	1.70E+10	1.70E+10	1.70E+10
Uranium-234	6.25E+09	6.25E+09	6.25E+09	6.25E+09	6.25E+09	6.25E+09
Uranium-235	2.16E+06	2.16E+06	2.16E+06	2.16E+06	2.16E+06	2.16E+06
Uranium-236	6.47E+07	6.47E+07	6.47E+07	6.47E+07	6.47E+07	6.47E+07
Uranium-238	3.36E+05	3.36E+05	3.36E+05	3.36E+05	3.36E+05	3.36E+05
Inorganics						
Antimony	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Arsenic	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Barium	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Beryllium	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Cadmium	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Chromium	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Chromium VI	1.00E+06	1.00E+06	**1.59E+05**	1.00E+06	1.00E+06	1.00E+06
Cobalt	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Copper	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Fluoride (salts)	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Lead	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Lithium	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Manganese	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Mercury	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Nickel	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Selenium	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Silver	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Uranium	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Vanadium	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Zinc	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Cyanide	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Organics						
Acenaphthylene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Acetone	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Anthracene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Aroclor 1254	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06

Table I.19. Potential OSDC Draft Modeled Waste Acceptance Criteria (Continued)

COC	Specific Activity or Physical Limit (pCi/g or mg/kg)	Draft Concentration-based Modeled WAC[1] (pCi/g or mg/kg) POA-1	POA-2	POA-3	POA-4	POA-5
Organics (continued)						
Aroclor 1260	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Benzene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Benzo(a)anthracene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Benzo(a)pyrene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Benzo(b)fluoranthene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Benzo(g,h,i)perylene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Benzo(k)fluoranthene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Bis(2-chloroethyl)ether	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Bromoform	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
2-Butanone	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Chlordane	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
gamma - Chlordane	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
4-Chloro, 3-methylphenol	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Chlorobenzene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Chloroform	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Chrysene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
m-Cresol	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
o-Cresol	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
p-Cresol	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Cresols	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Dibenz(a,h)anthracene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Dibenzofuran	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Dibromochloromethane	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
1,4-Dichlorobenzene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
1,2-Dichloroethane	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
1,1-Dichloroethene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
1,2-Dichloroethene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Dieldrin	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Dimethylphthalate	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
2,4-Dinitrotoluene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
2,4-D	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Endosulfan II	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Endosulfan sulfate	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Endrin	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Endrin ketone	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Ethylbenzene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Heptachlor	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Hexachlorobenzene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Hexachlorobutadiene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06

Table I.19. Potential OSDC Draft Modeled Waste Acceptance Criteria (Continued)

COC	Specific Activity or Physical Limit (pCi/g or mg/kg)	Draft Concentration-based Modeled WAC[1] (pCi/g or mg/kg)				
		POA-1	POA-2	POA-3	POA-4	POA-5
Organics (continued)						
alpha-Hexachlorocyclohexane	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Hexachloroethane	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
2-Hexanone	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Indeno(1,2,3-cd)pyrene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Lindane	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Methoxychlor	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Methylene Chloride	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
2-Methylnaphthalene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Naphthalene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
4-Nitrobenzeneamine	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Nitrobenzene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
4-Nitrophenol	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
n-Nitroso-di-n-propylamine	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Pentachlorophenol	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Phenanthrene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Pyridine	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Tetrachloroethene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Toluene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Toxaphene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
1,1,1-Trichloroethane	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
1,1,2-Trichloroethane	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Trichloroethene	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
2,4,5-Trichlorophenol	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
2,4,6-Trichlorophenol	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
2,4,5-TP (Silvex)	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Vinyl acetate	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Vinyl chloride	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06	1.00E+06

[1] Modeled WAC, representing the activity concentration and chemical concentration criteria based solely on protection of human health and the environment, are only one of six DFF&O-required WAC, of which full compliance with all DFF&O WAC is required for disposal in a potential OSDC.

Green = Not restricted due to no migration to POA within 1,000 years.
Yellow = Not restricted due to very low concentration at POA within 1,000 years.

Note: A waste density of 1.84 g/cm^3 is used to calculate the limit.

COC = contaminant of concern
DFF&O = *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
OSDC = on-Site disposal cell
POA = point of assessment
WAC = waste acceptance criteria

It should be noted that significant accumulation of COCs in soils and sediments associated with mineral precipitates at the sandstone layer discharge locations, which may form as a result of reduction-oxidation (redox) reactions when water from the sandstone layer daylights, is not expected for several reasons. First, the OSDC design performance requirements limit the migration of radionuclide and inorganic constituents out of the OSDC and to POA-1 within a 1,000-year timeframe. As shown above, only a few inorganic COCs (technetium-99, chromium VI, silver, and cyanide) are predicted to reach POA-1 within this timeframe. Second, the reducing geochemical environment along the migration pathway, predominately due to pyrite within the sandstone layer, will likely result in precipitation of the major COCs (i.e., uranium and technetium) within this layer, resulting in an overall mass reduction of the COCs released at POA-1. Third, although there is a high affinity for uranium and technetium to be sequestered in iron oxy-hydroxide precipitates at POA-1, there would be very little accumulation of these major COCs in soils and sediments at POA-1 because uranium and technetium concentrations will be very low in the seep water as a result of reducing conditions along the flow path. Fourth, the most restrictive (i.e., lower) media-based risk standards were used at POA-1 as the basis for protecting human health and the environment. For the major COCs, these standards were the surface water-based concentrations, which are well below their respective soil-based standards. Therefore, if the risk standards for surface-water are met at POA-1, there is little concern for risk from the COC levels in soil and sediment. Finally, based on mass flux estimates at POA-1, it is expected that seep water would be of insufficient volume to generate a redox precipitate of sufficient mass to affect the soil-based standards within the 1,000-year timeframe.

I.5.4 AIR PATHWAY ANALYSIS FOR RADON-222 ABOVE THE OSDC CAPS

DOE Order 435.1 requires the radon flux above the cap of a low-level (radioactive) waste disposal facility to be less than 20 pCi/m^2/s above background over a period of 1,000 years. The calculations discussed and presented here indicate that the level of uranium needed to produce a radon-222 flux of 20 pCi/m^2/s above background at 1,000 years is over 1,000 times greater than the uranium mass expected to be placed in the potential OSDC.

Calculations are carried out according to the equations and default parameters in *Radon Attenuation Handbook for Uranium Mill Tailings Cover Design* (NRC 1984) using the material property values from the potential OSDC design (Geosyntec 2012). The calculations and input values are provided in Attachment I-1.

Radon-222, with a half-life of 3.7 days and a daughter in the uranium-238 decay chain, is the only radon isotope with a half-life sufficient to be of concern for transport through the waste and cap. Radon-219, with a half-life of 4.0 s and a daughter in the uranium-235 decay chain, has a half-life that is too short to survive transport through the waste and cap. Radon-220, with a half-life of 56 s, is not considered because it has a short half-life and it is a daughter of thorium-232, which is not a significant parent nuclide in the estimated radionuclide inventory for a potential OSDC at PORTS.

The nuclide that is entered into the radon flux calculation is radium-226, a daughter isotope that is also in the uranium-238 decay chain as the predecessor nuclide to radon-222. At PORTS, there is no detectable quantity of radium-226 in the uranium products processed in the plants, because radium-226 was removed from the uranium-238 decay chain when uranium was purified and converted to uranium hexafluoride prior to processing. Therefore, radium-226, with a half-life of 1,600 years, is not an isotope of concern for PORTS, but it will be produced by the decay of uranium-238, uranium-234, and thorium-230 (nuclides found at PORTS) over the 1,000-year assessment period for a low-level (radioactive) waste disposal facility.

Through an iterative calculation process, it is determined that 385 pCi/g of radium-226 in the waste will produce a radon-222 flux of 20 pCi/m^2/s above a cap with a geosynthetic clay liner and geomembrane no longer effective (a degraded cap). To produce this activity of radium-226 over 1,000 years requires a substantial inventory of uranium-238 to be present in the initial waste streams deposited in the potential OSDC. The amount of uranium-238 needed to yield 385 pCi/g of radium-226 can be calculated using the radium-226/uranium-238 ratio at 1,000 years. This ratio is obtained by performing a Bateman calculation to derive the radium-226/uranium-238 ratio as a function of time.

A Bateman calculation was performed assuming a maximum curie inventory for uranium-238 (87.6 Ci), uranium-234 (188 Ci), and thorium-230 (0.603 Ci) in a potential OSDC to determine the daughter ingrowth in the uranium-238 decay chain over a period of 1,000 years (Savannah River National Laboratory 2013). This calculation yielded a radium-226/uranium-238 activity ratio of 0.00611 at 1,000 years, which means every curie of uranium-238 produces 0.00611 Ci of radium-226 in 1,000 years. As the maximum estimate for uranium-238 is 87.6 Ci, the maximum amount of radium-226 that can be produced in 1,000 years is 0.535 Ci (87.6 × 0.00611). For an average waste density of 1.6 g/cm^3 and 4 million cy of waste, this amount of radium-226 equates to 0.109 pCi/g, which is over 3,000 times lower than the radium-226 activity of 385 pCi/g that is needed to produce the allowed radon-222 flux of 20 pCi/m^2/s above background. This also shows that the estimated maximum inventory for uranium-238 is less than 1 percent of the uranium-238 needed to produce the radon-222 flux of 20 pCi/m^2/s above background. Therefore, the above analysis and radon calculations in Attachment I.1 demonstrate that the radon levels above the cap at 1,000 years will not exceed 20 pCi/m^2/s above background.

I.5.5 SENSITIVITY AND UNCERTAINTY ANALYSIS

There are several uncertainties that may affect the draft modeled WAC modeling results. These uncertainties include site-specific conditions, fate and transport parameters, and potential OSDC conceptual design performance assumptions.

The largest potential impacts to the modeling results are associated with the OSDC performance assumptions for the engineered layers because these assumptions have a direct effect on the source release rate, which manifests as the carrier of the constituents from the disposal cells within the time period considered. For the modeling effort, lower performance assumptions, in terms of the degradation of landfill design components, are used which results in slightly higher modeled release rates than what may actually occur. Further, it is likely that the degradation rates of the facility cover and base liner layers may be different resulting in changes to the moisture content of the waste zone which may increase the source release rate within the first 500 years. However, any such changes would effectively increase the movement of only the more mobile constituents, which are those with lower K_d values.

The models used a soil/water partition relationship to describe the release of the constituents. Thus, the fate and transport parameters, specifically K_d for the source zone, will have direct impacts on the draft modeled WAC. Higher K_d values result in the contaminant being less mobile and thus it will remain in the source zone, whereas those constituents with preference to the aqueous phase (lower K_d) will move with water more readily. The K_d values used for the modeled WAC analysis are mostly within a low to medium range of reported values in the literature. For example, the K_d used for technetium-99 in waste, 2.03 (based on laboratory analysis using soil/rock samples from PORTS), is low, indicating a high potential for migration. This conservative K_d applies to the entire waste mass, which is made up primarily of soil (EC-1), although a high amount of waste other than soil (EC-2), including PGE, will be in the waste mass. The form of technetium-99 can vary, particularly within the barrier of the PGE, based on the chemical conditions. Under oxidizing conditions, technetium-99 is in the soluble and highly mobile oxy anion pertechnetate form, while under reducing conditions it is primarily in the hydrated oxide form, which is immobile. Nevertheless, for conservatism, the K_d for the more mobile form of technetium-99 was assumed for the waste since the potential OSDC will have a high soil mass which will largely be under oxidizing conditions initially and in the future when the facility begins to rehydrate following a dry phase (see Figure I.11). Final modeled WAC may be developed to consider alternative forms of waste such as scrap metal, concrete, and treated waste forms that will have different K_d values, which means the contamination in the modeled waste would be more or less mobile than assumed for soil-like materials. Although it is likely that contaminants released from variable forms of waste may be different than soil-like material, the overall release from the disposal cell to the underlying geologic layer is controlled by the predominant soil-like matrix of the waste.

Another uncertainty is the biodegradation rate of the organic constituents. Large ranges of half-lives are reported for these compounds. However, most of the literature studies show rapid degradation of these compounds in most environments, except in the presence of a dense, nonaqueous phase liquid source.

One important consideration for some of the constituents is the assumption that the draft modeled WAC calculation considers the time frame post-operations. The fate and reduction of the constituents during the cell operation time frame, often up to 20 years while the waste is being subjected to direct contact with large quantities of rainfall water, are not considered. For some uncontained mobile constituents, the concentration or mass could be reduced greatly during this period through biodegradation and source leaching and removal from the system in landfill water (contact water or leachate). Thus, the applicable modeled WAC for some of these more mobile constituents could be even higher than those calculated through this modeling effect. For most VOCs and some SVOCs, their half-lives during exposed conditions (direct sunlight, etc.) and during likely aerobic conditions are often in the range of days.

Much of the waste disposed in a potential OSDC would be waste that is not soil (EC-2) with the contamination likely occurring on the surface of the material. Thus, the contamination is subject to removal due to washing from precipitation and dust control methods during demolition as well as during cell operations. For this waste, the contaminant mass may be decreased significantly as a result before capping of the potential OSDC. The model and calculation did not consider this contaminant mass removal process, therefore the concentration ratios predicted may be higher than expected resulting in the actual draft modeled WAC calculated herein to be higher.

The waste volume for a potential OSDC is another source of uncertainty. The draft modeled WAC were modeled based on a waste volume of 5 million cy, which results in an 11 cell configuration and resultant areal footprint. Higher flux volumes and concentrations of COCs are generally expected with a larger waste cell footprint (increased waste volume). A higher draft modeled WAC would result for a smaller footprint (and lower waste volume).

The site condition refers to the characterization of the rock/soil mechanical and hydraulic properties. These parameters affect the fate and movement of the contaminants in the environmental media. The parameters, such as porosity, initial moisture content, and hydraulic conductivities, could affect the speed and travel time of the water in the model domain, especially in the predominantly unsaturated zone at Site D. Sensitivity runs during the STOMP simulations showed the water travel time impacts from these factors. Lower porosity or higher initial water content in the rock/soil types will result in a faster water travel time because the available air/pore spaces are lower and additional water may fill up the space quicker, thus promoting the downward movement of the water front. However, the impact on the contaminant concentration profile and maximum peak concentration is low because the contaminant mass flux is determined from the source zone and initial moisture water is free of the contaminant. The initial contaminant front is therefore diluted more with higher initial moisture content. For the lower initial moisture content media, the mass flux from the cell may arrive later, but the constituents would be in higher concentrations because there would be less dilution along their path.

Because the potential OSDC is on top of the Cuyahoga shale, any connected vertical fractures within the zone could also affect the travel time and create preferable flow paths. However, the current field investigation shows that the fractures in the rock are mostly developed along the horizontal bedding planes because of the difference in material types associated with geologic depositional history. The vertical fractures do not propagate across the bedding planes, suggesting the weathering phenomenon is associated with the horizontal bedding planes.

Climatic data used in the HELP model are from a database consisting of over 100 years of site-specific weather measurements. These long-term data used in the model provided the limits of the normal climate variation. Impact of climatic change on the modeled WAC, unless it is toward one end of an extreme and is sustained over very long periods such that the accelerated degradation of the disposal cell cover system and underlying geologic barrier occurs, would be very minimal.

I.6. SUMMARY OF THE DRAFT MODELED WASTE ACCEPTANCE CRITERIA

The predominant and long-term migration pathway of contaminants from a potential OSDC to human and ecological receptors is through contaminated water that exits the underside of a disposal facility, enters a saturated zone, and traverses laterally downgradient to a receptor located beyond a buffer zone surrounding the disposal facility. Thus, facility design greatly influences modeled WAC because a potential OSDC will include a cover and base liner consisting of multiple layers designed to (1) reduce water infiltration through the cap; (2) maximize leachate collection and leak detection; (3) minimize erosion; (4) prevent human, plant root, and burrowing animal intrusions into the wastes; and (5) retard exfiltration through the liner and into the underlying geologic materials. Additionally, chemical parameters such as the partition coefficient (K_d) control migration of constituents. The underlying geologic material will greatly influence migration, both in terms of flow direction and rate. Therefore, numerical modeling, incorporating water infiltration into the facility, constituent release from the waste matrix, vertical migration through the multiple layers of the facility and existing geologic strata, and ultimately horizontal migration with groundwater flow to the defined receptor location are required to establish modeled WAC.

The list of COCs from the risk assessment (Section 5) in the RI/FS report provides the initial set of constituents for which draft modeled WAC are derived. The COCs are expanded by sampling information from the process buildings and from environmental media. Next, additional constituents found on the RCRA TCLP list were added to ensure that COCs present in contingency waste volumes are represented. Finally, as surrogate constituents, those COCs determined to be present in similar DOE landfills were added to ensure a comprehensive modeled WAC for a potential OSDC at PORTS. In accordance with the DFF&O, the time period (time of compliance) over which the facility must be evaluated to ensure protection of the public and environment is 1,000 years following facility capping.

The contaminant leaching analysis used to model contaminant migration potential for a potential OSDC requires several predictions, which include the following:

- Infiltration of water from precipitation into a potential OSDC

- Leaching of contaminants from the waste disposed within a potential OSDC as a result of infiltration and downward migration through the unsaturated geologic strata beneath the facility (vadose zone) into the underlying groundwater zone

- Transport of contamination in groundwater beneath a potential OSDC to the receptor well and discharge to surface water bodies.

Five POAs and one POC were assessed. Modeling indicated that only five radionuclides and four inorganic constituents are predicted to migrate to the closest POA (POA-2), although at very low concentrations. No other COCs are modeled to reach the POAs within the 1,000-year compliance period. Given that the calculated numbers for the above constituents are either above their respective specific activities or higher than their respective physical concentration limits, coupled with the fact that the balance of the COCs are not predicted to reach any of the POAs within the 1,000-year compliance period and that the estimated radionuclide inventory for the waste destined for a potential OSDC at Study Area D is well below the modeled WAC, there effectively is no modeled limit for these constituents in waste when placed in a potential OSDC at Site D.

Based on input received from members of the public and other considerations, DOE and Ohio EPA have elected not to pursue on-Site disposal of the following waste streams in any future OSDC at PORTS:

- Converters, compressors and coolers from the X-326 Process Building

- Containerized nuclear material inventories of uranium compounds exhibiting enrichments greater than 20 percent (excludes items such as miscellaneous parts, pipes, valves, empty containers etc., with only residual contamination which were packaged for ease of handling and safety reasons).

While these streams are within the calculated values presented in this appendix, they are by agreement not being considered for on-Site disposal. With the elimination by agreement of the waste streams listed in the bullets above, use of a potential OSDC for the remaining waste materials present at PORTS would create a safety factor of at least five orders of magnitude, providing substantial added assurance that no human or ecological receptor would be impacted above established regulatory levels within the 1,000-year design horizon.

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ATTACHMENT I.1: RADON CALCULATIONS

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Radon calculations were performed using the equations and default parameters in *Radon Attenuation Handbook for Uranium Mill Tailings Cover Design* (NRC 1984) and the material property values from the on-Site disposal cell OSDC design (Geosyntec 2012).

Step 1: Radon flux from waste to base of cap at 1,000 years:

Jt = 10^4RρE(λDt)^0.5tanh((λ/Dt)^0.5*Xt)		
Jt = radon flux from the waste materials	calculate	pCi/m^2/s
R = specific activity of Ra-226 in the material	385	pCi/g
ρ = dry bulk density of the material	1.51	g/cm^3
E = radon emanation coefficient	0.2	dimensionless
Dt = radon diffusion coefficient	1.90E-02	cm^2/s
λ = decay constant for Rn-222	2.10E-06	1/s
Xt = thickness of material	1557	cm
Unit conversion from m^2 to cm^2	10,000	
Jt =	2.32E+02	pCi/m^2/s

Step 2: Values for material properties:

		Geosyntec reported values					Calculated values		
LAYER	layer#	x thickness cm	p porosity	MC moisture content	SG specifc gravity	Radon Diff Coef cm^2/s	m moisture saturation	a cm^2/s	b 1/cm
topsoil	8	15.2	0.398	0.15	2.80	7.66E-03	6.35E-01	3.41E-04	1.66E-02
vegetative soil	7	53.3	0.464	0.15	2.80	1.60E-02	4.85E-01	1.42E-03	1.15E-02
granular fill	6	15.2	0.437	0.08	2.65	3.25E-02	2.73E-01	3.95E-03	8.04E-03
biointrusion barrier	5	91.4	0.397	0.02	2.65	5.59E-02	8.05E-02	7.79E-03	6.13E-03
cover drainage	4	30.5	0.397	0.02	2.65	5.59E-02	8.05E-02	7.79E-03	6.13E-03
geomembrane	3	0.2	0.0001	0.0001	0.95	5.80E-08	--	--	--
Geosyn clay liner	2	0.6	0.750	0.25	2.80	3.64E-02	--	--	--
Compacted clay	1	61.0	0.401	0.17	2.80	4.50E-03	7.11E-01	1.62E-04	2.16E-02
impacted material	0	1557	0.453	0.13	2.76	1.90E-02	4.33E-01	1.80E-03	1.05E-02
CompClay+ImpMat		1618	0.427	0.15	2.78	8.38E-03	5.60E-01	5.25E-04	1.58E-02
			m = SG*MC/(p/(1-p))					a = p^2D(1-(1-k)m)^2	
			k =	0.26	@ 20C	NRC		b = (λ/D)^0.5	

Step 3: Radon flux above the compacted clay layer:

Jc = (2Jt*exp(-bc*xc))/(1+(at/ac)^0.5*tanh(bt*xt))+(1-(at/ac)^0.5*tanh(bt*xt))*exp(-2bc*xc)

Jc = radon flux at top of cover layer
ac = pc^2Dc(1-(1-k)mc)^2 at = pt^2Dt(1-(1-k)mt)^2
bc = (λ/Dc)^0.5 bt = (λ/Dt)^0.5
Dc = radon total diffusion coefficient for cover layer Dt = radon total diffusion coefficient for waste layer
Mc = moisture content (dry wt fraction) for cover layer Mt = moisture content (dry wt fraction) for waste layer
mc = fractional moisture saturation mt = fractional moisture saturation
pc = porosity of homogenous cover layer pt = porosity of waste layer
xc = thickness of homogenous cover layer xt = thickness of waste layer
k = radon distribution coefficient for water/air

Jc1 = 2.99E+01 pCi/m^2/s

Step 4: Calculate an equivalent source diffusion coefficient for the waste and compacted clay layer:

Dt1 = Dt*exp(-bc1*xc1) + Dc1*(1-exp(-bc1*xc1)) = 8.38E-03 cm^2/s

Step 5: Radon flux through cover drainage and biointrusion layer (NOTE: this is taken as the top of the cap, assuming geosynthetic clay liner and geomembrane have failed, and topsoil, vegetative soil and granular fill are removed by erosion):

Applying equation in Step 3 with the recalculated diffusion coefficient in Step 4:

Jc45 = 1.99E+01 pCi/m^2/s

APPENDIX J: ON-SITE DISPOSAL CELL CONCEPTUAL DESIGN FOR SITE D (ALTERNATIVE 2)

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Table J.1 lists and describes the conceptual design figures for the proposed on-Site disposal cell design, which includes a site plan and cross sections.

Table J.1. Site Plans and Detail Drawings for PORTS

Figure	Brief Description of Figures
J.1 OSDC Site D Location Map	This is the proposed OSDC location with a waste placement area of approximately 66 acres.
J.2 OSDC 3.9 million cy Site D Layout	Assumes 3.9 million cy capacity with a waste placement area of approximately 50 acres. A 5-ft-tall (minimum), structural clay, soil fill berm with 4H:1V side slopes lies at the perimeter of the landfill footprint and around the perimeter of each cell within the landfill. Sedimentation basins for the landfill are shown. An access/haul road and drainage ditches are constructed outside the landfill but inside an interior security fence. A wastewater treatment facility, support facilities and parking, equipment storage/laydown area, and an IMTA are shown inside the external security fence.
J.3 OSDC 3.9 million cy Site D Cross-section Plan	Shows locations of cross sections for the 3.9 million cy capacity layout.
J.4 OSDC 3.9 million cy Site D Cross Sections	Typical cross section view of cell locations shown along grade elevations. As shown, the berm surrounding each cell improves perimeter water control and would allow for landfill capping at any time.
J.5 OSDC 5 million cy Site D Layout	Assumes 5 million cy capacity with a waste placement area of 66 acres. A 5-ft-tall (minimum), structural clay, soil fill berm with 4H:1V side slopes lies at the perimeter of the landfill footprint and around the perimeter of each cell within the landfill. Sedimentation basins for the landfill are shown. An access/haul road and drainage ditches are constructed outside the landfill but inside an interior security fence. A wastewater treatment facility, support facilities and parking, equipment storage/laydown area, and an IMTA are shown inside the external security fence.
J.6 OSDC Haul Road	Shows the proposed OSDC and haul road location.
J.7 OSDC 5 million cy Site D Cross-section Plan	Shows locations of cross sections for the 5 million cy layout.
J.8 OSDC 5 million Site D Cross Sections	Typical cross section view of cell locations shown along grade elevations. As shown, the berm surrounding each cell improves perimeter water control and would allow for landfill capping at any time.

IMTA = impacted material transfer area
OSDC = on-Site disposal cell

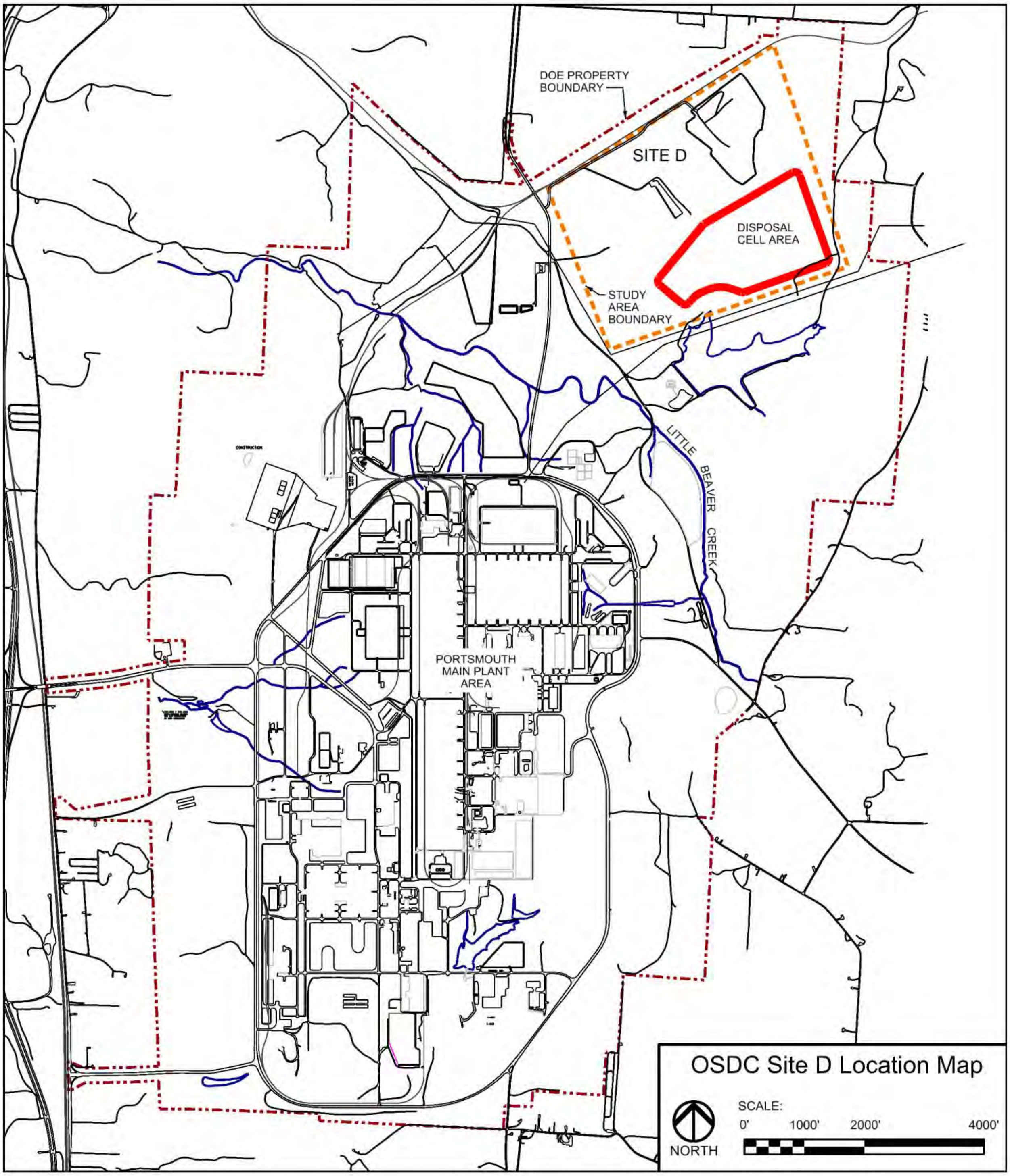

Figure J.1. OSDC Site D Location Map

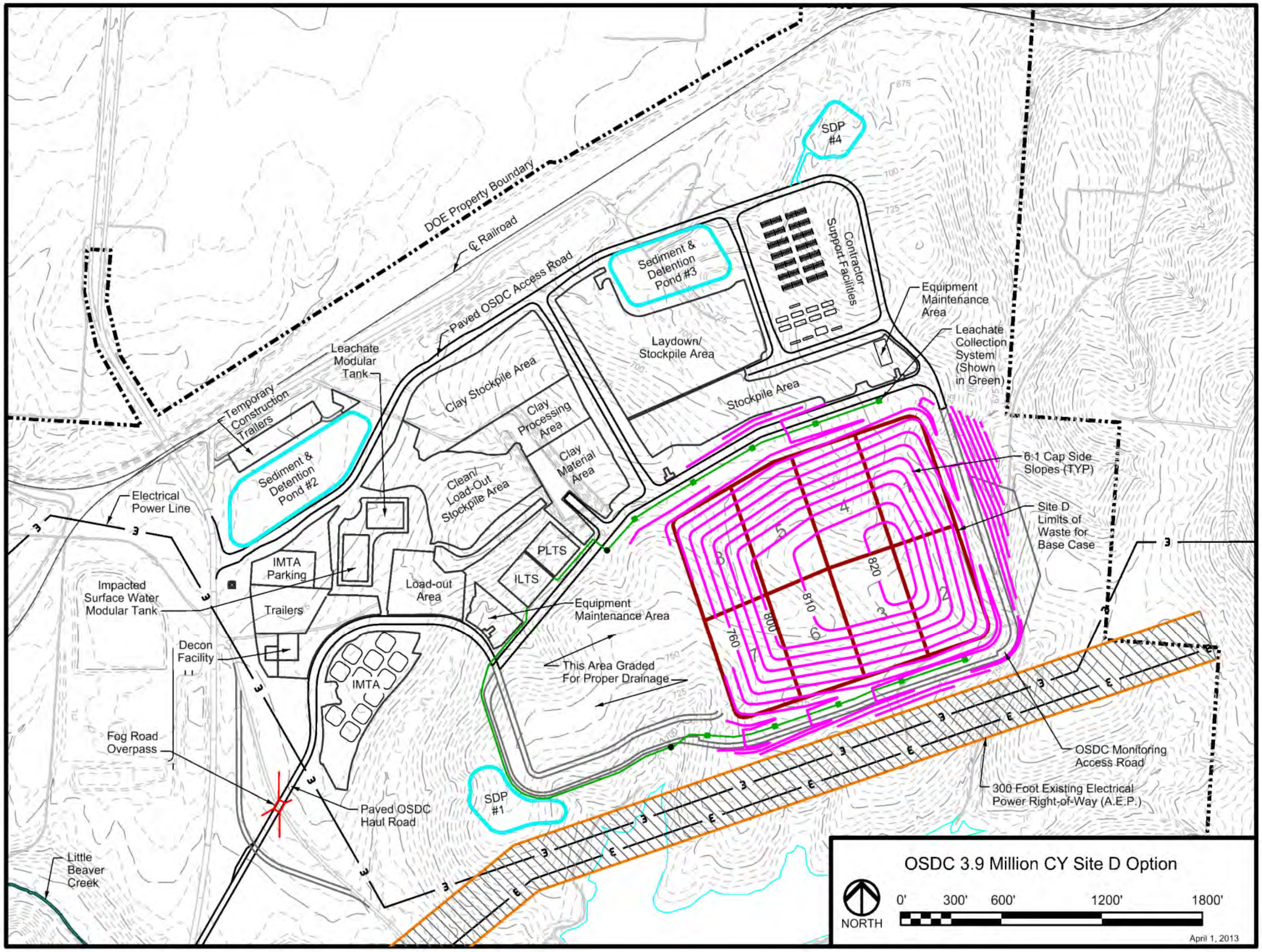

Figure J.2. OSDC 3.9 million cy Site D Layout

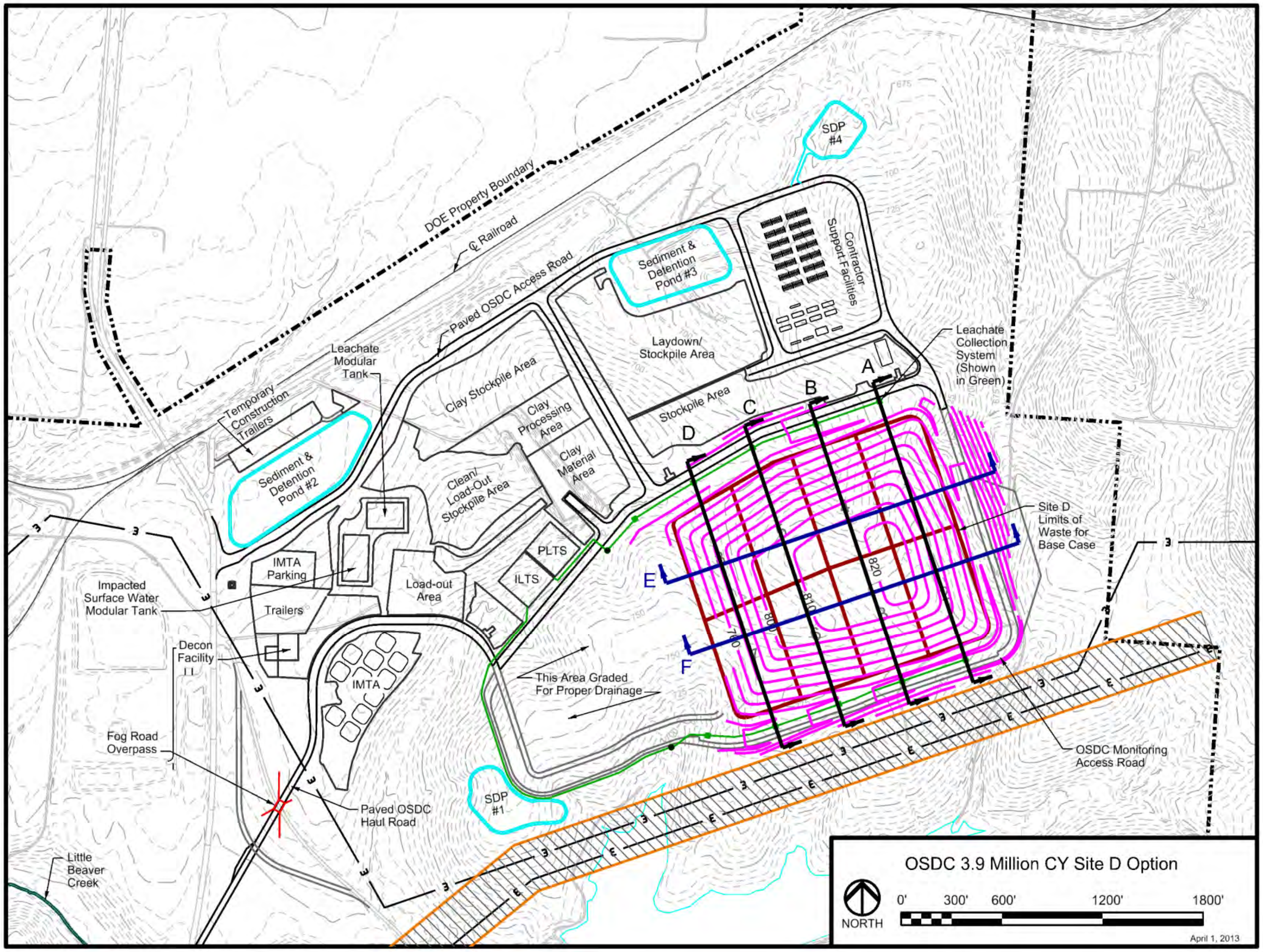

Figure J.3. OSDC 3.9 million cy Site D Cross-section Plan

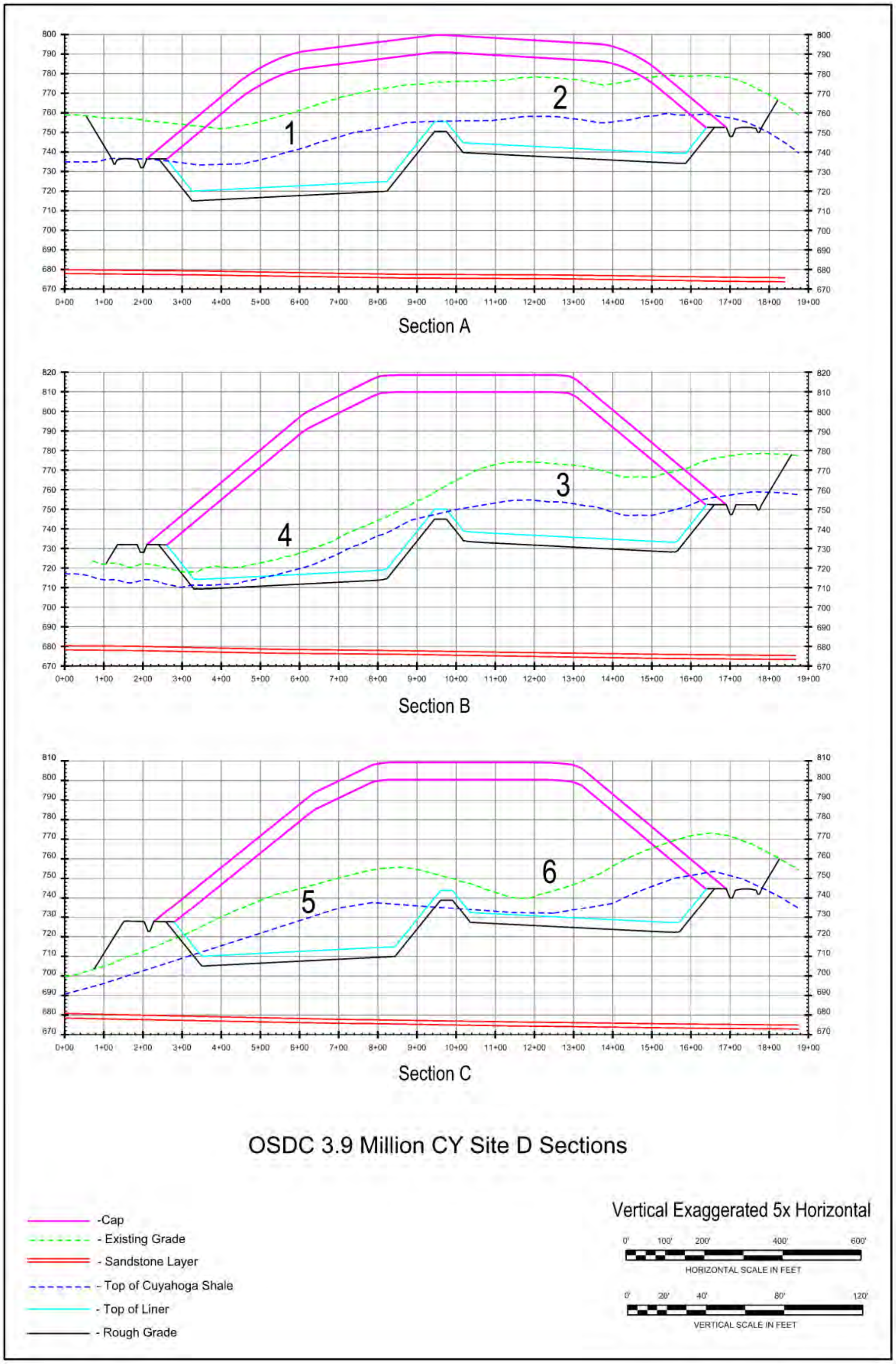

Figure J.4. OSDC 3.9 million cy Site D Cross Sections

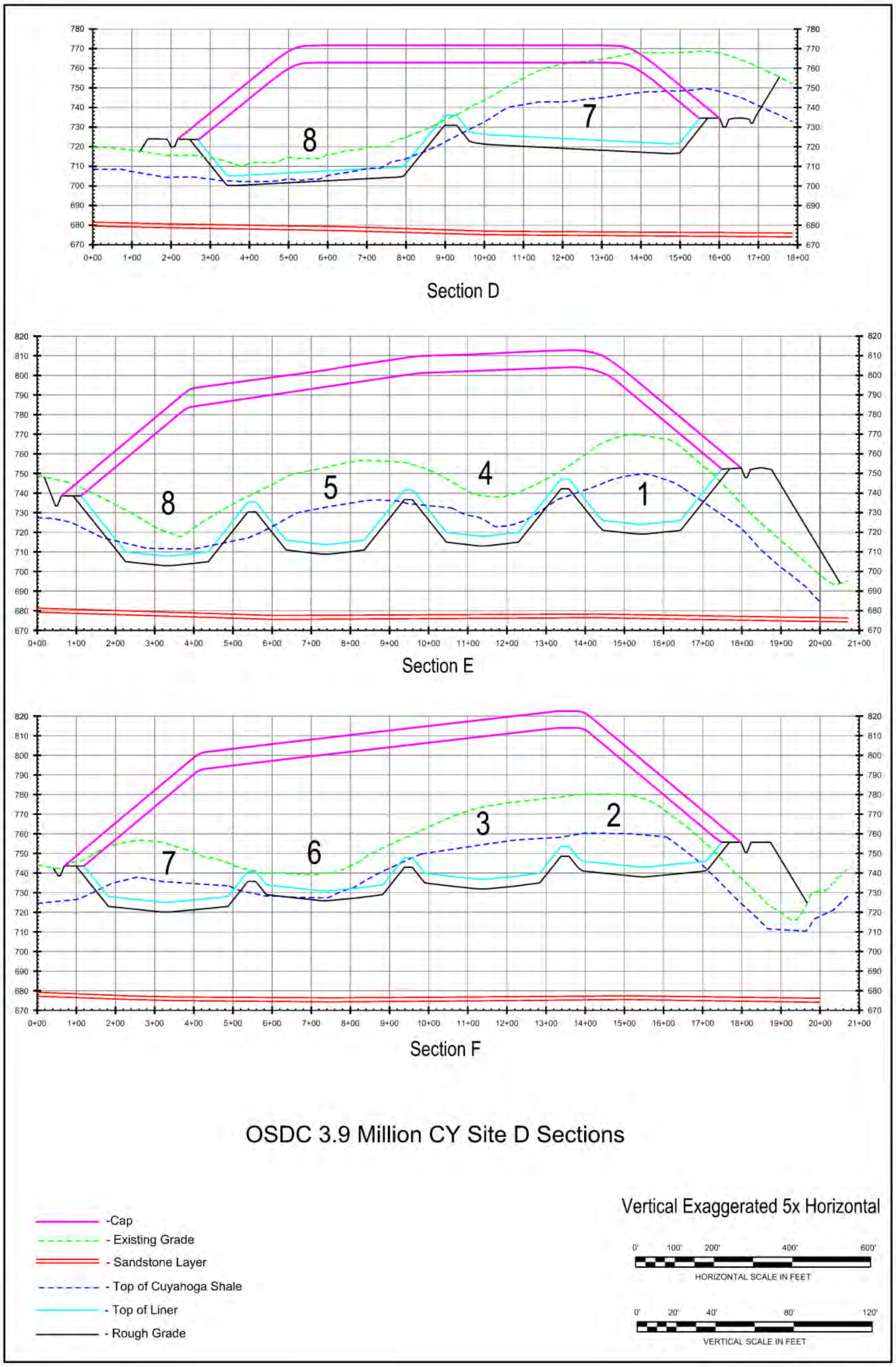

Figure J.4. OSDC 3.9 million cy Site D Cross Sections (continued)

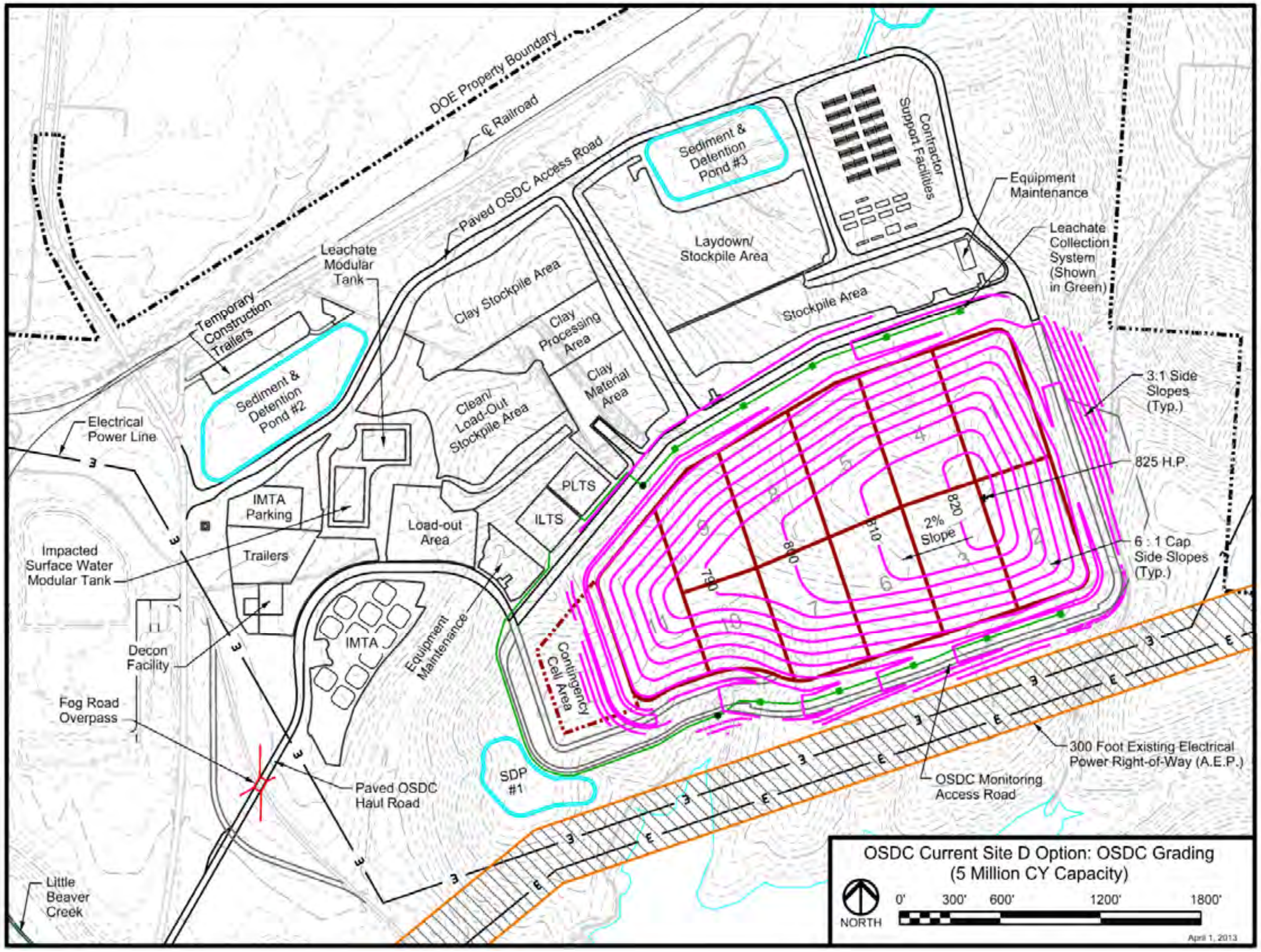

Figure J.5. OSDC 5 million cy Site D Layout

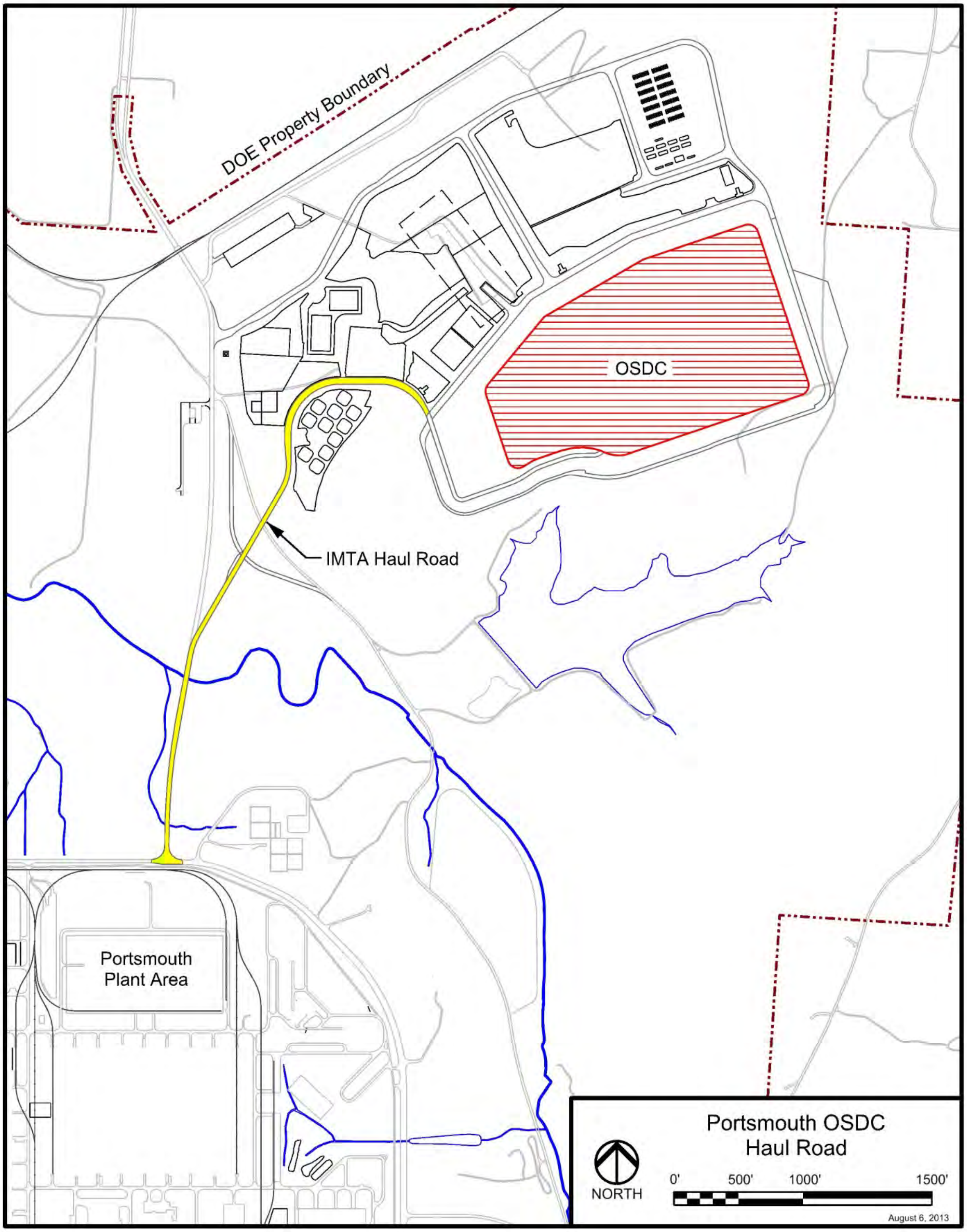

Figure J.6. OSDC Haul Road

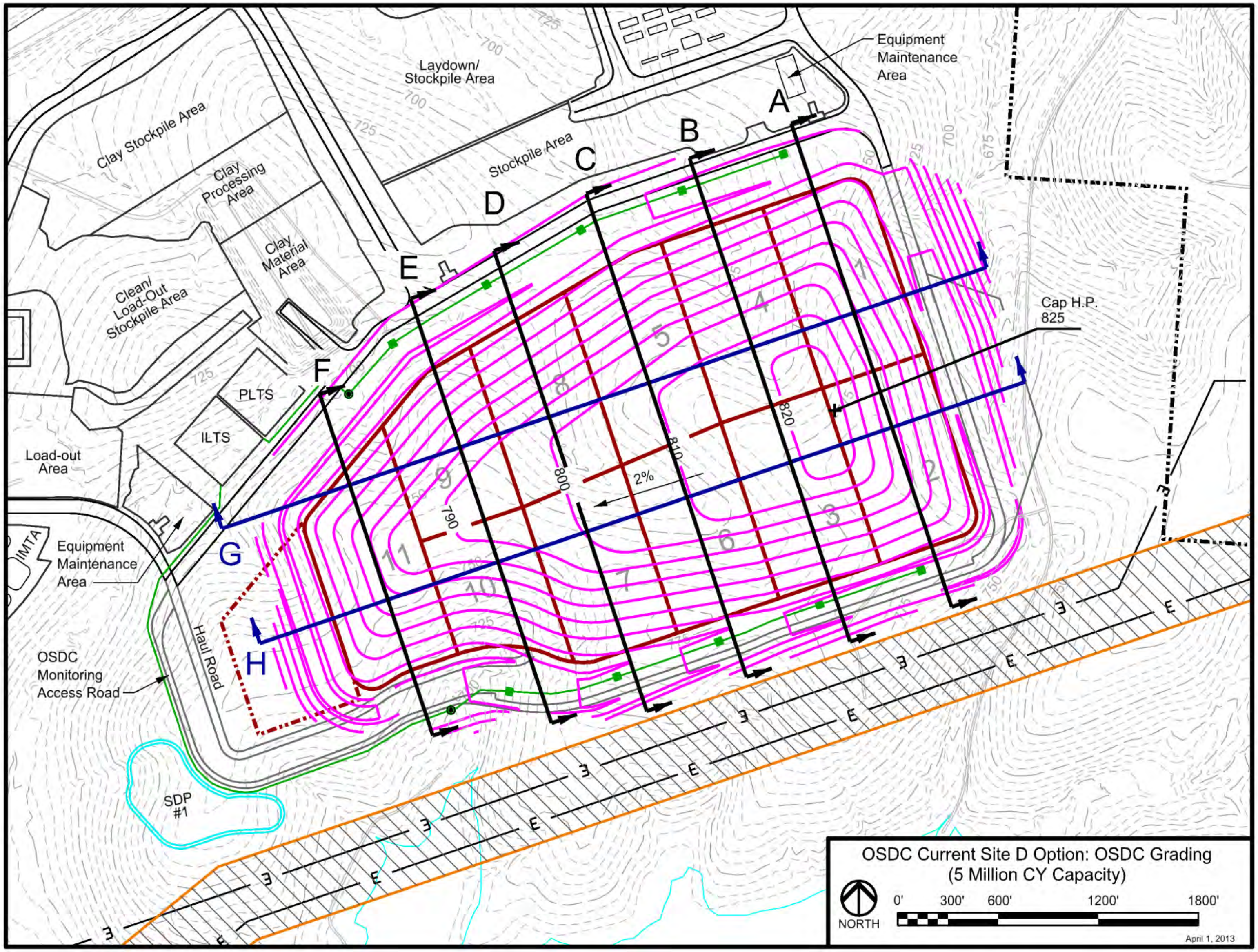

Figure J.7. OSDC 5 million cy Site D Cross-section Plan

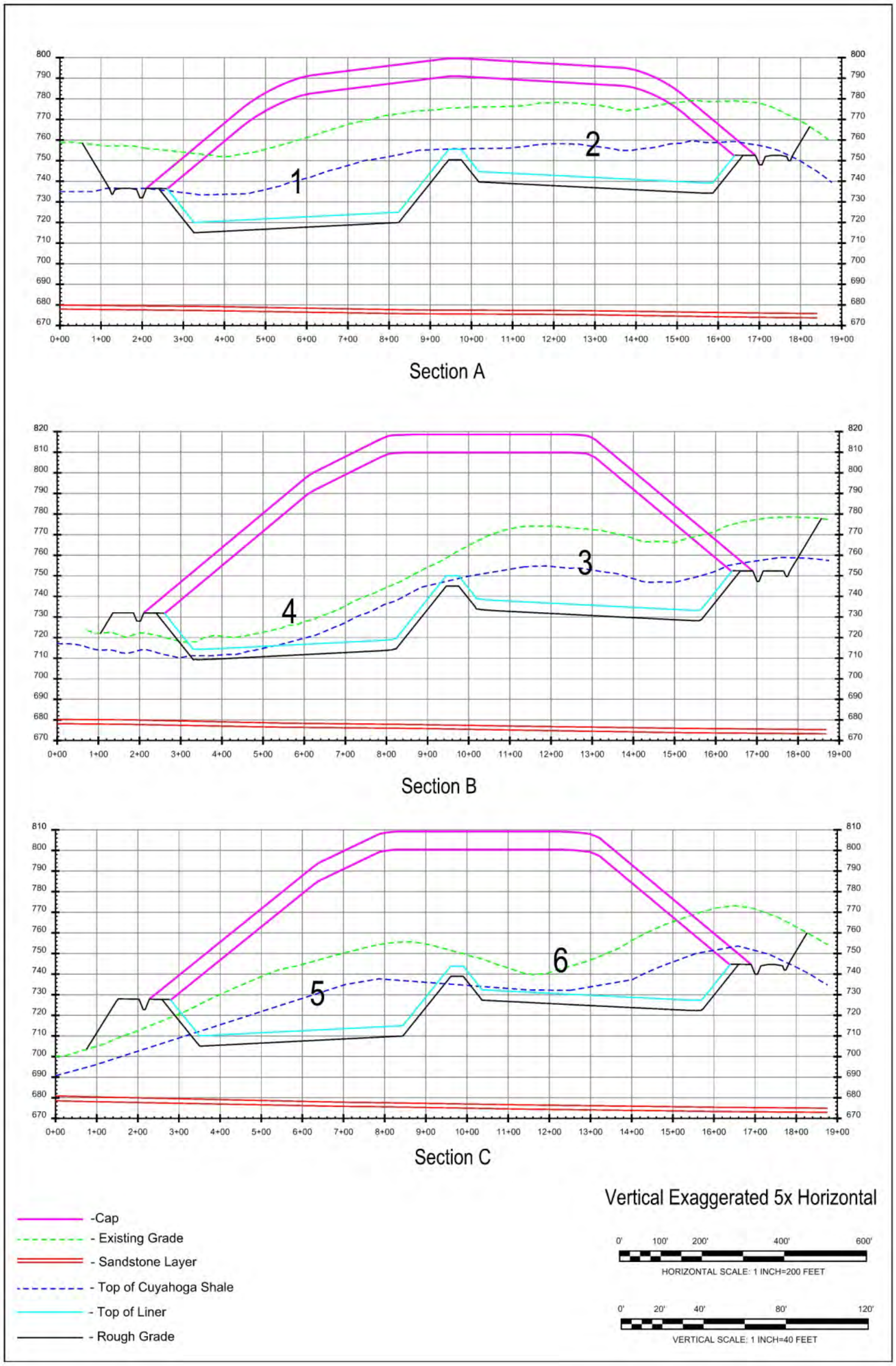

Figure J.8. OSDC 5 million cy Site D Cross Sections

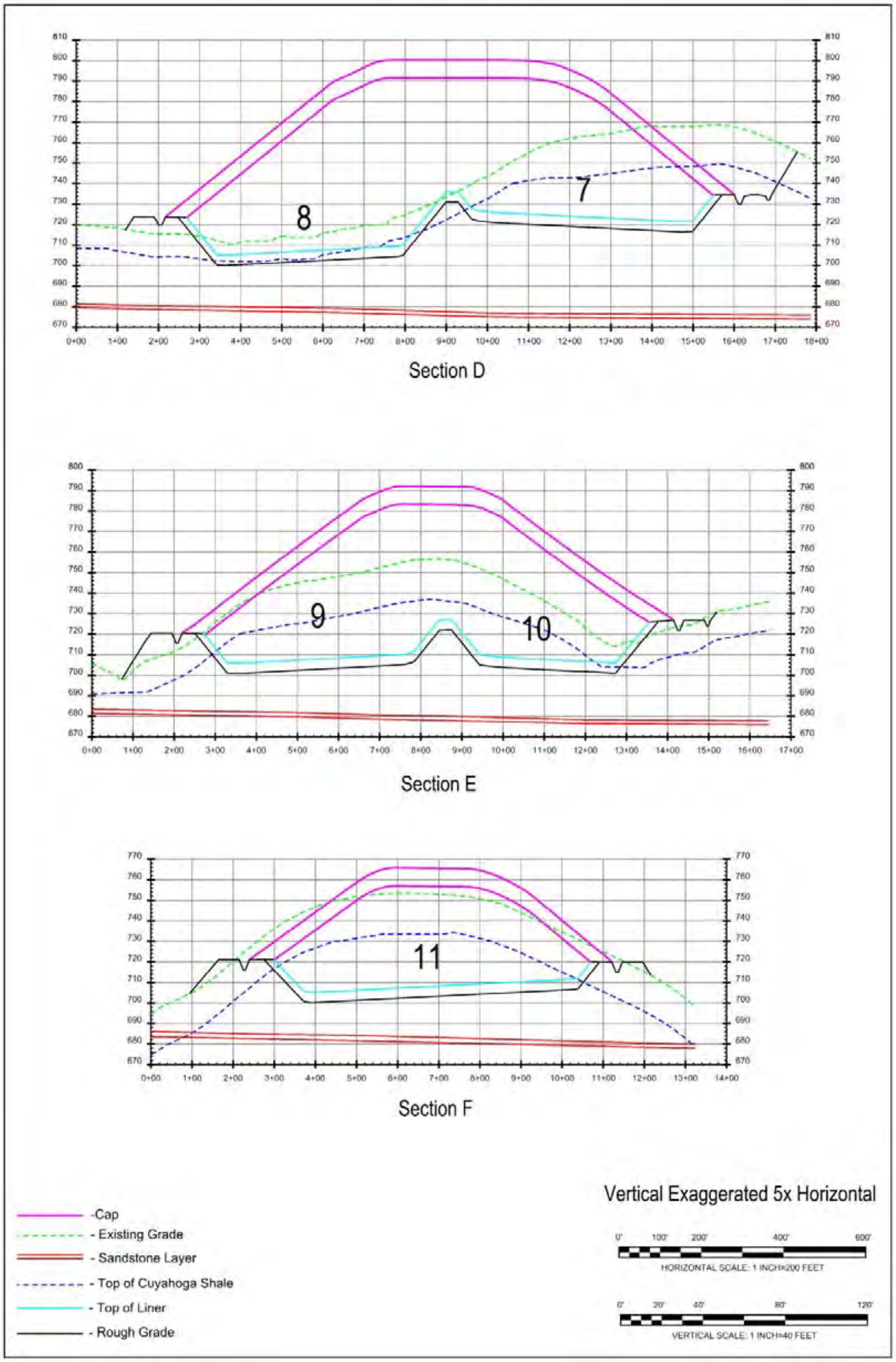

Figure J.8. OSDC 5 million cy Site D Cross Sections (continued)

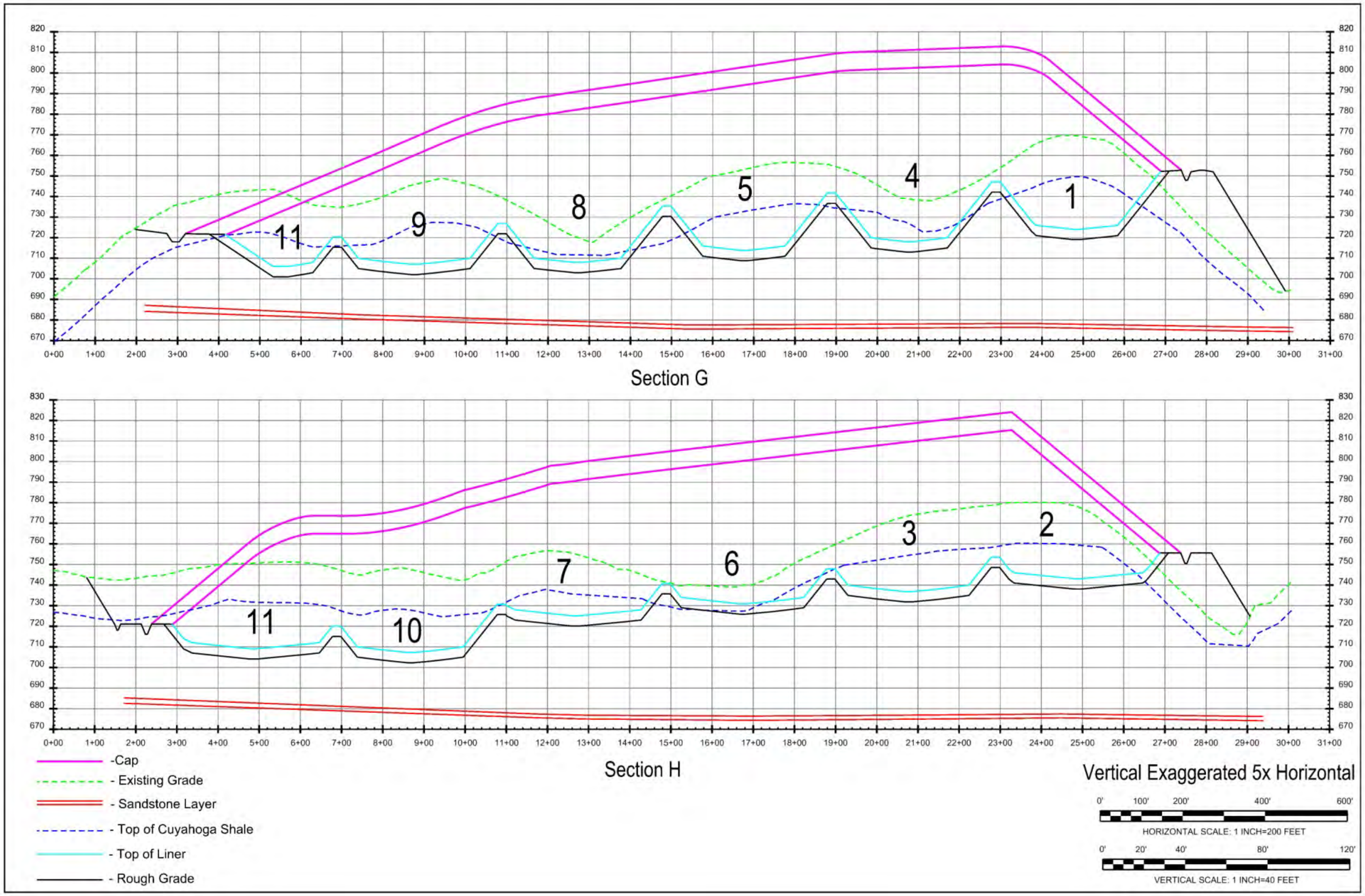

Figure J.8. OSDC 5 million cy Site D Cross Sections (continued)

APPENDIX K: METHODS AND RESULTS TO SUPPORT INDIVIDUAL ANALYSES OF ALTERNATIVES

CONTENTS

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FIGURE

TABLES

ACRONYMS

D&D	decontamination and decommissioning
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
EC	engineering category
EPA	U.S. Environmental Protection Agency
FS	feasibility study
GHG	greenhouse gas
HELP	Hydrologic Evaluation of Landfill Performance
LLW	low-level (radioactive) waste
NDA	nondestructive assay
NNSS	Nevada National Security Site
OSDC	on-Site disposal cell
PGE	process gas equipment
PLTS	passive leachate treatment system
PORTS	Portsmouth Gaseous Diffusion Plant
RC	regulatory category
SRC	site-related contaminant
TCE	trichloroethene
WAC	waste acceptance criteria

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PREFACE

This appendix includes the methods used and results of three quantitative assessments, one to support evaluation of long-term effectiveness and two to support evaluation of short-term effectiveness of Alternatives 2 and 3. This appendix first discusses the potential impacts to surface water if a leachate collection and treatment system of a potential on-Site disposal cell that is part of Alternative 2 fails. It then presents the impacts of transportation accidents, based on the number of miles traveled transporting waste from and materials to the Portsmouth Gaseous Diffusion Plant, for both Alternatives 2 and 3 via truck and rail. Finally, it determines an estimate of the carbon emissions, based on total miles by truck or rail, from transporting waste and materials for each action alternative.

K.1 ON-SITE DISPOSAL CELL PASSIVE LEACHATE TREATMENT SYSTEM FAILURE

K.1.1 INTRODUCTION

An analysis was conducted to predict the potential concentrations of site-related contaminants (SRCs) at the Portsmouth Gaseous Diffusion Plant (PORTS) in the surface water resulting from failure of the passive leachate treatment system (PLTS). This system would be part of the potential on-Site disposal cell (OSDC) located in Site D, which is the representative location for such a facility if Alternative 2 is selected (see Appendix D of this report). For this evaluation, the potential OSDC is assumed to be a 3.9 million cy configuration.

The PLTS would be installed after the 30-year post-operations period when leachate generation rates are expected to be minimal. This system is conceptualized to consist of in-situ treatment media installed within the ditches cut into the shale for the original leachate conveyance lines. As the leachate moves through the treatment media, constituents are adsorbed onto the treatment media prior to water being discharged from the end of the PLTS. This system would treat the small volume of leachate anticipated to be generated in the future after facility capping. This system would remain in place with minimal, if any, maintenance.

The SRCs considered in this analysis include technetium-99, uranium-234, uranium-235, uranium-238, and trichloroethene (TCE). Uranium isotopes, technetium-99, and TCE are included in this quantitative analysis regarding failure of the PLTS since these are the primary contaminants of concern from process knowledge and would make up significant contaminant mass in the material that might be placed in a potential OSDC both from decontamination and decommissioning (D&D) activities (regulatory category [RC]-1) and from fill that may be contaminated (RC-2, RC-3). While other constituents would be present in the waste, uranium isotopes, technetium-99, and TCE represent those most likely to be in leachate for which treatment media would be targeted.

The potential failure of the PLTS could result from either ineffectiveness of treatment media that is part of the system allowing untreated leachate to be released to the surface or leachate bypassing the treatment media because of collection and transmission system failure, such as clogging, with leachate being released to the surface. In both failure scenarios, untreated leachate flows overground and enters a nearby water body.

This analysis does not take into account source depletion and therefore may overestimate leachate concentrations that might emanate from the PLTS under a failure scenario. It should be noted that long-term monitoring of this system as part of the overall environmental monitoring program would serve to identify potential failure conditions. This would allow corrections to be made before such conditions become irreversible. This uncertainty, as well as the fact that other constituents are not included in this analysis, is discussed in the uncertainties section below.

K.1.2 CALCULATION METHODS

The analysis was conducted following the steps described below.

1) Pathway and assessment point

   The pathway is the treated leachate discharge from the PTLS via gravity flow to the nearest surface water body located downgradient from the potential OSDC at Site D. Based on the conceptual design, the treated leachate would be discharged to the unnamed intermittent stream on the north side of PORTS, which drains into Little Beaver Creek. The assessment location for this analysis is a point in Little Beaver Creek, just west of the confluence of Little Beaver Creek and the northern unnamed drainage ditch. Figure K.1 shows the assessment point location. This location was selected because it is the closest surface water location that may receive effluent from the OSDC in Site D and because it is a location for which surface water flow data are available.

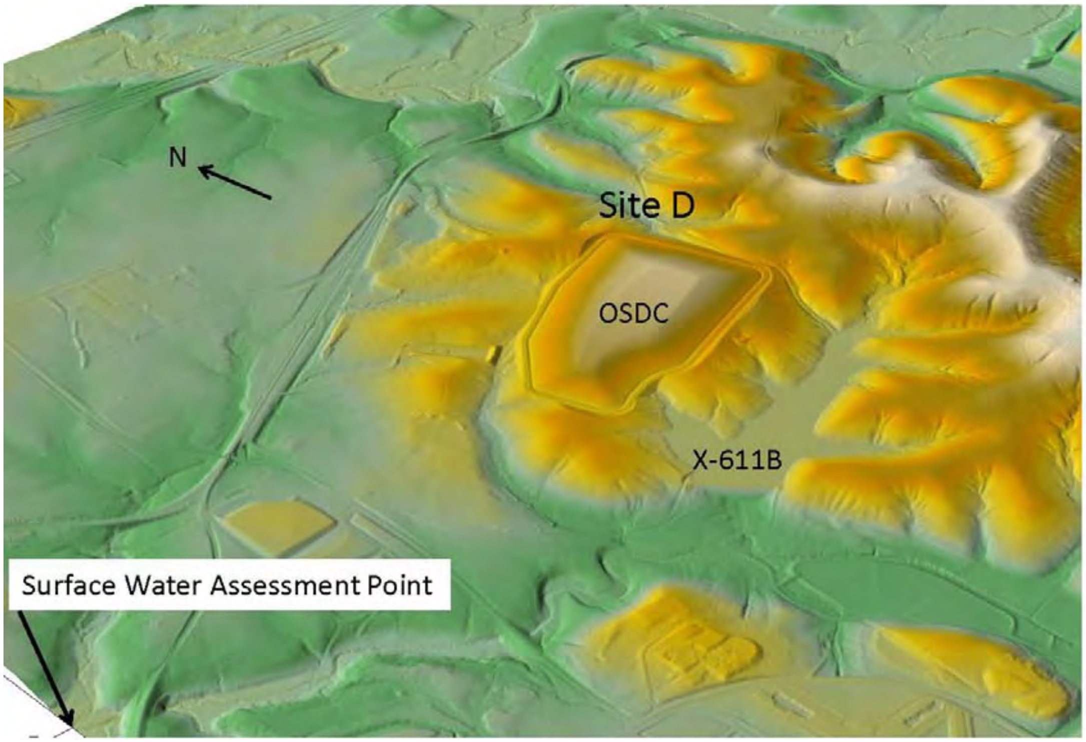

Figure K.1. Assessment Location

2) OSDC Source term determination

The source term for potential leachate emanating from a potential OSDC includes the contaminant activity (for radionuclides) or mass (for chemicals) within a potential OSDC. The concentrations of technetium-99 and uranium isotopes were calculated on the basis of total activity from nondestructive assay (NDA) measurements for converters in the X-326, X-330, and X-333 Process Buildings (uranium isotopes) and from process knowledge (technetium-99). The total activity in picocuries (pCi) is divided by the total waste mass to give an activity concentration (see Attachment K.1). For technetium-99 and uranium isotopes, a waste mass equivalent to a volume of approximately 112,000 cy of waste is assumed for disposal in a potential OSDC, which is the estimated volume of process gas equipment (PGE) (RC-1, engineering category [EC]-2) which contains the majority of the radiological contamination. The total curies from the NDA data is assumed to be dispersed throughout this volume, which is conservative since the PGE with the highest curie count would be disposed off Site. It should be noted that residual soil (RC-1, EC-1), and other non-D&D waste (RC-2, RC-4), as well as contaminated fill (RC-2, RC-3), may be disposed (see Section 4 for waste estimates) under Alternative 2. Technetium-99 and uranium isotope content is currently unknown in this additional waste volume, therefore no assumption is made regarding the level of radiological contamination in the balance of the waste volume (3.79 million cy) going to a potential OSDC.

However, this uncertainty is offset by the fact that the total curies within the PGE is assumed for the small volume, as discussed above. Table K.1 presents the calculation and results for technetium-99 and uranium isotopes waste source terms.

Table K.1. Calculation of Average Waste Concentrations in a Potential OSDC

Isotope	Total Activity (pCi)	Source
U-234	1.44×10^{13}	Source term from Attachment K.1, Page K.1-1
U-235	5.33×10^{11}	Source term from Attachment K.1, Page K.1-1
U-238	3.05×10^{12}	Source term from Attachment K.1, Page K.1-1
Tc-99	9.46×10^{13}	Source term from Attachment K.1, Page K.1-1
		Waste mass[1] 3.35×10^{11} g

Equation: Activity concentration = total activity (pCi)/waste mass (g)

pCi/g of Waste			
U-234	**U-235**	**U-238**	**Tc-99**
42.99	1.59	9.10	282.4

[1] Only the mass of the waste is assumed for this calculation

For TCE, the average concentration from the five groundwater plumes known to be present at PORTS was used to calculate the concentration in soil based on the partition coefficient (K_d) relationship. The calculated average soil concentration for TCE is 1.38 mg/kg. Table K.2 presents the calculation of the TCE soil source term. This information is from previous investigations and represents a cross section of known TCE groundwater contamination present at PORTS. Using the TCE soil concentration, the resultant OSDC waste concentration for TCE was calculated by multiplying the TCE soil concentration by the ratio of the contaminated fill (RC-2, RC-3) volume (1.49 million cy for impacted soil beneath landfills) anticipated to have TCE present and the total OSDC volume (approximately 3.9 million cy). Thus, the average OSDC waste concentration for TCE is 0.53 mg/kg.

Table K.2. Calculation of Average Waste Concentration of TCE in a Potential OSDC

Area	C_w (µg/L)	K_d (mL/g)	C_s (mg/kg)
Calculated Values C_s (mg/kg) = C_w (µg/L) × K_d (mL/g)/1000 µg/mg			
X-749/X-120/PK Landfill Plume	150	0.124	0.0186
Quadrant I GW Investigation Area Plume	250	0.124	0.031
Quadrant II GW Investigation Area Plume	2,500	0.124	0.31
X-740 Waste Oil Handling Facility Plume	150	0.124	0.0186
Measured Value			
X-701B GW Plume (post-treatment)			6.5
Average concentration in fill			1.38

Source: DOE 2011a

K_d was calculated on the basis of the organic carbon partition coefficient (K_{oc}) and fraction of organic carbon (F_{oc}) relationship where a literature value for K_{oc} of 60.7 mL/g and the site-specific F_{oc} (DOE 2009) of 0.00204 were used.

C_W = concentration in water
C_S = concentration in soil
DOE = U.S. Department of Energy
GW = groundwater
PK = Peter Kiewit

3) Maximum leachate water flux rate

The maximum water flux rate from a potential OSDC was calculated on the basis of a worst-case infiltration rate through the cover system. The Hydrologic Evaluation of Landfill Performance (HELP) model was used to predict the infiltration rate through the degraded cover system (geosynthetic clay liner layer is no longer functional). The calculated infiltration rate is 1.5 in./year that is consistent with a reasonable maximum infiltration rate associated with the precipitation, topography and likely future hydraulic parameters of a cap.

The maximum water flux out of the leachate system was then estimated on the basis of maximum waste areal footprint and an infiltration rate of 0.0193 cf/s as shown in Table K.3. It is assumed that all water moving through the waste would flow out of the PLTS and ultimately to the nearby drainage ditch.

4) Surface water flow rate and surface water dilution factor

The surface water flow rate was determined by using the U.S. Geological Survey study conducted between 1990 and 1991 at Little Beaver Creek. The collected 15-minute interval data were used to determine the yearly flow rate change. The highest flow rate is 735 cf/s, and the lowest one is 0.65 cf/s. The current average flow rate is 6.07 cf/s for the data set (a total of 21,781 measurements). Much of this flow is related to discharges from the plant through National Pollutant Discharge Elimination System permitted discharge locations. However, after capping, these discharges are expected to be eliminated, thus reducing the flow conditions by approximately 1.38 cf/s. Therefore, for future flow conditions, the total estimated flow rate for all discharges into Little Beaver Creek is subtracted from the current flow rate to approximate a future condition creek flow rate of 4.69 cf/s. Table K.3 presents the input parameters and the calculation of the future condition flow rate. The average future surface water flow rate was used to estimate the surface water dilution factor. The surface water dilution factor is the ratio of water flux between the creek at the assessment point (4.69 cf/s) and the maximum water flux from the PLTS (0.0193 cf/s). The future condition surface water dilution factor (243.01) is shown in Table K.3.

Table K.3. Input and Calculation of Future Condition Flow Rate

Element	Unit	Value	Data Source
Width (W)	ft	1,600	Conceptual Design, see Section 8
Length (L)	ft	3,050	Conceptual Design, see Section 8
Infiltration Rate through Cover (IR)	in./year	1.5	HELP Model
Leachate Generated (L×W×IR)/12 in./ft	cf/year	610,000	Estimated using HELP Model
	cf/s	0.0193	Calculated
Current Flow Rate @ Little Beaver Creek	cf/s	6.07	Based on USGS report
Outfall Discharge (total)[1]	cf/s	1.38	Calculated
Future Condition Flow Rate @ Little Beaver Creek	cf/s	4.69	Calculated by removing outfall discharge
Future Condition Surface Water Dilution Factor		243.01	Calculated without outfall discharges

[1] Using average flow rates from 2009 Q1-Q3 data.

HELP = Hydrologic Evaluation of Landfill Performance
USGS = U.S. Geological Survey

5) Maximum leachate concentration

The maximum leachate concentrations were calculated on the basis of equilibrium relationship (K_d) using the average activity concentrations or concentration from Step 2. The K_d values for technetium-99 and uranium isotopes were obtained from site-specific measurements. A lower value of 14.2 mL/g is used for the uranium isotopes, and a value of 3.79 mL/g is used for technetium-99. The K_d for TCE was calculated on the basis of the organic carbon partition coefficient (K_{oc}) and fraction of organic carbon (F_{oc}) relationship where the site-specific F_{oc} data were used. A literature value for K_{oc} (U.S. Department of Energy [DOE]-Risk Assessment Information System) was used. The K_d for TCE is calculated to be 0.124 mL/g. Table K.4 presents the maximum leachate concentrations for the SRCs arrived by dividing the average concentration in OSDC waste by the K_d value.

6) Concentration in surface water

The concentrations of contaminants in the surface water were then calculated using the dilution factor. The maximum leachate concentrations of SRCs from Step 5 are divided by the surface water dilution factor calculated in Step 4. Table K.4 presents the surface water concentrations for the SRCs.

Table K.4. Maximum Leachate and Surface Water Concentrations

	Tc-99	**U-234**	**U-235**	**U-238**	**TCE**
Average Concentration in OSDC Waste/Fill	8.11 pCi/g	1.23 pCi/g	0.046 pCi/g	0.26 pCi/g	0.53 mg/kg
K_d (mL/g)	3.79	14.2	14.2	14.2	0.124
Maximum Leachate Concentration	2,140 pCi/L	86.6 pCi/L	3.2 pCi/L	18.3 pCi/L	4.3 mg/L
Surface Water Concentration	8.81 pCi/L	0.36 pCi/L	0.013 pCi/L	0.075 pCi/L	17.7 µg/L
Risk-based Standard[1]	3,030pCi/L	118 pCi/L	120 pCi/L	130 pCi/L	410 µg/L

[1] Source for Tc-99, U-234, U-235, and U-238 - PORTS SL Calculator; for TCE - DOE 2011b, Type 2 SL

OSDC = on-Site disposal cell
SL = screening level
TCE = trichloroethene

K.1.3 RESULTS

According to this analysis, the concentrations of the SRCs modeled to be discharged from the inoperable PLTS at the assessment point in Little Beaver Creek are extremely low. The modeled concentrations are compared to risk-based surface water concentrations assuming a recreational receptor (teen) for a risk of 10^{-6} as follows:

- Uranium-234 – 118 pCi/L
- Uranium-235 – 120 pCi/L
- Uranium-238 – 130 pCi/L
- Technetium-99 – 3,030 pCi/L
- TCE – 410 mg/L.

These risk-based surface water concentrations are from the PORTS Screening Level Calculator (for radionuclides) (DOE 2012) or from Table 2 in *Methods for Conducting Human Health Risk Assessments and Risk Evaluations at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2011b).

The modeled SRC surface water concentrations are well below their respective risk-based surface water concentrations. Note that this analysis does not take into account expected volatilization of TCE, which would result in an even lower concentration than that modeled in this analysis.

Based on the results of this analysis, potential failure of the PLTS with discharge of untreated leachate into surface water would not result in unacceptable impacts to human health.

K.1.4 UNCERTAINTIES

The analysis performed for a scenario in which the PLTS fails resulting in the release of untreated leachate from a potential OSDC at Site D to nearby surface water has uncertainties. First, the analysis is limited to uranium isotopes, technetium-99, and TCE. As previously stated, these represent constituents most likely to be present in leachate, due to their relatively low K_d values. While other constituents may be present, such constituents have higher K_d values than those associated with the constituents included in this analysis and are expected to have even less impact on surface water quality. Therefore this uncertainty does not have a large impact to the conclusions.

A larger source of uncertainty in this analysis is associated with the source terms for the uranium isotopes and technetium-99. As noted in Attachment K.1, the total activities of the uranium isotopes are calculated using NDA measurements. Measurements made by NDA can have significant uncertainty and the PORTS historical results can be biased high by a factor of 2 or more. However, as noted in the results presented, using the NDA measurements results in surface water concentrations that are well below the risk-based concentrations for protection of human health. Therefore, this uncertainty does not have a large impact to the results. Further, the total activity of technetium-99 is calculated assuming the mass of remaining source based on process knowledge. While the process knowledge regarding technetium-99 remaining in the PGE is reasonable, the activity could be underestimated. Process knowledge has been supported by a calculation of total mass of technetium-99 in the process equipment using the existing analytical data. This data is not yet considered representative of the process equipment and therefore was not used in this analysis, however, an estimation of total mass in the process equipment using this data is 5.5 kg. Other sources of information suggest the mass of technetium-99 could be as high as 35 kg. It should be noted that the source term calculations for uranium-234, uranium-235, uranium-238 and technetium-99 in a potential OSDC do not take into account the volume of uncontaminated soil fill (EC-1) that may be co-disposed with waste requiring fill (EC-2). Further, the additional waste mass associated with other waste that may be generated outside *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O) and the Ohio Consent Decree (RC-4), as well as other soil waste generated under the Ohio Consent Decree (RC-2), is not considered in determining the waste source terms for uranium isotopes, technetium-99, and TCE. This additional mass would dilute the activity concentrations of these radionuclides, thus reducing the actual activity concentrations in the leachate. Finally, it is assumed that the PGE has 50 percent void space, thus the density is reduced by 50 percent. This assumption increases the activity concentration slightly as a result. Further reducing the waste density, if warranted, would increase the activity concentrations and thus increase the resultant concentrations in the surface water. However, because the surface water concentrations are well below the risk-based concentrations, this uncertainty has little impact to the results. These data uncertainties notwithstanding, this approach provides a reasonable estimate of the source terms for leachate concentrations and resultant surface water concentrations, which are well below the risk-based concentrations.

The K_d values used for the constituents are a source of uncertainty in this analysis. While the values used for the uranium isotopes and technetium-99 are from laboratory analysis performed using various soil types from PORTS, they could be underestimated for actual waste materials. Therefore, the activity concentrations leached may be overestimated, resulting in concentrations in the stream to be estimated higher than they are. Conversely, a change to the chemistry within a potential OSDC during its lifecycle may lead to an increase in the K_d values assumed in this analysis over time. This uncertainty may result in a decrease in the potential release of contaminants from the waste mass and therefore a decrease in concentration/activity of contaminants in the leachate. However, these uncertainties have little impact to the results.

As noted in Table K.3, a prediction of the likely future flow condition in Little Beaver Creek is made after current discharges from the plant cease. While the prediction is based on actual measurements of the plant discharges and base flow of Little Beaver Creek, should the actual flow rate be lower than that predicted, the result would be higher stream concentrations of all constituents included in this analysis. Likewise, if the actual flow is higher, the resultant concentration would be lower. Because the resultant concentrations are orders of magnitude less than the risk-based concentrations, this uncertainty does not have a large impact to the results.

The source term for TCE has a large uncertainty, as the basis for the estimate is from concentrations of known groundwater plumes with the waste concentration back-calculated on the basis of the K_d for TCE. This calculation could underestimate the concentration of TCE in the waste placed in a potential OSDC. If the concentration calculated for this analysis is low by orders of magnitude (from that actually present), the resultant surface water concentration would still not exceed the risk-based concentration. Additionally, as previously stated, the analysis does not consider source depletion. TCE has a half-life through microbial degradation that ranges from approximately 9 years to 28 years, therefore concentrations expected in the waste would be lower, by as much as 50 - 75 percent lower, offsetting any underestimation. Further, as previously discussed, a change in the chemistry within a potential OSDC could lead to an increase to the K_d values for TCE and degradation products. This would result in a decrease in the potential mass released and thus a decrease in the concentrations of TCE and degradation products in the leachate. The uncertainty of the TCE source term is high but because there are both underestimating and overestimating uncertainties, the likely impact to the results of this analysis is low.

Given the uncertainties discussed above, the analysis of a potential failure of the PLTS is reasonable. To avoid this failure, significant effort during the engineering design of this system would be applied in selecting treatment media and in designing the long-term conveyance of the anticipated low volumes of leachate that would emanate from the closed OSDC. Further, to lessen the impact of a failure of the PLTS, periodic monitoring of the system, as part of the overall environmental monitoring program, would occur such that issues would be identified early and corrected as necessary.

K.2 TRANSPORTATION RISK ANALYSIS

K.2.1 INTRODUCTION

There is an inherent risk of accidents in transporting materials by various modes of transport via trucks along public roads and by commercial rail. The U.S. Department of Transportation (DOT) keeps track of accident rate statistics for vehicle traffic. Additionally, numerous studies have compiled statistics related to rail transport. These statistical data are reported in the form of an injury rate per vehicle miles traveled and fatality rate per vehicle miles traveled for both large truck and rail transportation. This analysis supports the short-term effectiveness evaluation performed in the feasibility study (FS). Total miles for transport of waste from the D&D of PORTS for Alternatives 2 and 3 and for construction materials for facilities and infrastructure for Alternative 2 are estimated and then multiplied by the accident rates to arrive at the numbers of injuries and fatalities that may occur based on these miles. Only those miles associated with transportation off Site that interacts with the public are included in this analysis.

Calculation of transportation risk for the action alternatives requires analyzing shipments of waste, fill material, and construction materials, as well as considering mode of transportation (in other words, truck vs. rail), and miles to and from the destination. The following sections describe and quantify each element of the transportation risk for Alternative 2 and Alternative 3.

K.2.2 WASTE MATERIAL VOLUMES

Table K.5 presents all the waste forms (RC-1) and volumes assumed for each alternative. This table is built off of the table first introduced in Section 4.1, but it is expanded to include the disposition paths for each alternative as well as transported volumes that will be used in this analysis. The alternatives included in the FS, Alternative 2 (on-Site) and Alternative 3 (off-Site) disposal, consist of five major waste disposition assumptions/approaches driven primarily by the expected PORTS waste forms and volumes discussed and illustrated in Section 4.1. Each of these alternatives considers the DFF&O D&D waste volume (RC-1) using the following assumptions:

1) The PGE, assumed to be nearly all low-level (radioactive) waste (LLW), would be shipped off Site to the DOE Nevada National Security Site (NNSS) in Nevada near Mercury, Nevada or to a potential OSDC. Under Alternative 2 it is assumed that 53,000 in-place cy of PGE, primarily from the X-326 Building, would be shipped to NNSS with the remainder going to a potential OSDC. Under Alternative 3, 272,000 in-place cy of PGE would be shipped to NNSS.

2) Metal with a high probability for recycle and/or reuse would be stored on Site to wait processing. The volume estimate of 110,000 cy is the same for each alternative. This material is not included in the transportation risk calculations.

3) Although waste acceptance criteria (WAC) for the potential OSDC have not been fully developed, a waste disposition planning assumption is that approximately 30,000 cy of waste would exceed the OSDC WAC and thus would require off-Site disposal at a commercial disposal facility (Energy*Solutions* in Clive, Utah) for Alternative 2.

4) Solid waste and construction and demolition debris are assumed to be disposed locally at Pike Sanitation Landfill located in Pike County, Ohio. For Alternative 2 it is assumed that 38,800 cy of waste would be disposed at this industrial landfill while for Alternative 3, 240,000 cy are assumed to be disposed.

5) The balance of LLW and mixed LLW generated by DFF&O actions (RC-1) at PORTS would be shipped to a potential OSDC under the on-Site alternative or the Energy*Solutions* disposal facility in Clive, Utah, under the off-Site alternative. The volume to a potential OSDC in Alternative 2 is assumed to be 1,354,000 cy, while that disposed at Energy*Solutions* in Alternative 3 is assumed to be 845,000 cy.

Table K.5. Site-wide Waste Disposition Volumes

D&D Waste and OSDC Fill Description	In situ volume	Disposed Volume in OSDC in Alternative 2	Transported Off Site in Alternative 2[1]	Disposed Off Site in Alternative 2	Volume Transported Off Site in Alternative 3[1]	Disposed Off Site in Alternative 3
Residual Soil Removed with Buildings (RC-1, EC-1)	53,000 cy	53,000 cy	0	0	64,000 cy	53,000 cy
Other Building Waste (RC-1, EC-2)	1,032,000 cy	967,000 cy	82,000 cy (in situ 65,000 cy)	65,000 cy	1,214,000 cy	1,032,000 cy
PGE	272,000 cy	112,000 cy[2] (in situ 219,000 cy)	44,000 cy[2] (in situ 53,000 cy)	41,000 cy[2] (in situ 53,000 cy)	99,000 cy[2] (in situ 272,000 cy)	99,000 cy[2] (in situ 272,000 cy)
Targeted Recyclable Material	110,000 cy	0	Location unknown so not included in transportation calculations	110,000 cy recycled	Location unknown so not included in transportation calculations	110,000 cy recycled
Total D&D Waste and Recyclables (RC-1)	**1,467,000 cy**	**1,132,000 cy** **(in situ 1,239,000 cy)**	**NA**	**216,000 cy** **(in situ 228,000 cy)**	**NA**	**1,294,000 cy** **(in situ 1,467,000 cy)**
Non-D&D Landfill Waste Requiring Fill (RC-3, EC-2) (as a result of using area as OSDC fill source)	227,000 cy	223,000 cy	5,000 cy (in situ 4,000 cy)	4,000 cy	0	0
Total D&D and Fill Waste Requiring Fill (EC-2)	**NA**	**1,301,000 cy** (in situ 1,462,000 cy) (does not include 53,000 cy of residual soil)[3]	**NA**	**220,000 cy** **(in situ 232,000 cy)**	**NA**	**1,294,000 cy** **(in situ 1,467,000 cy)**
OSDC Fill Required to Achieve 2:1 ratio[4]	NA	2,602,000 cy	NA	NA	NA	NA
Total OSDC Minimum Capacity Required	NA	3,900,000 cy	NA	NA	NA	NA

[1] Transported volumes are typically greater for a waste stream than in situ volumes due to bulking that occurs during excavation or demolition. The material is typically compacted again once disposed.

[2] Much of the PGE is segmented, resulting in a volume reduction for transportation and disposal. Greater volume reduction is conducted for off-Site disposal to lower costs.

[3] Rounding does not allow for numbers to add exactly.

[4] From residual soil (RC-1, EC-1), groundwater plumes (RC-2, EC-1), landfills (RC-3, EC-1), and RCRA deferred units (RC-2, EC-1).

D&D = decontamination and decommissioning
EC = engineering category
NA = not applicable or not available
OSDC = on-Site disposal cell
PGE = process gas equipment
RC = regulatory category
RCRA = Resource Conservation and Recovery Act of 1976 (as amended)

Most waste would be shipped by truck to the potential OSDC under Alternative 2 or in bulk, by rail, to Energy*Solutions* under Alternative 3. Rail transportation of large quantities of waste is generally much less expensive and more efficient, avoiding many millions of potential truck miles from PORTS to Energy*Solutions*. However, mileage calculations and subsequent discussions of risk assume some truck transport to NNSS (which cannot receive waste by rail).

All the named "representative" facilities have sufficient disposal capacity to receive the projected waste volumes. Table K.6 summarizes the in-place volume and disposal location assumptions for Alternative 2 and Alternative 3.

Table K.6. Alternatives 2 and 3 Disposition Plans

	In-Place Waste Disposal Volumes by Destination (million cy)					
Alternative	**NNSS, Nevada**	**Pike Sanitation Landfill**	**Recycle/Reuse**	**Energy*Solutions*, Clive, Utah**	**OSDC**	**Totals**
2	0.053	0.039	0.11	0.030	1.35	1.59
3	0.27	0.24	0.11	0.845	NA	1.47

NA = not applicable
NNSS = Nevada National Security Site
OSDC = on-Site disposal cell

K.2.3 TRANSPORTATION MILES

The total truck or rail miles are then calculated assuming a certain volume shipped per truck or train. The miles for the various activities (disposal or obtaining materials) are summarized below. The in-place volumes that have been assumed in the FS for disposal have been modified to transported volumes. The factors used to modify in-place volumes to transported volumes vary by waste stream, based on mode of transport, shipment containers required for transport, and any limitations associated with the transport mode.

K.2.3.1 Transportation of PORTS Waste to Energy*Solutions*, Clive, Utah, by Rail

Table K.7 summarizes the total railcar miles to deliver waste from PORTS to the Energy*Solutions* facility, located approximately 80 miles west of Salt Lake City, Utah, by rail under Alternative 2 and Alternative 3. Under Alternative 2, 36,700 transported cy of waste are assumed to be greater than the expected OSDC WAC and thus require disposal at the Energy*Solutions* facility. Under Alternative 3, 966,600 transported cy of waste requires shipment and disposal at the Energy*Solutions* facility.

A key assumption is that an average of 70 cy of expanded volume of waste (including packaging space) would be transported by railcar. Likewise, 55 railcars are assumed to be transported as one train. The Energy*Solutions* facility is estimated to be 1,820 rail miles from PORTS. Because it is assumed that the railcars are to be dedicated to PORTS throughout the shipment campaigns, the railcar miles are doubled to account for the return trip (i.e., 3,640 miles). The metric used in this analysis for rail shipments is railcar miles, since the accident statistics are maintained in this manner.

Table K.7. Rail Shipments from PORTS to Energy*Solutions*, Clive, Utah

Alternative	Transported Volume (cy)[1]	Number of Railcars	Number of Railcar Miles (miles)[2]
2	36,700	515	1,875,000
3	966,600	13,715	49,923,000

[1]Transported volume is in-place volume expanded by varying amounts depending on the material and type of package
[2]Assumes 3,640 miles round trip

K.2.3.2 Transportation of Waste to Pike Sanitation Landfill (Alternatives 2 and 3)

Table K.8 summarizes the total waste volumes and truck miles to dispose of PORTS-generated waste at the Pike Sanitation Landfill in Pike County, Ohio, for Alternatives 2 and 3. This landfill only accepts industrial/solid waste and does not accept waste that must be managed for its radioactive or hazardous waste content. Under Alternative 2, 50,400 cy would be shipped and disposed, while under Alternative 3 312,000 cy would be shipped and disposed. Trucks are assumed to make a round trip of 15 miles.

Table K.8. Waste Volumes and Truck Miles to Pike Sanitation Landfill

Alternative	Transported Volume (cy)[1]	Number of Truck Trips[2]	Number of Truck Miles (miles)[3]
2	50,300	2,518	38,000
3	312,000	15,579	234,000

[1]Transported volume is in-place volume expanded by 30 percent
[2]Assumes 20 cy per truck
[3]Assumes 15 miles per round trip for each truck shipment

K.2.3.3 Transportation of PORTS Waste to the NNSS

Table K.9 summarizes the total truck miles to deliver PORTS waste to the NNSS disposal facility located approximately 90 miles northwest of Las Vegas, Nevada. Under Alternative 2, 44,000 cy of PGE waste is assumed to be shipped and disposed at NNSS via truck.

Under Alternative 3, 99,000 cy of PGE waste is assumed to be shipped to NNSS via truck. This volume assumes significant volume reduction from segmenting all PGE in the three process buildings (X-326, X-330, and X-333) at PORTS. Trucks traveling west are assumed to make a round trip of 4,400 miles.

Table K.9. Waste Volumes and Truck Miles for PORTS Waste Shipped to NNSS

Alternative	Transported Volume (cy)[1]	Number of Truck Trips	Number of Truck Miles (miles)[2]
2	44,000	4,969	21,863,600
3	99,000	9,727	42,798,800

[1]Transported volume is volume after segmentation
[2]Assumes 4,400 miles per round trip from PORTS to DOE NNSS disposal area

DOE = U.S. Department of Energy
PORTS = Portsmouth Gaseous Diffusion Plant
NNSS = Nevada National Security Site

K.2.3.4 Construction Materials for OSDC (Alternative 2)

Under Alternative 2, a variety of construction materials would be sent to PORTS from various vendors and/or sources. Table K.10 summarizes the total truck miles necessary to provide OSDC construction materials such as clay, liners, piping, fencing, etc., for a disposal facility with a 3.56 million cy capacity and associated infrastructure. The specific assumptions for the delivery of each material are presented in the footnotes below the table.

Table K.10. Waste Volumes and Truck Miles for Construction Materials (Alternative 2)

Gravel/Rock [1]		Leachate Piping[2]		Liners[3]		Fencing[4]		Total Miles
(cy)	(mi)	(lf)	(mi)	(yd^2)	(mi)	(lf)	(mi)	(mi)
1,257,000	1,047,000	46,000	5,700	3,354,000	2,236,000	30,000	2,000	3,291,000

[1] Assumes 12 cy per truck, 10 miles round trip
[2] Assumes 20-ft sections of pipe, 40 pieces per shipment, 100 miles round trip
[3] Assumes liner material is 9 ft wide rolled in 25 yd sections, 4 75 sq yd rolls per truck, 200 miles round trip
[4] Assumes 8-ft-wide fence rolled into 100-ft sections, 8 bundles per truck, 50 miles round trip

For construction of a potential OSDC at Site D a significant volume of soil and bedrock would be excavated. This site preparation scope would not contribute to transportation risk because the trucks and equipment operate solely on Site. These materials would be staged within the OSDC work area for later use as fill.

K.2.3.5 Transportation Miles Summary

Table K.11 summarizes the truck and rail miles for primary transport segments associated with Alternatives 2 and 3.

Table K.11. Summary of Truck and Rail Miles for Each Primary Segment of Alternatives 2 and 3

Alternative	Construction Materials for Potential OSDC (miles)	Railcars to Clive, UT (miles)	Truck to Pike Sanitation Landfill (miles)	Truck to NNSS (miles)
2	3,291,000	1,875,000	38,000	21,864,000
3	NA	49,923,000	234,000	42,799,000

NA = not applicable
NNSS = Nevada National Security Site
OSDC = on-Site disposal cell

Table K.12 summarizes the total truck and rail miles for Alternatives 2 and 3. Alternative 3 has more truck miles because of the larger volume of PGE waste being shipped to NNSS. Similarly, the railcar mile totals under Alternative 3 are much greater than for Alternative 2 because of the large quantities of waste required to be shipped by rail to the representative commercial disposal facility in Clive, Utah.

Table K.12. Total Truck and Railcar Miles by Alternative

Alternative	Total Truck Miles	Total Railcar Miles
2	25,192,000	1,825,000
3	43,032,000	49,923,000

K.2.4 CALCULATION OF INJURIES AND FATALITIES ASSOCIATED WITH TRANSPORTATION OF MATERIALS AND WASTE

To calculate total risk (injury and fatality) from transporting materials and waste during implementation of the alternatives, the total miles traveled by a given mode of transportation is multiplied by the associated rate using the following equation:

Truck Miles Traveled or Railcar Miles × Risk Rate = Total Injuries/Fatalities

Table K.13 presents the injury and facility risk rates per mile traveled by trucks or railcars.

Table K.13. Transportation Risk Rates

Transportation Method	Western Route Injury Rate[1]	Western Route Fatality Rate[2]	Ohio Injury Rate[1]	Ohio Fatality Rate[2]
Large Truck[3]	3.71×10^{-7}	2.14×10^{-8}	1.72×10^{-7}	6.28×10^{-9}
Railcar[4]	5.60×10^{-8}	3.03×10^{-8}		

[1] Injuries per truck mile or injuries per railcar mile
[2] Fatalities per truck mile or fatalities per railcar mile
[3] Tables 6.38 and 6.39 in DOE 2002
[4] Tables 6.40 in DOE 2002

DOE = U.S. Department of Energy

A western truck route from Piketon, Ohio to NNSS near Mercury, Nevada is assumed to traverse the following states: Ohio, Indiana, Illinois, Missouri, Kansas, Colorado, Utah, and Nevada. Therefore, the injury and fatality rates for trucks for these states were used to calculate average rates for this truck route. Similarly, a western rail route from Piketon to Energy*Solutions* near Clive, Utah is assumed to traverse the following states: Ohio, Indiana, Illinois, Missouri, Kansas, Colorado, and Utah. Therefore, the injury and fatality rates for railcars for these states were used to calculate average rates for this rail route. Finally, for transportation assumed to occur solely within the state of Ohio, only the injury and fatality rates for Ohio were used in the calculations.

Risks were calculated by using the total truck miles and railcar miles from Table K.12. Table K.14 presents the total injuries and fatalities expected, based on total transportation miles and using the injury and fatality rates from Table K.13.

Table K.14. Transportation Risk Summary for Alternatives 2 and 3

Destination	Alternative 2	Alternative 3
Waste to Energy*Solutions*, Clive, UT: Rail	0.1	2.8
Waste to NNSS, Mercury, NV: Truck	8.1	15.9
Waste to Pike Sanitation Landfill, Piketon, OH: Truck	0.006	0.04
Construction Materials to OSDC: Truck	0.6	NA
Total Injuries	**8.8**	**18.7**
Waste to Energy*Solutions*, Clive, UT: Rail	0.06	1.5
Waste to NNSS, Mercury, NV: Truck	0.5	0.9
Waste to Pike Sanitation Landfill, Piketon, OH: Truck	0.0002	0.001
Construction Materials to OSDC: Truck	0.02	NA
Total Fatalities	**0.6**	**2.4**

NNSS = Nevada National Security Site
OSDC = on-Site disposal cell

As indicated by the total number of injuries and fatalities summed across the individual transportation segments, shipping waste off Site under Alternative 3 results in more injuries and fatalities than the on-Site waste disposal alternative (Alternative 2). Alternative 3 transportation of waste results in nearly 2 times more truck miles and 27 times more railcar miles than Alternative 2. Thus, the total expected injuries for Alternative 3 are 18.7 while the expected fatalities are 2.4 versus 8.8 and 0.6, respectively, for Alternative 2.

K.2.5 IMPACTS OF OFF-SITE DISPOSAL OF INCREASING WASTE VOLUMES

Increasing waste volumes to include material associated with Ohio Consent Decree (RC-2) actions or other waste generated would result in an increase in waste volume requiring off-Site disposal under Alternative 3, therefore increasing transportation risk. If the waste volumes increase by an in-place volume of 710,000 cy, the transported volume would have an increase of approximately 802,000 cy. Assuming this material is sent via rail for treatment and disposal at Energy*Solutions*, rail transportation risks would increase. Using the calculation method described above, total railcar miles under Alternative 3 would increase to 97,836,000. The resultant rail transportation risks would increase in rail injuries to 5.5 (versus 2.8) and increase in rail fatalities to 2.96 (versus 1.51) for net total injuries of 21.4 and net total fatalities of 3.9 for off-Site disposal.

K.3 GREENHOUSE GAS IMPACTS FROM TRANSPORTATION OF WASTE FROM PORTS

One of the major components of greenhouse gases (GHGs) comes from the combustion of fossil fuels. Carbon dioxide (CO_2) emissions account for 94 to 95 percent of the GHGs emitted by the transportation sector. The U.S. Environmental Protection Agency (EPA) uses CO_2 emission estimates as a representative indicator of all GHG emissions. GHG emissions are a function of energy consumed. According to EPA, 22.2 lb of CO_2 are generated for every gallon of diesel fuel burned (EPA 2005). The equation for determining GHG emissions is as follows:

$$EM = FC \times EF$$

where:

EM = Emissions of carbon dioxide (expressed as tons of carbon dioxide equivalents)
FC = Fuel (energy) consumed during transportation (gallons of diesel fuel)
EF = Emission conversion factor for diesel fuel

The total truck miles associated with Alternative 2 and Alternative 3, include both transportation of construction materials and waste from Table K.11. Additionally, the total miles for on-Site movement of waste from trucks shipping waste to a potential OSDC under Alternative 2 and from on-Site movement of waste to an on-Site rail siding for rail shipments under Alternatives 2 and 3 was included. Tables K.15 and K.16 summarize the miles calculated for the added on-Site waste shipments. Table K.17 presents the truck miles associated with bringing fill to a potential OSDC during operation.

Table K.15. Alternative 2 On-Site Waste Volumes and Related Truck Miles

In-Place Volume (cy)	Transported Volume (cy)[1]	Number of Truck Trips[2]	Number of Truck Miles (miles)[3]
1,354,000	1,563,400	93,400	374,000

[1] Transported volume is in-place volume expanded by 15 percent
[2] Assumes 16.74 cy per truck
[3] Assumes an average of 4 miles per round trip for each truck shipment

Table K.16. Intra-Site Truck Shipments of Waste to the PORTS Rail Siding

Alternative	Transported Volume (cy)[1]	Number of Truck Trips[2]	Number of Truck Miles (miles)[3]
2	36,700	1,668	6,700
3	966,600	96,660	387,000

[1] Transported volume is in-place volume expanded by various amounts depending on material and packaging
[2] Assumes 22 cy per truck
[3] Assumes an average of 4 miles per round trip from point of generation to the PORTS rail siding

PORTS = Portsmouth Gaseous Diffusion Plant

Table K.17. Alternative 2 On-PORTS Fill Volumes and Related Truck Miles

In-Place Volume (cy)	Transported Volume (cy)[1]	Number of Truck Trips[2]	Number of Truck Miles (miles)[3]
2,549,000	3,059,000	182,700	731,000

[1] Transported volume is in-place volume expanded by 20 percent
[2] Assumes 22 cy per truck
[3] Assumes an average of 4 miles per round trip for each truck shipment

To assess CO_2 emissions, the railcar miles need to be translated into train miles. The railcar miles are divided by 55 railcars per train. The GHG emissions are calculated by first dividing total miles by an average miles per gallon value estimated for the given transportation mode, then summing to give a total diesel fuel consumption by alternative volume scenario. Table K.18 presents the total gallons of fuel expected to be used for truck transportation and rail transportation for each alternative.

Table K.18. Estimated Diesel Fuel Consumption by Transportation Mode

Alternative	Total Truck Miles	Truck Fuel Consumption[1] (gal)	Total Train[2] Miles	Train Fuel Consumption[3] (gal)	Total Diesel Fuel Consumption (gal)
2	26,303,000	4,871,000	33,000	6,500	4,877,500
3	43,419,000	8,040,600	906,000	180,000	8,220,400

[1] DOT 2008, Highway Statistics (1995-2008), Federal Highway Administration – 5.4 mpg
[2] Total railcar miles divided by the total number of railcars per train required for shipment of waste
[3] DOT 2009, Comparative Evaluation of Rail and Truck Fuel Efficiency on Competitive Corridors – 5.04 mpg

DOT = U.S. Department of Transportation

Next, the expected total GHG emissions associated with transportation aspects of the alternatives analyzed for the Site-wide waste disposition FS are calculated by dividing the total gallons of diesel fuel consumed by the CO_2 emission rate per gallon presented above. Table K.19 presents the CO_2 emissions for Alternatives 2 and 3.

Table K.19. CO_2 Emissions by Alternative

Alternative	Total Diesel Fuel Consumption (gal)	CO_2 Emissions (tons)
2	4,877,500	54,140
3	8,220,400	91,250

According to these results, Alternative 3 has a higher GHG impact as compared to Alternative 2. Specifically, Alternative 3 results in over 1.7 times more diesel fuel consumed and GHG emissions than Alternative 2.

K.4 REFERENCES

DOE 2012, Screening Level Calculator, Portsmouth Gaseous Diffusion Plant. U.S. Department of Energy, available at: http://www.pmcl.com/slcalculator/slcalculator.

DOE 2011a, *2010 Groundwater Monitoring Report for the Portsmouth Gaseous Diffusion Plant,* DOE/PPPO/03-0209&D1, U.S. Department of Energy, Piketon, OH, March.

DOE 2011b, *Methods for Conducting Human Health Risk Assessments and Risk Evaluations at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio*, DOE/PPPO/03-0127&D3, U.S. Department of Energy, October.

DOE 2009, Risk Assessment Information System (RAIS), U.S. Department of Energy, Oak Ridge Operations Office, available at http://rais.ornl.gov/.

DOE 2002, *A Resource Handbook on DOE Transportation Risk Assessment*, DOE/EM/NTP/HB-01, U.S. Department of Energy, National Transportation Program, July.

DOT 2009, *Comparative Evaluation of Rail and Truck Fuel Efficiency on Competitive Corridors*, Final Report, U.S. Department of Transportation, Federal Railroad Administration, Office of Policy and Communications, Washington, D.C., November.

DOT 2008, Highway Statistics (1995-2008), Annual Issues (Table VM-1), Federal Highway Administration, Washington, D.C., available at http://apps.bts.gov/cgi-bin/breadcrumbs/PrintVersion_redesign.cgi, accessed April 8, 2013.

EPA 2005, *Emission Facts: Average Carbon Dioxide Emissions Resulting from Gasoline and Diesel Fuel*, EPA420-F-05-001, U.S. Environmental Protection Agency, Office of Transportation and Air Quality, Washington, D.C, February.

ATTACHMENT K.1: CALCULATION OF URANIUM AND TECHNETIUM ACTIVITY IN PROCESS GAS SYSTEM BUILDINGS

Calculation of uranium and technetium activity in Process Gas Equipment (PGE).

Assumptions:

1. PGE contamination is in X-330, X-333, and X-326 converters.
2. All uranium is contained in PGE (conservative); actual percentage is likely between 85 and 95%.
3. In situ NDA measurements are conservative by a significant factor (perhaps as much as 100%).
4. X-333 converter in situ NDA is from neutron measurements and is very conservative. A correction factor (28) determined from neutron and gamma NDA measurements is used to adjust maximum U-235 measurements.

References:

NDA Data from "NDA - Spetnagel - Complete_cell_data_with_caretaker_051111" spreadsheet (X-333 Adjusted by factor of 28).
Barrier Weights from" Spetnagel - PORTS_PROCESS_MATERIAL_INVENTORY_040711" document.

Tc-99 Activity:
5.5 kg of Tc-99 equals 5,500 g x 1.72E+10 pCi/g = 9.46E+13 pCi.

Tc-99

specific activity = 1.72E+10 pCi/g

9.46E+13	**pCi**	
9.46E+12	**pCi**	**10% of total activity**

2,340 = # of X-326 Converters
1,100 = # of X-330 Converters
640 = # of X-333 Converters

	U-234	**U-235**	**U-238**
total activity (pCi)	**1.44E+13**	**5.33E+11**	**3.05E+12**
10% of total activity (pCi)	**1.44E+12**	**5.33E+10**	**3.05E+11**

Note:

In determining the number of grams or curies of natural uranium isotopes (U-234, U-235, and U-238), the quantities were derived from historical NDA measurements on the process equipment at PORTS. This involved using the documented U-235 to U-234 ratio, the documented cell uranium assay (U-235 percentage), and the maximum number of U-235 grams reported by NDA measurement. One adjustment was made to this data. Based on the ratio of NDA results in the X-330 converters between neutron and gamma NDA measurements, the neutron measurements for converters (only) in X-333 were adjusted to reflect this ratio, based on the determination that the converter gamma measurements in X-330 were more respresentative than the neutron measurements (see column labled "Max U235 Gms X-333 Adjusted"). Since gamma measurements were not performed in X-333, it was decided to use this adjustment factor. It should be noted that a similar bias likely exists for the X-333 compressors and coolers, but no relationship has been established to adjust the measurements for this equipment.

Convert 10% of total activity to grams = activity (pCi) ÷ specific activity (pCi/g)

	U-234	**U-235**	**U-238**	**Total g of uranium**
specific activity (pCi/g)=	**6.20E+09**	**2.10E+06**	**3.30E+05**	
g =	**232**	**25,381**	**924,242**	**949,855**

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-1	1	1	18-Mar-09	10.5	5.01E+08	2.21E+07	7.18E+06
X-326	25-1	1	2	18-Mar-09	7.5	3.58E+08	1.58E+07	5.13E+06
X-326	25-1	1	3	18-Mar-09	12	5.72E+08	2.52E+07	8.21E+06
X-326	25-1	1	4	18-Mar-09	4.5	2.15E+08	9.45E+06	3.08E+06
X-326	25-1	1	5	18-Mar-09	4.5	2.15E+08	9.45E+06	3.08E+06
X-326	25-1	1	6	18-Mar-09	4.5	2.15E+08	9.45E+06	3.08E+06
X-326	25-1	1	7	18-Mar-09	6	2.86E+08	1.26E+07	4.10E+06
X-326	25-1	1	8	18-Mar-09	4.5	2.15E+08	9.45E+06	3.08E+06
X-326	25-1	1	9	18-Mar-09	4.5	2.15E+08	9.45E+06	3.08E+06
X-326	25-1	1	10	18-Mar-09	3	1.43E+08	6.30E+06	2.05E+06
X-326	25-1	1	11	18-Mar-09	3	1.43E+08	6.30E+06	2.05E+06
X-326	25-1	1	12	18-Mar-09	6	2.86E+08	1.26E+07	4.10E+06
X-326	25-1	2	1	19-Feb-10	29	1.98E+09	6.09E+07	3.47E+07
X-326	25-1	2	2	19-Feb-10	9	6.13E+08	1.89E+07	1.08E+07
X-326	25-1	2	3	19-Feb-10	8	5.45E+08	1.68E+07	9.58E+06
X-326	25-1	2	4	19-Feb-10	8	5.45E+08	1.68E+07	9.58E+06
X-326	25-1	2	5	19-Feb-10	12	8.18E+08	2.52E+07	1.44E+07
X-326	25-1	2	6	19-Feb-10	9	6.13E+08	1.89E+07	1.08E+07
X-326	25-1	2	7	19-Feb-10	14	9.54E+08	2.94E+07	1.68E+07
X-326	25-1	2	8	19-Feb-10	14	9.54E+08	2.94E+07	1.68E+07
X-326	25-1	2	9	19-Feb-10	17	1.16E+09	3.57E+07	2.04E+07
X-326	25-1	2	10	19-Feb-10	27	1.84E+09	5.67E+07	3.23E+07
X-326	25-1	2	11	19-Feb-10	9	6.13E+08	1.89E+07	1.08E+07
X-326	25-1	2	12	19-Feb-10	9	6.13E+08	1.89E+07	1.08E+07
X-326	25-1	3	1	04-Oct-04	94.5	8.25E+09	1.98E+08	6.30E+07
X-326	25-1	3	2	04-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	3	3	04-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	3	4	04-Oct-04	219	1.91E+10	4.60E+08	1.46E+08
X-326	25-1	3	5	04-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	3	6	04-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	3	7	04-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	3	8	04-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	3	9	04-Oct-04	295.5	2.58E+10	6.21E+08	1.97E+08
X-326	25-1	3	10	04-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	3	11	04-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	3	12	04-Oct-04	109.5	9.56E+09	2.30E+08	7.30E+07
X-326	25-1	4	1	29-Jul-10	3	1.62E+08	6.30E+06	1.31E+06
X-326	25-1	4	2	29-Jul-10	5	2.70E+08	1.05E+07	2.19E+06
X-326	25-1	4	3	29-Jul-10	6	3.23E+08	1.26E+07	2.62E+06
X-326	25-1	4	4	29-Jul-10	3	1.62E+08	6.30E+06	1.31E+06
X-326	25-1	4	5	29-Jul-10	5	2.70E+08	1.05E+07	2.19E+06
X-326	25-1	4	6	29-Jul-10	6	3.23E+08	1.26E+07	2.62E+06
X-326	25-1	4	7	29-Jul-10	9	4.85E+08	1.89E+07	3.94E+06
X-326	25-1	4	8	29-Jul-10	6	3.23E+08	1.26E+07	2.62E+06
X-326	25-1	4	9	29-Jul-10	3	1.62E+08	6.30E+06	1.31E+06
X-326	25-1	4	10	29-Jul-10	5	2.70E+08	1.05E+07	2.19E+06
X-326	25-1	4	11	29-Jul-10	3	1.62E+08	6.30E+06	1.31E+06
X-326	25-1	4	12	29-Jul-10	5	2.70E+08	1.05E+07	2.19E+06
X-326	25-1	5	1	05-Oct-04	214.5	1.87E+10	4.50E+08	1.40E+08
X-326	25-1	5	2	05-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	5	3	05-Oct-04	37.5	3.27E+09	7.88E+07	2.44E+07
X-326	25-1	5	4	05-Oct-04	154.5	1.35E+10	3.24E+08	1.01E+08
X-326	25-1	5	5	05-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	5	6	05-Oct-04	273	2.38E+10	5.73E+08	1.78E+08
X-326	25-1	5	7	05-Oct-04	16.5	1.44E+09	3.47E+07	1.07E+07

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-1	5	8	05-Oct-04	94.5	8.25E+09	1.98E+08	6.15E+07
X-326	25-1	5	9	05-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	5	10	05-Oct-04	291	2.54E+10	6.11E+08	1.89E+08
X-326	25-1	5	11	05-Oct-04	139.5	1.22E+10	2.93E+08	9.08E+07
X-326	25-1	5	12	05-Oct-04	6	5.24E+08	1.26E+07	3.90E+06
X-326	25-1	6	1	15-Jan-10	8	3.91E+08	1.68E+07	3.66E+06
X-326	25-1	6	2	15-Jan-10	6	2.93E+08	1.26E+07	2.75E+06
X-326	25-1	6	3	15-Jan-10	8	3.91E+08	1.68E+07	3.66E+06
X-326	25-1	6	4	15-Jan-10	5	2.44E+08	1.05E+07	2.29E+06
X-326	25-1	6	5	15-Jan-10	3	1.46E+08	6.30E+06	1.37E+06
X-326	25-1	6	6	15-Jan-10	6	2.93E+08	1.26E+07	2.75E+06
X-326	25-1	6	7	15-Jan-10	5	2.44E+08	1.05E+07	2.29E+06
X-326	25-1	6	8	15-Jan-10	5	2.44E+08	1.05E+07	2.29E+06
X-326	25-1	6	9	15-Jan-10	6	2.93E+08	1.26E+07	2.75E+06
X-326	25-1	6	10	15-Jan-10	6	2.93E+08	1.26E+07	2.75E+06
X-326	25-1	6	11	15-Jan-10	8	3.91E+08	1.68E+07	3.66E+06
X-326	25-1	6	12	15-Jan-10	11	5.37E+08	2.31E+07	5.03E+06
X-326	25-1	7	1	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	2	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	3	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	4	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	5	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	6	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	7	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	8	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	9	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	10	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	11	21-Sep-09	3	1.35E+08	6.30E+06	1.90E+06
X-326	25-1	7	12	21-Sep-09	5	2.25E+08	1.05E+07	3.17E+06
X-326	25-1	8	1	24-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	8	2	24-Jan-05	27	1.32E+09	5.67E+07	1.26E+07
X-326	25-1	8	3	24-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	8	4	24-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	8	5	24-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	8	6	24-Jan-05	141	6.88E+09	2.96E+08	6.60E+07
X-326	25-1	8	7	24-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	8	8	24-Jan-05	145.5	7.10E+09	3.06E+08	6.81E+07
X-326	25-1	8	9	24-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	8	10	24-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	8	11	24-Jan-05	247.5	1.21E+10	5.20E+08	1.16E+08
X-326	25-1	8	12	24-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	9	1	07-Oct-04	157.5	1.16E+10	3.31E+08	2.11E+08
X-326	25-1	9	2	07-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	9	3	07-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	9	4	07-Oct-04	40.5	2.99E+09	8.51E+07	5.41E+07
X-326	25-1	9	5	07-Oct-04	283.5	2.09E+10	5.95E+08	3.79E+08
X-326	25-1	9	6	07-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	9	7	07-Oct-04	4.5	3.32E+08	9.45E+06	6.02E+06
X-326	25-1	9	8	07-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	9	9	07-Oct-04	321	2.37E+10	6.74E+08	4.29E+08
X-326	25-1	9	10	07-Oct-04	127.5	9.41E+09	2.68E+08	1.70E+08
X-326	25-1	9	11	07-Oct-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	9	12	07-Oct-04	241.5	1.78E+10	5.07E+08	3.23E+08
X-326	25-1	10	1	03-Dec-09	5	1.99E+08	1.05E+07	2.39E+06
X-326	25-1	10	2	03-Dec-09	9	3.58E+08	1.89E+07	4.31E+06

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-1	10	3	03-Dec-09	8	3.18E+08	1.68E+07	3.83E+06
X-326	25-1	10	4	03-Dec-09	3	1.19E+08	6.30E+06	1.44E+06
X-326	25-1	10	5	03-Dec-09	6	2.38E+08	1.26E+07	2.87E+06
X-326	25-1	10	6	03-Dec-09	8	3.18E+08	1.68E+07	3.83E+06
X-326	25-1	10	7	03-Dec-09	5	1.99E+08	1.05E+07	2.39E+06
X-326	25-1	10	8	03-Dec-09	6	2.38E+08	1.26E+07	2.87E+06
X-326	25-1	10	9	03-Dec-09	5	1.99E+08	1.05E+07	2.39E+06
X-326	25-1	10	10	03-Dec-09	8	3.18E+08	1.68E+07	3.83E+06
X-326	25-1	10	11	03-Dec-09	5	1.99E+08	1.05E+07	2.39E+06
X-326	25-1	10	12	03-Dec-09	6	2.38E+08	1.26E+07	2.87E+06
X-326	25-1	11	1	08-Oct-09	3	1.63E+08	6.30E+06	2.95E+06
X-326	25-1	11	2	08-Oct-09	3	1.63E+08	6.30E+06	2.95E+06
X-326	25-1	11	3	08-Oct-09	3	1.63E+08	6.30E+06	2.95E+06
X-326	25-1	11	4	08-Oct-09	3	1.63E+08	6.30E+06	2.95E+06
X-326	25-1	11	5	08-Oct-09	3	1.63E+08	6.30E+06	2.95E+06
X-326	25-1	11	6	08-Oct-09	5	2.72E+08	1.05E+07	4.92E+06
X-326	25-1	11	7	08-Oct-09	5	2.72E+08	1.05E+07	4.92E+06
X-326	25-1	11	8	08-Oct-09	6	3.26E+08	1.26E+07	5.91E+06
X-326	25-1	11	9	08-Oct-09	3	1.63E+08	6.30E+06	2.95E+06
X-326	25-1	11	10	08-Oct-09	3	1.63E+08	6.30E+06	2.95E+06
X-326	25-1	11	11	08-Oct-09	3	1.63E+08	6.30E+06	2.95E+06
X-326	25-1	11	12	08-Oct-09	5	2.72E+08	1.05E+07	4.92E+06
X-326	25-1	12	1	11-Jan-05	63	4.65E+09	1.32E+08	8.54E+07
X-326	25-1	12	2	11-Jan-05	69	5.09E+09	1.45E+08	9.35E+07
X-326	25-1	12	3	11-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	12	4	11-Jan-05	208.5	1.54E+10	4.38E+08	2.83E+08
X-326	25-1	12	5	11-Jan-05	117	8.64E+09	2.46E+08	1.59E+08
X-326	25-1	12	6	11-Jan-05	30	2.21E+09	6.30E+07	4.07E+07
X-326	25-1	12	7	11-Jan-05	295.5	2.18E+10	6.21E+08	4.01E+08
X-326	25-1	12	8	11-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	12	9	11-Jan-05	142.5	1.05E+10	2.99E+08	1.93E+08
X-326	25-1	12	10	11-Jan-05	6	4.43E+08	1.26E+07	8.13E+06
X-326	25-1	12	11	11-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	12	12	11-Jan-05	133.5	9.85E+09	2.80E+08	1.81E+08
X-326	25-1	13	1	16-Mar-10	6	3.29E+08	1.26E+07	3.54E+06
X-326	25-1	13	2	16-Mar-10	5	2.74E+08	1.05E+07	2.95E+06
X-326	25-1	13	3	16-Mar-10	6	3.29E+08	1.26E+07	3.54E+06
X-326	25-1	13	4	16-Mar-10	6	3.29E+08	1.26E+07	3.54E+06
X-326	25-1	13	5	16-Mar-10	6	3.29E+08	1.26E+07	3.54E+06
X-326	25-1	13	6	16-Mar-10	8	4.39E+08	1.68E+07	4.72E+06
X-326	25-1	13	7	16-Mar-10	5	2.74E+08	1.05E+07	2.95E+06
X-326	25-1	13	8	16-Mar-10	6	3.29E+08	1.26E+07	3.54E+06
X-326	25-1	13	9	16-Mar-10	6	3.29E+08	1.26E+07	3.54E+06
X-326	25-1	13	10	16-Mar-10	6	3.29E+08	1.26E+07	3.54E+06
X-326	25-1	13	11	16-Mar-10	5	2.74E+08	1.05E+07	2.95E+06
X-326	25-1	13	12	16-Mar-10	8	4.39E+08	1.68E+07	4.72E+06
X-326	25-1	14	1	06-Jan-05	69	3.82E+09	1.45E+08	1.79E+07
X-326	25-1	14	2	06-Jan-05	100.5	5.56E+09	2.11E+08	2.61E+07
X-326	25-1	14	3	06-Jan-05	39	2.16E+09	8.19E+07	1.01E+07
X-326	25-1	14	4	06-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	14	5	06-Jan-05	4.5	2.49E+08	9.45E+06	1.17E+06
X-326	25-1	14	6	06-Jan-05	70.5	3.90E+09	1.48E+08	1.83E+07
X-326	25-1	14	7	06-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	14	8	06-Jan-05	94.5	5.23E+09	1.98E+08	2.45E+07
X-326	25-1	14	9	06-Jan-05	1.5	8.30E+07	3.15E+06	3.89E+05

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-1	14	10	06-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	14	11	06-Jan-05	160.5	8.88E+09	3.37E+08	4.16E+07
X-326	25-1	14	12	06-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	15	1	18-Nov-09	6	3.38E+08	1.26E+07	3.46E+06
X-326	25-1	15	2	18-Nov-09	6	3.38E+08	1.26E+07	3.46E+06
X-326	25-1	15	3	18-Nov-09	6	3.38E+08	1.26E+07	3.46E+06
X-326	25-1	15	4	18-Nov-09	5	2.82E+08	1.05E+07	2.88E+06
X-326	25-1	15	5	18-Nov-09	5	2.82E+08	1.05E+07	2.88E+06
X-326	25-1	15	6	18-Nov-09	6	3.38E+08	1.26E+07	3.46E+06
X-326	25-1	15	7	18-Nov-09	5	2.82E+08	1.05E+07	2.88E+06
X-326	25-1	15	8	18-Nov-09	5	2.82E+08	1.05E+07	2.88E+06
X-326	25-1	15	9	18-Nov-09	6	3.38E+08	1.26E+07	3.46E+06
X-326	25-1	15	10	18-Nov-09	5	2.82E+08	1.05E+07	2.88E+06
X-326	25-1	15	11	18-Nov-09	6	3.38E+08	1.26E+07	3.46E+06
X-326	25-1	15	12	18-Nov-09	8	4.51E+08	1.68E+07	4.61E+06
X-326	25-1	16	1	18-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	16	2	18-Jan-05	28.5	2.36E+09	5.99E+07	9.41E+06
X-326	25-1	16	3	18-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	16	4	18-Jan-05	205.5	1.70E+10	4.32E+08	6.78E+07
X-326	25-1	16	5	18-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	16	6	18-Jan-05	66	5.46E+09	1.39E+08	2.18E+07
X-326	25-1	16	7	18-Jan-05	175.5	1.45E+10	3.69E+08	5.79E+07
X-326	25-1	16	8	18-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	16	9	18-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	16	10	18-Jan-05	60	4.96E+09	1.26E+08	1.98E+07
X-326	25-1	16	11	18-Jan-05	12	9.92E+08	2.52E+07	3.96E+06
X-326	25-1	16	12	18-Jan-05	85.5	7.07E+09	1.80E+08	2.82E+07
X-326	25-1	17	1	08-Nov-04	180	1.01E+10	3.78E+08	1.01E+08
X-326	25-1	17	2	08-Nov-04	211.5	1.19E+10	4.44E+08	1.19E+08
X-326	25-1	17	3	08-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	17	4	08-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	17	5	08-Nov-04	432	2.43E+10	9.07E+08	2.43E+08
X-326	25-1	17	6	08-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	17	7	08-Nov-04	9	5.07E+08	1.89E+07	5.07E+06
X-326	25-1	17	8	08-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	17	9	08-Nov-04	130.5	7.36E+09	2.74E+08	7.35E+07
X-326	25-1	17	10	08-Nov-04	222	1.25E+10	4.66E+08	1.25E+08
X-326	25-1	17	11	08-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	17	12	08-Nov-04	64.5	3.64E+09	1.35E+08	3.63E+07
X-326	25-1	18	1	04-Jan-05	51	4.22E+09	1.07E+08	1.90E+07
X-326	25-1	18	2	04-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	18	3	04-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	18	4	04-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	18	5	04-Jan-05	138	1.14E+10	2.90E+08	5.14E+07
X-326	25-1	18	6	04-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	18	7	04-Jan-05	184.5	1.53E+10	3.87E+08	6.87E+07
X-326	25-1	18	8	04-Jan-05	123	1.02E+10	2.58E+08	4.58E+07
X-326	25-1	18	9	04-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	18	10	04-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	18	11	04-Jan-05	3	2.48E+08	6.30E+06	1.12E+06
X-326	25-1	18	12	04-Jan-05	192	1.59E+10	4.03E+08	7.14E+07
X-326	25-1	19	1	09-Nov-04	576	3.25E+10	1.21E+09	3.17E+08
X-326	25-1	19	2	09-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	19	3	09-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	19	4	09-Nov-04	175.5	9.89E+09	3.69E+08	9.65E+07

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-1	19	5	09-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	19	6	09-Nov-04	208.5	1.18E+10	4.38E+08	1.15E+08
X-326	25-1	19	7	09-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	19	8	09-Nov-04	58.5	3.30E+09	1.23E+08	3.22E+07
X-326	25-1	19	9	09-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	19	10	09-Nov-04	60	3.38E+09	1.26E+08	3.30E+07
X-326	25-1	19	11	09-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	19	12	09-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	20	1	11-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	20	2	11-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	20	3	11-Nov-04	15	8.30E+08	3.15E+07	1.36E+07
X-326	25-1	20	4	11-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	20	5	11-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	20	6	11-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	20	7	11-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	20	8	11-Nov-04	27	1.49E+09	5.67E+07	2.45E+07
X-326	25-1	20	9	11-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	20	10	11-Nov-04	1.5	8.30E+07	3.15E+06	1.36E+06
X-326	25-1	20	11	11-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-1	20	12	11-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	1	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	2	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	3	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	4	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	5	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	6	08-Feb-05	214.5	1.46E+10	4.50E+08	8.94E+07
X-326	25-2	1	7	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	8	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	9	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	10	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	11	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	1	12	08-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	2	1	26-Feb-10	8	4.86E+08	1.68E+07	1.30E+06
X-326	25-2	2	2	26-Feb-10	6	3.65E+08	1.26E+07	9.75E+05
X-326	25-2	2	3	26-Feb-10	8	4.86E+08	1.68E+07	1.30E+06
X-326	25-2	2	4	26-Feb-10	6	3.65E+08	1.26E+07	9.75E+05
X-326	25-2	2	5	26-Feb-10	11	6.69E+08	2.31E+07	1.79E+06
X-326	25-2	2	6	26-Feb-10	9	5.47E+08	1.89E+07	1.46E+06
X-326	25-2	2	7	26-Feb-10	8	4.86E+08	1.68E+07	1.30E+06
X-326	25-2	2	8	26-Feb-10	11	6.69E+08	2.31E+07	1.79E+06
X-326	25-2	2	9	26-Feb-10	17	1.03E+09	3.57E+07	2.76E+06
X-326	25-2	2	10	26-Feb-10	9	5.47E+08	1.89E+07	1.46E+06
X-326	25-2	2	11	26-Feb-10	15	9.12E+08	3.15E+07	2.44E+06
X-326	25-2	2	12	26-Feb-10	12	7.29E+08	2.52E+07	1.95E+06
X-326	25-2	3	1	10-Feb-05	178.5	1.07E+10	3.75E+08	7.06E+07
X-326	25-2	3	2	10-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	3	3	10-Feb-05	658.5	3.96E+10	1.38E+09	2.60E+08
X-326	25-2	3	4	10-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	3	5	10-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	3	6	10-Feb-05	306	1.84E+10	6.43E+08	1.21E+08
X-326	25-2	3	7	10-Feb-05	82.5	4.97E+09	1.73E+08	3.26E+07
X-326	25-2	3	8	10-Feb-05	127.5	7.67E+09	2.68E+08	5.04E+07
X-326	25-2	3	9	10-Feb-05	439.5	2.65E+10	9.23E+08	1.74E+08
X-326	25-2	3	10	10-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	3	11	10-Feb-05	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-2	3	12	10-Feb-05	454.5	2.74E+10	9.54E+08	1.80E+08
X-326	25-2	4	1	09-Apr-10	9	4.89E+08	1.89E+07	1.54E+06
X-326	25-2	4	2	09-Apr-10	11	5.98E+08	2.31E+07	1.89E+06
X-326	25-2	4	3	09-Apr-10	8	4.35E+08	1.68E+07	1.37E+06
X-326	25-2	4	4	09-Apr-10	6	3.26E+08	1.26E+07	1.03E+06
X-326	25-2	4	5	09-Apr-10	8	4.35E+08	1.68E+07	1.37E+06
X-326	25-2	4	6	09-Apr-10	6	3.26E+08	1.26E+07	1.03E+06
X-326	25-2	4	7	09-Apr-10	6	3.26E+08	1.26E+07	1.03E+06
X-326	25-2	4	8	09-Apr-10	9	4.89E+08	1.89E+07	1.54E+06
X-326	25-2	4	9	09-Apr-10	11	5.98E+08	2.31E+07	1.89E+06
X-326	25-2	4	10	09-Apr-10	9	4.89E+08	1.89E+07	1.54E+06
X-326	25-2	4	11	09-Apr-10	11	5.98E+08	2.31E+07	1.89E+06
X-326	25-2	4	12	09-Apr-10	6	3.26E+08	1.26E+07	1.03E+06
X-326	25-2	5	1	14-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	5	2	14-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	5	3	14-Feb-05	7.5	3.66E+08	1.58E+07	2.84E+06
X-326	25-2	5	4	14-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	5	5	14-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	5	6	14-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	5	7	14-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	5	8	14-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	5	9	14-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	5	10	14-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	5	11	14-Feb-05	297	1.45E+10	6.24E+08	1.12E+08
X-326	25-2	5	12	14-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	6	1	29-Jan-10	5	2.50E+08	1.05E+07	9.04E+05
X-326	25-2	6	2	29-Jan-10	5	2.50E+08	1.05E+07	9.04E+05
X-326	25-2	6	3	29-Jan-10	14	7.00E+08	2.94E+07	2.53E+06
X-326	25-2	6	4	29-Jan-10	5	2.50E+08	1.05E+07	9.04E+05
X-326	25-2	6	5	29-Jan-10	3	1.50E+08	6.30E+06	5.43E+05
X-326	25-2	6	6	29-Jan-10	5	2.50E+08	1.05E+07	9.04E+05
X-326	25-2	6	7	29-Jan-10	6	3.00E+08	1.26E+07	1.09E+06
X-326	25-2	6	8	29-Jan-10	6	3.00E+08	1.26E+07	1.09E+06
X-326	25-2	6	9	29-Jan-10	8	4.00E+08	1.68E+07	1.45E+06
X-326	25-2	6	10	29-Jan-10	8	4.00E+08	1.68E+07	1.45E+06
X-326	25-2	6	11	29-Jan-10	8	4.00E+08	1.68E+07	1.45E+06
X-326	25-2	6	12	29-Jan-10	6	3.00E+08	1.26E+07	1.09E+06
X-326	25-2	7	1	15-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	7	2	15-Feb-05	240	1.31E+10	5.04E+08	8.65E+07
X-326	25-2	7	3	15-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	7	4	15-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	7	5	15-Feb-05	13.5	7.34E+08	2.84E+07	4.87E+06
X-326	25-2	7	6	15-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	7	7	15-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	7	8	15-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	7	9	15-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	7	10	15-Feb-05	402	2.19E+10	8.44E+08	1.45E+08
X-326	25-2	7	11	15-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	7	12	15-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	8	1	24-May-10	5	2.46E+08	1.05E+07	9.53E+05
X-326	25-2	8	2	24-May-10	5	2.46E+08	1.05E+07	9.53E+05
X-326	25-2	8	3	24-May-10	5	2.46E+08	1.05E+07	9.53E+05
X-326	25-2	8	4	24-May-10	5	2.46E+08	1.05E+07	9.53E+05
X-326	25-2	8	5	24-May-10	6	2.95E+08	1.26E+07	1.14E+06
X-326	25-2	8	6	24-May-10	6	2.95E+08	1.26E+07	1.14E+06

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-2	8	7	24-May-10	5	2.46E+08	1.05E+07	9.53E+05
X-326	25-2	8	8	24-May-10	6	2.95E+08	1.26E+07	1.14E+06
X-326	25-2	8	9	24-May-10	6	2.95E+08	1.26E+07	1.14E+06
X-326	25-2	8	10	24-May-10	8	3.94E+08	1.68E+07	1.52E+06
X-326	25-2	8	11	24-May-10	11	5.41E+08	2.31E+07	2.10E+06
X-326	25-2	8	12	24-May-10	9	4.43E+08	1.89E+07	1.71E+06
X-326	25-2	9	1	30-Sep-10	5	2.72E+08	1.05E+07	1.72E+06
X-326	25-2	9	2	30-Sep-10	5	2.72E+08	1.05E+07	1.72E+06
X-326	25-2	9	3	30-Sep-10	8	4.35E+08	1.68E+07	2.75E+06
X-326	25-2	9	4	30-Sep-10	8	4.35E+08	1.68E+07	2.75E+06
X-326	25-2	9	5	30-Sep-10	6	3.26E+08	1.26E+07	2.06E+06
X-326	25-2	9	6	30-Sep-10	6	3.26E+08	1.26E+07	2.06E+06
X-326	25-2	9	7	30-Sep-10	6	3.26E+08	1.26E+07	2.06E+06
X-326	25-2	9	8	30-Sep-10	11	5.98E+08	2.31E+07	3.78E+06
X-326	25-2	9	9	30-Sep-10	6	3.26E+08	1.26E+07	2.06E+06
X-326	25-2	9	10	30-Sep-10	6	3.26E+08	1.26E+07	2.06E+06
X-326	25-2	9	11	30-Sep-10	5	2.72E+08	1.05E+07	1.72E+06
X-326	25-2	9	12	30-Sep-10	6	3.26E+08	1.26E+07	2.06E+06
X-326	25-2	10	1	04-Jun-10	5	2.21E+08	1.05E+07	1.00E+06
X-326	25-2	10	2	04-Jun-10	5	2.21E+08	1.05E+07	1.00E+06
X-326	25-2	10	3	04-Jun-10	5	2.21E+08	1.05E+07	1.00E+06
X-326	25-2	10	4	04-Jun-10	3	1.33E+08	6.30E+06	6.02E+05
X-326	25-2	10	5	04-Jun-10	3	1.33E+08	6.30E+06	6.02E+05
X-326	25-2	10	6	04-Jun-10	5	2.21E+08	1.05E+07	1.00E+06
X-326	25-2	10	7	04-Jun-10	6	2.66E+08	1.26E+07	1.20E+06
X-326	25-2	10	8	04-Jun-10	8	3.54E+08	1.68E+07	1.60E+06
X-326	25-2	10	9	04-Jun-10	11	4.87E+08	2.31E+07	2.21E+06
X-326	25-2	10	10	04-Jun-10	8	3.54E+08	1.68E+07	1.60E+06
X-326	25-2	10	11	04-Jun-10	8	3.54E+08	1.68E+07	1.60E+06
X-326	25-2	10	12	04-Jun-10	8	3.54E+08	1.68E+07	1.60E+06
X-326	25-2	11	1	19-Mar-10	6	2.86E+08	1.26E+07	1.96E+06
X-326	25-2	11	2	19-Mar-10	8	3.82E+08	1.68E+07	2.62E+06
X-326	25-2	11	3	19-Mar-10	8	3.82E+08	1.68E+07	2.62E+06
X-326	25-2	11	4	19-Mar-10	5	2.38E+08	1.05E+07	1.64E+06
X-326	25-2	11	5	19-Mar-10	8	3.82E+08	1.68E+07	2.62E+06
X-326	25-2	11	6	19-Mar-10	11	5.25E+08	2.31E+07	3.60E+06
X-326	25-2	11	7	19-Mar-10	9	4.29E+08	1.89E+07	2.95E+06
X-326	25-2	11	8	19-Mar-10	5	2.38E+08	1.05E+07	1.64E+06
X-326	25-2	11	9	19-Mar-10	9	4.29E+08	1.89E+07	2.95E+06
X-326	25-2	11	10	19-Mar-10	6	2.86E+08	1.26E+07	1.96E+06
X-326	25-2	11	11	19-Mar-10	11	5.25E+08	2.31E+07	3.60E+06
X-326	25-2	11	12	19-Mar-10	8	3.82E+08	1.68E+07	2.62E+06
X-326	25-2	12	1	15-Jun-10	8	4.13E+08	1.68E+07	1.69E+06
X-326	25-2	12	2	15-Jun-10	6	3.10E+08	1.26E+07	1.27E+06
X-326	25-2	12	3	15-Jun-10	5	2.58E+08	1.05E+07	1.05E+06
X-326	25-2	12	4	15-Jun-10	9	4.65E+08	1.89E+07	1.90E+06
X-326	25-2	12	5	15-Jun-10	9	4.65E+08	1.89E+07	1.90E+06
X-326	25-2	12	6	15-Jun-10	6	3.10E+08	1.26E+07	1.27E+06
X-326	25-2	12	7	15-Jun-10	5	2.58E+08	1.05E+07	1.05E+06
X-326	25-2	12	8	15-Jun-10	6	3.10E+08	1.26E+07	1.27E+06
X-326	25-2	12	9	15-Jun-10	6	3.10E+08	1.26E+07	1.27E+06
X-326	25-2	12	10	15-Jun-10	6	3.10E+08	1.26E+07	1.27E+06
X-326	25-2	12	11	15-Jun-10	5	2.58E+08	1.05E+07	1.05E+06
X-326	25-2	12	12	15-Jun-10	5	2.58E+08	1.05E+07	1.05E+06
X-326	25-2	13	1	23-Apr-10	6	2.45E+08	1.26E+07	1.87E+06

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-2	13	2	23-Apr-10	6	2.45E+08	1.26E+07	1.87E+06
X-326	25-2	13	3	23-Apr-10	5	2.04E+08	1.05E+07	1.56E+06
X-326	25-2	13	4	23-Apr-10	6	2.45E+08	1.26E+07	1.87E+06
X-326	25-2	13	5	23-Apr-10	8	3.26E+08	1.68E+07	2.50E+06
X-326	25-2	13	6	23-Apr-10	8	3.26E+08	1.68E+07	2.50E+06
X-326	25-2	13	7	23-Apr-10	4	1.63E+08	8.40E+06	1.25E+06
X-326	25-2	13	8	23-Apr-10	6	2.45E+08	1.26E+07	1.87E+06
X-326	25-2	13	9	23-Apr-10	9	3.67E+08	1.89E+07	2.81E+06
X-326	25-2	13	10	23-Apr-10	8	3.26E+08	1.68E+07	2.50E+06
X-326	25-2	13	11	23-Apr-10	6	2.45E+08	1.26E+07	1.87E+06
X-326	25-2	13	12	23-Apr-10	5	2.04E+08	1.05E+07	1.56E+06
X-326	25-2	14	1	15-Jul-04	166.5	1.20E+10	3.50E+08	3.69E+07
X-326	25-2	14	2	15-Jul-04	4.5	3.24E+08	9.45E+06	9.98E+05
X-326	25-2	14	3	15-Jul-04	216	1.56E+10	4.54E+08	4.79E+07
X-326	25-2	14	4	15-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	14	5	15-Jul-04	45	3.24E+09	9.45E+07	9.98E+06
X-326	25-2	14	6	15-Jul-04	79.5	5.73E+09	1.67E+08	1.76E+07
X-326	25-2	14	7	15-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	14	8	15-Jul-04	61.5	4.43E+09	1.29E+08	1.36E+07
X-326	25-2	14	9	15-Jul-04	235.5	1.70E+10	4.95E+08	5.22E+07
X-326	25-2	14	10	15-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	14	11	15-Jul-04	18	1.30E+09	3.78E+07	3.99E+06
X-326	25-2	14	12	15-Jul-04	207	1.49E+10	4.35E+08	4.59E+07
X-326	25-2	15	1	04-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	15	2	04-Mar-05	213	1.78E+10	4.47E+08	6.33E+07
X-326	25-2	15	3	04-Mar-05	48	4.02E+09	1.01E+08	1.43E+07
X-326	25-2	15	4	04-Mar-05	303	2.54E+10	6.36E+08	9.01E+07
X-326	25-2	15	5	04-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	15	6	04-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	15	7	04-Mar-05	114	9.55E+09	2.39E+08	3.39E+07
X-326	25-2	15	8	04-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	15	9	04-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	15	10	04-Mar-05	270	2.26E+10	5.67E+08	8.03E+07
X-326	25-2	15	11	04-Mar-05	18	1.51E+09	3.78E+07	5.35E+06
X-326	25-2	15	12	04-Mar-05	270	2.26E+10	5.67E+08	8.03E+07
X-326	25-2	16	1	11-Aug-10	6	3.58E+08	1.26E+07	1.40E+06
X-326	25-2	16	2	11-Aug-10	6	3.58E+08	1.26E+07	1.40E+06
X-326	25-2	16	3	11-Aug-10	6	3.58E+08	1.26E+07	1.40E+06
X-326	25-2	16	4	11-Aug-10	5	2.98E+08	1.05E+07	1.17E+06
X-326	25-2	16	5	11-Aug-10	6	3.58E+08	1.26E+07	1.40E+06
X-326	25-2	16	6	11-Aug-10	9	5.37E+08	1.89E+07	2.10E+06
X-326	25-2	16	7	11-Aug-10	9	5.37E+08	1.89E+07	2.10E+06
X-326	25-2	16	8	11-Aug-10	9	5.37E+08	1.89E+07	2.10E+06
X-326	25-2	16	9	11-Aug-10	12	7.15E+08	2.52E+07	2.80E+06
X-326	25-2	16	10	11-Aug-10	6	3.58E+08	1.26E+07	1.40E+06
X-326	25-2	16	11	11-Aug-10	6	3.58E+08	1.26E+07	1.40E+06
X-326	25-2	16	12	11-Aug-10	11	6.56E+08	2.31E+07	2.56E+06
X-326	25-2	17	1	04-Nov-10	5	2.77E+08	1.05E+07	1.42E+06
X-326	25-2	17	2	04-Nov-10	5	2.77E+08	1.05E+07	1.42E+06
X-326	25-2	17	3	04-Nov-10	5	2.77E+08	1.05E+07	1.42E+06
X-326	25-2	17	4	04-Nov-10	5	2.77E+08	1.05E+07	1.42E+06
X-326	25-2	17	5	04-Nov-10	5	2.77E+08	1.05E+07	1.42E+06
X-326	25-2	17	6	04-Nov-10	3	1.66E+08	6.30E+06	8.50E+05
X-326	25-2	17	7	04-Nov-10	5	2.77E+08	1.05E+07	1.42E+06
X-326	25-2	17	8	04-Nov-10	8	4.43E+08	1.68E+07	2.27E+06

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-2	17	9	04-Nov-10	6	3.32E+08	1.26E+07	1.70E+06
X-326	25-2	17	10	04-Nov-10	5	2.77E+08	1.05E+07	1.42E+06
X-326	25-2	17	11	04-Nov-10	5	2.77E+08	1.05E+07	1.42E+06
X-326	25-2	17	12	04-Nov-10	11	6.09E+08	2.31E+07	3.12E+06
X-326	25-2	18	1	11-Sep-10	5	2.79E+08	1.05E+07	1.24E+06
X-326	25-2	18	2	11-Sep-10	5	2.79E+08	1.05E+07	1.24E+06
X-326	25-2	18	3	11-Sep-10	5	2.79E+08	1.05E+07	1.24E+06
X-326	25-2	18	4	11-Sep-10	3	1.68E+08	6.30E+06	7.47E+05
X-326	25-2	18	5	11-Sep-10	3	1.68E+08	6.30E+06	7.47E+05
X-326	25-2	18	6	11-Sep-10	3	1.68E+08	6.30E+06	7.47E+05
X-326	25-2	18	7	11-Sep-10	3	1.68E+08	6.30E+06	7.47E+05
X-326	25-2	18	8	11-Sep-10	3	1.68E+08	6.30E+06	7.47E+05
X-326	25-2	18	9	11-Sep-10	3	1.68E+08	6.30E+06	7.47E+05
X-326	25-2	18	10	11-Sep-10	8	4.47E+08	1.68E+07	1.99E+06
X-326	25-2	18	11	11-Sep-10	5	2.79E+08	1.05E+07	1.24E+06
X-326	25-2	18	12	11-Sep-10	3	1.68E+08	6.30E+06	7.47E+05
X-326	25-2	19	1	08-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	19	2	08-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	19	3	08-Mar-05	256.5	1.42E+10	5.39E+08	6.93E+07
X-326	25-2	19	4	08-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	19	5	08-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	19	6	08-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	19	7	08-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	19	8	08-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	19	9	08-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	19	10	08-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	19	11	08-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-2	19	12	08-Mar-05	601.5	3.33E+10	1.26E+09	1.62E+08
X-326	25-2	20	1	25-Jun-10	5	2.33E+08	1.05E+07	1.29E+06
X-326	25-2	20	2	25-Jun-10	6	2.80E+08	1.26E+07	1.54E+06
X-326	25-2	20	3	25-Jun-10	8	3.73E+08	1.68E+07	2.06E+06
X-326	25-2	20	4	25-Jun-10	5	2.33E+08	1.05E+07	1.29E+06
X-326	25-2	20	5	25-Jun-10	9	4.20E+08	1.89E+07	2.31E+06
X-326	25-2	20	6	25-Jun-10	11	5.13E+08	2.31E+07	2.83E+06
X-326	25-2	20	7	25-Jun-10	5	2.33E+08	1.05E+07	1.29E+06
X-326	25-2	20	8	25-Jun-10	5	2.33E+08	1.05E+07	1.29E+06
X-326	25-2	20	9	25-Jun-10	6	2.80E+08	1.26E+07	1.54E+06
X-326	25-2	20	10	25-Jun-10	8	3.73E+08	1.68E+07	2.06E+06
X-326	25-2	20	11	25-Jun-10	6	2.80E+08	1.26E+07	1.54E+06
X-326	25-2	20	12	25-Jun-10	11	5.13E+08	2.31E+07	2.83E+06
X-326	25-3	1	1	22-Apr-09	9	4.10E+08	1.89E+07	1.43E+06
X-326	25-3	1	2	22-Apr-09	9	4.10E+08	1.89E+07	1.43E+06
X-326	25-3	1	3	22-Apr-09	12	5.47E+08	2.52E+07	1.91E+06
X-326	25-3	1	4	22-Apr-09	9	4.10E+08	1.89E+07	1.43E+06
X-326	25-3	1	5	22-Apr-09	20	9.12E+08	4.20E+07	3.18E+06
X-326	25-3	1	6	22-Apr-09	15	6.84E+08	3.15E+07	2.38E+06
X-326	25-3	1	7	22-Apr-09	5	2.28E+08	1.05E+07	7.94E+05
X-326	25-3	1	8	22-Apr-09	8	3.65E+08	1.68E+07	1.27E+06
X-326	25-3	1	9	22-Apr-09	11	5.01E+08	2.31E+07	1.75E+06
X-326	25-3	1	10	22-Apr-09	8	3.65E+08	1.68E+07	1.27E+06
X-326	25-3	1	11	22-Apr-09	6	2.74E+08	1.26E+07	9.53E+05
X-326	25-3	1	12	22-Apr-09	8	3.65E+08	1.68E+07	1.27E+06
X-326	25-3	2	1	07-Jan-09	8	4.39E+08	1.68E+07	8.34E+05
X-326	25-3	2	2	07-Jan-09	9	4.94E+08	1.89E+07	9.38E+05
X-326	25-3	2	3	07-Jan-09	8	4.39E+08	1.68E+07	8.34E+05

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-3	2	4	07-Jan-09	11	6.04E+08	2.31E+07	1.15E+06
X-326	25-3	2	5	07-Jan-09	5	2.74E+08	1.05E+07	5.21E+05
X-326	25-3	2	6	07-Jan-09	9	4.94E+08	1.89E+07	9.38E+05
X-326	25-3	2	7	07-Jan-09	6	3.29E+08	1.26E+07	6.25E+05
X-326	25-3	2	8	07-Jan-09	9	4.94E+08	1.89E+07	9.38E+05
X-326	25-3	2	9	07-Jan-09	8	4.39E+08	1.68E+07	8.34E+05
X-326	25-3	2	10	07-Jan-09	6	3.29E+08	1.26E+07	6.25E+05
X-326	25-3	2	11	07-Jan-09	8	4.39E+08	1.68E+07	8.34E+05
X-326	25-3	2	12	07-Jan-09	14	7.68E+08	2.94E+07	1.46E+06
X-326	25-3	3	1	26-Jun-09	9	6.07E+08	1.89E+07	1.40E+06
X-326	25-3	3	2	26-Jun-09	9	6.07E+08	1.89E+07	1.40E+06
X-326	25-3	3	3	26-Jun-09	8	5.39E+08	1.68E+07	1.25E+06
X-326	25-3	3	4	26-Jun-09	5	3.37E+08	1.05E+07	7.80E+05
X-326	25-3	3	5	26-Jun-09	6	4.04E+08	1.26E+07	9.36E+05
X-326	25-3	3	6	26-Jun-09	5	3.37E+08	1.05E+07	7.80E+05
X-326	25-3	3	7	26-Jun-09	6	4.04E+08	1.26E+07	9.36E+05
X-326	25-3	3	8	26-Jun-09	6	4.04E+08	1.26E+07	9.36E+05
X-326	25-3	3	9	26-Jun-09	9	6.07E+08	1.89E+07	1.40E+06
X-326	25-3	3	10	26-Jun-09	5	3.37E+08	1.05E+07	7.80E+05
X-326	25-3	3	11	26-Jun-09	15	1.01E+09	3.15E+07	2.34E+06
X-326	25-3	3	12	26-Jun-09	6	4.04E+08	1.26E+07	9.36E+05
X-326	25-3	4	1	16-Jan-09	6	4.53E+08	1.26E+07	6.39E+05
X-326	25-3	4	2	16-Jan-09	6	4.53E+08	1.26E+07	6.39E+05
X-326	25-3	4	3	16-Jan-09	7.5	5.66E+08	1.58E+07	7.99E+05
X-326	25-3	4	4	16-Jan-09	6	4.53E+08	1.26E+07	6.39E+05
X-326	25-3	4	5	16-Jan-09	12	9.05E+08	2.52E+07	1.28E+06
X-326	25-3	4	6	16-Jan-09	10.5	7.92E+08	2.21E+07	1.12E+06
X-326	25-3	4	7	16-Jan-09	12	9.05E+08	2.52E+07	1.28E+06
X-326	25-3	4	8	16-Jan-09	6	4.53E+08	1.26E+07	6.39E+05
X-326	25-3	4	9	16-Jan-09	7.5	5.66E+08	1.58E+07	7.99E+05
X-326	25-3	4	10	16-Jan-09	6	4.53E+08	1.26E+07	6.39E+05
X-326	25-3	4	11	16-Jan-09	9	6.79E+08	1.89E+07	9.59E+05
X-326	25-3	4	12	16-Jan-09	10.5	7.92E+08	2.21E+07	1.12E+06
X-326	25-3	5	1	25-Aug-09	5	2.50E+08	1.05E+07	7.64E+05
X-326	25-3	5	2	25-Aug-09	6	3.00E+08	1.26E+07	9.17E+05
X-326	25-3	5	3	25-Aug-09	6	3.00E+08	1.26E+07	9.17E+05
X-326	25-3	5	4	25-Aug-09	5	2.50E+08	1.05E+07	7.64E+05
X-326	25-3	5	5	25-Aug-09	6	3.00E+08	1.26E+07	9.17E+05
X-326	25-3	5	6	25-Aug-09	5	2.50E+08	1.05E+07	7.64E+05
X-326	25-3	5	7	25-Aug-09	5	2.50E+08	1.05E+07	7.64E+05
X-326	25-3	5	8	25-Aug-09	6	3.00E+08	1.26E+07	9.17E+05
X-326	25-3	5	9	25-Aug-09	5	2.50E+08	1.05E+07	7.64E+05
X-326	25-3	5	10	25-Aug-09	5	2.50E+08	1.05E+07	7.64E+05
X-326	25-3	5	11	25-Aug-09	5	2.50E+08	1.05E+07	7.64E+05
X-326	25-3	5	12	25-Aug-09	6	3.00E+08	1.26E+07	9.17E+05
X-326	25-3	6	1	09-Apr-09	7.5	5.00E+08	1.58E+07	8.21E+05
X-326	25-3	6	2	09-Apr-09	7.5	5.00E+08	1.58E+07	8.21E+05
X-326	25-3	6	3	09-Apr-09	9	6.00E+08	1.89E+07	9.85E+05
X-326	25-3	6	4	09-Apr-09	7.5	5.00E+08	1.58E+07	8.21E+05
X-326	25-3	6	5	09-Apr-09	6	4.00E+08	1.26E+07	6.56E+05
X-326	25-3	6	6	09-Apr-09	6	4.00E+08	1.26E+07	6.56E+05
X-326	25-3	6	7	09-Apr-09	6	4.00E+08	1.26E+07	6.56E+05
X-326	25-3	6	8	09-Apr-09	9	6.00E+08	1.89E+07	9.85E+05
X-326	25-3	6	9	09-Apr-09	9	6.00E+08	1.89E+07	9.85E+05
X-326	25-3	6	10	09-Apr-09	9	6.00E+08	1.89E+07	9.85E+05

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-3	6	11	09-Apr-09	15	1.00E+09	3.15E+07	1.64E+06
X-326	25-3	6	12	09-Apr-09	7.5	5.00E+08	1.58E+07	8.21E+05
X-326	25-3	7	1	07-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	7	2	07-May-03	4.5	3.03E+08	9.45E+06	6.73E+05
X-326	25-3	7	3	07-May-03	66	4.45E+09	1.39E+08	9.88E+06
X-326	25-3	7	4	07-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	7	5	07-May-03	19.5	1.31E+09	4.10E+07	2.92E+06
X-326	25-3	7	6	07-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	7	7	07-May-03	139.5	9.40E+09	2.93E+08	2.09E+07
X-326	25-3	7	8	07-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	7	9	07-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	7	10	07-May-03	42	2.83E+09	8.82E+07	6.29E+06
X-326	25-3	7	11	07-May-03	3	2.02E+08	6.30E+06	4.49E+05
X-326	25-3	7	12	07-May-03	138	9.30E+09	2.90E+08	2.07E+07
X-326	25-3	8	1	16-Jun-09	8	5.51E+08	1.68E+07	8.97E+05
X-326	25-3	8	2	16-Jun-09	6	4.13E+08	1.26E+07	6.72E+05
X-326	25-3	8	3	16-Jun-09	6	4.13E+08	1.26E+07	6.72E+05
X-326	25-3	8	4	16-Jun-09	9	6.20E+08	1.89E+07	1.01E+06
X-326	25-3	8	5	16-Jun-09	6	4.13E+08	1.26E+07	6.72E+05
X-326	25-3	8	6	16-Jun-09	5	3.44E+08	1.05E+07	5.60E+05
X-326	25-3	8	7	16-Jun-09	5	3.44E+08	1.05E+07	5.60E+05
X-326	25-3	8	8	16-Jun-09	6	4.13E+08	1.26E+07	6.72E+05
X-326	25-3	8	9	16-Jun-09	6	4.13E+08	1.26E+07	6.72E+05
X-326	25-3	8	10	16-Jun-09	6	4.13E+08	1.26E+07	6.72E+05
X-326	25-3	8	11	16-Jun-09	5	3.44E+08	1.05E+07	5.60E+05
X-326	25-3	8	12	16-Jun-09	5	3.44E+08	1.05E+07	5.60E+05
X-326	25-3	9	1	04-Aug-09	11	6.09E+08	2.31E+07	1.61E+06
X-326	25-3	9	2	04-Aug-09	12	6.64E+08	2.52E+07	1.76E+06
X-326	25-3	9	3	04-Aug-09	8	4.43E+08	1.68E+07	1.17E+06
X-326	25-3	9	4	04-Aug-09	6	3.32E+08	1.26E+07	8.79E+05
X-326	25-3	9	5	04-Aug-09	8	4.43E+08	1.68E+07	1.17E+06
X-326	25-3	9	6	04-Aug-09	8	4.43E+08	1.68E+07	1.17E+06
X-326	25-3	9	7	04-Aug-09	6	3.32E+08	1.26E+07	8.79E+05
X-326	25-3	9	8	04-Aug-09	6	3.32E+08	1.26E+07	8.79E+05
X-326	25-3	9	9	04-Aug-09	8	4.43E+08	1.68E+07	1.17E+06
X-326	25-3	9	10	04-Aug-09	6	3.32E+08	1.26E+07	8.79E+05
X-326	25-3	9	11	04-Aug-09	8	4.43E+08	1.68E+07	1.17E+06
X-326	25-3	9	12	04-Aug-09	9	4.98E+08	1.89E+07	1.32E+06
X-326	25-3	10	1	03-Nov-09	8	5.39E+08	1.68E+07	9.18E+05
X-326	25-3	10	2	03-Nov-09	6	4.04E+08	1.26E+07	6.88E+05
X-326	25-3	10	3	03-Nov-09	8	5.39E+08	1.68E+07	9.18E+05
X-326	25-3	10	4	03-Nov-09	6	4.04E+08	1.26E+07	6.88E+05
X-326	25-3	10	5	03-Nov-09	8	5.39E+08	1.68E+07	9.18E+05
X-326	25-3	10	6	03-Nov-09	8	5.39E+08	1.68E+07	9.18E+05
X-326	25-3	10	7	03-Nov-09	8	5.39E+08	1.68E+07	9.18E+05
X-326	25-3	10	8	03-Nov-09	11	7.41E+08	2.31E+07	1.26E+06
X-326	25-3	10	9	03-Nov-09	9	6.07E+08	1.89E+07	1.03E+06
X-326	25-3	10	10	03-Nov-09	6	4.04E+08	1.26E+07	6.88E+05
X-326	25-3	10	11	03-Nov-09	6	4.04E+08	1.26E+07	6.88E+05
X-326	25-3	10	12	03-Nov-09	8	5.39E+08	1.68E+07	9.18E+05
X-326	25-3	11	1	23-Jan-04	3	1.71E+08	6.30E+06	4.30E+05
X-326	25-3	11	2	23-Jan-04	9	5.12E+08	1.89E+07	1.29E+06
X-326	25-3	11	3	23-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	11	4	23-Jan-04	186	1.06E+10	3.91E+08	2.67E+07
X-326	25-3	11	5	23-Jan-04	37.5	2.13E+09	7.88E+07	5.38E+06

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-3	11	6	23-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	11	7	23-Jan-04	151.5	8.62E+09	3.18E+08	2.17E+07
X-326	25-3	11	8	23-Jan-04	58.5	3.33E+09	1.23E+08	8.39E+06
X-326	25-3	11	9	23-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	11	10	23-Jan-04	165	9.39E+09	3.47E+08	2.37E+07
X-326	25-3	11	11	23-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	11	12	23-Jan-04	109.5	6.23E+09	2.30E+08	1.57E+07
X-326	25-3	12	1	07-Jan-10	14	8.86E+08	2.94E+07	1.67E+06
X-326	25-3	12	2	07-Jan-10	15	9.49E+08	3.15E+07	1.78E+06
X-326	25-3	12	3	07-Jan-10	15	9.49E+08	3.15E+07	1.78E+06
X-326	25-3	12	4	07-Jan-10	18	1.14E+09	3.78E+07	2.14E+06
X-326	25-3	12	5	07-Jan-10	21	1.33E+09	4.41E+07	2.50E+06
X-326	25-3	12	6	07-Jan-10	26	1.64E+09	5.46E+07	3.09E+06
X-326	25-3	12	7	07-Jan-10	9	5.69E+08	1.89E+07	1.07E+06
X-326	25-3	12	8	07-Jan-10	14	8.86E+08	2.94E+07	1.67E+06
X-326	25-3	12	9	07-Jan-10	9	5.69E+08	1.89E+07	1.07E+06
X-326	25-3	12	10	07-Jan-10	9	5.69E+08	1.89E+07	1.07E+06
X-326	25-3	12	11	07-Jan-10	9	5.69E+08	1.89E+07	1.07E+06
X-326	25-3	12	12	07-Jan-10	8	5.06E+08	1.68E+07	9.52E+05
X-326	25-3	13	1	02-Jun-03	31.5	1.79E+09	6.62E+07	4.42E+06
X-326	25-3	13	2	02-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	13	3	02-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	13	4	02-Jun-03	52.5	2.99E+09	1.10E+08	7.37E+06
X-326	25-3	13	5	02-Jun-03	18	1.02E+09	3.78E+07	2.53E+06
X-326	25-3	13	6	02-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	13	7	02-Jun-03	63	3.58E+09	1.32E+08	8.85E+06
X-326	25-3	13	8	02-Jun-03	159	9.04E+09	3.34E+08	2.23E+07
X-326	25-3	13	9	02-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	13	10	02-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	13	11	02-Jun-03	90	5.12E+09	1.89E+08	1.26E+07
X-326	25-3	13	12	02-Jun-03	250.5	1.42E+10	5.26E+08	3.52E+07
X-326	25-3	14	1	02-Sep-09	9	3.15E+08	1.89E+07	1.94E+06
X-326	25-3	14	2	02-Sep-09	8	2.80E+08	1.68E+07	1.72E+06
X-326	25-3	14	3	02-Sep-09	11	3.85E+08	2.31E+07	2.37E+06
X-326	25-3	14	4	02-Sep-09	8	2.80E+08	1.68E+07	1.72E+06
X-326	25-3	14	5	02-Sep-09	8	2.80E+08	1.68E+07	1.72E+06
X-326	25-3	14	6	02-Sep-09	9	3.15E+08	1.89E+07	1.94E+06
X-326	25-3	14	7	02-Sep-09	8	2.80E+08	1.68E+07	1.72E+06
X-326	25-3	14	8	02-Sep-09	8	2.80E+08	1.68E+07	1.72E+06
X-326	25-3	14	9	02-Sep-09	8	2.80E+08	1.68E+07	1.72E+06
X-326	25-3	14	10	02-Sep-09	6	2.10E+08	1.26E+07	1.29E+06
X-326	25-3	14	11	02-Sep-09	6	2.10E+08	1.26E+07	1.29E+06
X-326	25-3	14	12	02-Sep-09	12	4.20E+08	2.52E+07	2.58E+06
X-326	25-3	15	1	03-Jun-03	183	1.04E+10	3.84E+08	2.51E+07
X-326	25-3	15	2	03-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	15	3	03-Jun-03	261	1.48E+10	5.48E+08	3.59E+07
X-326	25-3	15	4	03-Jun-03	39	2.22E+09	8.19E+07	5.36E+06
X-326	25-3	15	5	03-Jun-03	318	1.81E+10	6.68E+08	4.37E+07
X-326	25-3	15	6	03-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	15	7	03-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	15	8	03-Jun-03	252	1.43E+10	5.29E+08	3.46E+07
X-326	25-3	15	9	03-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	15	10	03-Jun-03	322.5	1.83E+10	6.77E+08	4.43E+07
X-326	25-3	15	11	03-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	15	12	03-Jun-03	241.5	1.37E+10	5.07E+08	3.32E+07

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-3	16	1	20-Nov-09	9	4.65E+08	1.89E+07	1.10E+06
X-326	25-3	16	2	20-Nov-09	8	4.13E+08	1.68E+07	9.81E+05
X-326	25-3	16	3	20-Nov-09	11	5.68E+08	2.31E+07	1.35E+06
X-326	25-3	16	4	20-Nov-09	23	1.19E+09	4.83E+07	2.82E+06
X-326	25-3	16	5	20-Nov-09	9	4.65E+08	1.89E+07	1.10E+06
X-326	25-3	16	6	20-Nov-09	9	4.65E+08	1.89E+07	1.10E+06
X-326	25-3	16	7	20-Nov-09	17	8.78E+08	3.57E+07	2.09E+06
X-326	25-3	16	8	20-Nov-09	18	9.30E+08	3.78E+07	2.21E+06
X-326	25-3	16	9	20-Nov-09	9	4.65E+08	1.89E+07	1.10E+06
X-326	25-3	16	10	20-Nov-09	8	4.13E+08	1.68E+07	9.81E+05
X-326	25-3	16	11	20-Nov-09	8	4.13E+08	1.68E+07	9.81E+05
X-326	25-3	16	12	20-Nov-09	9	4.65E+08	1.89E+07	1.10E+06
X-326	25-3	17	1	02-Oct-09	8	4.55E+08	1.68E+07	1.07E+06
X-326	25-3	17	2	02-Oct-09	11	6.26E+08	2.31E+07	1.48E+06
X-326	25-3	17	3	02-Oct-09	17	9.67E+08	3.57E+07	2.28E+06
X-326	25-3	17	4	02-Oct-09	9	5.12E+08	1.89E+07	1.21E+06
X-326	25-3	17	5	02-Oct-09	12	6.83E+08	2.52E+07	1.61E+06
X-326	25-3	17	6	02-Oct-09	15	8.53E+08	3.15E+07	2.01E+06
X-326	25-3	17	7	02-Oct-09	12	6.83E+08	2.52E+07	1.61E+06
X-326	25-3	17	8	02-Oct-09	15	8.53E+08	3.15E+07	2.01E+06
X-326	25-3	17	9	02-Oct-09	30	1.71E+09	6.30E+07	4.02E+06
X-326	25-3	17	10	02-Oct-09	32	1.82E+09	6.72E+07	4.29E+06
X-326	25-3	17	11	02-Oct-09	30	1.71E+09	6.30E+07	4.02E+06
X-326	25-3	17	12	02-Oct-09	33	1.88E+09	6.93E+07	4.43E+06
X-326	25-3	18	1	28-Jan-10	9	4.89E+08	1.89E+07	1.13E+06
X-326	25-3	18	2	28-Jan-10	6	3.26E+08	1.26E+07	7.55E+05
X-326	25-3	18	3	28-Jan-10	11	5.98E+08	2.31E+07	1.38E+06
X-326	25-3	18	4	28-Jan-10	9	4.89E+08	1.89E+07	1.13E+06
X-326	25-3	18	5	28-Jan-10	11	5.98E+08	2.31E+07	1.38E+06
X-326	25-3	18	6	28-Jan-10	11	5.98E+08	2.31E+07	1.38E+06
X-326	25-3	18	7	28-Jan-10	9	4.89E+08	1.89E+07	1.13E+06
X-326	25-3	18	8	28-Jan-10	8	4.35E+08	1.68E+07	1.01E+06
X-326	25-3	18	9	28-Jan-10	9	4.89E+08	1.89E+07	1.13E+06
X-326	25-3	18	10	28-Jan-10	9	4.89E+08	1.89E+07	1.13E+06
X-326	25-3	18	11	28-Jan-10	9	4.89E+08	1.89E+07	1.13E+06
X-326	25-3	18	12	28-Jan-10	11	5.98E+08	2.31E+07	1.38E+06
X-326	25-3	19	1	28-Dec-09	9	4.73E+08	1.89E+07	1.18E+06
X-326	25-3	19	2	28-Dec-09	8	4.20E+08	1.68E+07	1.05E+06
X-326	25-3	19	3	28-Dec-09	9	4.73E+08	1.89E+07	1.18E+06
X-326	25-3	19	4	28-Dec-09	8	4.20E+08	1.68E+07	1.05E+06
X-326	25-3	19	5	28-Dec-09	8	4.20E+08	1.68E+07	1.05E+06
X-326	25-3	19	6	28-Dec-09	8	4.20E+08	1.68E+07	1.05E+06
X-326	25-3	19	7	28-Dec-09	6	3.15E+08	1.26E+07	7.89E+05
X-326	25-3	19	8	28-Dec-09	8	4.20E+08	1.68E+07	1.05E+06
X-326	25-3	19	9	28-Dec-09	8	4.20E+08	1.68E+07	1.05E+06
X-326	25-3	19	10	28-Dec-09	9	4.73E+08	1.89E+07	1.18E+06
X-326	25-3	19	11	28-Dec-09	9	4.73E+08	1.89E+07	1.18E+06
X-326	25-3	19	12	28-Dec-09	8	4.20E+08	1.68E+07	1.05E+06
X-326	25-3	20	1	09-Jun-03	67.5	3.67E+09	1.42E+08	8.68E+06
X-326	25-3	20	2	09-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	20	3	09-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	20	4	09-Jun-03	237	1.29E+10	4.98E+08	3.05E+07
X-326	25-3	20	5	09-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	20	6	09-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	20	7	09-Jun-03	220.5	1.20E+10	4.63E+08	2.84E+07

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-3	20	8	09-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	20	9	09-Jun-03	103.5	5.63E+09	2.17E+08	1.33E+07
X-326	25-3	20	10	09-Jun-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-3	20	11	09-Jun-03	52.5	2.86E+09	1.10E+08	6.75E+06
X-326	25-3	20	12	09-Jun-03	153	8.32E+09	3.21E+08	1.97E+07
X-326	25-4	1	1	17-Nov-10	9	5.58E+08	1.89E+07	9.07E+05
X-326	25-4	1	2	17-Nov-10	14	8.68E+08	2.94E+07	1.41E+06
X-326	25-4	1	3	17-Nov-10	9	5.58E+08	1.89E+07	9.07E+05
X-326	25-4	1	4	17-Nov-10	9	5.58E+08	1.89E+07	9.07E+05
X-326	25-4	1	5	17-Nov-10	9	5.58E+08	1.89E+07	9.07E+05
X-326	25-4	1	6	17-Nov-10	14	8.68E+08	2.94E+07	1.41E+06
X-326	25-4	1	7	17-Nov-10	12	7.44E+08	2.52E+07	1.21E+06
X-326	25-4	1	8	17-Nov-10	14	8.68E+08	2.94E+07	1.41E+06
X-326	25-4	1	9	17-Nov-10	14	8.68E+08	2.94E+07	1.41E+06
X-326	25-4	1	10	17-Nov-10	15	9.30E+08	3.15E+07	1.51E+06
X-326	25-4	1	11	17-Nov-10	12	7.44E+08	2.52E+07	1.21E+06
X-326	25-4	1	12	17-Nov-10	12	7.44E+08	2.52E+07	1.21E+06
X-326	25-4	2	1	10-Oct-03	36	2.72E+09	7.56E+07	1.62E+06
X-326	25-4	2	2	10-Oct-03	163.5	1.24E+10	3.43E+08	7.36E+06
X-326	25-4	2	3	10-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	2	4	10-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	2	5	10-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	2	6	10-Oct-03	72	5.44E+09	1.51E+08	3.24E+06
X-326	25-4	2	7	10-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	2	8	10-Oct-03	174	1.32E+10	3.65E+08	7.83E+06
X-326	25-4	2	9	10-Oct-03	91.5	6.92E+09	1.92E+08	4.12E+06
X-326	25-4	2	10	10-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	2	11	10-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	2	12	10-Oct-03	63	4.76E+09	1.32E+08	2.84E+06
X-326	25-4	3	1	10-Apr-11	5	3.13E+08	1.05E+07	4.87E+05
X-326	25-4	3	2	10-Apr-11	6	3.76E+08	1.26E+07	5.85E+05
X-326	25-4	3	3	10-Apr-11	6	3.76E+08	1.26E+07	5.85E+05
X-326	25-4	3	4	10-Apr-11	9	5.64E+08	1.89E+07	8.77E+05
X-326	25-4	3	5	10-Apr-11	6	3.76E+08	1.26E+07	5.85E+05
X-326	25-4	3	6	10-Apr-11	6	3.76E+08	1.26E+07	5.85E+05
X-326	25-4	3	7	10-Apr-11	6	3.76E+08	1.26E+07	5.85E+05
X-326	25-4	3	8	10-Apr-11	9	5.64E+08	1.89E+07	8.77E+05
X-326	25-4	3	9	10-Apr-11	6	3.76E+08	1.26E+07	5.85E+05
X-326	25-4	3	10	10-Apr-11	6	3.76E+08	1.26E+07	5.85E+05
X-326	25-4	3	11	10-Apr-11	6	3.76E+08	1.26E+07	5.85E+05
X-326	25-4	3	12	10-Apr-11	6	3.76E+08	1.26E+07	5.85E+05
X-326	25-4	4	1	22-Mar-11	8	5.64E+08	1.68E+07	3.81E+05
X-326	25-4	4	2	22-Mar-11	8	5.64E+08	1.68E+07	3.81E+05
X-326	25-4	4	3	22-Mar-11	11	7.75E+08	2.31E+07	5.23E+05
X-326	25-4	4	4	22-Mar-11	6	4.23E+08	1.26E+07	2.85E+05
X-326	25-4	4	5	22-Mar-11	5	3.52E+08	1.05E+07	2.38E+05
X-326	25-4	4	6	22-Mar-11	8	5.64E+08	1.68E+07	3.81E+05
X-326	25-4	4	7	22-Mar-11	8	5.64E+08	1.68E+07	3.81E+05
X-326	25-4	4	8	22-Mar-11	11	7.75E+08	2.31E+07	5.23E+05
X-326	25-4	4	9	22-Mar-11	15	1.06E+09	3.15E+07	7.14E+05
X-326	25-4	4	10	22-Mar-11	9	6.34E+08	1.89E+07	4.28E+05
X-326	25-4	4	11	22-Mar-11	14	9.86E+08	2.94E+07	6.66E+05
X-326	25-4	4	12	22-Mar-11	8	5.64E+08	1.68E+07	3.81E+05
X-326	25-4	5	1	27-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	5	2	27-Jan-04	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-4	5	3	27-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	5	4	27-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	5	5	27-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	5	6	27-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	5	7	27-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	5	8	27-Jan-04	111	7.02E+09	2.33E+08	1.05E+07
X-326	25-4	5	9	27-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	5	10	27-Jan-04	282	1.78E+10	5.92E+08	2.66E+07
X-326	25-4	5	11	27-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	5	12	27-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	6	1	08-Oct-03	16.5	1.16E+09	3.47E+07	8.28E+05
X-326	25-4	6	2	08-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	6	3	08-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	6	4	08-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	6	5	08-Oct-03	127.5	8.98E+09	2.68E+08	6.40E+06
X-326	25-4	6	6	08-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	6	7	08-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	6	8	08-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	6	9	08-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	6	10	08-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	6	11	08-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	6	12	08-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	7	1	11-Mar-11	8	5.06E+08	1.68E+07	7.27E+05
X-326	25-4	7	2	11-Mar-11	9	5.69E+08	1.89E+07	8.18E+05
X-326	25-4	7	3	11-Mar-11	8	5.06E+08	1.68E+07	7.27E+05
X-326	25-4	7	4	11-Mar-11	8	5.06E+08	1.68E+07	7.27E+05
X-326	25-4	7	5	11-Mar-11	15	9.49E+08	3.15E+07	1.36E+06
X-326	25-4	7	6	11-Mar-11	107	6.77E+09	2.25E+08	9.73E+06
X-326	25-4	7	7	11-Mar-11	8	5.06E+08	1.68E+07	7.27E+05
X-326	25-4	7	8	11-Mar-11	9	5.69E+08	1.89E+07	8.18E+05
X-326	25-4	7	9	11-Mar-11	8	5.06E+08	1.68E+07	7.27E+05
X-326	25-4	7	10	11-Mar-11	8	5.06E+08	1.68E+07	7.27E+05
X-326	25-4	7	11	11-Mar-11	12	7.59E+08	2.52E+07	1.09E+06
X-326	25-4	7	12	11-Mar-11	12	7.59E+08	2.52E+07	1.09E+06
X-326	25-4	8	1	24-Sep-10	5	3.44E+08	1.05E+07	2.69E+05
X-326	25-4	8	2	24-Sep-10	5	3.44E+08	1.05E+07	2.69E+05
X-326	25-4	8	3	24-Sep-10	8	5.51E+08	1.68E+07	4.30E+05
X-326	25-4	8	4	24-Sep-10	6	4.13E+08	1.26E+07	3.22E+05
X-326	25-4	8	5	24-Sep-10	6	4.13E+08	1.26E+07	3.22E+05
X-326	25-4	8	6	24-Sep-10	5	3.44E+08	1.05E+07	2.69E+05
X-326	25-4	8	7	24-Sep-10	6	4.13E+08	1.26E+07	3.22E+05
X-326	25-4	8	8	24-Sep-10	5	3.44E+08	1.05E+07	2.69E+05
X-326	25-4	8	9	24-Sep-10	8	5.51E+08	1.68E+07	4.30E+05
X-326	25-4	8	10	24-Sep-10	6	4.13E+08	1.26E+07	3.22E+05
X-326	25-4	8	11	24-Sep-10	6	4.13E+08	1.26E+07	3.22E+05
X-326	25-4	8	12	24-Sep-10	8	5.51E+08	1.68E+07	4.30E+05
X-326	25-4	9	1	28-Aug-10	8	5.06E+08	1.68E+07	7.02E+05
X-326	25-4	9	2	28-Aug-10	5	3.16E+08	1.05E+07	4.39E+05
X-326	25-4	9	3	28-Aug-10	6	3.80E+08	1.26E+07	5.26E+05
X-326	25-4	9	4	28-Aug-10	6	3.80E+08	1.26E+07	5.26E+05
X-326	25-4	9	5	28-Aug-10	8	5.06E+08	1.68E+07	7.02E+05
X-326	25-4	9	6	28-Aug-10	9	5.69E+08	1.89E+07	7.89E+05
X-326	25-4	9	7	28-Aug-10	9	5.69E+08	1.89E+07	7.89E+05
X-326	25-4	9	8	28-Aug-10	8	5.06E+08	1.68E+07	7.02E+05
X-326	25-4	9	9	28-Aug-10	6	3.80E+08	1.26E+07	5.26E+05

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-4	9	10	28-Aug-10	5	3.16E+08	1.05E+07	4.39E+05
X-326	25-4	9	11	28-Aug-10	5	3.16E+08	1.05E+07	4.39E+05
X-326	25-4	9	12	28-Aug-10	5	3.16E+08	1.05E+07	4.39E+05
X-326	25-4	10	1	06-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	10	2	06-Oct-03	234	1.65E+10	4.91E+08	1.30E+07
X-326	25-4	10	3	06-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	10	4	06-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	10	5	06-Oct-03	6	4.23E+08	1.26E+07	3.33E+05
X-326	25-4	10	6	06-Oct-03	205.5	1.45E+10	4.32E+08	1.14E+07
X-326	25-4	10	7	06-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	10	8	06-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	10	9	06-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	10	10	06-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	10	11	06-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	10	12	06-Oct-03	114	8.03E+09	2.39E+08	6.33E+06
X-326	25-4	11	1	15-Jul-10	8	4.96E+08	1.68E+07	6.77E+05
X-326	25-4	11	2	15-Jul-10	9	5.58E+08	1.89E+07	7.61E+05
X-326	25-4	11	3	15-Jul-10	6	3.72E+08	1.26E+07	5.07E+05
X-326	25-4	11	4	15-Jul-10	8	4.96E+08	1.68E+07	6.77E+05
X-326	25-4	11	5	15-Jul-10	14	8.68E+08	2.94E+07	1.18E+06
X-326	25-4	11	6	15-Jul-10	9	5.58E+08	1.89E+07	7.61E+05
X-326	25-4	11	7	15-Jul-10	8	4.96E+08	1.68E+07	6.77E+05
X-326	25-4	11	8	15-Jul-10	9	5.58E+08	1.89E+07	7.61E+05
X-326	25-4	11	9	15-Jul-10	6	3.72E+08	1.26E+07	5.07E+05
X-326	25-4	11	10	15-Jul-10	6	3.72E+08	1.26E+07	5.07E+05
X-326	25-4	11	11	15-Jul-10	8	4.96E+08	1.68E+07	6.77E+05
X-326	25-4	11	12	15-Jul-10	9	5.58E+08	1.89E+07	7.61E+05
X-326	25-4	12	1	02-Oct-03	228	1.52E+10	4.79E+08	1.33E+07
X-326	25-4	12	2	02-Oct-03	73.5	4.90E+09	1.54E+08	4.28E+06
X-326	25-4	12	3	02-Oct-03	21	1.40E+09	4.41E+07	1.22E+06
X-326	25-4	12	4	02-Oct-03	393	2.62E+10	8.25E+08	2.29E+07
X-326	25-4	12	5	02-Oct-03	97.5	6.50E+09	2.05E+08	5.68E+06
X-326	25-4	12	6	02-Oct-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	12	7	02-Oct-03	289.5	1.93E+10	6.08E+08	1.69E+07
X-326	25-4	12	8	02-Oct-03	39	2.60E+09	8.19E+07	2.27E+06
X-326	25-4	12	9	02-Oct-03	259.5	1.73E+10	5.45E+08	1.51E+07
X-326	25-4	12	10	02-Oct-03	148.5	9.90E+09	3.12E+08	8.65E+06
X-326	25-4	12	11	02-Oct-03	40.5	2.70E+09	8.51E+07	2.36E+06
X-326	25-4	12	12	02-Oct-03	354	2.36E+10	7.43E+08	2.06E+07
X-326	25-4	13	1	11-Aug-10	8	3.82E+08	1.68E+07	6.52E+05
X-326	25-4	13	2	11-Aug-10	8	3.82E+08	1.68E+07	6.52E+05
X-326	25-4	13	3	11-Aug-10	11	5.25E+08	2.31E+07	8.96E+05
X-326	25-4	13	4	11-Aug-10	6	2.86E+08	1.26E+07	4.89E+05
X-326	25-4	13	5	11-Aug-10	8	3.82E+08	1.68E+07	6.52E+05
X-326	25-4	13	6	11-Aug-10	9	4.29E+08	1.89E+07	7.33E+05
X-326	25-4	13	7	11-Aug-10	8	3.82E+08	1.68E+07	6.52E+05
X-326	25-4	13	8	11-Aug-10	8	3.82E+08	1.68E+07	6.52E+05
X-326	25-4	13	9	11-Aug-10	9	4.29E+08	1.89E+07	7.33E+05
X-326	25-4	13	10	11-Aug-10	6	2.86E+08	1.26E+07	4.89E+05
X-326	25-4	13	11	11-Aug-10	8	3.82E+08	1.68E+07	6.52E+05
X-326	25-4	13	12	11-Aug-10	9	4.29E+08	1.89E+07	7.33E+05
X-326	25-4	14	1	10-Sep-03	73.5	5.77E+09	1.54E+08	4.48E+06
X-326	25-4	14	2	10-Sep-03	187.5	1.47E+10	3.94E+08	1.14E+07
X-326	25-4	14	3	10-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	14	4	10-Sep-03	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-4	14	5	10-Sep-03	93	7.30E+09	1.95E+08	5.67E+06
X-326	25-4	14	6	10-Sep-03	286.5	2.25E+10	6.02E+08	1.75E+07
X-326	25-4	14	7	10-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	14	8	10-Sep-03	72	5.65E+09	1.51E+08	4.39E+06
X-326	25-4	14	9	10-Sep-03	189	1.48E+10	3.97E+08	1.15E+07
X-326	25-4	14	10	10-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	14	11	10-Sep-03	136.5	1.07E+10	2.87E+08	8.33E+06
X-326	25-4	14	12	10-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	15	1	11-Sep-10	6	3.88E+08	1.26E+07	4.64E+05
X-326	25-4	15	2	11-Sep-10	6	3.88E+08	1.26E+07	4.64E+05
X-326	25-4	15	3	11-Sep-10	8	5.17E+08	1.68E+07	6.19E+05
X-326	25-4	15	4	11-Sep-10	6	3.88E+08	1.26E+07	4.64E+05
X-326	25-4	15	5	11-Sep-10	9	5.81E+08	1.89E+07	6.97E+05
X-326	25-4	15	6	11-Sep-10	8	5.17E+08	1.68E+07	6.19E+05
X-326	25-4	15	7	11-Sep-10	6	3.88E+08	1.26E+07	4.64E+05
X-326	25-4	15	8	11-Sep-10	8	5.17E+08	1.68E+07	6.19E+05
X-326	25-4	15	9	11-Sep-10	9	5.81E+08	1.89E+07	6.97E+05
X-326	25-4	15	10	11-Sep-10	9	5.81E+08	1.89E+07	6.97E+05
X-326	25-4	15	11	11-Sep-10	11	7.10E+08	2.31E+07	8.51E+05
X-326	25-4	15	12	11-Sep-10	23	1.49E+09	4.83E+07	1.78E+06
X-326	25-4	16	1	09-Sep-03	4.5	4.29E+08	9.45E+06	2.87E+05
X-326	25-4	16	2	09-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	16	3	09-Sep-03	57	5.44E+09	1.20E+08	3.64E+06
X-326	25-4	16	4	09-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	16	5	09-Sep-03	127.5	1.22E+10	2.68E+08	8.13E+06
X-326	25-4	16	6	09-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	16	7	09-Sep-03	132	1.26E+10	2.77E+08	8.42E+06
X-326	25-4	16	8	09-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	16	9	09-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	16	10	09-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	16	11	09-Sep-03	240	2.29E+10	5.04E+08	1.53E+07
X-326	25-4	16	12	09-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	17	1	18-Feb-04	97.5	6.30E+09	2.05E+08	7.35E+06
X-326	25-4	17	2	18-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	17	3	18-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	17	4	18-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	17	5	18-Feb-04	267	1.72E+10	5.61E+08	2.01E+07
X-326	25-4	17	6	18-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	17	7	18-Feb-04	124.5	8.04E+09	2.61E+08	9.39E+06
X-326	25-4	17	8	18-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	17	9	18-Feb-04	199.5	1.29E+10	4.19E+08	1.50E+07
X-326	25-4	17	10	18-Feb-04	43.5	2.81E+09	9.14E+07	3.28E+06
X-326	25-4	17	11	18-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	17	12	18-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	18	1	08-Sep-03	25.5	1.52E+09	5.36E+07	1.70E+06
X-326	25-4	18	2	08-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	18	3	26-Aug-04	51	3.04E+09	1.07E+08	3.40E+06
X-326	25-4	18	4	08-Sep-03	100.5	5.99E+09	2.11E+08	6.70E+06
X-326	25-4	18	5	08-Sep-03	295.5	1.76E+10	6.21E+08	1.97E+07
X-326	25-4	18	6	08-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	18	7	08-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	18	8	08-Sep-03	136.5	8.14E+09	2.87E+08	9.10E+06
X-326	25-4	18	9	08-Sep-03	265.5	1.58E+10	5.58E+08	1.77E+07
X-326	25-4	18	10	08-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	18	11	08-Sep-03	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-4	18	12	08-Sep-03	244.5	1.46E+10	5.13E+08	1.63E+07
X-326	25-4	19	1	04-Sep-03	4.5	2.91E+08	9.45E+06	3.26E+05
X-326	25-4	19	2	04-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	19	3	04-Sep-03	282	1.82E+10	5.92E+08	2.04E+07
X-326	25-4	19	4	04-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	19	5	04-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	19	6	04-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	19	7	04-Sep-03	76.5	4.94E+09	1.61E+08	5.54E+06
X-326	25-4	19	8	04-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	19	9	04-Sep-03	133.5	8.62E+09	2.80E+08	9.67E+06
X-326	25-4	19	10	04-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	19	11	04-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	19	12	04-Sep-03	27	1.74E+09	5.67E+07	1.96E+06
X-326	25-4	20	1	05-Sep-03	15	9.39E+08	3.15E+07	1.04E+06
X-326	25-4	20	2	05-Sep-03	253.5	1.59E+10	5.32E+08	1.76E+07
X-326	25-4	20	3	05-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	20	4	05-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	20	5	05-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	20	6	05-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	20	7	05-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	20	8	05-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	20	9	05-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	20	10	05-Sep-03	67.5	4.23E+09	1.42E+08	4.69E+06
X-326	25-4	20	11	05-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-4	20	12	05-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	1	1	22-Mar-11	17	1.23E+09	3.57E+07	7.40E+05
X-326	25-5	1	2	22-Mar-11	14	1.01E+09	2.94E+07	6.09E+05
X-326	25-5	1	3	22-Mar-11	32	2.31E+09	6.72E+07	1.39E+06
X-326	25-5	1	4	22-Mar-11	24	1.73E+09	5.04E+07	1.04E+06
X-326	25-5	1	5	22-Mar-11	27	1.95E+09	5.67E+07	1.17E+06
X-326	25-5	1	6	22-Mar-11	38	2.74E+09	7.98E+07	1.65E+06
X-326	25-5	1	7	22-Mar-11	8	5.77E+08	1.68E+07	3.48E+05
X-326	25-5	1	8	22-Mar-11	6	4.33E+08	1.26E+07	2.61E+05
X-326	25-5	1	9	22-Mar-11	6	4.33E+08	1.26E+07	2.61E+05
X-326	25-5	1	10	22-Mar-11	5	3.60E+08	1.05E+07	2.18E+05
X-326	25-5	1	11	22-Mar-11	6	4.33E+08	1.26E+07	2.61E+05
X-326	25-5	1	12	22-Mar-11	8	5.77E+08	1.68E+07	3.48E+05
X-326	25-5	2	1	26-Mar-10	9	6.58E+08	1.89E+07	1.56E+05
X-326	25-5	2	2	26-Mar-10	9	6.58E+08	1.89E+07	1.56E+05
X-326	25-5	2	3	26-Mar-10	12	8.77E+08	2.52E+07	2.08E+05
X-326	25-5	2	4	26-Mar-10	9	6.58E+08	1.89E+07	1.56E+05
X-326	25-5	2	5	26-Mar-10	9	6.58E+08	1.89E+07	1.56E+05
X-326	25-5	2	6	26-Mar-10	14	1.02E+09	2.94E+07	2.43E+05
X-326	25-5	2	7	26-Mar-10	14	1.02E+09	2.94E+07	2.43E+05
X-326	25-5	2	8	26-Mar-10	11	8.04E+08	2.31E+07	1.91E+05
X-326	25-5	2	9	26-Mar-10	14	1.02E+09	2.94E+07	2.43E+05
X-326	25-5	2	10	26-Mar-10	11	8.04E+08	2.31E+07	1.91E+05
X-326	25-5	2	11	26-Mar-10	23	1.68E+09	4.83E+07	3.99E+05
X-326	25-5	2	12	26-Mar-10	48	3.51E+09	1.01E+08	8.34E+05
X-326	25-5	3	1	14-Jul-10	6	3.72E+08	1.26E+07	2.52E+05
X-326	25-5	3	2	14-Jul-10	6	3.72E+08	1.26E+07	2.52E+05
X-326	25-5	3	3	14-Jul-10	8	4.96E+08	1.68E+07	3.36E+05
X-326	25-5	3	4	14-Jul-10	6	3.72E+08	1.26E+07	2.52E+05
X-326	25-5	3	5	14-Jul-10	6	3.72E+08	1.26E+07	2.52E+05
X-326	25-5	3	6	14-Jul-10	6	3.72E+08	1.26E+07	2.52E+05

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-5	3	7	14-Jul-10	5	3.10E+08	1.05E+07	2.10E+05
X-326	25-5	3	8	14-Jul-10	5	3.10E+08	1.05E+07	2.10E+05
X-326	25-5	3	9	14-Jul-10	6	3.72E+08	1.26E+07	2.52E+05
X-326	25-5	3	10	14-Jul-10	5	3.10E+08	1.05E+07	2.10E+05
X-326	25-5	3	11	14-Jul-10	6	3.72E+08	1.26E+07	2.52E+05
X-326	25-5	3	12	14-Jul-10	6	3.72E+08	1.26E+07	2.52E+05
X-326	25-5	4	1	23-Jul-10	8	6.99E+08	1.68E+07	1.39E+05
X-326	25-5	4	2	23-Jul-10	8	6.99E+08	1.68E+07	1.39E+05
X-326	25-5	4	3	23-Jul-10	12	1.05E+09	2.52E+07	2.08E+05
X-326	25-5	4	4	23-Jul-10	8	6.99E+08	1.68E+07	1.39E+05
X-326	25-5	4	5	23-Jul-10	11	9.61E+08	2.31E+07	1.91E+05
X-326	25-5	4	6	23-Jul-10	12	1.05E+09	2.52E+07	2.08E+05
X-326	25-5	4	7	23-Jul-10	6	5.24E+08	1.26E+07	1.04E+05
X-326	25-5	4	8	23-Jul-10	6	5.24E+08	1.26E+07	1.04E+05
X-326	25-5	4	9	23-Jul-10	6	5.24E+08	1.26E+07	1.04E+05
X-326	25-5	4	10	23-Jul-10	6	5.24E+08	1.26E+07	1.04E+05
X-326	25-5	4	11	23-Jul-10	8	6.99E+08	1.68E+07	1.39E+05
X-326	25-5	4	12	23-Jul-10	6	5.24E+08	1.26E+07	1.04E+05
X-326	25-5	5	1	30-Nov-10	8	5.84E+08	1.68E+07	3.23E+05
X-326	25-5	5	2	30-Nov-10	8	5.84E+08	1.68E+07	3.23E+05
X-326	25-5	5	3	30-Nov-10	9	6.56E+08	1.89E+07	3.63E+05
X-326	25-5	5	4	30-Nov-10	9	6.56E+08	1.89E+07	3.63E+05
X-326	25-5	5	5	30-Nov-10	9	6.56E+08	1.89E+07	3.63E+05
X-326	25-5	5	6	30-Nov-10	12	8.75E+08	2.52E+07	4.84E+05
X-326	25-5	5	7	30-Nov-10	9	6.56E+08	1.89E+07	3.63E+05
X-326	25-5	5	8	30-Nov-10	9	6.56E+08	1.89E+07	3.63E+05
X-326	25-5	5	9	30-Nov-10	12	8.75E+08	2.52E+07	4.84E+05
X-326	25-5	5	10	30-Nov-10	9	6.56E+08	1.89E+07	3.63E+05
X-326	25-5	5	11	30-Nov-10	9	6.56E+08	1.89E+07	3.63E+05
X-326	25-5	5	12	30-Nov-10	8	5.84E+08	1.68E+07	3.23E+05
X-326	25-5	6	1	12-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	6	2	12-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	6	3	12-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	6	4	12-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	6	5	12-Jan-04	84	4.73E+09	1.76E+08	4.16E+07
X-326	25-5	6	6	12-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	6	7	12-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	6	8	12-Jan-04	121.5	6.85E+09	2.55E+08	6.01E+07
X-326	25-5	6	9	12-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	6	10	12-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	6	11	12-Jan-04	225	1.27E+10	4.73E+08	1.11E+08
X-326	25-5	6	12	12-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	7	1	10-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	7	2	10-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	7	3	10-Nov-03	6	4.48E+08	1.26E+07	2.35E+05
X-326	25-5	7	4	10-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	7	5	10-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	7	6	30-Aug-04	20	1.49E+09	4.20E+07	7.83E+05
X-326	25-5	7	7	10-Nov-03	6	4.48E+08	1.26E+07	2.35E+05
X-326	25-5	7	8	10-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	7	9	10-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	7	10	10-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	7	11	30-Aug-04	98	7.32E+09	2.06E+08	3.83E+06
X-326	25-5	7	12	10-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	1	06-Jan-04	111	7.48E+09	2.33E+08	2.36E+06

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-5	8	2	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	3	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	4	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	5	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	6	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	7	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	8	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	9	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	10	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	11	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	8	12	06-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	9	1	06-Oct-10	3	1.92E+08	6.30E+06	1.13E+05
X-326	25-5	9	2	06-Oct-10	2	1.28E+08	4.20E+06	7.54E+04
X-326	25-5	9	3	06-Oct-10	3	1.92E+08	6.30E+06	1.13E+05
X-326	25-5	9	4	06-Oct-10	2	1.28E+08	4.20E+06	7.54E+04
X-326	25-5	9	5	06-Oct-10	2	1.28E+08	4.20E+06	7.54E+04
X-326	25-5	9	6	06-Oct-10	2	1.28E+08	4.20E+06	7.54E+04
X-326	25-5	9	7	06-Oct-10	3	1.92E+08	6.30E+06	1.13E+05
X-326	25-5	9	8	06-Oct-10	3	1.92E+08	6.30E+06	1.13E+05
X-326	25-5	9	9	06-Oct-10	3	1.92E+08	6.30E+06	1.13E+05
X-326	25-5	9	10	06-Oct-10	3	1.92E+08	6.30E+06	1.13E+05
X-326	25-5	9	11	06-Oct-10	3	1.92E+08	6.30E+06	1.13E+05
X-326	25-5	9	12	06-Oct-10	3	1.92E+08	6.30E+06	1.13E+05
X-326	25-5	10	1	02-Jan-04	286.5	2.19E+10	6.02E+08	2.10E+08
X-326	25-5	10	2	02-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	10	3	02-Jan-04	156	1.19E+10	3.28E+08	1.15E+08
X-326	25-5	10	4	02-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	10	5	02-Jan-04	102	7.81E+09	2.14E+08	7.49E+07
X-326	25-5	10	6	02-Jan-04	21	1.61E+09	4.41E+07	1.54E+07
X-326	25-5	10	7	02-Jan-04	153	1.17E+10	3.21E+08	1.12E+08
X-326	25-5	10	8	02-Jan-04	40.5	3.10E+09	8.51E+07	2.97E+07
X-326	25-5	10	9	02-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	10	10	02-Jan-04	226.5	1.73E+10	4.76E+08	1.66E+08
X-326	25-5	10	11	02-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	10	12	02-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	11	1	16-Jul-10	6	4.65E+08	1.26E+07	2.18E+05
X-326	25-5	11	2	16-Jul-10	6	4.65E+08	1.26E+07	2.18E+05
X-326	25-5	11	3	16-Jul-10	9	6.98E+08	1.89E+07	3.26E+05
X-326	25-5	11	4	16-Jul-10	5	3.88E+08	1.05E+07	1.81E+05
X-326	25-5	11	5	16-Jul-10	5	3.88E+08	1.05E+07	1.81E+05
X-326	25-5	11	6	16-Jul-10	8	6.20E+08	1.68E+07	2.90E+05
X-326	25-5	11	7	16-Jul-10	9	6.98E+08	1.89E+07	3.26E+05
X-326	25-5	11	8	16-Jul-10	11	8.53E+08	2.31E+07	3.99E+05
X-326	25-5	11	9	16-Jul-10	17	1.32E+09	3.57E+07	6.16E+05
X-326	25-5	11	10	16-Jul-10	8	6.20E+08	1.68E+07	2.90E+05
X-326	25-5	11	11	16-Jul-10	8	6.20E+08	1.68E+07	2.90E+05
X-326	25-5	11	12	16-Jul-10	11	8.53E+08	2.31E+07	3.99E+05
X-326	25-5	12	1	20-May-10	8	6.05E+08	1.68E+07	2.93E+05
X-326	25-5	12	2	20-May-10	6	4.54E+08	1.26E+07	2.20E+05
X-326	25-5	12	3	20-May-10	9	6.80E+08	1.89E+07	3.30E+05
X-326	25-5	12	4	20-May-10	9	6.80E+08	1.89E+07	3.30E+05
X-326	25-5	12	5	20-May-10	8	6.05E+08	1.68E+07	2.93E+05
X-326	25-5	12	6	20-May-10	8	6.05E+08	1.68E+07	2.93E+05
X-326	25-5	12	7	20-May-10	8	6.05E+08	1.68E+07	2.93E+05
X-326	25-5	12	8	20-May-10	9	6.80E+08	1.89E+07	3.30E+05

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-5	12	9	20-May-10	9	6.80E+08	1.89E+07	3.30E+05
X-326	25-5	12	10	20-May-10	8	6.05E+08	1.68E+07	2.93E+05
X-326	25-5	12	11	20-May-10	9	6.80E+08	1.89E+07	3.30E+05
X-326	25-5	12	12	20-May-10	8	6.05E+08	1.68E+07	2.93E+05
X-326	25-5	13	1	13-Nov-03	30	2.48E+09	6.30E+07	1.04E+06
X-326	25-5	13	2	13-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	13	3	13-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	13	4	13-Nov-03	136.5	1.13E+10	2.87E+08	4.73E+06
X-326	25-5	13	5	13-Nov-03	445.5	3.68E+10	9.36E+08	1.54E+07
X-326	25-5	13	6	13-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	13	7	13-Nov-03	252	2.08E+10	5.29E+08	8.73E+06
X-326	25-5	13	8	13-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	13	9	13-Nov-03	142.5	1.18E+10	2.99E+08	4.94E+06
X-326	25-5	13	10	13-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	13	11	13-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	13	12	13-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	14	1	08-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	14	2	08-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	14	3	08-Dec-03	70.5	4.12E+09	1.48E+08	1.97E+06
X-326	25-5	14	4	08-Dec-03	327	1.91E+10	6.87E+08	9.13E+06
X-326	25-5	14	5	08-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	14	6	27-Aug-04	17	9.94E+08	3.57E+07	6.86E+05
X-326	25-5	14	7	08-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	14	8	08-Dec-03	280.5	1.64E+10	5.89E+08	7.83E+06
X-326	25-5	14	9	08-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	14	10	08-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	14	11	08-Dec-03	6	3.51E+08	1.26E+07	1.68E+05
X-326	25-5	14	12	08-Dec-03	265.5	1.55E+10	5.58E+08	7.41E+06
X-326	25-5	15	1	14-Nov-03	25.5	1.49E+09	5.36E+07	8.53E+05
X-326	25-5	15	2	14-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	15	3	14-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	15	4	14-Nov-03	52.5	3.07E+09	1.10E+08	1.76E+06
X-326	25-5	15	5	14-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	15	6	14-Nov-03	468	2.74E+10	9.83E+08	1.56E+07
X-326	25-5	15	7	14-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	15	8	14-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	15	9	14-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	15	10	14-Nov-03	282	1.65E+10	5.92E+08	9.43E+06
X-326	25-5	15	11	14-Nov-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	15	12	14-Nov-03	156	9.12E+09	3.28E+08	5.22E+06
X-326	25-5	16	1	05-Dec-03	300	2.21E+10	6.30E+08	3.82E+08
X-326	25-5	16	2	05-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	16	3	05-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	16	4	05-Dec-03	345	2.55E+10	7.25E+08	4.39E+08
X-326	25-5	16	5	05-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	16	6	05-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	16	7	05-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	16	8	05-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	16	9	05-Dec-03	102	7.53E+09	2.14E+08	1.30E+08
X-326	25-5	16	10	05-Dec-03	271.5	2.00E+10	5.70E+08	3.45E+08
X-326	25-5	16	11	05-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	16	12	05-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	17	1	08-Nov-10	8	6.28E+08	1.68E+07	2.55E+05
X-326	25-5	17	2	08-Nov-10	9	7.06E+08	1.89E+07	2.87E+05
X-326	25-5	17	3	08-Nov-10	8	6.28E+08	1.68E+07	2.55E+05

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-5	17	4	08-Nov-10	9	7.06E+08	1.89E+07	2.87E+05
X-326	25-5	17	5	08-Nov-10	6	4.71E+08	1.26E+07	1.91E+05
X-326	25-5	17	6	08-Nov-10	8	6.28E+08	1.68E+07	2.55E+05
X-326	25-5	17	7	08-Nov-10	8	6.28E+08	1.68E+07	2.55E+05
X-326	25-5	17	8	08-Nov-10	11	8.63E+08	2.31E+07	3.50E+05
X-326	25-5	17	9	08-Nov-10	9	7.06E+08	1.89E+07	2.87E+05
X-326	25-5	17	10	08-Nov-10	8	6.28E+08	1.68E+07	2.55E+05
X-326	25-5	17	11	08-Nov-10	8	6.28E+08	1.68E+07	2.55E+05
X-326	25-5	17	12	08-Nov-10	9	7.06E+08	1.89E+07	2.87E+05
X-326	25-5	18	1	20-Jan-11	5	3.88E+08	1.05E+07	1.63E+05
X-326	25-5	18	2	20-Jan-11	6	4.65E+08	1.26E+07	1.96E+05
X-326	25-5	18	3	20-Jan-11	6	4.65E+08	1.26E+07	1.96E+05
X-326	25-5	18	4	20-Jan-11	6	4.65E+08	1.26E+07	1.96E+05
X-326	25-5	18	5	20-Jan-11	8	6.20E+08	1.68E+07	2.61E+05
X-326	25-5	18	6	20-Jan-11	9	6.98E+08	1.89E+07	2.94E+05
X-326	25-5	18	7	20-Jan-11	8	6.20E+08	1.68E+07	2.61E+05
X-326	25-5	18	8	20-Jan-11	6	4.65E+08	1.26E+07	1.96E+05
X-326	25-5	18	9	20-Jan-11	6	4.65E+08	1.26E+07	1.96E+05
X-326	25-5	18	10	20-Jan-11	6	4.65E+08	1.26E+07	1.96E+05
X-326	25-5	18	11	20-Jan-11	8	6.20E+08	1.68E+07	2.61E+05
X-326	25-5	18	12	20-Jan-11	8	6.20E+08	1.68E+07	2.61E+05
X-326	25-5	19	1	02-Dec-03	42	3.30E+09	8.82E+07	1.29E+06
X-326	25-5	19	2	02-Dec-03	153	1.20E+10	3.21E+08	4.69E+06
X-326	25-5	19	3	02-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	19	4	02-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	19	5	02-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	19	6	02-Dec-03	154.5	1.21E+10	3.24E+08	4.74E+06
X-326	25-5	19	7	02-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	19	8	02-Dec-03	244.5	1.92E+10	5.13E+08	7.50E+06
X-326	25-5	19	9	02-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	19	10	02-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	19	11	02-Dec-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-5	19	12	02-Dec-03	273	2.14E+10	5.73E+08	8.37E+06
X-326	25-5	20	1	24-Jan-11	11	8.74E+08	2.31E+07	3.22E+05
X-326	25-5	20	2	24-Jan-11	12	9.54E+08	2.52E+07	3.51E+05
X-326	25-5	20	3	24-Jan-11	11	8.74E+08	2.31E+07	3.22E+05
X-326	25-5	20	4	24-Jan-11	14	1.11E+09	2.94E+07	4.10E+05
X-326	25-5	20	5	24-Jan-11	14	1.11E+09	2.94E+07	4.10E+05
X-326	25-5	20	6	24-Jan-11	12	9.54E+08	2.52E+07	3.51E+05
X-326	25-5	20	7	24-Jan-11	12	9.54E+08	2.52E+07	3.51E+05
X-326	25-5	20	8	24-Jan-11	11	8.74E+08	2.31E+07	3.22E+05
X-326	25-5	20	9	24-Jan-11	14	1.11E+09	2.94E+07	4.10E+05
X-326	25-5	20	10	24-Jan-11	11	8.74E+08	2.31E+07	3.22E+05
X-326	25-5	20	11	24-Jan-11	14	1.11E+09	2.94E+07	4.10E+05
X-326	25-5	20	12	24-Jan-11	9	7.15E+08	1.89E+07	2.64E+05
X-326	25-6	1	1	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	1	2	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	1	3	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	1	4	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	1	5	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	1	6	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	1	7	21-Jan-04	150	8.45E+09	3.15E+08	8.21E+07
X-326	25-6	1	8	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	1	9	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	1	10	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-6	1	11	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	1	12	21-Jan-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	2	1	06-Apr-04	93	7.79E+09	1.95E+08	2.89E+07
X-326	25-6	2	2	06-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	2	3	06-Apr-04	34.5	2.89E+09	7.25E+07	1.07E+07
X-326	25-6	2	4	06-Apr-04	231	1.94E+10	4.85E+08	7.18E+07
X-326	25-6	2	5	06-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	2	6	06-Apr-04	66	5.53E+09	1.39E+08	2.05E+07
X-326	25-6	2	7	06-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	2	8	06-Apr-04	286.5	2.40E+10	6.02E+08	8.90E+07
X-326	25-6	2	9	06-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	2	10	06-Apr-04	79.5	6.66E+09	1.67E+08	2.47E+07
X-326	25-6	2	11	06-Apr-04	312	2.61E+10	6.55E+08	9.70E+07
X-326	25-6	2	12	06-Apr-04	22.5	1.89E+09	4.73E+07	6.99E+06
X-326	25-6	3	1	31-Mar-09	10.5	8.04E+08	2.21E+07	3.11E+06
X-326	25-6	3	2	31-Mar-09	6	4.59E+08	1.26E+07	1.78E+06
X-326	25-6	3	3	31-Mar-09	6	4.59E+08	1.26E+07	1.78E+06
X-326	25-6	3	4	31-Mar-09	6	4.59E+08	1.26E+07	1.78E+06
X-326	25-6	3	5	31-Mar-09	6	4.59E+08	1.26E+07	1.78E+06
X-326	25-6	3	6	31-Mar-09	9	6.89E+08	1.89E+07	2.67E+06
X-326	25-6	3	7	31-Mar-09	6	4.59E+08	1.26E+07	1.78E+06
X-326	25-6	3	8	31-Mar-09	10.5	8.04E+08	2.21E+07	3.11E+06
X-326	25-6	3	9	31-Mar-09	9	6.89E+08	1.89E+07	2.67E+06
X-326	25-6	3	10	31-Mar-09	6	4.59E+08	1.26E+07	1.78E+06
X-326	25-6	3	11	31-Mar-09	4.5	3.44E+08	9.45E+06	1.33E+06
X-326	25-6	3	12	31-Mar-09	6	4.59E+08	1.26E+07	1.78E+06
X-326	25-6	4	1	11-Feb-09	6	6.27E+08	1.26E+07	1.46E+06
X-326	25-6	4	2	11-Feb-09	5	5.23E+08	1.05E+07	1.22E+06
X-326	25-6	4	3	11-Feb-09	8	8.36E+08	1.68E+07	1.95E+06
X-326	25-6	4	4	11-Feb-09	5	5.23E+08	1.05E+07	1.22E+06
X-326	25-6	4	5	11-Feb-09	6	6.27E+08	1.26E+07	1.46E+06
X-326	25-6	4	6	11-Feb-09	8	8.36E+08	1.68E+07	1.95E+06
X-326	25-6	4	7	11-Feb-09	6	6.27E+08	1.26E+07	1.46E+06
X-326	25-6	4	8	11-Feb-09	11	1.15E+09	2.31E+07	2.68E+06
X-326	25-6	4	9	11-Feb-09	6	6.27E+08	1.26E+07	1.46E+06
X-326	25-6	4	10	11-Feb-09	8	8.36E+08	1.68E+07	1.95E+06
X-326	25-6	4	11	11-Feb-09	8	8.36E+08	1.68E+07	1.95E+06
X-326	25-6	4	12	11-Feb-09	11	1.15E+09	2.31E+07	2.68E+06
X-326	25-6	5	1	03-Feb-04	13.5	1.03E+09	2.84E+07	1.02E+07
X-326	25-6	5	2	03-Feb-04	181.5	1.39E+10	3.81E+08	1.38E+08
X-326	25-6	5	3	03-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	5	4	03-Feb-04	69	5.28E+09	1.45E+08	5.24E+07
X-326	25-6	5	5	03-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	5	6	03-Feb-04	145.5	1.11E+10	3.06E+08	1.10E+08
X-326	25-6	5	7	03-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	5	8	03-Feb-04	139.5	1.07E+10	2.93E+08	1.06E+08
X-326	25-6	5	9	03-Feb-04	249	1.91E+10	5.23E+08	1.89E+08
X-326	25-6	5	10	03-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	5	11	03-Feb-04	145.5	1.11E+10	3.06E+08	1.10E+08
X-326	25-6	5	12	03-Feb-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	6	1	02-Feb-09	9	7.35E+08	1.89E+07	9.19E+04
X-326	25-6	6	2	02-Feb-09	7.5	6.13E+08	1.58E+07	7.65E+04
X-326	25-6	6	3	02-Feb-09	9	7.35E+08	1.89E+07	9.19E+04
X-326	25-6	6	4	02-Feb-09	6	4.90E+08	1.26E+07	6.12E+04
X-326	25-6	6	5	02-Feb-09	6	4.90E+08	1.26E+07	6.12E+04

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-6	6	6	02-Feb-09	7.5	6.13E+08	1.58E+07	7.65E+04
X-326	25-6	6	7	02-Feb-09	9	7.35E+08	1.89E+07	9.19E+04
X-326	25-6	6	8	02-Feb-09	6	4.90E+08	1.26E+07	6.12E+04
X-326	25-6	6	9	02-Feb-09	9	7.35E+08	1.89E+07	9.19E+04
X-326	25-6	6	10	02-Feb-09	13.5	1.10E+09	2.84E+07	1.38E+05
X-326	25-6	6	11	02-Feb-09	7.5	6.13E+08	1.58E+07	7.65E+04
X-326	25-6	6	12	02-Feb-09	7.5	6.13E+08	1.58E+07	7.65E+04
X-326	25-6	7	1	28-Jul-09	3	2.07E+08	6.30E+06	6.60E+05
X-326	25-6	7	2	28-Jul-09	5	3.44E+08	1.05E+07	1.10E+06
X-326	25-6	7	3	28-Jul-09	8	5.51E+08	1.68E+07	1.76E+06
X-326	25-6	7	4	28-Jul-09	11	7.58E+08	2.31E+07	2.42E+06
X-326	25-6	7	5	28-Jul-09	6	4.13E+08	1.26E+07	1.32E+06
X-326	25-6	7	6	28-Jul-09	6	4.13E+08	1.26E+07	1.32E+06
X-326	25-6	7	7	28-Jul-09	6	4.13E+08	1.26E+07	1.32E+06
X-326	25-6	7	8	28-Jul-09	5	3.44E+08	1.05E+07	1.10E+06
X-326	25-6	7	9	28-Jul-09	5	3.44E+08	1.05E+07	1.10E+06
X-326	25-6	7	10	28-Jul-09	5	3.44E+08	1.05E+07	1.10E+06
X-326	25-6	7	11	28-Jul-09	5	3.44E+08	1.05E+07	1.10E+06
X-326	25-6	7	12	28-Jul-09	6	4.13E+08	1.26E+07	1.32E+06
X-326	25-6	8	1	24-Sep-09	11	8.74E+08	2.31E+07	3.22E+06
X-326	25-6	8	2	24-Sep-09	6	4.77E+08	1.26E+07	1.76E+06
X-326	25-6	8	3	24-Sep-09	8	6.36E+08	1.68E+07	2.34E+06
X-326	25-6	8	4	24-Sep-09	11	8.74E+08	2.31E+07	3.22E+06
X-326	25-6	8	5	24-Sep-09	8	6.36E+08	1.68E+07	2.34E+06
X-326	25-6	8	6	24-Sep-09	6	4.77E+08	1.26E+07	1.76E+06
X-326	25-6	8	7	24-Sep-09	5	3.97E+08	1.05E+07	1.46E+06
X-326	25-6	8	8	24-Sep-09	6	4.77E+08	1.26E+07	1.76E+06
X-326	25-6	8	9	24-Sep-09	5	3.97E+08	1.05E+07	1.46E+06
X-326	25-6	8	10	24-Sep-09	6	4.77E+08	1.26E+07	1.76E+06
X-326	25-6	8	11	24-Sep-09	6	4.77E+08	1.26E+07	1.76E+06
X-326	25-6	8	12	24-Sep-09	8	6.36E+08	1.68E+07	2.34E+06
X-326	25-6	9	1	18-Oct-09	6	5.24E+08	1.26E+07	3.84E+06
X-326	25-6	9	2	18-Oct-09	8	6.99E+08	1.68E+07	5.12E+06
X-326	25-6	9	3	18-Oct-09	8	6.99E+08	1.68E+07	5.12E+06
X-326	25-6	9	4	18-Oct-09	8	6.99E+08	1.68E+07	5.12E+06
X-326	25-6	9	5	18-Oct-09	9	7.86E+08	1.89E+07	5.77E+06
X-326	25-6	9	6	18-Oct-09	6	5.24E+08	1.26E+07	3.84E+06
X-326	25-6	9	7	18-Oct-09	8	6.99E+08	1.68E+07	5.12E+06
X-326	25-6	9	8	18-Oct-09	8	6.99E+08	1.68E+07	5.12E+06
X-326	25-6	9	9	18-Oct-09	9	7.86E+08	1.89E+07	5.77E+06
X-326	25-6	9	10	18-Oct-09	9	7.86E+08	1.89E+07	5.77E+06
X-326	25-6	9	11	18-Oct-09	12	1.05E+09	2.52E+07	7.69E+06
X-326	25-6	9	12	18-Oct-09	6	5.24E+08	1.26E+07	3.84E+06
X-326	25-6	10	1	03-Jun-09	8	7.19E+08	1.68E+07	2.86E+06
X-326	25-6	10	2	03-Jun-09	8	7.19E+08	1.68E+07	2.86E+06
X-326	25-6	10	3	03-Jun-09	8	7.19E+08	1.68E+07	2.86E+06
X-326	25-6	10	4	03-Jun-09	5	4.49E+08	1.05E+07	1.79E+06
X-326	25-6	10	5	03-Jun-09	6	5.39E+08	1.26E+07	2.15E+06
X-326	25-6	10	6	03-Jun-09	8	7.19E+08	1.68E+07	2.86E+06
X-326	25-6	10	7	03-Jun-09	6	5.39E+08	1.26E+07	2.15E+06
X-326	25-6	10	8	03-Jun-09	6	5.39E+08	1.26E+07	2.15E+06
X-326	25-6	10	9	03-Jun-09	5	4.49E+08	1.05E+07	1.79E+06
X-326	25-6	10	10	03-Jun-09	5	4.49E+08	1.05E+07	1.79E+06
X-326	25-6	10	11	03-Jun-09	5	4.49E+08	1.05E+07	1.79E+06
X-326	25-6	10	12	03-Jun-09	6	5.39E+08	1.26E+07	2.15E+06

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-6	11	1	01-Oct-10	3	2.66E+08	6.30E+06	3.06E+04
X-326	25-6	11	2	01-Oct-10	3	2.66E+08	6.30E+06	3.06E+04
X-326	25-6	11	3	01-Oct-10	3	2.66E+08	6.30E+06	3.06E+04
X-326	25-6	11	4	01-Oct-10	3	2.66E+08	6.30E+06	3.06E+04
X-326	25-6	11	5	01-Oct-10	3	2.66E+08	6.30E+06	3.06E+04
X-326	25-6	11	6	01-Oct-10	3	2.66E+08	6.30E+06	3.06E+04
X-326	25-6	11	7	01-Oct-10	3	2.66E+08	6.30E+06	3.06E+04
X-326	25-6	11	8	01-Oct-10	5	4.43E+08	1.05E+07	5.10E+04
X-326	25-6	11	9	01-Oct-10	6	5.31E+08	1.26E+07	6.12E+04
X-326	25-6	11	10	01-Oct-10	3	2.66E+08	6.30E+06	3.06E+04
X-326	25-6	11	11	01-Oct-10	3	2.66E+08	6.30E+06	3.06E+04
X-326	25-6	11	12	01-Oct-10	5	4.43E+08	1.05E+07	5.10E+04
X-326	25-6	12	1	03-Nov-09	8	8.00E+08	1.68E+07	3.31E+06
X-326	25-6	12	2	03-Nov-09	6	6.00E+08	1.26E+07	2.48E+06
X-326	25-6	12	3	03-Nov-09	8	8.00E+08	1.68E+07	3.31E+06
X-326	25-6	12	4	03-Nov-09	6	6.00E+08	1.26E+07	2.48E+06
X-326	25-6	12	5	03-Nov-09	9	9.00E+08	1.89E+07	3.72E+06
X-326	25-6	12	6	03-Nov-09	9	9.00E+08	1.89E+07	3.72E+06
X-326	25-6	12	7	03-Nov-09	9	9.00E+08	1.89E+07	3.72E+06
X-326	25-6	12	8	03-Nov-09	12	1.20E+09	2.52E+07	4.96E+06
X-326	25-6	12	9	03-Nov-09	12	1.20E+09	2.52E+07	4.96E+06
X-326	25-6	12	10	03-Nov-09	9	9.00E+08	1.89E+07	3.72E+06
X-326	25-6	12	11	03-Nov-09	9	9.00E+08	1.89E+07	3.72E+06
X-326	25-6	12	12	03-Nov-09	9	9.00E+08	1.89E+07	3.72E+06
X-326	25-6	13	1	10-Dec-09	6	4.96E+08	1.26E+07	1.98E+06
X-326	25-6	13	2	10-Dec-09	8	6.61E+08	1.68E+07	2.64E+06
X-326	25-6	13	3	10-Dec-09	6	4.96E+08	1.26E+07	1.98E+06
X-326	25-6	13	4	10-Dec-09	9	7.44E+08	1.89E+07	2.97E+06
X-326	25-6	13	5	10-Dec-09	9	7.44E+08	1.89E+07	2.97E+06
X-326	25-6	13	6	10-Dec-09	6	4.96E+08	1.26E+07	1.98E+06
X-326	25-6	13	7	10-Dec-09	11	9.09E+08	2.31E+07	3.63E+06
X-326	25-6	13	8	10-Dec-09	17	1.41E+09	3.57E+07	5.61E+06
X-326	25-6	13	9	10-Dec-09	9	7.44E+08	1.89E+07	2.97E+06
X-326	25-6	13	10	10-Dec-09	8	6.61E+08	1.68E+07	2.64E+06
X-326	25-6	13	11	10-Dec-09	18	1.49E+09	3.78E+07	5.94E+06
X-326	25-6	13	12	10-Dec-09	12	9.92E+08	2.52E+07	3.96E+06
X-326	25-6	14	1	05-Mar-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	14	2	05-Mar-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	14	3	05-Mar-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	14	4	05-Mar-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	14	5	05-Mar-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	14	6	05-Mar-04	148.5	2.00E+10	3.12E+08	1.46E+06
X-326	25-6	14	7	05-Mar-04	21	2.83E+09	4.41E+07	2.07E+05
X-326	25-6	14	8	05-Mar-04	66	8.90E+09	1.39E+08	6.50E+05
X-326	25-6	14	9	05-Mar-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	14	10	05-Mar-04	199.5	2.69E+10	4.19E+08	1.97E+06
X-326	25-6	14	11	05-Mar-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	14	12	05-Mar-04	81	1.09E+10	1.70E+08	7.98E+05
X-326	25-6	15	1	12-Feb-10	9	7.06E+08	1.89E+07	1.17E+05
X-326	25-6	15	2	12-Feb-10	9	7.06E+08	1.89E+07	1.17E+05
X-326	25-6	15	3	12-Feb-10	12	9.42E+08	2.52E+07	1.56E+05
X-326	25-6	15	4	12-Feb-10	9	7.06E+08	1.89E+07	1.17E+05
X-326	25-6	15	5	12-Feb-10	12	9.42E+08	2.52E+07	1.56E+05
X-326	25-6	15	6	12-Feb-10	9	7.06E+08	1.89E+07	1.17E+05
X-326	25-6	15	7	12-Feb-10	8	6.28E+08	1.68E+07	1.04E+05

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-6	15	8	12-Feb-10	9	7.06E+08	1.89E+07	1.17E+05
X-326	25-6	15	9	12-Feb-10	9	7.06E+08	1.89E+07	1.17E+05
X-326	25-6	15	10	12-Feb-10	8	6.28E+08	1.68E+07	1.04E+05
X-326	25-6	15	11	12-Feb-10	11	8.63E+08	2.31E+07	1.43E+05
X-326	25-6	15	12	12-Feb-10	14	1.10E+09	2.94E+07	1.82E+05
X-326	25-6	16	1	18-Aug-09	6	6.41E+08	1.26E+07	9.36E+05
X-326	25-6	16	2	18-Aug-09	8	8.55E+08	1.68E+07	1.25E+06
X-326	25-6	16	3	18-Aug-09	8	8.55E+08	1.68E+07	1.25E+06
X-326	25-6	16	4	18-Aug-09	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	16	5	18-Aug-09	6	6.41E+08	1.26E+07	9.36E+05
X-326	25-6	16	6	18-Aug-09	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	16	7	18-Aug-09	9	9.62E+08	1.89E+07	1.40E+06
X-326	25-6	16	8	18-Aug-09	15	1.60E+09	3.15E+07	2.34E+06
X-326	25-6	16	9	18-Aug-09	14	1.50E+09	2.94E+07	2.18E+06
X-326	25-6	16	10	18-Aug-09	6	6.41E+08	1.26E+07	9.36E+05
X-326	25-6	16	11	18-Aug-09	6	6.41E+08	1.26E+07	9.36E+05
X-326	25-6	16	12	18-Aug-09	6	6.41E+08	1.26E+07	9.36E+05
X-326	25-6	17	1	09-Apr-10	8	6.70E+08	1.68E+07	2.42E+06
X-326	25-6	17	2	09-Apr-10	5	4.19E+08	1.05E+07	1.51E+06
X-326	25-6	17	3	09-Apr-10	8	6.70E+08	1.68E+07	2.42E+06
X-326	25-6	17	4	09-Apr-10	6	5.03E+08	1.26E+07	1.81E+06
X-326	25-6	17	5	09-Apr-10	9	7.54E+08	1.89E+07	2.72E+06
X-326	25-6	17	6	09-Apr-10	8	6.70E+08	1.68E+07	2.42E+06
X-326	25-6	17	7	09-Apr-10	8	6.70E+08	1.68E+07	2.42E+06
X-326	25-6	17	8	09-Apr-10	8	6.70E+08	1.68E+07	2.42E+06
X-326	25-6	17	9	09-Apr-10	14	1.17E+09	2.94E+07	4.23E+06
X-326	25-6	17	10	09-Apr-10	6	5.03E+08	1.26E+07	1.81E+06
X-326	25-6	17	11	09-Apr-10	12	1.01E+09	2.52E+07	3.63E+06
X-326	25-6	17	12	09-Apr-10	9	7.54E+08	1.89E+07	2.72E+06
X-326	25-6	18	1	18-Dec-09	11	8.86E+08	2.31E+07	1.20E+05
X-326	25-6	18	2	18-Dec-09	12	9.66E+08	2.52E+07	1.31E+05
X-326	25-6	18	3	18-Dec-09	17	1.37E+09	3.57E+07	1.85E+05
X-326	25-6	18	4	18-Dec-09	9	7.25E+08	1.89E+07	9.82E+04
X-326	25-6	18	5	18-Dec-09	8	6.44E+08	1.68E+07	8.73E+04
X-326	25-6	18	6	18-Dec-09	9	7.25E+08	1.89E+07	9.82E+04
X-326	25-6	18	7	18-Dec-09	9	7.25E+08	1.89E+07	9.82E+04
X-326	25-6	18	8	18-Dec-09	6	4.83E+08	1.26E+07	6.55E+04
X-326	25-6	18	9	18-Dec-09	8	6.44E+08	1.68E+07	8.73E+04
X-326	25-6	18	10	18-Dec-09	8	6.44E+08	1.68E+07	8.73E+04
X-326	25-6	18	11	18-Dec-09	6	4.83E+08	1.26E+07	6.55E+04
X-326	25-6	18	12	18-Dec-09	9	7.25E+08	1.89E+07	9.82E+04
X-326	25-6	19	1	20-Jan-10	6	5.72E+08	1.26E+07	1.95E+06
X-326	25-6	19	2	20-Jan-10	8	7.63E+08	1.68E+07	2.60E+06
X-326	25-6	19	3	20-Jan-10	8	7.63E+08	1.68E+07	2.60E+06
X-326	25-6	19	4	20-Jan-10	11	1.05E+09	2.31E+07	3.57E+06
X-326	25-6	19	5	20-Jan-10	12	1.14E+09	2.52E+07	3.90E+06
X-326	25-6	19	6	20-Jan-10	11	1.05E+09	2.31E+07	3.57E+06
X-326	25-6	19	7	20-Jan-10	8	7.63E+08	1.68E+07	2.60E+06
X-326	25-6	19	8	20-Jan-10	9	8.58E+08	1.89E+07	2.92E+06
X-326	25-6	19	9	20-Jan-10	18	1.72E+09	3.78E+07	5.85E+06
X-326	25-6	19	10	20-Jan-10	9	8.58E+08	1.89E+07	2.92E+06
X-326	25-6	19	11	20-Jan-10	11	1.05E+09	2.31E+07	3.57E+06
X-326	25-6	19	12	20-Jan-10	11	1.05E+09	2.31E+07	3.57E+06
X-326	25-6	20	1	28-Jun-10	8	4.96E+08	1.68E+07	1.10E+05
X-326	25-6	20	2	28-Jun-10	6	3.72E+08	1.26E+07	8.25E+04

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-6	20	3	28-Jun-10	5	3.10E+08	1.05E+07	6.88E+04
X-326	25-6	20	4	28-Jun-10	3	1.86E+08	6.30E+06	4.13E+04
X-326	25-6	20	5	28-Jun-10	5	3.10E+08	1.05E+07	6.88E+04
X-326	25-6	20	6	28-Jun-10	4	2.48E+08	8.40E+06	5.50E+04
X-326	25-6	20	7	28-Jun-10	6	3.72E+08	1.26E+07	8.25E+04
X-326	25-6	20	8	28-Jun-10	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-6	20	9	28-Jun-10	8	4.96E+08	1.68E+07	1.10E+05
X-326	25-6	20	10	28-Jun-10	6	3.72E+08	1.26E+07	8.25E+04
X-326	25-6	20	11	28-Jun-10	5	3.10E+08	1.05E+07	6.88E+04
X-326	25-6	20	12	28-Jun-10	9	5.58E+08	1.89E+07	1.24E+05
X-326	25-7	1	1	18-Sep-03	309	2.46E+10	6.49E+08	1.73E+09
X-326	25-7	1	2	18-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	1	3	18-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	1	4	18-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	1	5	18-Sep-03	240	1.91E+10	5.04E+08	1.34E+09
X-326	25-7	1	6	18-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	1	7	18-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	1	8	18-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	1	9	18-Sep-03	394.5	3.14E+10	8.28E+08	2.21E+09
X-326	25-7	1	10	18-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	1	11	18-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	1	12	18-Sep-03	78	6.20E+09	1.64E+08	4.36E+08
X-326	25-7	2	1	29-Jun-98	4615.5	2.89E+11	9.69E+09	3.11E+07
X-326	25-7	2	2	13-Dec-04	51	3.19E+09	1.07E+08	1.39E+08
X-326	25-7	2	3	29-Jun-98	115.5	7.23E+09	2.43E+08	7.78E+05
X-326	25-7	2	4	29-Jun-98	438	2.74E+10	9.20E+08	2.95E+06
X-326	25-7	2	5	29-Jun-98	34.5	2.16E+09	7.25E+07	2.32E+05
X-326	25-7	2	6	29-Jun-98	121.5	7.61E+09	2.55E+08	8.18E+05
X-326	25-7	3	1	25-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	3	2	25-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	3	3	25-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	3	4	25-Aug-03	7.5	5.96E+08	1.58E+07	4.20E+07
X-326	25-7	3	5	25-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	3	6	25-Aug-03	214.5	1.71E+10	4.50E+08	1.20E+09
X-326	25-7	3	7	25-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	3	8	25-Aug-03	427.5	3.40E+10	8.98E+08	2.39E+09
X-326	25-7	3	9	25-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	3	10	25-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	3	11	25-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	3	12	25-Aug-03	124.5	9.90E+09	2.61E+08	6.97E+08
X-326	25-7	4	1	28-Mar-03	327	2.60E+10	6.87E+08	1.80E+09
X-326	25-7	4	2	28-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	4	3	28-Mar-03	13.5	1.07E+09	2.84E+07	7.41E+07
X-326	25-7	4	4	28-Mar-03	259.5	2.06E+10	5.45E+08	1.42E+09
X-326	25-7	4	5	28-Mar-03	15	1.19E+09	3.15E+07	8.24E+07
X-326	25-7	4	6	28-Mar-03	465	3.70E+10	9.77E+08	2.55E+09
X-326	25-7	5	1	22-Aug-03	192	1.07E+10	4.03E+08	1.04E+09
X-326	25-7	5	2	22-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	5	3	22-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	5	4	22-Aug-03	375	2.09E+10	7.88E+08	2.03E+09
X-326	25-7	5	5	22-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	5	6	22-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	5	7	22-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	5	8	22-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	5	9	22-Aug-03	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-7	5	10	22-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	5	11	22-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	5	12	22-Aug-03	94.5	5.28E+09	1.98E+08	5.12E+08
X-326	25-7	6	1	30-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	6	2	30-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	6	3	30-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	6	4	30-Mar-03	22.5	1.16E+09	4.73E+07	1.21E+08
X-326	25-7	6	5	30-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	6	6	30-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	7	1	10-Aug-03	387	3.00E+10	8.13E+08	2.03E+09
X-326	25-7	7	2	10-Aug-03	6	4.65E+08	1.26E+07	3.15E+07
X-326	25-7	7	3	10-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	7	4	10-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	7	5	10-Aug-03	343.5	2.66E+10	7.21E+08	1.80E+09
X-326	25-7	7	6	10-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	7	7	10-Aug-03	144	1.12E+10	3.02E+08	7.55E+08
X-326	25-7	7	8	10-Aug-03	468	3.63E+10	9.83E+08	2.45E+09
X-326	25-7	7	9	10-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	7	10	10-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	7	11	10-Aug-03	340.5	2.64E+10	7.15E+08	1.79E+09
X-326	25-7	7	12	10-Aug-03	69	5.35E+09	1.45E+08	3.62E+08
X-326	25-7	8	1	29-Mar-03	22.5	1.74E+09	4.73E+07	1.19E+08
X-326	25-7	8	2	29-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	8	3	29-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	8	4	29-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	8	5	29-Mar-03	1.5	1.16E+08	3.15E+06	7.94E+06
X-326	25-7	8	6	29-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	9	1	18-Aug-03	273	2.60E+10	5.73E+08	1.39E+09
X-326	25-7	9	2	18-Aug-03	79.5	7.58E+09	1.67E+08	4.05E+08
X-326	25-7	9	3	18-Aug-03	310.5	2.96E+10	6.52E+08	1.58E+09
X-326	25-7	9	4	18-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	9	5	18-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	9	6	18-Aug-03	463.5	4.42E+10	9.73E+08	2.36E+09
X-326	25-7	9	7	18-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	9	8	18-Aug-03	67.5	6.44E+09	1.42E+08	3.43E+08
X-326	25-7	9	9	18-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	9	10	18-Aug-03	106.5	1.02E+10	2.24E+08	5.42E+08
X-326	25-7	9	11	18-Aug-03	454.5	4.34E+10	9.54E+08	2.31E+09
X-326	25-7	9	12	18-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	10	1	29-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	10	2	29-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	10	3	29-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	10	4	29-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	10	5	29-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	10	6	29-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	11	1	05-Mar-10	11	1.16E+09	2.31E+07	7.41E+04
X-326	25-7	11	2	05-Mar-10	11	1.16E+09	2.31E+07	7.41E+04
X-326	25-7	11	3	05-Mar-10	12	1.26E+09	2.52E+07	8.08E+04
X-326	25-7	11	4	05-Mar-10	17	1.79E+09	3.57E+07	1.14E+05
X-326	25-7	11	5	05-Mar-10	11	1.16E+09	2.31E+07	7.41E+04
X-326	25-7	11	6	05-Mar-10	9	9.46E+08	1.89E+07	6.06E+04
X-326	25-7	11	7	05-Mar-10	17	1.79E+09	3.57E+07	1.14E+05
X-326	25-7	11	8	05-Mar-10	12	1.26E+09	2.52E+07	8.08E+04
X-326	25-7	11	9	05-Mar-10	15	1.58E+09	3.15E+07	1.01E+05
X-326	25-7	11	10	05-Mar-10	14	1.47E+09	2.94E+07	9.43E+04

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-7	11	11	05-Mar-10	8	8.41E+08	1.68E+07	5.39E+04
X-326	25-7	11	12	05-Mar-10	9	9.46E+08	1.89E+07	6.06E+04
X-326	25-7	12	1	06-Sep-03	256.5	2.74E+10	5.39E+08	1.14E+09
X-326	25-7	12	2	06-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	12	3	06-Sep-03	264	2.82E+10	5.54E+08	1.18E+09
X-326	25-7	12	4	06-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	12	5	06-Sep-03	306	3.27E+10	6.43E+08	1.36E+09
X-326	25-7	12	6	06-Sep-03	154.5	1.65E+10	3.24E+08	6.89E+08
X-326	25-7	13	1	27-Aug-10	9	9.30E+08	1.89E+07	6.06E+04
X-326	25-7	13	2	27-Aug-10	6	6.20E+08	1.26E+07	4.04E+04
X-326	25-7	13	3	27-Aug-10	3	3.10E+08	6.30E+06	2.02E+04
X-326	25-7	13	4	27-Aug-10	3	3.10E+08	6.30E+06	2.02E+04
X-326	25-7	13	5	27-Aug-10	3	3.10E+08	6.30E+06	2.02E+04
X-326	25-7	13	6	27-Aug-10	3	3.10E+08	6.30E+06	2.02E+04
X-326	25-7	13	7	27-Aug-10	2	2.07E+08	4.20E+06	1.35E+04
X-326	25-7	13	8	27-Aug-10	3	3.10E+08	6.30E+06	2.02E+04
X-326	25-7	13	9	27-Aug-10	3	3.10E+08	6.30E+06	2.02E+04
X-326	25-7	13	10	27-Aug-10	3	3.10E+08	6.30E+06	2.02E+04
X-326	25-7	13	11	27-Aug-10	2	2.07E+08	4.20E+06	1.35E+04
X-326	25-7	13	12	27-Aug-10	3	3.10E+08	6.30E+06	2.02E+04
X-326	25-7	14	1	06-Sep-03	82.5	8.82E+09	1.73E+08	3.74E+08
X-326	25-7	14	2	06-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	14	3	06-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	14	4	06-Sep-03	145.5	1.56E+10	3.06E+08	6.59E+08
X-326	25-7	14	5	06-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	14	6	06-Sep-03	6	6.41E+08	1.26E+07	2.72E+07
X-326	25-7	15	1	19-Aug-03	342	3.66E+10	7.18E+08	1.68E+09
X-326	25-7	15	2	19-Aug-03	112.5	1.20E+10	2.36E+08	5.53E+08
X-326	25-7	15	3	19-Aug-03	54	5.77E+09	1.13E+08	2.65E+08
X-326	25-7	15	4	19-Aug-03	444	4.75E+10	9.32E+08	2.18E+09
X-326	25-7	15	5	19-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	15	6	19-Aug-03	235.5	2.52E+10	4.95E+08	1.16E+09
X-326	25-7	15	7	19-Aug-03	9	9.62E+08	1.89E+07	4.42E+07
X-326	25-7	15	8	19-Aug-03	327	3.50E+10	6.87E+08	1.61E+09
X-326	25-7	15	9	19-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	15	10	19-Aug-03	463.5	4.95E+10	9.73E+08	2.28E+09
X-326	25-7	15	11	19-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	15	12	19-Aug-03	319.5	3.42E+10	6.71E+08	1.57E+09
X-326	25-7	16	1	10-Jan-08	144	8.04E+09	3.02E+08	8.32E+08
X-326	25-7	16	2	18-Sep-04	180	1.01E+10	3.78E+08	1.21E+06
X-326	25-7	16	3	26-Jun-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	16	4	18-Jan-08	55.5	3.10E+09	1.17E+08	3.21E+08
X-326	25-7	16	5	26-Jun-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	16	6	26-Jun-98	28.5	1.59E+09	5.99E+07	1.92E+05
X-326	25-7	17	1	16-Jun-98	246	1.54E+10	5.17E+08	1.66E+06
X-326	25-7	17	2	16-Jun-98	435	2.72E+10	9.14E+08	2.93E+06
X-326	25-7	17	3	16-Jun-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	17	4	16-Jun-98	360	2.25E+10	7.56E+08	2.42E+06
X-326	25-7	17	5	16-Jun-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	17	6	16-Jun-98	105	6.58E+09	2.21E+08	7.07E+05
X-326	25-7	17	7	16-Jun-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	17	8	16-Jun-98	295.5	1.85E+10	6.21E+08	1.99E+06
X-326	25-7	17	9	16-Jun-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	17	10	16-Jun-98	147	9.21E+09	3.09E+08	9.90E+05
X-326	25-7	17	11	16-Jun-98	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	25-7	17	12	16-Jun-98	190.5	1.19E+10	4.00E+08	1.28E+06
X-326	25-7	18	1	07-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	18	2	07-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	18	3	07-Sep-03	10.5	1.12E+09	2.21E+07	4.83E+07
X-326	25-7	18	4	07-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	18	5	07-Sep-03	6	6.41E+08	1.26E+07	2.76E+07
X-326	25-7	18	6	07-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	19	1	20-Aug-03	199.5	2.13E+10	4.19E+08	9.49E+08
X-326	25-7	19	2	20-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	19	3	20-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	19	4	20-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	19	5	20-Aug-03	6	6.41E+08	1.26E+07	2.85E+07
X-326	25-7	19	6	20-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	19	7	20-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	19	8	20-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	19	9	20-Aug-03	148.5	1.59E+10	3.12E+08	7.06E+08
X-326	25-7	19	10	20-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	19	11	20-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	19	12	20-Aug-03	13.5	1.44E+09	2.84E+07	6.42E+07
X-326	25-7	20	1	07-Sep-03	421.5	4.51E+10	8.85E+08	1.97E+09
X-326	25-7	20	2	07-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	20	3	07-Sep-03	295.5	3.16E+10	6.21E+08	1.38E+09
X-326	25-7	20	4	07-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	20	5	07-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	25-7	20	6	07-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	1	1	10-May-03	226.5	1.54E+10	4.76E+08	1.24E+09
X-326	27-1	1	2	10-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	1	3	10-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	1	4	10-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	1	5	10-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	1	6	10-May-03	184.5	1.26E+10	3.87E+08	1.01E+09
X-326	27-1	1	7	10-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	1	8	30-Jun-04	62	4.22E+09	1.30E+08	3.40E+08
X-326	27-1	1	9	10-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	1	10	30-Jun-04	42	2.86E+09	8.82E+07	2.30E+08
X-326	27-1	1	11	10-May-03	298.5	2.03E+10	6.27E+08	1.64E+09
X-326	27-1	1	12	30-Jun-04	27	1.84E+09	5.67E+07	1.48E+08
X-326	27-1	2	1	22-Oct-02	75	5.28E+09	1.58E+08	5.51E+08
X-326	27-1	2	2	22-Oct-02	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	2	3	22-Oct-02	280.5	1.98E+10	5.89E+08	2.06E+09
X-326	27-1	2	4	22-Oct-02	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	2	5	22-Oct-02	378	2.66E+10	7.94E+08	2.78E+09
X-326	27-1	2	6	22-Oct-02	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	2	7	22-Oct-02	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	2	8	22-Oct-02	288	2.03E+10	6.05E+08	2.12E+09
X-326	27-1	2	9	30-Jun-04	17	1.20E+09	3.57E+07	5.38E+07
X-326	27-1	2	10	22-Oct-02	394.5	2.78E+10	8.28E+08	2.90E+09
X-326	27-1	2	11	22-Oct-02	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	2	12	30-Jun-04	45	3.17E+09	9.45E+07	1.42E+08
X-326	27-1	3	1	29-Jul-06	14	7.00E+08	2.94E+07	1.66E+08
X-326	27-1	3	2	29-Jul-06	17	8.50E+08	3.57E+07	2.02E+08
X-326	27-1	3	3	29-Jul-06	33	1.65E+09	6.93E+07	3.92E+08
X-326	27-1	3	4	29-Jul-06	27	1.35E+09	5.67E+07	3.21E+08
X-326	27-1	3	5	29-Jul-06	20	1.00E+09	4.20E+07	2.38E+08
X-326	27-1	3	6	29-Jul-06	42	2.10E+09	8.82E+07	4.99E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-1	3	7	29-Jul-06	24	1.20E+09	5.04E+07	2.85E+08
X-326	27-1	3	8	29-Jul-06	21	1.05E+09	4.41E+07	2.50E+08
X-326	27-1	3	9	29-Jul-06	20	1.00E+09	4.20E+07	2.38E+08
X-326	27-1	3	10	29-Jul-06	24	1.20E+09	5.04E+07	2.85E+08
X-326	27-1	3	11	29-Jul-06	18	9.00E+08	3.78E+07	2.14E+08
X-326	27-1	3	12	29-Jul-06	24	1.20E+09	5.04E+07	2.85E+08
X-326	27-1	4	1	11-May-03	147	1.04E+10	3.09E+08	9.22E+08
X-326	27-1	4	2	11-May-03	267	1.88E+10	5.61E+08	1.67E+09
X-326	27-1	4	3	11-May-03	18	1.27E+09	3.78E+07	1.13E+08
X-326	27-1	4	4	11-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	4	5	11-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	4	6	11-May-03	33	2.33E+09	6.93E+07	2.07E+08
X-326	27-1	4	7	11-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	4	8	11-May-03	246	1.73E+10	5.17E+08	1.54E+09
X-326	27-1	4	9	11-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	4	10	11-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	4	11	11-May-03	241.5	1.70E+10	5.07E+08	1.51E+09
X-326	27-1	4	12	11-May-03	427.5	3.01E+10	8.98E+08	2.68E+09
X-326	27-1	5	1	25-Jul-01	268.5	1.89E+10	5.64E+08	1.97E+09
X-326	27-1	5	2	25-Jul-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	5	3	25-Jul-01	159	1.12E+10	3.34E+08	1.17E+09
X-326	27-1	5	4	25-Jul-01	469.5	3.31E+10	9.86E+08	3.45E+09
X-326	27-1	5	5	25-Jul-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	5	6	25-Jul-01	351	2.47E+10	7.37E+08	2.58E+09
X-326	27-1	5	7	25-Jul-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	5	8	25-Jul-01	96	6.76E+09	2.02E+08	7.05E+08
X-326	27-1	5	9	25-Jul-01	661.5	4.66E+10	1.39E+09	4.86E+09
X-326	27-1	5	10	25-Jul-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	5	11	25-Jul-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	5	12	25-Jul-01	358.5	2.53E+10	7.53E+08	2.63E+09
X-326	27-1	6	1	07-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	6	2	07-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	6	3	07-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	6	4	07-May-04	217.5	1.26E+10	4.57E+08	5.02E+08
X-326	27-1	6	5	07-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	6	6	07-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	6	7	07-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	6	8	07-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	6	9	07-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	6	10	07-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	6	11	07-May-04	357	2.07E+10	7.50E+08	8.25E+08
X-326	27-1	6	12	07-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	7	1	30-Jul-03	123	6.75E+09	2.58E+08	9.06E+08
X-326	27-1	7	2	30-Jul-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	7	3	30-Jul-03	292.5	1.60E+10	6.14E+08	2.15E+09
X-326	27-1	7	4	30-Jul-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	7	5	30-Jul-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	7	6	30-Jul-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	7	7	30-Jul-03	214.5	1.18E+10	4.50E+08	1.58E+09
X-326	27-1	7	8	30-Jul-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	7	9	30-Jul-03	457.5	2.51E+10	9.61E+08	3.37E+09
X-326	27-1	7	10	30-Jul-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	7	11	30-Jul-03	301.5	1.65E+10	6.33E+08	2.22E+09
X-326	27-1	7	12	30-Jul-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	8	1	05-May-04	471	2.68E+10	9.89E+08	1.11E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-1	8	2	05-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	8	3	05-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	8	4	05-May-04	457.5	2.60E+10	9.61E+08	1.08E+09
X-326	27-1	8	5	05-May-04	54	3.07E+09	1.13E+08	1.28E+08
X-326	27-1	8	6	05-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	8	7	05-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	8	8	05-May-04	27	1.54E+09	5.67E+07	6.38E+07
X-326	27-1	8	9	05-May-04	402	2.29E+10	8.44E+08	9.50E+08
X-326	27-1	8	10	05-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	8	11	05-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	8	12	05-May-04	21	1.19E+09	4.41E+07	4.96E+07
X-326	27-1	9	1	07-Apr-04	207	2.21E+10	4.35E+08	9.08E+08
X-326	27-1	9	2	07-Apr-04	9	9.62E+08	1.89E+07	3.95E+07
X-326	27-1	9	3	07-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	9	4	07-Apr-04	63	6.73E+09	1.32E+08	2.76E+08
X-326	27-1	9	5	07-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	9	6	07-Apr-04	186	1.99E+10	3.91E+08	8.15E+08
X-326	27-1	9	7	07-Apr-04	294	3.14E+10	6.17E+08	1.29E+09
X-326	27-1	9	8	07-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	9	9	07-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	9	10	07-Apr-04	63	6.73E+09	1.32E+08	2.76E+08
X-326	27-1	9	11	07-Apr-04	478.5	5.12E+10	1.00E+09	2.10E+09
X-326	27-1	9	12	07-Apr-04	75	8.02E+09	1.58E+08	3.29E+08
X-326	27-1	10	1	26-Aug-03	3	2.11E+08	6.30E+06	1.94E+07
X-326	27-1	10	2	26-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	10	3	26-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	10	4	26-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	10	5	26-Aug-03	127.5	8.98E+09	2.68E+08	8.25E+08
X-326	27-1	10	6	26-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	10	7	26-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	10	8	26-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	10	9	26-Aug-03	21	1.48E+09	4.41E+07	1.36E+08
X-326	27-1	10	10	26-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	10	11	26-Aug-03	13.5	9.51E+08	2.84E+07	8.74E+07
X-326	27-1	10	12	26-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	11	1	28-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	11	2	28-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	11	3	28-Aug-03	76.5	5.39E+09	1.61E+08	5.45E+08
X-326	27-1	11	4	28-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	11	5	28-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	11	6	28-Aug-03	213	1.50E+10	4.47E+08	1.52E+09
X-326	27-1	11	7	28-Aug-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	11	8	28-Aug-03	304.5	2.15E+10	6.39E+08	2.17E+09
X-326	27-1	11	9	28-Aug-03	55.5	3.91E+09	1.17E+08	3.95E+08
X-326	27-1	11	10	28-Aug-03	72	5.07E+09	1.51E+08	5.13E+08
X-326	27-1	11	11	28-Aug-03	238.5	1.68E+10	5.01E+08	1.70E+09
X-326	27-1	11	12	28-Aug-03	82.5	5.81E+09	1.73E+08	5.87E+08
X-326	27-1	12	1	05-Feb-10	26	1.48E+09	5.46E+07	6.41E+07
X-326	27-1	12	2	05-Feb-10	12	6.83E+08	2.52E+07	2.96E+07
X-326	27-1	12	3	05-Feb-10	9	5.12E+08	1.89E+07	2.22E+07
X-326	27-1	12	4	05-Feb-10	9	5.12E+08	1.89E+07	2.22E+07
X-326	27-1	12	5	05-Feb-10	9	5.12E+08	1.89E+07	2.22E+07
X-326	27-1	12	6	05-Feb-10	8	4.55E+08	1.68E+07	1.97E+07
X-326	27-1	12	7	05-Feb-10	8	4.55E+08	1.68E+07	1.97E+07
X-326	27-1	12	8	05-Feb-10	11	6.26E+08	2.31E+07	2.71E+07

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-1	12	9	05-Feb-10	8	4.55E+08	1.68E+07	1.97E+07
X-326	27-1	12	10	05-Feb-10	8	4.55E+08	1.68E+07	1.97E+07
X-326	27-1	12	11	05-Feb-10	8	4.55E+08	1.68E+07	1.97E+07
X-326	27-1	12	12	05-Feb-10	9	5.12E+08	1.89E+07	2.22E+07
X-326	27-1	13	1	08-Apr-04	25.5	1.42E+09	5.36E+07	7.75E+07
X-326	27-1	13	2	08-Apr-04	121.5	6.79E+09	2.55E+08	3.69E+08
X-326	27-1	13	3	08-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	13	4	08-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	13	5	08-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	13	6	08-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	13	7	08-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	13	8	08-Apr-04	99	5.53E+09	2.08E+08	3.01E+08
X-326	27-1	13	9	08-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	13	10	08-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	13	11	08-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	13	12	08-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	14	1	17-Feb-05	340.5	2.40E+10	7.15E+08	2.28E+09
X-326	27-1	14	2	17-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	14	3	17-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	14	4	17-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	14	5	17-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	14	6	17-Feb-05	1336.5	9.42E+10	2.81E+09	8.94E+09
X-326	27-1	14	7	17-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	14	8	17-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	14	9	17-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	14	10	17-Feb-05	85.5	6.02E+09	1.80E+08	5.72E+08
X-326	27-1	14	11	17-Feb-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	14	12	17-Feb-05	298.5	2.10E+10	6.27E+08	2.00E+09
X-326	27-1	15	1	17-May-03	129	9.09E+09	2.71E+08	8.91E+08
X-326	27-1	15	2	17-May-03	213	1.50E+10	4.47E+08	1.47E+09
X-326	27-1	15	3	17-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	15	4	17-May-03	201	1.42E+10	4.22E+08	1.39E+09
X-326	27-1	15	5	17-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	15	6	17-May-03	54	3.80E+09	1.13E+08	3.73E+08
X-326	27-1	15	7	17-May-03	339	2.39E+10	7.12E+08	2.34E+09
X-326	27-1	15	8	17-May-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	15	9	17-May-03	247.5	1.74E+10	5.20E+08	1.71E+09
X-326	27-1	15	10	17-May-03	18	1.27E+09	3.78E+07	1.24E+08
X-326	27-1	15	11	17-May-03	51	3.59E+09	1.07E+08	3.52E+08
X-326	27-1	15	12	17-May-03	310.5	2.19E+10	6.52E+08	2.14E+09
X-326	27-1	16	1	22-Jun-04	60	3.48E+09	1.26E+08	1.56E+08
X-326	27-1	16	2	22-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	16	3	22-Jun-04	189	1.10E+10	3.97E+08	4.92E+08
X-326	27-1	16	4	22-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	16	5	22-Jun-04	213	1.23E+10	4.47E+08	5.55E+08
X-326	27-1	16	6	22-Jun-04	7.5	4.35E+08	1.58E+07	1.95E+07
X-326	27-1	16	7	22-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	16	8	22-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	16	9	22-Jun-04	106.5	6.17E+09	2.24E+08	2.77E+08
X-326	27-1	16	10	22-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	16	11	22-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	16	12	31-Jan-08	15	8.69E+08	3.15E+07	7.62E+07
X-326	27-1	17	1	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	17	2	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	17	3	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-1	17	4	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	17	5	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	17	6	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	17	7	12-Apr-04	159	8.88E+09	3.34E+08	4.59E+08
X-326	27-1	17	8	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	17	9	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	17	10	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	17	11	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	17	12	12-Apr-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	18	1	10-Dec-97	102	6.39E+09	2.14E+08	2.72E+08
X-326	27-1	18	2	10-Dec-97	168	1.05E+10	3.53E+08	4.49E+08
X-326	27-1	18	3	10-Dec-97	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	18	4	10-Dec-97	12	7.52E+08	2.52E+07	3.20E+07
X-326	27-1	18	5	10-Dec-97	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	18	6	10-Dec-97	150	9.39E+09	3.15E+08	4.01E+08
X-326	27-1	18	7	10-Dec-97	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	18	8	10-Dec-97	49.5	3.10E+09	1.04E+08	1.32E+08
X-326	27-1	18	9	10-Dec-97	73.5	4.60E+09	1.54E+08	1.96E+08
X-326	27-1	18	10	10-Dec-97	1.5	9.39E+07	3.15E+06	4.01E+06
X-326	27-1	18	11	10-Dec-97	139.5	8.74E+09	2.93E+08	3.72E+08
X-326	27-1	18	12	10-Dec-97	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	19	1	15-Oct-10	6	3.44E+08	1.26E+07	1.69E+07
X-326	27-1	19	2	15-Oct-10	6	3.44E+08	1.26E+07	1.69E+07
X-326	27-1	19	3	15-Oct-10	17	9.76E+08	3.57E+07	4.78E+07
X-326	27-1	19	4	15-Oct-10	33	1.89E+09	6.93E+07	9.28E+07
X-326	27-1	19	5	15-Oct-10	14	8.04E+08	2.94E+07	3.94E+07
X-326	27-1	19	6	15-Oct-10	12	6.89E+08	2.52E+07	3.38E+07
X-326	27-1	19	7	15-Oct-10	8	4.59E+08	1.68E+07	2.25E+07
X-326	27-1	19	8	15-Oct-10	6	3.44E+08	1.26E+07	1.69E+07
X-326	27-1	19	9	15-Oct-10	12	6.89E+08	2.52E+07	3.38E+07
X-326	27-1	19	10	15-Oct-10	8	4.59E+08	1.68E+07	2.25E+07
X-326	27-1	19	11	15-Oct-10	8	4.59E+08	1.68E+07	2.25E+07
X-326	27-1	19	12	15-Oct-10	9	5.17E+08	1.89E+07	2.53E+07
X-326	27-1	20	1	04-May-04	109.5	1.17E+10	2.30E+08	4.76E+08
X-326	27-1	20	2	04-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	20	3	04-May-04	147	1.57E+10	3.09E+08	6.40E+08
X-326	27-1	20	4	04-May-04	16.5	1.76E+09	3.47E+07	7.18E+07
X-326	27-1	20	5	04-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	20	6	04-May-04	162	1.73E+10	3.40E+08	7.05E+08
X-326	27-1	20	7	04-May-04	274.5	2.93E+10	5.76E+08	1.19E+09
X-326	27-1	20	8	04-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	20	9	04-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	20	10	04-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-1	20	11	04-May-04	171	1.83E+10	3.59E+08	7.44E+08
X-326	27-1	20	12	04-May-04	33	3.53E+09	6.93E+07	1.44E+08
X-326	27-2	1	1	13-Jun-01	315	2.22E+10	6.62E+08	2.31E+09
X-326	27-2	1	2	13-Jun-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	1	3	13-Jun-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	1	4	13-Jun-01	211.5	1.49E+10	4.44E+08	1.55E+09
X-326	27-2	1	5	13-Jun-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	1	6	13-Jun-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	1	7	13-Jun-01	9	6.34E+08	1.89E+07	6.61E+07
X-326	27-2	1	8	13-Jun-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	1	9	13-Jun-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	1	10	13-Jun-01	10.5	7.40E+08	2.21E+07	7.71E+07

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-2	1	11	13-Jun-01	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	1	12	13-Jun-01	255	1.80E+10	5.36E+08	1.87E+09
X-326	27-2	2	1	26-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	2	2	26-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	2	3	26-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	2	4	26-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	2	5	26-Jan-05	324	1.91E+10	6.80E+08	4.87E+08
X-326	27-2	2	6	26-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	2	7	26-Jan-05	354	2.09E+10	7.43E+08	5.32E+08
X-326	27-2	2	8	26-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	2	9	26-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	2	10	26-Jan-05	16.5	9.74E+08	3.47E+07	2.48E+07
X-326	27-2	2	11	26-Jan-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	2	12	26-Jan-05	52.5	3.10E+09	1.10E+08	7.89E+07
X-326	27-2	3	1	10-May-04	22.5	1.32E+09	4.73E+07	4.76E+07
X-326	27-2	3	2	10-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	3	3	10-May-04	130.5	7.63E+09	2.74E+08	2.76E+08
X-326	27-2	3	4	10-May-04	63	3.68E+09	1.32E+08	1.33E+08
X-326	27-2	3	5	10-May-04	474	2.77E+10	9.95E+08	1.00E+09
X-326	27-2	3	6	10-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	3	7	10-May-04	316.5	1.85E+10	6.65E+08	6.69E+08
X-326	27-2	3	8	10-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	3	9	10-May-04	292.5	1.71E+10	6.14E+08	6.18E+08
X-326	27-2	3	10	10-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	3	11	10-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	3	12	10-May-04	321	1.88E+10	6.74E+08	6.79E+08
X-326	27-2	4	1	21-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	4	2	21-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	4	3	21-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	4	4	21-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	4	5	21-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	4	6	21-Jun-04	217.5	1.28E+10	4.57E+08	3.33E+08
X-326	27-2	4	7	21-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	4	8	21-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	4	9	21-Jun-04	243	1.43E+10	5.10E+08	3.72E+08
X-326	27-2	4	10	21-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	4	11	21-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	4	12	21-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	1	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	2	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	3	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	4	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	5	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	6	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	7	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	8	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	9	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	10	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	11	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	5	12	11-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	6	1	18-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	6	2	18-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	6	3	18-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	6	4	18-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	6	5	18-Jun-04	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-2	6	6	18-Jun-04	48	2.83E+09	1.01E+08	7.47E+07
X-326	27-2	6	7	18-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	6	8	18-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	6	9	18-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	6	10	18-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	6	11	18-Jun-04	66	3.90E+09	1.39E+08	1.03E+08
X-326	27-2	6	12	18-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	7	1	17-Jul-09	11	6.43E+08	2.31E+07	2.23E+07
X-326	27-2	7	2	17-Jul-09	6	3.51E+08	1.26E+07	1.22E+07
X-326	27-2	7	3	17-Jul-09	12	7.02E+08	2.52E+07	2.43E+07
X-326	27-2	7	4	17-Jul-09	6	3.51E+08	1.26E+07	1.22E+07
X-326	27-2	7	5	17-Jul-09	8	4.68E+08	1.68E+07	1.62E+07
X-326	27-2	7	6	17-Jul-09	9	5.26E+08	1.89E+07	1.82E+07
X-326	27-2	7	7	17-Jul-09	5	2.92E+08	1.05E+07	1.01E+07
X-326	27-2	7	8	17-Jul-09	8	4.68E+08	1.68E+07	1.62E+07
X-326	27-2	7	9	17-Jul-09	6	3.51E+08	1.26E+07	1.22E+07
X-326	27-2	7	10	17-Jul-09	6	3.51E+08	1.26E+07	1.22E+07
X-326	27-2	7	11	17-Jul-09	6	3.51E+08	1.26E+07	1.22E+07
X-326	27-2	7	12	17-Jul-09	9	5.26E+08	1.89E+07	1.82E+07
X-326	27-2	8	1	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	8	2	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	8	3	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	8	4	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	8	5	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	8	6	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	8	7	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	8	8	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	8	9	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	8	10	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	8	11	23-Jul-04	215	1.09E+10	4.52E+08	4.92E+08
X-326	27-2	8	12	07-Jan-98	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	9	1	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	9	2	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	9	3	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	9	4	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	9	5	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	9	6	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	9	7	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	9	8	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	9	9	12-May-04	69	4.00E+09	1.45E+08	1.75E+08
X-326	27-2	9	10	12-May-04	4.5	2.61E+08	9.45E+06	1.14E+07
X-326	27-2	9	11	12-May-04	700.5	4.06E+10	1.47E+09	1.78E+09
X-326	27-2	9	12	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	10	1	10-Mar-09	6	3.54E+08	1.26E+07	2.31E+07
X-326	27-2	10	2	10-Mar-09	4.5	2.66E+08	9.45E+06	1.73E+07
X-326	27-2	10	3	10-Mar-09	4.5	2.66E+08	9.45E+06	1.73E+07
X-326	27-2	10	4	10-Mar-09	7.5	4.43E+08	1.58E+07	2.89E+07
X-326	27-2	10	5	10-Mar-09	4.5	2.66E+08	9.45E+06	1.73E+07
X-326	27-2	10	6	10-Mar-09	3	1.77E+08	6.30E+06	1.15E+07
X-326	27-2	10	7	10-Mar-09	3	1.77E+08	6.30E+06	1.15E+07
X-326	27-2	10	8	10-Mar-09	3	1.77E+08	6.30E+06	1.15E+07
X-326	27-2	10	9	10-Mar-09	6	3.54E+08	1.26E+07	2.31E+07
X-326	27-2	10	10	10-Mar-09	4.5	2.66E+08	9.45E+06	1.73E+07
X-326	27-2	10	11	10-Mar-09	3	1.77E+08	6.30E+06	1.15E+07
X-326	27-2	10	12	10-Mar-09	3	1.77E+08	6.30E+06	1.15E+07

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-2	11	1	12-Sep-03	126	7.04E+09	2.65E+08	5.13E+08
X-326	27-2	11	2	12-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	11	3	12-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	11	4	12-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	11	5	12-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	11	6	12-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	11	7	12-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	11	8	12-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	11	9	12-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	11	10	12-Sep-03	168	9.38E+09	3.53E+08	6.84E+08
X-326	27-2	11	11	12-Sep-03	15	8.38E+08	3.15E+07	6.11E+07
X-326	27-2	11	12	12-Sep-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	12	1	19-May-09	6	2.84E+08	1.26E+07	5.82E+06
X-326	27-2	12	2	19-May-09	3	1.42E+08	6.30E+06	2.91E+06
X-326	27-2	12	3	19-May-09	5	2.37E+08	1.05E+07	4.85E+06
X-326	27-2	12	4	19-May-09	4	1.89E+08	8.40E+06	3.88E+06
X-326	27-2	12	5	19-May-09	3	1.42E+08	6.30E+06	2.91E+06
X-326	27-2	12	6	19-May-09	3	1.42E+08	6.30E+06	2.91E+06
X-326	27-2	12	7	19-May-09	3	1.42E+08	6.30E+06	2.91E+06
X-326	27-2	12	8	19-May-09	3	1.42E+08	6.30E+06	2.91E+06
X-326	27-2	12	9	19-May-09	3	1.42E+08	6.30E+06	2.91E+06
X-326	27-2	12	10	19-May-09	3	1.42E+08	6.30E+06	2.91E+06
X-326	27-2	12	11	19-May-09	3	1.42E+08	6.30E+06	2.91E+06
X-326	27-2	12	12	19-May-09	3	1.42E+08	6.30E+06	2.91E+06
X-326	27-2	13	1	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	13	2	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	13	3	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	13	4	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	13	5	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	13	6	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	13	7	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	13	8	12-May-04	159	9.39E+09	3.34E+08	3.03E+08
X-326	27-2	13	9	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	13	10	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	13	11	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	13	12	12-May-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	14	1	16-Jun-04	36	1.76E+09	7.56E+07	5.97E+07
X-326	27-2	14	2	16-Jun-04	484.5	2.37E+10	1.02E+09	8.03E+08
X-326	27-2	14	3	16-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	14	4	16-Jun-04	534	2.61E+10	1.12E+09	8.85E+08
X-326	27-2	14	5	16-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	14	6	16-Jun-04	222	1.08E+10	4.66E+08	3.68E+08
X-326	27-2	14	7	16-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	14	8	16-Jun-04	393	1.92E+10	8.25E+08	6.52E+08
X-326	27-2	14	9	16-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	14	10	16-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	14	11	16-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	14	12	16-Jun-04	151.5	7.40E+09	3.18E+08	2.51E+08
X-326	27-2	15	1	23-May-02	147	7.60E+09	3.09E+08	7.63E+08
X-326	27-2	15	2	23-May-02	250.5	1.29E+10	5.26E+08	1.30E+09
X-326	27-2	15	3	23-May-02	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	15	4	23-May-02	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	15	5	23-May-02	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	15	6	23-May-02	27	1.40E+09	5.67E+07	1.40E+08
X-326	27-2	15	7	23-May-02	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-2	15	8	23-May-02	226.5	1.17E+10	4.76E+08	1.18E+09
X-326	27-2	15	9	23-May-02	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	15	10	23-May-02	7.5	3.88E+08	1.58E+07	3.89E+07
X-326	27-2	15	11	23-May-02	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	15	12	23-May-02	163.5	8.45E+09	3.43E+08	8.48E+08
X-326	27-2	16	1	14-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	16	2	14-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	16	3	14-Jun-04	151.5	8.24E+09	3.18E+08	2.57E+08
X-326	27-2	16	4	14-Jun-04	6	3.26E+08	1.26E+07	1.02E+07
X-326	27-2	16	5	14-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	16	6	14-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	16	7	14-Jun-04	211.5	1.15E+10	4.44E+08	3.58E+08
X-326	27-2	16	8	14-Jun-04	28.5	1.55E+09	5.99E+07	4.83E+07
X-326	27-2	16	9	14-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	16	10	14-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	16	11	14-Jun-04	132	7.18E+09	2.77E+08	2.24E+08
X-326	27-2	16	12	14-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	1	02-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	2	02-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	3	02-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	4	02-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	5	02-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	6	02-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	7	02-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	8	02-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	9	02-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	10	02-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	17	11	02-Jun-04	90	4.26E+09	1.89E+08	1.64E+08
X-326	27-2	17	12	02-Jun-04	70.5	3.34E+09	1.48E+08	1.29E+08
X-326	27-2	18	1	22-Mar-03	115.5	9.18E+09	2.43E+08	6.46E+08
X-326	27-2	18	2	22-Mar-03	235.5	1.87E+10	4.95E+08	1.32E+09
X-326	27-2	18	3	22-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	18	4	22-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	18	5	22-Mar-03	199.5	1.59E+10	4.19E+08	1.12E+09
X-326	27-2	18	6	22-Mar-03	46.5	3.70E+09	9.77E+07	2.60E+08
X-326	27-2	18	7	22-Mar-03	130.5	1.04E+10	2.74E+08	7.30E+08
X-326	27-2	18	8	22-Mar-03	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	18	9	22-Mar-03	322.5	2.56E+10	6.77E+08	1.80E+09
X-326	27-2	18	10	22-Mar-03	15	1.19E+09	3.15E+07	8.39E+07
X-326	27-2	18	11	22-Mar-03	88.5	7.03E+09	1.86E+08	4.95E+08
X-326	27-2	18	12	22-Mar-03	183	1.45E+10	3.84E+08	1.02E+09
X-326	27-2	19	1	09-Jun-04	130.5	7.04E+09	2.74E+08	2.35E+08
X-326	27-2	19	2	09-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	19	3	09-Jun-04	225	1.21E+10	4.73E+08	4.05E+08
X-326	27-2	19	4	09-Jun-04	54	2.91E+09	1.13E+08	9.71E+07
X-326	27-2	19	5	09-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	19	6	09-Jun-04	594	3.20E+10	1.25E+09	1.07E+09
X-326	27-2	19	7	09-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	19	8	09-Jun-04	87	4.69E+09	1.83E+08	1.57E+08
X-326	27-2	19	9	09-Jun-04	217.5	1.17E+10	4.57E+08	3.91E+08
X-326	27-2	19	10	09-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	19	11	09-Jun-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	19	12	09-Jun-04	537	2.90E+10	1.13E+09	9.66E+08
X-326	27-2	20	1	10-Aug-09	3	1.68E+08	6.30E+06	1.30E+07
X-326	27-2	20	2	10-Aug-09	4	2.23E+08	8.40E+06	1.74E+07

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-2	20	3	10-Aug-09	3	1.68E+08	6.30E+06	1.30E+07
X-326	27-2	20	4	10-Aug-09	3	1.68E+08	6.30E+06	1.30E+07
X-326	27-2	20	5	10-Aug-09	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-2	20	6	10-Aug-09	4	2.23E+08	8.40E+06	1.74E+07
X-326	27-2	20	7	10-Aug-09	3	1.68E+08	6.30E+06	1.30E+07
X-326	27-2	20	8	10-Aug-09	2	1.12E+08	4.20E+06	8.68E+06
X-326	27-2	20	9	10-Aug-09	3	1.68E+08	6.30E+06	1.30E+07
X-326	27-2	20	10	10-Aug-09	2	1.12E+08	4.20E+06	8.68E+06
X-326	27-2	20	11	10-Aug-09	3	1.68E+08	6.30E+06	1.30E+07
X-326	27-2	20	12	10-Aug-09	3	1.68E+08	6.30E+06	1.30E+07
X-326	27-3	1	1	01-Jul-04	195	1.15E+10	4.10E+08	3.95E+08
X-326	27-3	1	2	01-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	1	3	01-Jul-04	183	1.08E+10	3.84E+08	3.71E+08
X-326	27-3	1	4	01-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	1	5	01-Jul-04	154.5	9.12E+09	3.24E+08	3.13E+08
X-326	27-3	1	6	31-Jul-04	9	5.31E+08	1.89E+07	1.29E+07
X-326	27-3	1	7	01-Jul-04	345	2.04E+10	7.25E+08	6.99E+08
X-326	27-3	1	8	01-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	1	9	01-Jul-04	127.5	7.53E+09	2.68E+08	2.58E+08
X-326	27-3	1	10	01-Jul-04	255	1.51E+10	5.36E+08	5.17E+08
X-326	27-3	1	11	01-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	1	12	01-Jul-04	328.5	1.94E+10	6.90E+08	6.66E+08
X-326	27-3	2	1	16-Sep-04	306	1.92E+10	6.43E+08	8.17E+08
X-326	27-3	2	2	16-Sep-04	13.5	8.45E+08	2.84E+07	3.60E+07
X-326	27-3	2	3	16-Sep-04	286.5	1.79E+10	6.02E+08	7.65E+08
X-326	27-3	2	4	16-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	2	5	16-Sep-04	150	9.39E+09	3.15E+08	4.01E+08
X-326	27-3	2	6	16-Sep-04	352.5	2.21E+10	7.40E+08	9.41E+08
X-326	27-3	2	7	16-Sep-04	19.5	1.22E+09	4.10E+07	5.21E+07
X-326	27-3	2	8	16-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	2	9	16-Sep-04	481.5	3.02E+10	1.01E+09	1.29E+09
X-326	27-3	2	10	16-Sep-04	39	2.44E+09	8.19E+07	1.04E+08
X-326	27-3	2	11	16-Sep-04	6	3.76E+08	1.26E+07	1.60E+07
X-326	27-3	2	12	16-Sep-04	195	1.22E+10	4.10E+08	5.21E+08
X-326	27-3	3	1	08-Jul-04	40.5	2.64E+09	8.51E+07	5.77E+07
X-326	27-3	3	2	08-Jul-04	66	4.31E+09	1.39E+08	9.41E+07
X-326	27-3	3	3	08-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	3	4	08-Jul-04	160.5	1.05E+10	3.37E+08	2.29E+08
X-326	27-3	3	5	08-Jul-04	21	1.37E+09	4.41E+07	2.99E+07
X-326	27-3	3	6	08-Jul-04	25.5	1.66E+09	5.36E+07	3.63E+07
X-326	27-3	3	7	08-Jul-04	99	6.46E+09	2.08E+08	1.41E+08
X-326	27-3	3	8	08-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	3	9	24-Jul-04	38	2.48E+09	7.98E+07	5.42E+07
X-326	27-3	3	10	08-Jul-04	354	2.31E+10	7.43E+08	5.05E+08
X-326	27-3	3	11	08-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	3	12	08-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	4	1	10-Nov-09	9	5.26E+08	1.89E+07	6.52E+06
X-326	27-3	4	2	10-Nov-09	6	3.51E+08	1.26E+07	4.35E+06
X-326	27-3	4	3	10-Nov-09	8	4.68E+08	1.68E+07	5.79E+06
X-326	27-3	4	4	10-Nov-09	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	4	5	10-Nov-09	5	2.92E+08	1.05E+07	3.62E+06
X-326	27-3	4	6	10-Nov-09	9	5.26E+08	1.89E+07	6.52E+06
X-326	27-3	4	7	10-Nov-09	8	4.68E+08	1.68E+07	5.79E+06
X-326	27-3	4	8	10-Nov-09	6	3.51E+08	1.26E+07	4.35E+06
X-326	27-3	4	9	10-Nov-09	8	4.68E+08	1.68E+07	5.79E+06

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-3	4	10	10-Nov-09	6	3.51E+08	1.26E+07	4.35E+06
X-326	27-3	4	11	10-Nov-09	5	2.92E+08	1.05E+07	3.62E+06
X-326	27-3	4	12	10-Nov-09	9	5.26E+08	1.89E+07	6.52E+06
X-326	27-3	5	1	12-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	5	2	12-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	5	3	12-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	5	4	12-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	5	5	12-Nov-04	7.5	5.54E+08	1.58E+07	9.84E+06
X-326	27-3	5	6	12-Nov-04	234	1.73E+10	4.91E+08	3.07E+08
X-326	27-3	5	7	12-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	5	8	12-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	5	9	12-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	5	10	12-Nov-04	154.5	1.14E+10	3.24E+08	2.03E+08
X-326	27-3	5	11	12-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	5	12	12-Nov-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	6	1	14-Sep-04	58.5	4.48E+09	1.23E+08	4.38E+07
X-326	27-3	6	2	14-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	6	3	14-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	6	4	14-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	6	5	14-Sep-04	337.5	2.58E+10	7.09E+08	2.53E+08
X-326	27-3	6	6	14-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	6	7	14-Sep-04	171	1.31E+10	3.59E+08	1.28E+08
X-326	27-3	6	8	14-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	6	9	14-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	6	10	14-Sep-04	66	5.05E+09	1.39E+08	4.94E+07
X-326	27-3	6	11	14-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	6	12	14-Sep-04	90	6.89E+09	1.89E+08	6.74E+07
X-326	27-3	7	1	12-Jul-04	91.5	5.56E+09	1.92E+08	1.15E+08
X-326	27-3	7	2	12-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	7	3	12-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	7	4	12-Jul-04	175.5	1.07E+10	3.69E+08	2.21E+08
X-326	27-3	7	5	12-Jul-04	168	1.02E+10	3.53E+08	2.11E+08
X-326	27-3	7	6	12-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	7	7	12-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	7	8	12-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	7	9	12-Jul-04	4.5	2.74E+08	9.45E+06	5.65E+06
X-326	27-3	7	10	12-Jul-04	127.5	7.75E+09	2.68E+08	1.60E+08
X-326	27-3	7	11	12-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	7	12	12-Jul-04	31.5	1.91E+09	6.62E+07	3.96E+07
X-326	27-3	8	1	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	8	2	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	8	3	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	8	4	12-Sep-04	219	1.33E+10	4.60E+08	2.75E+08
X-326	27-3	8	5	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	8	6	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	8	7	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	8	8	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	8	9	12-Sep-04	208.5	1.27E+10	4.38E+08	2.62E+08
X-326	27-3	8	10	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	8	11	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	8	12	12-Sep-04	298.5	1.81E+10	6.27E+08	3.75E+08
X-326	27-3	9	1	13-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	9	2	13-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	9	3	13-Jul-04	304.5	1.89E+10	6.39E+08	3.67E+08
X-326	27-3	9	4	13-Jul-04	52.5	3.26E+09	1.10E+08	6.33E+07

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-3	9	5	13-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	9	6	13-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	9	7	13-Jul-04	16.5	1.02E+09	3.47E+07	1.99E+07
X-326	27-3	9	8	13-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	9	9	13-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	9	10	13-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	9	11	13-Jul-04	213	1.32E+10	4.47E+08	2.57E+08
X-326	27-3	9	12	13-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	10	1	12-Sep-04	1.5	1.15E+08	3.15E+06	1.20E+06
X-326	27-3	10	2	12-Sep-04	156	1.19E+10	3.28E+08	1.25E+08
X-326	27-3	10	3	12-Sep-04	280.5	2.15E+10	5.89E+08	2.24E+08
X-326	27-3	10	4	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	10	5	12-Sep-04	121.5	9.30E+09	2.55E+08	9.72E+07
X-326	27-3	10	6	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	10	7	12-Sep-04	297	2.27E+10	6.24E+08	2.38E+08
X-326	27-3	10	8	12-Sep-04	187.5	1.44E+10	3.94E+08	1.50E+08
X-326	27-3	10	9	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	10	10	12-Sep-04	340.5	2.61E+10	7.15E+08	2.72E+08
X-326	27-3	10	11	12-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	10	12	12-Sep-04	180	1.38E+10	3.78E+08	1.44E+08
X-326	27-3	11	1	14-Jul-04	63	4.29E+09	1.32E+08	7.16E+07
X-326	27-3	11	2	14-Jul-04	304.5	2.07E+10	6.39E+08	3.46E+08
X-326	27-3	11	3	14-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	11	4	14-Jul-04	150	1.02E+10	3.15E+08	1.71E+08
X-326	27-3	11	5	14-Jul-04	361.5	2.46E+10	7.59E+08	4.11E+08
X-326	27-3	11	6	14-Jul-04	126	8.58E+09	2.65E+08	1.43E+08
X-326	27-3	11	7	14-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	11	8	14-Jul-04	76.5	5.21E+09	1.61E+08	8.70E+07
X-326	27-3	11	9	14-Jul-04	426	2.90E+10	8.95E+08	4.84E+08
X-326	27-3	11	10	14-Jul-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	11	11	14-Jul-04	225	1.53E+10	4.73E+08	2.56E+08
X-326	27-3	11	12	14-Jul-04	115.5	7.87E+09	2.43E+08	1.31E+08
X-326	27-3	12	1	25-May-10	9	5.31E+08	1.89E+07	7.45E+06
X-326	27-3	12	2	25-May-10	5	2.95E+08	1.05E+07	4.14E+06
X-326	27-3	12	3	25-May-10	5	2.95E+08	1.05E+07	4.14E+06
X-326	27-3	12	4	25-May-10	5	2.95E+08	1.05E+07	4.14E+06
X-326	27-3	12	5	25-May-10	3	1.77E+08	6.30E+06	2.48E+06
X-326	27-3	12	6	25-May-10	6	3.54E+08	1.26E+07	4.97E+06
X-326	27-3	12	7	25-May-10	3	1.77E+08	6.30E+06	2.48E+06
X-326	27-3	12	8	25-May-10	5	2.95E+08	1.05E+07	4.14E+06
X-326	27-3	12	9	25-May-10	5	2.95E+08	1.05E+07	4.14E+06
X-326	27-3	12	10	25-May-10	8	4.72E+08	1.68E+07	6.62E+06
X-326	27-3	12	11	25-May-10	8	4.72E+08	1.68E+07	6.62E+06
X-326	27-3	12	12	25-May-10	6	3.54E+08	1.26E+07	4.97E+06
X-326	27-3	13	1	02-Aug-04	60	4.09E+09	1.26E+08	6.67E+07
X-326	27-3	13	2	02-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	13	3	02-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	13	4	02-Aug-04	360	2.45E+10	7.56E+08	4.00E+08
X-326	27-3	13	5	02-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	13	6	02-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	13	7	02-Aug-04	211.5	1.44E+10	4.44E+08	2.35E+08
X-326	27-3	13	8	02-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	13	9	02-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	13	10	02-Aug-04	211.5	1.44E+10	4.44E+08	2.35E+08
X-326	27-3	13	11	02-Aug-04	345	2.35E+10	7.25E+08	3.83E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-3	13	12	02-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	14	1	09-Sep-04	417	2.31E+10	8.76E+08	3.57E+08
X-326	27-3	14	2	09-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	14	3	09-Sep-04	592.5	3.28E+10	1.24E+09	5.08E+08
X-326	27-3	14	4	09-Sep-04	168	9.30E+09	3.53E+08	1.44E+08
X-326	27-3	14	5	09-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	14	6	09-Sep-04	445.5	2.47E+10	9.36E+08	3.82E+08
X-326	27-3	14	7	09-Sep-04	172.5	9.55E+09	3.62E+08	1.48E+08
X-326	27-3	14	8	09-Sep-04	30	1.66E+09	6.30E+07	2.57E+07
X-326	27-3	14	9	09-Sep-04	381	2.11E+10	8.00E+08	3.27E+08
X-326	27-3	14	10	09-Sep-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	14	11	09-Sep-04	366	2.03E+10	7.69E+08	3.14E+08
X-326	27-3	14	12	09-Sep-04	66	3.65E+09	1.39E+08	5.66E+07
X-326	27-3	15	1	03-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	15	2	03-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	15	3	03-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	15	4	03-Aug-04	37.5	2.55E+09	7.88E+07	4.01E+07
X-326	27-3	15	5	03-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	15	6	03-Aug-04	1.5	1.02E+08	3.15E+06	1.60E+06
X-326	27-3	15	7	03-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	15	8	03-Aug-04	49.5	3.37E+09	1.04E+08	5.29E+07
X-326	27-3	15	9	03-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	15	10	03-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	15	11	03-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	15	12	03-Aug-04	6	4.09E+08	1.26E+07	6.41E+06
X-326	27-3	16	1	11-Aug-04	154.5	8.55E+09	3.24E+08	1.38E+08
X-326	27-3	16	2	11-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	16	3	11-Aug-04	25.5	1.41E+09	5.36E+07	2.28E+07
X-326	27-3	16	4	11-Aug-04	219	1.21E+10	4.60E+08	1.95E+08
X-326	27-3	16	5	11-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	16	6	11-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	16	7	11-Aug-04	228	1.26E+10	4.79E+08	2.03E+08
X-326	27-3	16	8	11-Aug-04	16.5	9.13E+08	3.47E+07	1.47E+07
X-326	27-3	16	9	11-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	16	10	11-Aug-04	280.5	1.55E+10	5.89E+08	2.50E+08
X-326	27-3	16	11	11-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	16	12	11-Aug-04	123	6.81E+09	2.58E+08	1.10E+08
X-326	27-3	17	1	11-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	17	2	11-Mar-05	237	1.29E+10	4.98E+08	2.44E+08
X-326	27-3	17	3	11-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	17	4	11-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	17	5	11-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	17	6	11-Mar-05	16.5	8.97E+08	3.47E+07	1.70E+07
X-326	27-3	17	7	11-Mar-05	114	6.20E+09	2.39E+08	1.17E+08
X-326	27-3	17	8	11-Mar-05	337.5	1.84E+10	7.09E+08	3.47E+08
X-326	27-3	17	9	11-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	17	10	11-Mar-05	60	3.26E+09	1.26E+08	6.17E+07
X-326	27-3	17	11	11-Mar-05	225	1.22E+10	4.73E+08	2.31E+08
X-326	27-3	17	12	11-Mar-05	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	18	1	10-Aug-04	51	2.82E+09	1.07E+08	4.69E+07
X-326	27-3	18	2	10-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	18	3	10-Aug-04	153	8.47E+09	3.21E+08	1.41E+08
X-326	27-3	18	4	10-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	18	5	10-Aug-04	255	1.41E+10	5.36E+08	2.35E+08
X-326	27-3	18	6	10-Aug-04	0	0.00E+00	0.00E+00	0.00E+00

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-326	27-3	18	7	10-Aug-04	76.5	4.23E+09	1.61E+08	7.04E+07
X-326	27-3	18	8	10-Aug-04	301.5	1.67E+10	6.33E+08	2.77E+08
X-326	27-3	18	9	10-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	18	10	10-Aug-04	228	1.26E+10	4.79E+08	2.10E+08
X-326	27-3	18	11	10-Aug-04	91.5	5.07E+09	1.92E+08	8.42E+07
X-326	27-3	18	12	10-Aug-04	192	1.06E+10	4.03E+08	1.77E+08
X-326	27-3	19	1	05-Aug-04	498	2.34E+10	1.05E+09	5.15E+08
X-326	27-3	19	2	05-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	19	3	31-Jan-08	148.5	6.98E+09	3.12E+08	1.53E+08
X-326	27-3	19	4	31-Jan-05	155	7.28E+09	3.26E+08	1.60E+08
X-326	27-3	19	5	05-Aug-04	1.5	7.05E+07	3.15E+06	1.55E+06
X-326	27-3	19	6	05-Aug-04	385.5	1.81E+10	8.10E+08	3.98E+08
X-326	27-3	19	7	05-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	19	8	05-Aug-04	256.5	1.20E+10	5.39E+08	2.65E+08
X-326	27-3	19	9	05-Aug-04	91.5	4.30E+09	1.92E+08	9.46E+07
X-326	27-3	19	10	05-Aug-04	324	1.52E+10	6.80E+08	3.35E+08
X-326	27-3	19	11	05-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	19	12	05-Aug-04	43.5	2.04E+09	9.14E+07	4.50E+07
X-326	27-3	20	1	06-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	20	2	06-Aug-04	247.5	1.37E+10	5.20E+08	2.36E+08
X-326	27-3	20	3	06-Aug-04	372	2.06E+10	7.81E+08	3.55E+08
X-326	27-3	20	4	06-Aug-04	12	6.64E+08	2.52E+07	1.14E+07
X-326	27-3	20	5	06-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	20	6	06-Aug-04	172.5	9.55E+09	3.62E+08	1.65E+08
X-326	27-3	20	7	06-Aug-04	367.5	2.03E+10	7.72E+08	3.51E+08
X-326	27-3	20	8	06-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	20	9	06-Aug-04	106.5	5.90E+09	2.24E+08	1.02E+08
X-326	27-3	20	10	06-Aug-04	139.5	7.72E+09	2.93E+08	1.33E+08
X-326	27-3	20	11	06-Aug-04	0	0.00E+00	0.00E+00	0.00E+00
X-326	27-3	20	12	06-Aug-04	165	9.13E+09	3.47E+08	1.57E+08
X-330	29-1	1	1	26-Jan-05	137	4.14E+09	2.88E+08	1.13E+10
X-330	29-1	1	2	26-Jan-05	4	1.21E+08	8.40E+06	3.29E+08
X-330	29-1	1	3	26-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	1	4	26-Jan-05	6	1.81E+08	1.26E+07	4.93E+08
X-330	29-1	1	5	26-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	1	6	26-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	1	7	26-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	1	8	26-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	1	9	26-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	1	10	26-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	2	1	09-Feb-05	204	6.17E+09	4.28E+08	1.76E+10
X-330	29-1	2	2	09-Feb-05	257	7.77E+09	5.40E+08	2.22E+10
X-330	29-1	2	3	09-Feb-05	91	2.75E+09	1.91E+08	7.87E+09
X-330	29-1	2	4	09-Feb-05	297	8.98E+09	6.24E+08	2.57E+10
X-330	29-1	2	5	09-Feb-05	38	1.15E+09	7.98E+07	3.29E+09
X-330	29-1	2	6	09-Feb-05	108	3.27E+09	2.27E+08	9.34E+09
X-330	29-1	2	7	09-Feb-05	345	1.04E+10	7.25E+08	2.98E+10
X-330	29-1	2	8	09-Feb-05	149	4.51E+09	3.13E+08	1.29E+10
X-330	29-1	2	9	09-Feb-05	276	8.35E+09	5.80E+08	2.39E+10
X-330	29-1	2	10	09-Feb-05	210	6.35E+09	4.41E+08	1.82E+10
X-330	29-1	3	1	27-Jan-05	12	3.63E+08	2.52E+07	9.86E+08
X-330	29-1	3	2	27-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	3	3	27-Jan-05	6	1.81E+08	1.26E+07	4.93E+08
X-330	29-1	3	4	27-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	3	5	27-Jan-05	4	1.21E+08	8.40E+06	3.29E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-1	3	6	27-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	3	7	27-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	3	8	27-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	3	9	27-Jan-05	6	1.81E+08	1.26E+07	4.93E+08
X-330	29-1	3	10	27-Jan-05	6	1.81E+08	1.26E+07	4.93E+08
X-330	29-1	4	1	08-Feb-05	125	3.78E+09	2.63E+08	1.25E+10
X-330	29-1	4	2	08-Feb-05	161	4.87E+09	3.38E+08	1.60E+10
X-330	29-1	4	3	08-Feb-05	65	1.97E+09	1.37E+08	6.48E+09
X-330	29-1	4	4	08-Feb-05	74	2.24E+09	1.55E+08	7.38E+09
X-330	29-1	4	5	08-Feb-05	75	2.27E+09	1.58E+08	7.48E+09
X-330	29-1	4	6	08-Feb-05	39	1.18E+09	8.19E+07	3.89E+09
X-330	29-1	4	7	08-Feb-05	135	4.08E+09	2.84E+08	1.35E+10
X-330	29-1	4	8	08-Feb-05	69	2.09E+09	1.45E+08	6.88E+09
X-330	29-1	4	9	08-Feb-05	80	2.42E+09	1.68E+08	7.97E+09
X-330	29-1	4	10	08-Feb-05	99	2.99E+09	2.08E+08	9.87E+09
X-330	29-1	5	1	28-Jan-05	8	2.42E+08	1.68E+07	6.57E+08
X-330	29-1	5	2	28-Jan-05	8	2.42E+08	1.68E+07	6.57E+08
X-330	29-1	5	3	28-Jan-05	11	3.33E+08	2.31E+07	9.04E+08
X-330	29-1	5	4	28-Jan-05	8	2.42E+08	1.68E+07	6.57E+08
X-330	29-1	5	5	28-Jan-05	16	4.84E+08	3.36E+07	1.31E+09
X-330	29-1	5	6	28-Jan-05	9	2.72E+08	1.89E+07	7.40E+08
X-330	29-1	5	7	28-Jan-05	9	2.72E+08	1.89E+07	7.40E+08
X-330	29-1	5	8	28-Jan-05	7	2.12E+08	1.47E+07	5.75E+08
X-330	29-1	5	9	28-Jan-05	9	2.72E+08	1.89E+07	7.40E+08
X-330	29-1	5	10	28-Jan-05	6	1.81E+08	1.26E+07	4.93E+08
X-330	29-1	6	1	07-Feb-05	102	3.08E+09	2.14E+08	9.06E+09
X-330	29-1	6	2	07-Feb-05	71	2.15E+09	1.49E+08	6.31E+09
X-330	29-1	6	3	07-Feb-05	33	9.98E+08	6.93E+07	2.93E+09
X-330	29-1	6	4	07-Feb-05	22	6.65E+08	4.62E+07	1.95E+09
X-330	29-1	6	5	07-Feb-05	36	1.09E+09	7.56E+07	3.20E+09
X-330	29-1	6	6	07-Feb-05	98	2.96E+09	2.06E+08	8.71E+09
X-330	29-1	6	7	07-Feb-05	131	3.96E+09	2.75E+08	1.16E+10
X-330	29-1	6	8	07-Feb-05	104	3.15E+09	2.18E+08	9.24E+09
X-330	29-1	6	9	07-Feb-05	107	3.24E+09	2.25E+08	9.51E+09
X-330	29-1	6	10	07-Feb-05	19	5.75E+08	3.99E+07	1.69E+09
X-330	29-1	7	1	31-Jan-05	4	1.21E+08	8.40E+06	3.29E+08
X-330	29-1	7	2	31-Jan-05	6	1.81E+08	1.26E+07	4.93E+08
X-330	29-1	7	3	31-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	7	4	31-Jan-05	6	1.81E+08	1.26E+07	4.93E+08
X-330	29-1	7	5	31-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	7	6	31-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	7	7	31-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	7	8	31-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	7	9	31-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	7	10	31-Jan-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	8	1	03-Feb-05	84	2.54E+09	1.76E+08	9.87E+09
X-330	29-1	8	2	03-Feb-05	192	5.81E+09	4.03E+08	2.26E+10
X-330	29-1	8	3	03-Feb-05	137	4.14E+09	2.88E+08	1.61E+10
X-330	29-1	8	4	03-Feb-05	62	1.88E+09	1.30E+08	7.29E+09
X-330	29-1	8	5	03-Feb-05	113	3.42E+09	2.37E+08	1.33E+10
X-330	29-1	8	6	03-Feb-05	98	2.96E+09	2.06E+08	1.15E+10
X-330	29-1	8	7	03-Feb-05	131	3.96E+09	2.75E+08	1.54E+10
X-330	29-1	8	8	03-Feb-05	50	1.51E+09	1.05E+08	5.88E+09
X-330	29-1	8	9	03-Feb-05	78	2.36E+09	1.64E+08	9.17E+09
X-330	29-1	8	10	03-Feb-05	96	2.90E+09	2.02E+08	1.13E+10

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-1	9	1	01-Feb-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	9	2	01-Feb-05	4	1.21E+08	8.40E+06	3.29E+08
X-330	29-1	9	3	01-Feb-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	9	4	01-Feb-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	9	5	01-Feb-05	6	1.81E+08	1.26E+07	4.93E+08
X-330	29-1	9	6	01-Feb-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	9	7	01-Feb-05	4	1.21E+08	8.40E+06	3.29E+08
X-330	29-1	9	8	01-Feb-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	9	9	01-Feb-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	9	10	01-Feb-05	5	1.51E+08	1.05E+07	4.11E+08
X-330	29-1	10	1	02-Feb-05	5	1.51E+08	1.05E+07	4.98E+08
X-330	29-1	10	2	02-Feb-05	123	3.72E+09	2.58E+08	1.23E+10
X-330	29-1	10	3	02-Feb-05	131	3.96E+09	2.75E+08	1.31E+10
X-330	29-1	10	4	02-Feb-05	50	1.51E+09	1.05E+08	4.98E+09
X-330	29-1	10	5	02-Feb-05	18	5.44E+08	3.78E+07	1.79E+09
X-330	29-1	10	6	02-Feb-05	38	1.15E+09	7.98E+07	3.79E+09
X-330	29-1	10	7	02-Feb-05	73	2.21E+09	1.53E+08	7.28E+09
X-330	29-1	10	8	02-Feb-05	198	5.99E+09	4.16E+08	1.97E+10
X-330	29-1	10	9	02-Feb-05	15	4.54E+08	3.15E+07	1.50E+09
X-330	29-1	10	10	02-Feb-05	4	1.21E+08	8.40E+06	3.99E+08
X-330	29-2	1	1	29-Oct-04	273	1.34E+10	5.73E+08	3.37E+09
X-330	29-2	1	2	29-Oct-04	239	1.18E+10	5.02E+08	2.95E+09
X-330	29-2	1	3	29-Oct-04	240	1.18E+10	5.04E+08	2.97E+09
X-330	29-2	1	4	29-Oct-04	113	5.56E+09	2.37E+08	1.40E+09
X-330	29-2	1	5	29-Oct-04	201	9.89E+09	4.22E+08	2.48E+09
X-330	29-2	1	6	29-Oct-04	220	1.08E+10	4.62E+08	2.72E+09
X-330	29-2	1	7	29-Oct-04	119	5.86E+09	2.50E+08	1.47E+09
X-330	29-2	1	8	29-Oct-04	623	3.07E+10	1.31E+09	7.70E+09
X-330	29-2	1	9	29-Oct-04	105	5.17E+09	2.21E+08	1.30E+09
X-330	29-2	1	10	29-Oct-04	177	8.71E+09	3.72E+08	2.19E+09
X-330	29-2	2	1	18-Oct-04	26	1.30E+09	5.46E+07	2.97E+08
X-330	29-2	2	2	18-Oct-04	18	9.00E+08	3.78E+07	2.05E+08
X-330	29-2	2	3	18-Oct-04	34	1.70E+09	7.14E+07	3.88E+08
X-330	29-2	2	4	18-Oct-04	32	1.60E+09	6.72E+07	3.65E+08
X-330	29-2	2	5	18-Oct-04	47	2.35E+09	9.87E+07	5.36E+08
X-330	29-2	2	6	18-Oct-04	29	1.45E+09	6.09E+07	3.31E+08
X-330	29-2	2	7	18-Oct-04	35	1.75E+09	7.35E+07	3.99E+08
X-330	29-2	2	8	18-Oct-04	40	2.00E+09	8.40E+07	4.57E+08
X-330	29-2	2	9	18-Oct-04	59	2.95E+09	1.24E+08	6.73E+08
X-330	29-2	2	10	18-Oct-04	237	1.19E+10	4.98E+08	2.71E+09
X-330	29-2	3	1	28-Oct-04	212	1.13E+10	4.45E+08	1.81E+09
X-330	29-2	3	2	28-Oct-04	192	1.03E+10	4.03E+08	1.64E+09
X-330	29-2	3	3	28-Oct-04	65	3.47E+09	1.37E+08	5.54E+08
X-330	29-2	3	4	28-Oct-04	180	9.62E+09	3.78E+08	1.53E+09
X-330	29-2	3	5	28-Oct-04	123	6.57E+09	2.58E+08	1.05E+09
X-330	29-2	3	6	28-Oct-04	218	1.17E+10	4.58E+08	1.86E+09
X-330	29-2	3	7	28-Oct-04	126	6.73E+09	2.65E+08	1.07E+09
X-330	29-2	3	8	28-Oct-04	143	7.64E+09	3.00E+08	1.22E+09
X-330	29-2	3	9	28-Oct-04	392	2.10E+10	8.23E+08	3.34E+09
X-330	29-2	3	10	28-Oct-04	110	5.88E+09	2.31E+08	9.37E+08
X-330	29-2	4	1	19-Oct-04	41	2.15E+09	8.61E+07	3.82E+08
X-330	29-2	4	2	19-Oct-04	39	2.05E+09	8.19E+07	3.63E+08
X-330	29-2	4	3	19-Oct-04	35	1.84E+09	7.35E+07	3.26E+08
X-330	29-2	4	4	19-Oct-04	57	2.99E+09	1.20E+08	5.31E+08
X-330	29-2	4	5	19-Oct-04	48	2.52E+09	1.01E+08	4.47E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-2	4	6	19-Oct-04	21	1.10E+09	4.41E+07	1.96E+08
X-330	29-2	4	7	19-Oct-04	381	2.00E+10	8.00E+08	3.55E+09
X-330	29-2	4	8	19-Oct-04	236	1.24E+10	4.96E+08	2.20E+09
X-330	29-2	4	9	19-Oct-04	152	7.99E+09	3.19E+08	1.42E+09
X-330	29-2	4	10	19-Oct-04	21	1.10E+09	4.41E+07	1.96E+08
X-330	29-2	5	1	27-Oct-04	249	1.23E+10	5.23E+08	3.08E+09
X-330	29-2	5	2	27-Oct-04	242	1.19E+10	5.08E+08	2.99E+09
X-330	29-2	5	3	27-Oct-04	165	8.12E+09	3.47E+08	2.04E+09
X-330	29-2	5	4	27-Oct-04	55	2.71E+09	1.16E+08	6.80E+08
X-330	29-2	5	5	27-Oct-04	377	1.86E+10	7.92E+08	4.66E+09
X-330	29-2	5	6	27-Oct-04	1043	5.13E+10	2.19E+09	1.29E+10
X-330	29-2	5	7	27-Oct-04	146	7.18E+09	3.07E+08	1.80E+09
X-330	29-2	5	8	27-Oct-04	158	7.77E+09	3.32E+08	1.95E+09
X-330	29-2	5	9	27-Oct-04	50	2.46E+09	1.05E+08	6.18E+08
X-330	29-2	5	10	27-Oct-04	182	8.96E+09	3.82E+08	2.25E+09
X-330	29-2	6	1	20-Oct-04	804	4.26E+10	1.69E+09	7.00E+09
X-330	29-2	6	2	20-Oct-04	54	2.86E+09	1.13E+08	4.70E+08
X-330	29-2	6	3	20-Oct-04	104	5.51E+09	2.18E+08	9.06E+08
X-330	29-2	6	4	02-Mar-08	66	3.50E+09	1.39E+08	5.67E+08
X-330	29-2	6	5	20-Oct-04	531	2.81E+10	1.12E+09	4.63E+09
X-330	29-2	6	6	20-Oct-04	33	1.75E+09	6.93E+07	2.87E+08
X-330	29-2	6	7	20-Oct-04	173	9.17E+09	3.63E+08	1.51E+09
X-330	29-2	6	8	20-Oct-04	332	1.76E+10	6.97E+08	2.89E+09
X-330	29-2	6	9	20-Oct-04	63	3.34E+09	1.32E+08	5.49E+08
X-330	29-2	6	10	20-Oct-04	45	2.38E+09	9.45E+07	3.92E+08
X-330	29-2	7	1	26-Oct-04	980	4.94E+10	2.06E+09	1.13E+10
X-330	29-2	7	2	26-Oct-04	68	3.43E+09	1.43E+08	7.82E+08
X-330	29-2	7	3	26-Oct-04	62	3.13E+09	1.30E+08	7.13E+08
X-330	29-2	7	4	26-Oct-04	160	8.07E+09	3.36E+08	1.84E+09
X-330	29-2	7	5	26-Oct-04	264	1.33E+10	5.54E+08	3.04E+09
X-330	29-2	7	6	26-Oct-04	81	4.08E+09	1.70E+08	9.31E+08
X-330	29-2	7	7	26-Oct-04	584	2.94E+10	1.23E+09	6.71E+09
X-330	29-2	7	8	26-Oct-04	45	2.27E+09	9.45E+07	5.17E+08
X-330	29-2	7	9	26-Oct-04	39	1.97E+09	8.19E+07	4.48E+08
X-330	29-2	7	10	26-Oct-04	140	7.06E+09	2.94E+08	1.61E+09
X-330	29-2	8	1	21-Oct-04	135	6.86E+09	2.84E+08	1.50E+09
X-330	29-2	8	2	21-Oct-04	149	7.57E+09	3.13E+08	1.66E+09
X-330	29-2	8	3	21-Oct-04	59	3.00E+09	1.24E+08	6.57E+08
X-330	29-2	8	4	21-Oct-04	259	1.32E+10	5.44E+08	2.88E+09
X-330	29-2	8	5	21-Oct-04	1040	5.29E+10	2.18E+09	1.16E+10
X-330	29-2	8	6	21-Oct-04	104	5.29E+09	2.18E+08	1.16E+09
X-330	29-2	8	7	21-Oct-04	167	8.49E+09	3.51E+08	1.86E+09
X-330	29-2	8	8	21-Oct-04	81	4.12E+09	1.70E+08	9.01E+08
X-330	29-2	8	9	21-Oct-04	449	2.28E+10	9.43E+08	5.00E+09
X-330	29-2	8	10	21-Oct-04	600	3.05E+10	1.26E+09	6.68E+09
X-330	29-2	9	1	25-Oct-04	666	3.36E+10	1.40E+09	7.52E+09
X-330	29-2	9	2	25-Oct-04	1125	5.67E+10	2.36E+09	1.27E+10
X-330	29-2	9	3	24-Oct-07	177	8.92E+09	3.72E+08	2.03E+09
X-330	29-2	9	4	25-Oct-04	146	7.36E+09	3.07E+08	1.65E+09
X-330	29-2	9	5	25-Oct-04	135	6.80E+09	2.84E+08	1.52E+09
X-330	29-2	9	6	25-Oct-04	101	5.09E+09	2.12E+08	1.14E+09
X-330	29-2	9	7	24-Oct-07	243	1.22E+10	5.10E+08	2.78E+09
X-330	29-2	9	8	25-Oct-04	1152	5.81E+10	2.42E+09	1.30E+10
X-330	29-2	9	9	25-Oct-04	168	8.47E+09	3.53E+08	1.90E+09
X-330	29-2	9	10	25-Oct-04	90	4.54E+09	1.89E+08	1.02E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-2	10	1	22-Oct-04	464	2.27E+10	9.74E+08	5.97E+09
X-330	29-2	10	2	22-Oct-04	245	1.20E+10	5.15E+08	3.15E+09
X-330	29-2	10	3	22-Oct-04	789	3.85E+10	1.66E+09	1.02E+10
X-330	29-2	10	4	22-Oct-04	261	1.27E+10	5.48E+08	3.36E+09
X-330	29-2	10	5	22-Oct-04	77	3.76E+09	1.62E+08	9.91E+08
X-330	29-2	10	6	22-Oct-04	81	3.95E+09	1.70E+08	1.04E+09
X-330	29-2	10	7	22-Oct-04	840	4.10E+10	1.76E+09	1.08E+10
X-330	29-2	10	8	22-Oct-04	64	3.12E+09	1.34E+08	8.24E+08
X-330	29-2	10	9	22-Oct-04	484	2.36E+10	1.02E+09	6.23E+09
X-330	29-2	10	10	22-Oct-04	141	6.88E+09	2.96E+08	1.81E+09
X-330	29-3	1	1	01-Oct-04	361	1.85E+10	7.58E+08	3.74E+09
X-330	29-3	1	2	01-Oct-04	98	5.02E+09	2.06E+08	1.01E+09
X-330	29-3	1	3	01-Oct-04	264	1.35E+10	5.54E+08	2.73E+09
X-330	29-3	1	4	01-Oct-04	87	4.46E+09	1.83E+08	9.00E+08
X-330	29-3	1	5	01-Oct-04	68	3.48E+09	1.43E+08	7.04E+08
X-330	29-3	1	6	01-Oct-04	95	4.87E+09	2.00E+08	9.83E+08
X-330	29-3	1	7	01-Oct-04	167	8.56E+09	3.51E+08	1.73E+09
X-330	29-3	1	8	01-Oct-04	35	1.79E+09	7.35E+07	3.62E+08
X-330	29-3	1	9	01-Oct-04	591	3.03E+10	1.24E+09	6.12E+09
X-330	29-3	1	10	01-Oct-04	26	1.33E+09	5.46E+07	2.69E+08
X-330	29-3	2	1	20-Sep-04	75	4.15E+09	1.58E+08	5.13E+08
X-330	29-3	2	2	20-Sep-04	54	2.99E+09	1.13E+08	3.70E+08
X-330	29-3	2	3	20-Sep-04	122	6.75E+09	2.56E+08	8.35E+08
X-330	29-3	2	4	20-Sep-04	158	8.75E+09	3.32E+08	1.08E+09
X-330	29-3	2	5	20-Sep-04	128	7.09E+09	2.69E+08	8.76E+08
X-330	29-3	2	6	20-Sep-04	90	4.98E+09	1.89E+08	6.16E+08
X-330	29-3	2	7	20-Sep-04	50	2.77E+09	1.05E+08	3.42E+08
X-330	29-3	2	8	20-Sep-04	117	6.48E+09	2.46E+08	8.01E+08
X-330	29-3	2	9	20-Sep-04	150	8.30E+09	3.15E+08	1.03E+09
X-330	29-3	2	10	20-Sep-04	513	2.84E+10	1.08E+09	3.51E+09
X-330	29-3	3	1	30-Sep-04	219	1.23E+10	4.60E+08	1.31E+09
X-330	29-3	3	2	30-Sep-04	659	3.71E+10	1.38E+09	3.93E+09
X-330	29-3	3	3	30-Sep-04	62	3.49E+09	1.30E+08	3.70E+08
X-330	29-3	3	4	30-Sep-04	22	1.24E+09	4.62E+07	1.31E+08
X-330	29-3	3	5	02-Jan-08	656	3.70E+10	1.38E+09	3.91E+09
X-330	29-3	3	6	30-Sep-04	15	8.45E+08	3.15E+07	8.95E+07
X-330	29-3	3	7	30-Sep-04	245	1.38E+10	5.15E+08	1.46E+09
X-330	29-3	3	8	30-Sep-04	65	3.66E+09	1.37E+08	3.88E+08
X-330	29-3	3	9	30-Sep-04	29	1.63E+09	6.09E+07	1.73E+08
X-330	29-3	3	10	30-Sep-04	62	3.49E+09	1.30E+08	3.70E+08
X-330	29-3	4	1	21-Sep-04	89	4.41E+09	1.87E+08	1.07E+09
X-330	29-3	4	2	21-Sep-04	69	3.42E+09	1.45E+08	8.30E+08
X-330	29-3	4	3	21-Sep-04	56	2.78E+09	1.18E+08	6.74E+08
X-330	29-3	4	4	21-Sep-04	42	2.08E+09	8.82E+07	5.05E+08
X-330	29-3	4	5	21-Sep-04	75	3.72E+09	1.58E+08	9.02E+08
X-330	29-3	4	6	21-Sep-04	66	3.27E+09	1.39E+08	7.94E+08
X-330	29-3	4	7	21-Sep-04	81	4.02E+09	1.70E+08	9.74E+08
X-330	29-3	4	8	21-Sep-04	95	4.71E+09	2.00E+08	1.14E+09
X-330	29-3	4	9	21-Sep-04	225	1.12E+10	4.73E+08	2.71E+09
X-330	29-3	4	10	21-Sep-04	633	3.14E+10	1.33E+09	7.61E+09
X-330	29-3	5	1	29-Sep-04	56	2.80E+09	1.18E+08	6.61E+08
X-330	29-3	5	2	29-Sep-04	33	1.65E+09	6.93E+07	3.89E+08
X-330	29-3	5	3	29-Sep-04	68	3.40E+09	1.43E+08	8.03E+08
X-330	29-3	5	4	29-Sep-04	38	1.90E+09	7.98E+07	4.48E+08
X-330	29-3	5	5	29-Sep-04	50	2.50E+09	1.05E+08	5.90E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-3	5	6	29-Sep-04	69	3.45E+09	1.45E+08	8.14E+08
X-330	29-3	5	7	29-Sep-04	63	3.15E+09	1.32E+08	7.44E+08
X-330	29-3	5	8	29-Sep-04	248	1.24E+10	5.21E+08	2.93E+09
X-330	29-3	5	9	29-Sep-04	435	2.18E+10	9.14E+08	5.13E+09
X-330	29-3	5	10	29-Sep-04	111	5.55E+09	2.33E+08	1.31E+09
X-330	29-3	6	1	22-Sep-04	314	1.65E+10	6.59E+08	2.88E+09
X-330	29-3	6	2	22-Sep-04	99	5.20E+09	2.08E+08	9.09E+08
X-330	29-3	6	3	22-Sep-04	38	2.00E+09	7.98E+07	3.49E+08
X-330	29-3	6	4	22-Sep-04	47	2.47E+09	9.87E+07	4.31E+08
X-330	29-3	6	5	22-Sep-04	60	3.15E+09	1.26E+08	5.51E+08
X-330	29-3	6	6	22-Sep-04	23	1.21E+09	4.83E+07	2.11E+08
X-330	29-3	6	7	22-Sep-04	47	2.47E+09	9.87E+07	4.31E+08
X-330	29-3	6	8	22-Sep-04	38	2.00E+09	7.98E+07	3.49E+08
X-330	29-3	6	9	22-Sep-04	65	3.42E+09	1.37E+08	5.97E+08
X-330	29-3	6	10	22-Sep-04	45	2.36E+09	9.45E+07	4.13E+08
X-330	29-3	7	1	28-Sep-04	69	3.40E+09	1.45E+08	8.74E+08
X-330	29-3	7	2	28-Sep-04	468	2.30E+10	9.83E+08	5.93E+09
X-330	29-3	7	3	28-Sep-04	39	1.92E+09	8.19E+07	4.94E+08
X-330	29-3	7	4	28-Sep-04	584	2.87E+10	1.23E+09	7.39E+09
X-330	29-3	7	5	28-Sep-04	273	1.34E+10	5.73E+08	3.46E+09
X-330	29-3	7	6	28-Sep-04	54	2.66E+09	1.13E+08	6.84E+08
X-330	29-3	7	7	28-Sep-04	47	2.31E+09	9.87E+07	5.95E+08
X-330	29-3	7	8	28-Sep-04	93	4.58E+09	1.95E+08	1.18E+09
X-330	29-3	7	9	28-Sep-04	51	2.51E+09	1.07E+08	6.46E+08
X-330	29-3	7	10	28-Sep-04	53	2.61E+09	1.11E+08	6.71E+08
X-330	29-3	8	1	23-Sep-04	40	2.08E+09	8.40E+07	3.93E+08
X-330	29-3	8	2	23-Sep-04	36	1.88E+09	7.56E+07	3.54E+08
X-330	29-3	8	3	23-Sep-04	34	1.77E+09	7.14E+07	3.34E+08
X-330	29-3	8	4	23-Sep-04	96	5.00E+09	2.02E+08	9.43E+08
X-330	29-3	8	5	23-Sep-04	71	3.70E+09	1.49E+08	6.97E+08
X-330	29-3	8	6	23-Sep-04	28	1.46E+09	5.88E+07	2.75E+08
X-330	29-3	8	7	23-Sep-04	51	2.66E+09	1.07E+08	5.01E+08
X-330	29-3	8	8	23-Sep-04	78	4.06E+09	1.64E+08	7.66E+08
X-330	29-3	8	9	23-Sep-04	62	3.23E+09	1.30E+08	6.09E+08
X-330	29-3	8	10	23-Sep-04	77	4.01E+09	1.62E+08	7.56E+08
X-330	29-3	9	1	27-Sep-04	48	2.36E+09	1.01E+08	5.93E+08
X-330	29-3	9	2	27-Sep-04	55	2.71E+09	1.16E+08	6.80E+08
X-330	29-3	9	3	27-Sep-04	44	2.17E+09	9.24E+07	5.44E+08
X-330	29-3	9	4	27-Sep-04	22	1.08E+09	4.62E+07	2.72E+08
X-330	29-3	9	5	27-Sep-04	37	1.82E+09	7.77E+07	4.57E+08
X-330	29-3	9	6	27-Sep-04	68	3.35E+09	1.43E+08	8.41E+08
X-330	29-3	9	7	27-Sep-04	29	1.43E+09	6.09E+07	3.59E+08
X-330	29-3	9	8	27-Sep-04	24	1.18E+09	5.04E+07	2.97E+08
X-330	29-3	9	9	27-Sep-04	21	1.03E+09	4.41E+07	2.60E+08
X-330	29-3	9	10	27-Sep-04	38	1.87E+09	7.98E+07	4.70E+08
X-330	29-3	10	1	24-Sep-04	122	6.69E+09	2.56E+08	8.73E+08
X-330	29-3	10	2	24-Sep-04	80	4.39E+09	1.68E+08	5.72E+08
X-330	29-3	10	3	24-Sep-04	80	4.39E+09	1.68E+08	5.72E+08
X-330	29-3	10	4	24-Sep-04	117	6.42E+09	2.46E+08	8.37E+08
X-330	29-3	10	5	24-Sep-04	212	1.16E+10	4.45E+08	1.52E+09
X-330	29-3	10	6	24-Sep-04	456	2.50E+10	9.58E+08	3.26E+09
X-330	29-3	10	7	24-Sep-04	114	6.25E+09	2.39E+08	8.15E+08
X-330	29-3	10	8	24-Sep-04	98	5.38E+09	2.06E+08	7.01E+08
X-330	29-3	10	9	24-Sep-04	132	7.24E+09	2.77E+08	9.44E+08
X-330	29-3	10	10	24-Sep-04	131	7.19E+09	2.75E+08	9.37E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-4	1	1	14-Sep-04	143	7.33E+09	3.00E+08	1.52E+09
X-330	29-4	1	2	14-Sep-04	107	5.48E+09	2.25E+08	1.13E+09
X-330	29-4	1	3	14-Sep-04	182	9.33E+09	3.82E+08	1.93E+09
X-330	29-4	1	4	14-Sep-04	1196	6.13E+10	2.51E+09	1.27E+10
X-330	29-4	1	5	14-Sep-04	197	1.01E+10	4.14E+08	2.09E+09
X-330	29-4	1	6	14-Sep-04	140	7.17E+09	2.94E+08	1.48E+09
X-330	29-4	1	7	14-Sep-04	98	5.02E+09	2.06E+08	1.04E+09
X-330	29-4	1	8	14-Sep-04	95	4.87E+09	2.00E+08	1.01E+09
X-330	29-4	1	9	14-Sep-04	104	5.33E+09	2.18E+08	1.10E+09
X-330	29-4	1	10	14-Sep-04	345	1.77E+10	7.25E+08	3.66E+09
X-330	29-4	2	1	04-Sep-04	695	3.65E+10	1.46E+09	6.52E+09
X-330	29-4	2	2	04-Sep-04	101	5.31E+09	2.12E+08	9.47E+08
X-330	29-4	2	3	04-Sep-04	47	2.47E+09	9.87E+07	4.41E+08
X-330	29-4	2	4	04-Sep-04	15	7.88E+08	3.15E+07	1.41E+08
X-330	29-4	2	5	04-Sep-04	14	7.36E+08	2.94E+07	1.31E+08
X-330	29-4	2	6	04-Sep-04	66	3.47E+09	1.39E+08	6.19E+08
X-330	29-4	2	7	04-Sep-04	135	7.09E+09	2.84E+08	1.27E+09
X-330	29-4	2	8	04-Sep-04	51	2.68E+09	1.07E+08	4.78E+08
X-330	29-4	2	9	04-Sep-04	545	2.86E+10	1.14E+09	5.11E+09
X-330	29-4	2	10	04-Sep-04	140	7.36E+09	2.94E+08	1.31E+09
X-330	29-4	3	1	16-Sep-04	329	1.70E+10	6.91E+08	3.36E+09
X-330	29-4	3	2	16-Sep-04	135	6.98E+09	2.84E+08	1.38E+09
X-330	29-4	3	3	16-Sep-04	252	1.30E+10	5.29E+08	2.57E+09
X-330	29-4	3	4	16-Sep-04	200	1.03E+10	4.20E+08	2.04E+09
X-330	29-4	3	5	16-Sep-04	180	9.30E+09	3.78E+08	1.84E+09
X-330	29-4	3	6	16-Sep-04	107	5.53E+09	2.25E+08	1.09E+09
X-330	29-4	3	7	16-Sep-04	288	1.49E+10	6.05E+08	2.94E+09
X-330	29-4	3	8	16-Sep-04	183	9.46E+09	3.84E+08	1.87E+09
X-330	29-4	3	9	16-Sep-04	129	6.67E+09	2.71E+08	1.32E+09
X-330	29-4	3	10	16-Sep-04	233	1.20E+10	4.89E+08	2.38E+09
X-330	29-4	4	1	05-Jan-05	5	2.65E+08	1.05E+07	4.42E+07
X-330	29-4	4	2	05-Jan-05	6	3.18E+08	1.26E+07	5.30E+07
X-330	29-4	4	3	05-Jan-05	9	4.77E+08	1.89E+07	7.95E+07
X-330	29-4	4	4	05-Jan-05	6	3.18E+08	1.26E+07	5.30E+07
X-330	29-4	4	5	05-Jan-05	8	4.24E+08	1.68E+07	7.07E+07
X-330	29-4	4	6	15-Sep-05	456	2.42E+10	9.58E+08	4.03E+09
X-330	29-4	4	7	05-Jan-05	151	8.00E+09	3.17E+08	1.33E+09
X-330	29-4	4	8	05-Jan-05	11	5.83E+08	2.31E+07	9.72E+07
X-330	29-4	4	9	05-Jan-05	8	4.24E+08	1.68E+07	7.07E+07
X-330	29-4	4	10	05-Jan-05	8	4.24E+08	1.68E+07	7.07E+07
X-330	29-4	5	1	15-Sep-04	429	2.37E+10	9.01E+08	2.94E+09
X-330	29-4	5	2	15-Sep-04	657	3.64E+10	1.38E+09	4.51E+09
X-330	29-4	5	3	08-Sep-08	855	4.73E+10	1.80E+09	6.60E+09
X-330	29-4	5	4	15-Sep-04	504	2.79E+10	1.06E+09	3.46E+09
X-330	29-4	5	5	15-Sep-04	593	3.28E+10	1.25E+09	4.07E+09
X-330	29-4	5	6	15-Sep-04	543	3.01E+10	1.14E+09	3.72E+09
X-330	29-4	5	7	15-Sep-04	362	2.00E+10	7.60E+08	2.48E+09
X-330	29-4	5	8	08-Sep-08	261	1.44E+10	5.48E+08	2.01E+09
X-330	29-4	5	9	15-Sep-04	644	3.57E+10	1.35E+09	4.42E+09
X-330	29-4	5	10	15-Sep-04	699	3.87E+10	1.47E+09	4.79E+09
X-330	29-4	6	1	07-Sep-04	86	4.60E+09	1.81E+08	7.20E+08
X-330	29-4	6	2	07-Sep-04	17	9.09E+08	3.57E+07	1.42E+08
X-330	29-4	6	3	07-Sep-04	107	5.72E+09	2.25E+08	8.96E+08
X-330	29-4	6	4	07-Sep-04	21	1.12E+09	4.41E+07	1.76E+08
X-330	29-4	6	5	07-Sep-04	141	7.54E+09	2.96E+08	1.18E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-4	6	6	07-Sep-04	23	1.23E+09	4.83E+07	1.93E+08
X-330	29-4	6	7	07-Sep-04	20	1.07E+09	4.20E+07	1.68E+08
X-330	29-4	6	8	07-Sep-04	21	1.12E+09	4.41E+07	1.76E+08
X-330	29-4	6	9	07-Sep-04	99	5.29E+09	2.08E+08	8.29E+08
X-330	29-4	6	10	07-Sep-04	33	1.76E+09	6.93E+07	2.76E+08
X-330	29-4	7	1	14-Sep-04	101	5.26E+09	2.12E+08	9.89E+08
X-330	29-4	7	2	14-Sep-04	74	3.86E+09	1.55E+08	7.25E+08
X-330	29-4	7	3	14-Sep-04	131	6.83E+09	2.75E+08	1.28E+09
X-330	29-4	7	4	14-Sep-04	126	6.56E+09	2.65E+08	1.23E+09
X-330	29-4	7	5	14-Sep-04	36	1.88E+09	7.56E+07	3.53E+08
X-330	29-4	7	6	14-Sep-04	99	5.16E+09	2.08E+08	9.69E+08
X-330	29-4	7	7	14-Sep-04	150	7.82E+09	3.15E+08	1.47E+09
X-330	29-4	7	8	14-Sep-04	390	2.03E+10	8.19E+08	3.82E+09
X-330	29-4	7	9	14-Sep-04	987	5.14E+10	2.07E+09	9.67E+09
X-330	29-4	7	10	14-Sep-04	456	2.38E+10	9.58E+08	4.47E+09
X-330	29-4	8	1	08-Sep-04	785	4.16E+10	1.65E+09	6.80E+09
X-330	29-4	8	2	08-May-08	16.5	8.82E+08	3.47E+07	1.42E+08
X-330	29-4	8	3	08-May-08	16.5	8.82E+08	3.47E+07	1.42E+08
X-330	29-4	8	4	08-Sep-04	962	5.10E+10	2.02E+09	8.33E+09
X-330	29-4	8	5	08-May-08	39	2.08E+09	8.19E+07	3.35E+08
X-330	29-4	8	6	08-Sep-04	974	5.16E+10	2.05E+09	8.44E+09
X-330	29-4	8	7	08-Sep-04	391	2.07E+10	8.21E+08	3.39E+09
X-330	29-4	8	8	08-Sep-04	709	3.76E+10	1.49E+09	6.14E+09
X-330	29-4	8	9	08-Sep-04	602	3.19E+10	1.26E+09	5.21E+09
X-330	29-4	8	10	08-Sep-04	1027	5.44E+10	2.16E+09	8.90E+09
X-330	29-4	9	1	13-Sep-04	23	1.21E+09	4.83E+07	2.12E+08
X-330	29-4	9	2	13-Sep-04	35	1.84E+09	7.35E+07	3.23E+08
X-330	29-4	9	3	13-Sep-04	29	1.52E+09	6.09E+07	2.68E+08
X-330	29-4	9	4	13-Sep-04	35	1.84E+09	7.35E+07	3.23E+08
X-330	29-4	9	5	13-Sep-04	24	1.26E+09	5.04E+07	2.22E+08
X-330	29-4	9	6	13-Sep-04	32	1.68E+09	6.72E+07	2.96E+08
X-330	29-4	9	7	13-Sep-04	15	7.88E+08	3.15E+07	1.39E+08
X-330	29-4	9	8	13-Sep-04	48	2.52E+09	1.01E+08	4.43E+08
X-330	29-4	9	9	30-Jun-08	750	3.94E+10	1.58E+09	6.82E+09
X-330	29-4	9	10	13-Sep-04	111	5.83E+09	2.33E+08	1.03E+09
X-330	29-4	10	1	09-Sep-04	59	3.36E+09	1.24E+08	5.27E+08
X-330	29-4	10	2	09-Sep-04	635	3.61E+10	1.33E+09	5.68E+09
X-330	29-4	10	3	09-Sep-04	126	7.17E+09	2.65E+08	1.13E+09
X-330	29-4	10	4	09-Sep-04	153	8.70E+09	3.21E+08	1.37E+09
X-330	29-4	10	5	09-Sep-04	80	4.55E+09	1.68E+08	7.15E+08
X-330	29-4	10	6	09-Sep-04	557	3.17E+10	1.17E+09	4.98E+09
X-330	29-4	10	7	09-Sep-04	20	1.14E+09	4.20E+07	1.79E+08
X-330	29-4	10	8	09-Sep-04	143	8.13E+09	3.00E+08	1.28E+09
X-330	29-4	10	9	09-Sep-04	209	1.19E+10	4.39E+08	1.87E+09
X-330	29-4	10	10	09-Sep-04	378	2.15E+10	7.94E+08	3.38E+09
X-330	29-5	1	1	02-Sep-04	14	7.82E+08	2.94E+07	8.51E+07
X-330	29-5	1	2	02-Sep-04	23	1.28E+09	4.83E+07	1.40E+08
X-330	29-5	1	3	02-Sep-04	13	7.26E+08	2.73E+07	7.90E+07
X-330	29-5	1	4	02-Sep-04	7	3.91E+08	1.47E+07	4.25E+07
X-330	29-5	1	5	02-Sep-04	94	5.25E+09	1.97E+08	5.71E+08
X-330	29-5	1	6	02-Sep-04	10	5.59E+08	2.10E+07	6.08E+07
X-330	29-5	1	7	02-Sep-04	144	8.04E+09	3.02E+08	8.75E+08
X-330	29-5	1	8	02-Sep-04	9	5.03E+08	1.89E+07	5.47E+07
X-330	29-5	1	9	02-Sep-04	11	6.14E+08	2.31E+07	6.69E+07
X-330	29-5	1	10	02-Sep-04	21	1.17E+09	4.41E+07	1.28E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-5	2	1	13-Jun-06	21	1.18E+09	4.41E+07	1.24E+08
X-330	29-5	2	2	23-Aug-04	11	6.20E+08	2.31E+07	6.51E+07
X-330	29-5	2	3	23-Aug-04	10	5.64E+08	2.10E+07	5.92E+07
X-330	29-5	2	4	23-Aug-04	10	5.64E+08	2.10E+07	5.92E+07
X-330	29-5	2	5	23-Aug-04	8	4.51E+08	1.68E+07	4.74E+07
X-330	29-5	2	6	23-Aug-04	8	4.51E+08	1.68E+07	4.74E+07
X-330	29-5	2	7	23-Aug-04	9	5.07E+08	1.89E+07	5.33E+07
X-330	29-5	2	8	23-Aug-04	8	4.51E+08	1.68E+07	4.74E+07
X-330	29-5	2	9	23-Aug-04	8	4.51E+08	1.68E+07	4.74E+07
X-330	29-5	2	10	23-Aug-04	14	7.89E+08	2.94E+07	8.29E+07
X-330	29-5	3	1	01-Sep-04	897	4.92E+10	1.88E+09	6.51E+09
X-330	29-5	3	2	01-Sep-04	113	6.20E+09	2.37E+08	8.20E+08
X-330	29-5	3	3	01-Sep-04	236	1.29E+10	4.96E+08	1.71E+09
X-330	29-5	3	4	01-Sep-04	192	1.05E+10	4.03E+08	1.39E+09
X-330	29-5	3	5	01-Sep-04	213	1.17E+10	4.47E+08	1.55E+09
X-330	29-5	3	6	16-Jun-08	0	0.00E+00	0.00E+00	0.00E+00
X-330	29-5	3	7	01-Sep-04	332	1.82E+10	6.97E+08	2.41E+09
X-330	29-5	3	8	01-Sep-04	117	6.42E+09	2.46E+08	8.49E+08
X-330	29-5	3	9	01-Sep-04	66	3.62E+09	1.39E+08	4.79E+08
X-330	29-5	3	10	01-Sep-04	96	5.27E+09	2.02E+08	6.97E+08
X-330	29-5	4	1	24-Aug-04	9	5.03E+08	1.89E+07	5.58E+07
X-330	29-5	4	2	24-Aug-04	17	9.50E+08	3.57E+07	1.05E+08
X-330	29-5	4	3	24-Aug-04	26	1.45E+09	5.46E+07	1.61E+08
X-330	29-5	4	4	24-Aug-04	11	6.14E+08	2.31E+07	6.83E+07
X-330	29-5	4	5	24-Aug-04	21	1.17E+09	4.41E+07	1.30E+08
X-330	29-5	4	6	24-Aug-04	9	5.03E+08	1.89E+07	5.58E+07
X-330	29-5	4	7	24-Aug-04	27	1.51E+09	5.67E+07	1.68E+08
X-330	29-5	4	8	24-Aug-04	8	4.47E+08	1.68E+07	4.96E+07
X-330	29-5	4	9	24-Aug-04	15	8.38E+08	3.15E+07	9.31E+07
X-330	29-5	4	10	24-Aug-04	12	6.70E+08	2.52E+07	7.45E+07
X-330	29-5	5	1	31-Aug-04	29	1.55E+09	6.09E+07	2.50E+08
X-330	29-5	5	2	31-Aug-04	83	4.44E+09	1.74E+08	7.15E+08
X-330	29-5	5	3	31-Aug-04	23	1.23E+09	4.83E+07	1.98E+08
X-330	29-5	5	4	31-Aug-04	56	2.99E+09	1.18E+08	4.82E+08
X-330	29-5	5	5	31-Aug-04	50	2.67E+09	1.05E+08	4.31E+08
X-330	29-5	5	6	31-Aug-04	54	2.89E+09	1.13E+08	4.65E+08
X-330	29-5	5	7	31-Aug-04	105	5.61E+09	2.21E+08	9.04E+08
X-330	29-5	5	8	31-Aug-04	40	2.14E+09	8.40E+07	3.45E+08
X-330	29-5	5	9	31-Aug-04	26	1.39E+09	5.46E+07	2.24E+08
X-330	29-5	5	10	31-Aug-04	17	9.09E+08	3.57E+07	1.46E+08
X-330	29-5	6	1	25-Aug-04	35	1.95E+09	7.35E+07	2.20E+08
X-330	29-5	6	2	25-Aug-04	42	2.35E+09	8.82E+07	2.64E+08
X-330	29-5	6	3	25-Aug-04	44	2.46E+09	9.24E+07	2.77E+08
X-330	29-5	6	4	25-Aug-04	10	5.59E+08	2.10E+07	6.30E+07
X-330	29-5	6	5	25-Aug-04	48	2.68E+09	1.01E+08	3.02E+08
X-330	29-5	6	6	25-Aug-04	21	1.17E+09	4.41E+07	1.32E+08
X-330	29-5	6	7	25-Aug-04	6	3.35E+08	1.26E+07	3.78E+07
X-330	29-5	6	8	25-Aug-04	17	9.50E+08	3.57E+07	1.07E+08
X-330	29-5	6	9	25-Aug-04	11	6.14E+08	2.31E+07	6.93E+07
X-330	29-5	6	10	25-Aug-04	11	6.14E+08	2.31E+07	6.93E+07
X-330	29-5	7	1	30-Aug-04	213	1.13E+10	4.47E+08	1.90E+09
X-330	29-5	7	2	30-Aug-04	13	6.89E+08	2.73E+07	1.16E+08
X-330	29-5	7	3	30-Aug-04	22	1.17E+09	4.62E+07	1.96E+08
X-330	29-5	7	4	30-Aug-04	14	7.42E+08	2.94E+07	1.25E+08
X-330	29-5	7	5	30-Aug-04	18	9.54E+08	3.78E+07	1.60E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-5	7	6	30-Aug-04	20	1.06E+09	4.20E+07	1.78E+08
X-330	29-5	7	7	30-Aug-04	22	1.17E+09	4.62E+07	1.96E+08
X-330	29-5	7	8	30-Aug-04	108	5.72E+09	2.27E+08	9.63E+08
X-330	29-5	7	9	30-Aug-04	12	6.36E+08	2.52E+07	1.07E+08
X-330	29-5	7	10	30-Aug-04	30	1.59E+09	6.30E+07	2.67E+08
X-330	29-5	8	1	17-Jan-05	9	5.03E+08	1.89E+07	5.58E+07
X-330	29-5	8	2	17-Jan-05	9	5.03E+08	1.89E+07	5.58E+07
X-330	29-5	8	3	17-Jan-05	8	4.47E+08	1.68E+07	4.96E+07
X-330	29-5	8	4	17-Jan-05	9	5.03E+08	1.89E+07	5.58E+07
X-330	29-5	8	5	17-Jan-05	6	3.35E+08	1.26E+07	3.72E+07
X-330	29-5	8	6	17-Jan-05	9	5.03E+08	1.89E+07	5.58E+07
X-330	29-5	8	7	17-Jan-05	9	5.03E+08	1.89E+07	5.58E+07
X-330	29-5	8	8	12-Aug-06	147	8.21E+09	3.09E+08	9.12E+08
X-330	29-5	8	9	17-Jan-05	12	6.70E+08	2.52E+07	7.45E+07
X-330	29-5	8	10	17-Jan-05	9	5.03E+08	1.89E+07	5.58E+07
X-330	29-5	9	1	27-Aug-04	260	1.44E+10	5.46E+08	1.71E+09
X-330	29-5	9	2	27-Aug-04	159	8.80E+09	3.34E+08	1.05E+09
X-330	29-5	9	3	27-Aug-04	185	1.02E+10	3.89E+08	1.22E+09
X-330	29-5	9	4	27-Aug-04	269	1.49E+10	5.65E+08	1.77E+09
X-330	29-5	9	5	27-Aug-04	164	9.08E+09	3.44E+08	1.08E+09
X-330	29-5	9	6	27-Aug-04	186	1.03E+10	3.91E+08	1.22E+09
X-330	29-5	9	7	27-Aug-04	266	1.47E+10	5.59E+08	1.75E+09
X-330	29-5	9	8	27-Aug-04	206	1.14E+10	4.33E+08	1.35E+09
X-330	29-5	9	9	27-Aug-04	209	1.16E+10	4.39E+08	1.37E+09
X-330	29-5	9	10	27-Aug-04	176	9.74E+09	3.70E+08	1.16E+09
X-330	29-5	10	1	26-Aug-04	62	3.43E+09	1.30E+08	3.99E+08
X-330	29-5	10	2	26-Aug-04	54	2.99E+09	1.13E+08	3.47E+08
X-330	29-5	10	3	26-Aug-04	83	4.59E+09	1.74E+08	5.34E+08
X-330	29-5	10	4	26-Aug-04	47	2.60E+09	9.87E+07	3.02E+08
X-330	29-5	10	5	26-Aug-04	23	1.27E+09	4.83E+07	1.48E+08
X-330	29-5	10	6	26-Aug-04	36	1.99E+09	7.56E+07	2.32E+08
X-330	29-5	10	7	26-Aug-04	86	4.76E+09	1.81E+08	5.53E+08
X-330	29-5	10	8	26-Aug-04	38	2.10E+09	7.98E+07	2.44E+08
X-330	29-5	10	9	26-Aug-04	21	1.16E+09	4.41E+07	1.35E+08
X-330	29-5	10	10	26-Aug-04	17	9.41E+08	3.57E+07	1.09E+08
X-330	29-6	1	1	16-Aug-04	35	1.95E+09	7.35E+07	1.61E+08
X-330	29-6	1	2	16-Aug-04	41	2.29E+09	8.61E+07	1.88E+08
X-330	29-6	1	3	16-Aug-04	59	3.30E+09	1.24E+08	2.71E+08
X-330	29-6	1	4	16-Aug-04	48	2.68E+09	1.01E+08	2.21E+08
X-330	29-6	1	5	16-Aug-04	110	6.14E+09	2.31E+08	5.05E+08
X-330	29-6	1	6	16-Aug-04	80	4.47E+09	1.68E+08	3.68E+08
X-330	29-6	1	7	16-Aug-04	480	2.68E+10	1.01E+09	2.21E+09
X-330	29-6	1	8	16-Aug-04	629	3.51E+10	1.32E+09	2.89E+09
X-330	29-6	1	9	16-Aug-04	57	3.18E+09	1.20E+08	2.62E+08
X-330	29-6	1	10	16-Aug-04	50	2.79E+09	1.05E+08	2.30E+08
X-330	29-6	2	1	03-Aug-04	24	1.35E+09	5.04E+07	9.77E+07
X-330	29-6	2	2	03-Aug-04	42	2.37E+09	8.82E+07	1.71E+08
X-330	29-6	2	3	03-Aug-04	35	1.97E+09	7.35E+07	1.42E+08
X-330	29-6	2	4	03-Aug-04	27	1.52E+09	5.67E+07	1.10E+08
X-330	29-6	2	5	03-Aug-04	41	2.31E+09	8.61E+07	1.67E+08
X-330	29-6	2	6	03-Aug-04	81	4.57E+09	1.70E+08	3.30E+08
X-330	29-6	2	7	03-Aug-04	36	2.03E+09	7.56E+07	1.47E+08
X-330	29-6	2	8	03-Aug-04	185	1.04E+10	3.89E+08	7.53E+08
X-330	29-6	2	9	03-Aug-04	47	2.65E+09	9.87E+07	1.91E+08
X-330	29-6	2	10	03-Aug-04	125	7.05E+09	2.63E+08	5.09E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-6	3	1	14-Aug-04	77	4.34E+09	1.62E+08	2.85E+08
X-330	29-6	3	2	14-Aug-04	13	7.33E+08	2.73E+07	4.81E+07
X-330	29-6	3	3	14-Aug-04	12	6.76E+08	2.52E+07	4.44E+07
X-330	29-6	3	4	14-Aug-04	17	9.58E+08	3.57E+07	6.29E+07
X-330	29-6	3	5	14-Aug-04	8	4.51E+08	1.68E+07	2.96E+07
X-330	29-6	3	6	14-Aug-04	6	3.38E+08	1.26E+07	2.22E+07
X-330	29-6	3	7	14-Aug-04	14	7.89E+08	2.94E+07	5.18E+07
X-330	29-6	3	8	14-Aug-04	11	6.20E+08	2.31E+07	4.07E+07
X-330	29-6	3	9	14-Aug-04	14	7.89E+08	2.94E+07	5.18E+07
X-330	29-6	3	10	14-Aug-04	11	6.20E+08	2.31E+07	4.07E+07
X-330	29-6	4	1	09-Aug-04	20	9.84E+08	4.20E+07	2.53E+08
X-330	29-6	4	2	09-Aug-04	27	1.33E+09	5.67E+07	3.42E+08
X-330	29-6	4	3	09-Aug-04	17	8.37E+08	3.57E+07	2.15E+08
X-330	29-6	4	4	09-Aug-04	11	5.41E+08	2.31E+07	1.39E+08
X-330	29-6	4	5	09-Aug-04	17	8.37E+08	3.57E+07	2.15E+08
X-330	29-6	4	6	09-Aug-04	14	6.89E+08	2.94E+07	1.77E+08
X-330	29-6	4	7	09-Aug-04	17	8.37E+08	3.57E+07	2.15E+08
X-330	29-6	4	8	09-Aug-04	17	8.37E+08	3.57E+07	2.15E+08
X-330	29-6	4	9	09-Aug-04	22	1.08E+09	4.62E+07	2.79E+08
X-330	29-6	4	10	09-Aug-04	19	9.35E+08	3.99E+07	2.41E+08
X-330	29-6	5	1	01-Oct-06	450	2.45E+10	9.45E+08	3.47E+09
X-330	29-6	5	2	13-Aug-04	13	7.07E+08	2.73E+07	1.00E+08
X-330	29-6	5	3	13-Aug-04	39	2.12E+09	8.19E+07	3.01E+08
X-330	29-6	5	4	13-Aug-04	17	9.25E+08	3.57E+07	1.31E+08
X-330	29-6	5	5	13-Aug-04	11	5.98E+08	2.31E+07	8.49E+07
X-330	29-6	5	6	13-Aug-04	26	1.41E+09	5.46E+07	2.01E+08
X-330	29-6	5	7	13-Aug-04	10	5.44E+08	2.10E+07	7.72E+07
X-330	29-6	5	8	13-Aug-04	18	9.79E+08	3.78E+07	1.39E+08
X-330	29-6	5	9	13-Aug-04	21	1.14E+09	4.41E+07	1.62E+08
X-330	29-6	5	10	13-Aug-04	30	1.63E+09	6.30E+07	2.32E+08
X-330	29-6	6	1	10-Aug-04	33	1.86E+09	6.93E+07	1.37E+08
X-330	29-6	6	2	10-Aug-04	50	2.82E+09	1.05E+08	2.07E+08
X-330	29-6	6	3	10-Aug-04	39	2.20E+09	8.19E+07	1.62E+08
X-330	29-6	6	4	10-Aug-04	30	1.69E+09	6.30E+07	1.24E+08
X-330	29-6	6	5	10-Aug-04	42	2.37E+09	8.82E+07	1.74E+08
X-330	29-6	6	6	10-Aug-04	27	1.52E+09	5.67E+07	1.12E+08
X-330	29-6	6	7	10-Aug-04	177	9.98E+09	3.72E+08	7.34E+08
X-330	29-6	6	8	06-Mar-07	24	1.35E+09	5.04E+07	9.91E+07
X-330	29-6	6	9	10-Aug-04	24	1.35E+09	5.04E+07	9.95E+07
X-330	29-6	6	10	10-Aug-04	161	9.07E+09	3.38E+08	6.68E+08
X-330	29-6	7	1	13-Aug-04	17	9.09E+08	3.57E+07	1.42E+08
X-330	29-6	7	2	13-Aug-04	17	9.09E+08	3.57E+07	1.42E+08
X-330	29-6	7	3	13-Aug-04	14	7.48E+08	2.94E+07	1.17E+08
X-330	29-6	7	4	13-Aug-04	14	7.48E+08	2.94E+07	1.17E+08
X-330	29-6	7	5	13-Aug-04	8	4.28E+08	1.68E+07	6.70E+07
X-330	29-6	7	6	13-Aug-04	20	1.07E+09	4.20E+07	1.68E+08
X-330	29-6	7	7	13-Aug-04	35	1.87E+09	7.35E+07	2.93E+08
X-330	29-6	7	8	13-Aug-04	27	1.44E+09	5.67E+07	2.26E+08
X-330	29-6	7	9	13-Aug-04	66	3.53E+09	1.39E+08	5.53E+08
X-330	29-6	7	10	13-Aug-04	452	2.42E+10	9.49E+08	3.79E+09
X-330	29-6	8	1	10-Aug-04	23	1.15E+09	4.83E+07	2.74E+08
X-330	29-6	8	2	10-Aug-04	12	6.00E+08	2.52E+07	1.43E+08
X-330	29-6	8	3	10-Aug-04	33	1.65E+09	6.93E+07	3.92E+08
X-330	29-6	8	4	10-Aug-04	12	6.00E+08	2.52E+07	1.43E+08
X-330	29-6	8	5	10-Aug-04	35	1.75E+09	7.35E+07	4.16E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	29-6	8	6	10-Aug-04	30	1.50E+09	6.30E+07	3.57E+08
X-330	29-6	8	7	10-Aug-04	20	1.00E+09	4.20E+07	2.38E+08
X-330	29-6	8	8	10-Aug-04	18	9.00E+08	3.78E+07	2.14E+08
X-330	29-6	8	9	10-Aug-04	17	8.50E+08	3.57E+07	2.02E+08
X-330	29-6	8	10	03-Mar-05	241	1.35E+10	5.06E+08	1.51E+09
X-330	29-6	9	1	11-Aug-04	83	4.64E+09	1.74E+08	3.80E+08
X-330	29-6	9	2	11-Aug-04	35	1.95E+09	7.35E+07	1.60E+08
X-330	29-6	9	3	11-Aug-04	36	2.01E+09	7.56E+07	1.65E+08
X-330	29-6	9	4	11-Aug-04	45	2.51E+09	9.45E+07	2.06E+08
X-330	29-6	9	5	11-Aug-04	66	3.69E+09	1.39E+08	3.02E+08
X-330	29-6	9	6	11-Aug-04	38	2.12E+09	7.98E+07	1.74E+08
X-330	29-6	9	7	11-Aug-04	51	2.85E+09	1.07E+08	2.33E+08
X-330	29-6	9	8	11-Aug-04	26	1.45E+09	5.46E+07	1.19E+08
X-330	29-6	9	9	11-Aug-04	65	3.63E+09	1.37E+08	2.97E+08
X-330	29-6	9	10	11-Aug-04	74	4.13E+09	1.55E+08	3.38E+08
X-330	29-6	10	1	11-Dec-06	474	2.67E+10	9.95E+08	1.75E+09
X-330	29-6	10	2	11-Aug-04	18	1.01E+09	3.78E+07	6.65E+07
X-330	29-6	10	3	11-Aug-04	69	3.89E+09	1.45E+08	2.55E+08
X-330	29-6	10	4	11-Aug-04	74	4.17E+09	1.55E+08	2.73E+08
X-330	29-6	10	5	11-Aug-04	227	1.28E+10	4.77E+08	8.39E+08
X-330	29-6	10	6	11-Aug-04	137	7.72E+09	2.88E+08	5.06E+08
X-330	29-6	10	7	11-Aug-04	32	1.80E+09	6.72E+07	1.18E+08
X-330	29-6	10	8	11-Aug-04	26	1.47E+09	5.46E+07	9.61E+07
X-330	29-6	10	9	11-Aug-04	26	1.47E+09	5.46E+07	9.61E+07
X-330	29-6	10	10	11-Aug-04	23	1.30E+09	4.83E+07	8.50E+07
X-330	31-1	1	1	18-Jan-05	18	5.44E+08	3.78E+07	1.74E+09
X-330	31-1	1	2	18-Jan-05	14	4.23E+08	2.94E+07	1.35E+09
X-330	31-1	1	3	18-Jan-05	15	4.54E+08	3.15E+07	1.45E+09
X-330	31-1	1	4	18-Jan-05	15	4.54E+08	3.15E+07	1.45E+09
X-330	31-1	1	5	18-Jan-05	15	4.54E+08	3.15E+07	1.45E+09
X-330	31-1	1	6	18-Jan-05	23	6.96E+08	4.83E+07	2.22E+09
X-330	31-1	1	7	18-Jan-05	41	1.24E+09	8.61E+07	3.97E+09
X-330	31-1	1	8	18-Jan-05	21	6.35E+08	4.41E+07	2.03E+09
X-330	31-1	1	9	18-Jan-05	21	6.35E+08	4.41E+07	2.03E+09
X-330	31-1	1	10	18-Jan-05	15	4.54E+08	3.15E+07	1.45E+09
X-330	31-1	2	1	11-Jan-05	11	3.33E+08	2.31E+07	9.04E+08
X-330	31-1	2	2	11-Jan-05	10	3.02E+08	2.10E+07	8.22E+08
X-330	31-1	2	3	11-Jan-05	10	3.02E+08	2.10E+07	8.22E+08
X-330	31-1	2	4	11-Jan-05	8	2.42E+08	1.68E+07	6.57E+08
X-330	31-1	2	5	11-Jan-05	12	3.63E+08	2.52E+07	9.86E+08
X-330	31-1	2	6	11-Jan-05	10	3.02E+08	2.10E+07	8.22E+08
X-330	31-1	2	7	11-Jan-05	11	3.33E+08	2.31E+07	9.04E+08
X-330	31-1	2	8	11-Jan-05	9	2.72E+08	1.89E+07	7.40E+08
X-330	31-1	2	9	11-Jan-05	10	3.02E+08	2.10E+07	8.22E+08
X-330	31-1	2	10	11-Jan-05	8	2.42E+08	1.68E+07	6.57E+08
X-330	31-1	3	1	24-Jan-05	18	5.44E+08	3.78E+07	1.48E+09
X-330	31-1	3	2	24-Jan-05	14	4.23E+08	2.94E+07	1.15E+09
X-330	31-1	3	3	24-Jan-05	45	1.36E+09	9.45E+07	3.70E+09
X-330	31-1	3	4	24-Jan-05	41	1.24E+09	8.61E+07	3.37E+09
X-330	31-1	3	5	24-Jan-05	44	1.33E+09	9.24E+07	3.62E+09
X-330	31-1	3	6	24-Jan-05	11	3.33E+08	2.31E+07	9.04E+08
X-330	31-1	3	7	24-Jan-05	9	2.72E+08	1.89E+07	7.40E+08
X-330	31-1	3	8	24-Jan-05	24	7.26E+08	5.04E+07	1.97E+09
X-330	31-1	3	9	24-Jan-05	4	1.21E+08	8.40E+06	3.29E+08
X-330	31-1	3	10	24-Jan-05	10	3.02E+08	2.10E+07	8.22E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	31-1	4	1	12-Jan-05	14	4.23E+08	2.94E+07	1.18E+09
X-330	31-1	4	2	12-Jan-05	12	3.63E+08	2.52E+07	1.01E+09
X-330	31-1	4	3	12-Jan-05	14	4.23E+08	2.94E+07	1.18E+09
X-330	31-1	4	4	12-Jan-05	12	3.63E+08	2.52E+07	1.01E+09
X-330	31-1	4	5	12-Jan-05	12	3.63E+08	2.52E+07	1.01E+09
X-330	31-1	4	6	12-Jan-05	17	5.14E+08	3.57E+07	1.43E+09
X-330	31-1	4	7	12-Jan-05	24	7.26E+08	5.04E+07	2.02E+09
X-330	31-1	4	8	12-Jan-05	14	4.23E+08	2.94E+07	1.18E+09
X-330	31-1	4	9	12-Jan-05	13	3.93E+08	2.73E+07	1.10E+09
X-330	31-1	4	10	12-Jan-05	11	3.33E+08	2.31E+07	9.27E+08
X-330	31-1	5	1	20-Jan-05	24	7.26E+08	5.04E+07	1.55E+09
X-330	31-1	5	2	20-Jan-05	14	4.23E+08	2.94E+07	9.01E+08
X-330	31-1	5	3	20-Jan-05	14	4.23E+08	2.94E+07	9.01E+08
X-330	31-1	5	4	20-Jan-05	20	6.05E+08	4.20E+07	1.29E+09
X-330	31-1	5	5	20-Jan-05	21	6.35E+08	4.41E+07	1.35E+09
X-330	31-1	5	6	20-Jan-05	68	2.06E+09	1.43E+08	4.38E+09
X-330	31-1	5	7	20-Jan-05	33	9.98E+08	6.93E+07	2.12E+09
X-330	31-1	5	8	20-Jan-05	15	4.54E+08	3.15E+07	9.66E+08
X-330	31-1	5	9	20-Jan-05	15	4.54E+08	3.15E+07	9.66E+08
X-330	31-1	5	10	20-Jan-05	14	4.23E+08	2.94E+07	9.01E+08
X-330	31-1	6	1	13-Jan-05	25	7.56E+08	5.25E+07	1.39E+09
X-330	31-1	6	2	13-Jan-05	63	1.91E+09	1.32E+08	3.50E+09
X-330	31-1	6	3	13-Jan-05	20	6.05E+08	4.20E+07	1.11E+09
X-330	31-1	6	4	13-Jan-05	14	4.23E+08	2.94E+07	7.78E+08
X-330	31-1	6	5	13-Jan-05	9	2.72E+08	1.89E+07	5.00E+08
X-330	31-1	6	6	13-Jan-05	20	6.05E+08	4.20E+07	1.11E+09
X-330	31-1	6	7	13-Jan-05	31	9.38E+08	6.51E+07	1.72E+09
X-330	31-1	6	8	13-Jan-05	20	6.05E+08	4.20E+07	1.11E+09
X-330	31-1	6	9	13-Jan-05	17	5.14E+08	3.57E+07	9.45E+08
X-330	31-1	6	10	13-Jan-05	16	4.84E+08	3.36E+07	8.90E+08
X-330	31-1	7	1	19-Jan-05	23	6.96E+08	4.83E+07	2.16E+09
X-330	31-1	7	2	19-Jan-05	11	3.33E+08	2.31E+07	1.03E+09
X-330	31-1	7	3	19-Jan-05	11	3.33E+08	2.31E+07	1.03E+09
X-330	31-1	7	4	19-Jan-05	14	4.23E+08	2.94E+07	1.32E+09
X-330	31-1	7	5	19-Jan-05	11	3.33E+08	2.31E+07	1.03E+09
X-330	31-1	7	6	19-Jan-05	27	8.17E+08	5.67E+07	2.54E+09
X-330	31-1	7	7	19-Jan-05	30	9.07E+08	6.30E+07	2.82E+09
X-330	31-1	7	8	19-Jan-05	42	1.27E+09	8.82E+07	3.95E+09
X-330	31-1	7	9	19-Jan-05	27	8.17E+08	5.67E+07	2.54E+09
X-330	31-1	7	10	19-Jan-05	86	2.60E+09	1.81E+08	8.08E+09
X-330	31-1	8	1	14-Jan-05	16	4.84E+08	3.36E+07	1.38E+09
X-330	31-1	8	2	14-Jan-05	15	4.54E+08	3.15E+07	1.30E+09
X-330	31-1	8	3	14-Jan-05	18	5.44E+08	3.78E+07	1.56E+09
X-330	31-1	8	4	14-Jan-05	15	4.54E+08	3.15E+07	1.30E+09
X-330	31-1	8	5	14-Jan-05	17	5.14E+08	3.57E+07	1.47E+09
X-330	31-1	8	6	14-Jan-05	14	4.23E+08	2.94E+07	1.21E+09
X-330	31-1	8	7	14-Jan-05	12	3.63E+08	2.52E+07	1.04E+09
X-330	31-1	8	8	14-Jan-05	20	6.05E+08	4.20E+07	1.73E+09
X-330	31-1	8	9	14-Jan-05	14	4.23E+08	2.94E+07	1.21E+09
X-330	31-1	8	10	14-Jan-05	21	6.35E+08	4.41E+07	1.82E+09
X-330	31-1	9	1	18-Jan-05	39	1.18E+09	8.19E+07	3.56E+09
X-330	31-1	9	2	18-Jan-05	13	3.93E+08	2.73E+07	1.19E+09
X-330	31-1	9	3	18-Jan-05	13	3.93E+08	2.73E+07	1.19E+09
X-330	31-1	9	4	18-Jan-05	12	3.63E+08	2.52E+07	1.10E+09
X-330	31-1	9	5	18-Jan-05	12	3.63E+08	2.52E+07	1.10E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	31-1	9	6	18-Jan-05	15	4.54E+08	3.15E+07	1.37E+09
X-330	31-1	9	7	18-Jan-05	13	3.93E+08	2.73E+07	1.19E+09
X-330	31-1	9	8	18-Jan-05	17	5.14E+08	3.57E+07	1.55E+09
X-330	31-1	9	9	18-Jan-05	17	5.14E+08	3.57E+07	1.55E+09
X-330	31-1	9	10	18-Jan-05	21	6.35E+08	4.41E+07	1.92E+09
X-330	31-1	10	1	01-Aug-04	24	7.26E+08	5.04E+07	2.13E+09
X-330	31-1	10	2	01-Aug-04	12	3.63E+08	2.52E+07	1.07E+09
X-330	31-1	10	3	01-Aug-04	23	6.96E+08	4.83E+07	2.04E+09
X-330	31-1	10	4	01-Aug-04	17	5.14E+08	3.57E+07	1.51E+09
X-330	31-1	10	5	01-Aug-04	18	5.44E+08	3.78E+07	1.60E+09
X-330	31-1	10	6	01-Aug-04	14	4.23E+08	2.94E+07	1.24E+09
X-330	31-1	10	7	01-Aug-04	23	6.96E+08	4.83E+07	2.04E+09
X-330	31-1	10	8	01-Aug-04	14	4.23E+08	2.94E+07	1.24E+09
X-330	31-1	10	9	01-Aug-04	18	5.44E+08	3.78E+07	1.60E+09
X-330	31-1	10	10	01-Aug-04	16	4.84E+08	3.36E+07	1.42E+09
X-330	31-2	1	1	14-Feb-05	9	2.72E+08	1.89E+07	7.59E+08
X-330	31-2	1	2	14-Feb-05	9	2.72E+08	1.89E+07	7.59E+08
X-330	31-2	1	3	14-Feb-05	11	3.33E+08	2.31E+07	9.27E+08
X-330	31-2	1	4	14-Feb-05	15	4.54E+08	3.15E+07	1.26E+09
X-330	31-2	1	5	14-Feb-05	8	2.42E+08	1.68E+07	6.74E+08
X-330	31-2	1	6	10-Jan-05	24	7.26E+08	5.04E+07	2.02E+09
X-330	31-2	1	7	14-Feb-05	23	6.96E+08	4.83E+07	1.94E+09
X-330	31-2	1	8	14-Feb-05	11	3.33E+08	2.31E+07	9.27E+08
X-330	31-2	1	9	14-Feb-05	9	2.72E+08	1.89E+07	7.59E+08
X-330	31-2	1	10	14-Feb-05	9	2.72E+08	1.89E+07	7.59E+08
X-330	31-2	2	1	20-Dec-04	76	2.30E+09	1.60E+08	4.15E+09
X-330	31-2	2	2	20-Dec-04	26	7.86E+08	5.46E+07	1.42E+09
X-330	31-2	2	3	20-Dec-04	33	9.98E+08	6.93E+07	1.80E+09
X-330	31-2	2	4	20-Dec-04	20	6.05E+08	4.20E+07	1.09E+09
X-330	31-2	2	5	20-Dec-04	12	3.63E+08	2.52E+07	6.56E+08
X-330	31-2	2	6	20-Dec-04	4	1.21E+08	8.40E+06	2.19E+08
X-330	31-2	2	7	20-Dec-04	4	1.21E+08	8.40E+06	2.19E+08
X-330	31-2	2	8	20-Dec-04	20	6.05E+08	4.20E+07	1.09E+09
X-330	31-2	2	9	20-Dec-04	24	7.26E+08	5.04E+07	1.31E+09
X-330	31-2	2	10	20-Dec-04	5	1.51E+08	1.05E+07	2.73E+08
X-330	31-2	3	1	07-Jan-05	4	1.22E+08	8.40E+06	3.46E+08
X-330	31-2	3	2	07-Jan-05	4	1.22E+08	8.40E+06	3.46E+08
X-330	31-2	3	3	07-Jan-05	4	1.22E+08	8.40E+06	3.46E+08
X-330	31-2	3	4	07-Jan-05	3	9.16E+07	6.30E+06	2.60E+08
X-330	31-2	3	5	07-Jan-05	4	1.22E+08	8.40E+06	3.46E+08
X-330	31-2	3	6	07-Jan-05	8	2.44E+08	1.68E+07	6.92E+08
X-330	31-2	3	7	07-Jan-05	9	2.75E+08	1.89E+07	7.79E+08
X-330	31-2	3	8	07-Jan-05	6	1.83E+08	1.26E+07	5.19E+08
X-330	31-2	3	9	07-Jan-05	6	1.83E+08	1.26E+07	5.19E+08
X-330	31-2	3	10	07-Jan-05	15	4.58E+08	3.15E+07	1.30E+09
X-330	31-2	4	1	21-Dec-04	20	7.13E+08	4.20E+07	7.43E+08
X-330	31-2	4	2	21-Dec-04	18	6.41E+08	3.78E+07	6.69E+08
X-330	31-2	4	3	21-Dec-04	17	6.06E+08	3.57E+07	6.32E+08
X-330	31-2	4	4	21-Dec-04	23	8.20E+08	4.83E+07	8.55E+08
X-330	31-2	4	5	21-Dec-04	20	7.13E+08	4.20E+07	7.43E+08
X-330	31-2	4	6	21-Dec-04	15	5.34E+08	3.15E+07	5.58E+08
X-330	31-2	4	7	21-Dec-04	17	6.06E+08	3.57E+07	6.32E+08
X-330	31-2	4	8	21-Dec-04	14	4.99E+08	2.94E+07	5.20E+08
X-330	31-2	4	9	21-Dec-04	15	5.34E+08	3.15E+07	5.58E+08
X-330	31-2	4	10	21-Dec-04	14	4.99E+08	2.94E+07	5.20E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	31-2	5	1	06-Jan-05	24	7.26E+08	5.04E+07	1.88E+09
X-330	31-2	5	2	06-Jan-05	28	8.47E+08	5.88E+07	2.19E+09
X-330	31-2	5	3	06-Jan-05	58	1.75E+09	1.22E+08	4.54E+09
X-330	31-2	5	4	06-Jan-05	43	1.30E+09	9.03E+07	3.36E+09
X-330	31-2	5	5	06-Jan-05	23	6.96E+08	4.83E+07	1.80E+09
X-330	31-2	5	6	06-Jan-05	27	8.17E+08	5.67E+07	2.11E+09
X-330	31-2	5	7	06-Jan-05	24	7.26E+08	5.04E+07	1.88E+09
X-330	31-2	5	8	06-Jan-05	23	6.96E+08	4.83E+07	1.80E+09
X-330	31-2	5	9	06-Jan-05	33	9.98E+08	6.93E+07	2.58E+09
X-330	31-2	5	10	06-Jan-05	24	7.26E+08	5.04E+07	1.88E+09
X-330	31-2	6	1	22-Dec-04	19	5.80E+08	3.99E+07	1.45E+09
X-330	31-2	6	2	22-Dec-04	20	6.11E+08	4.20E+07	1.53E+09
X-330	31-2	6	3	22-Dec-04	22	6.72E+08	4.62E+07	1.68E+09
X-330	31-2	6	4	22-Dec-04	18	5.50E+08	3.78E+07	1.38E+09
X-330	31-2	6	5	22-Dec-04	20	6.11E+08	4.20E+07	1.53E+09
X-330	31-2	6	6	22-Dec-04	21	6.41E+08	4.41E+07	1.60E+09
X-330	31-2	6	7	22-Dec-04	9	2.75E+08	1.89E+07	6.88E+08
X-330	31-2	6	8	22-Dec-04	11	3.36E+08	2.31E+07	8.41E+08
X-330	31-2	6	9	22-Dec-04	12	3.67E+08	2.52E+07	9.17E+08
X-330	31-2	6	10	22-Dec-04	15	4.58E+08	3.15E+07	1.15E+09
X-330	31-2	7	1	03-Jan-05	31	9.42E+08	6.51E+07	2.37E+09
X-330	31-2	7	2	03-Jan-05	31	9.42E+08	6.51E+07	2.37E+09
X-330	31-2	7	3	03-Jan-05	30	9.12E+08	6.30E+07	2.29E+09
X-330	31-2	7	4	03-Jan-05	32	9.73E+08	6.72E+07	2.45E+09
X-330	31-2	7	5	03-Jan-05	28	8.51E+08	5.88E+07	2.14E+09
X-330	31-2	7	6	03-Jan-05	32	9.73E+08	6.72E+07	2.45E+09
X-330	31-2	7	7	03-Jan-05	35	1.06E+09	7.35E+07	2.67E+09
X-330	31-2	7	8	03-Jan-05	34	1.03E+09	7.14E+07	2.60E+09
X-330	31-2	7	9	03-Jan-05	34	1.03E+09	7.14E+07	2.60E+09
X-330	31-2	7	10	03-Jan-05	34	1.03E+09	7.14E+07	2.60E+09
X-330	31-2	8	1	27-Dec-04	22	6.69E+08	4.62E+07	1.61E+09
X-330	31-2	8	2	27-Dec-04	25	7.60E+08	5.25E+07	1.83E+09
X-330	31-2	8	3	27-Dec-04	24	7.29E+08	5.04E+07	1.75E+09
X-330	31-2	8	4	27-Dec-04	29	8.81E+08	6.09E+07	2.12E+09
X-330	31-2	8	5	27-Dec-04	23	6.99E+08	4.83E+07	1.68E+09
X-330	31-2	8	6	27-Dec-04	22	6.69E+08	4.62E+07	1.61E+09
X-330	31-2	8	7	27-Dec-04	22	6.69E+08	4.62E+07	1.61E+09
X-330	31-2	8	8	27-Dec-04	22	6.69E+08	4.62E+07	1.61E+09
X-330	31-2	8	9	27-Dec-04	22	6.69E+08	4.62E+07	1.61E+09
X-330	31-2	8	10	27-Dec-04	22	6.69E+08	4.62E+07	1.61E+09
X-330	31-2	9	1	29-Dec-04	31	1.09E+09	6.51E+07	1.15E+09
X-330	31-2	9	2	29-Dec-04	32	1.12E+09	6.72E+07	1.19E+09
X-330	31-2	9	3	29-Dec-04	31	1.09E+09	6.51E+07	1.15E+09
X-330	31-2	9	4	29-Dec-04	32	1.12E+09	6.72E+07	1.19E+09
X-330	31-2	9	5	29-Dec-04	31	1.09E+09	6.51E+07	1.15E+09
X-330	31-2	9	6	29-Dec-04	35	1.23E+09	7.35E+07	1.30E+09
X-330	31-2	9	7	29-Dec-04	37	1.30E+09	7.77E+07	1.38E+09
X-330	31-2	9	8	29-Dec-04	37	1.30E+09	7.77E+07	1.38E+09
X-330	31-2	9	9	29-Dec-04	37	1.30E+09	7.77E+07	1.38E+09
X-330	31-2	9	10	29-Dec-04	36	1.26E+09	7.56E+07	1.34E+09
X-330	31-2	10	1	28-Dec-04	9	2.76E+08	1.89E+07	4.92E+08
X-330	31-2	10	2	28-Dec-04	8	2.46E+08	1.68E+07	4.37E+08
X-330	31-2	10	3	28-Dec-04	14	4.30E+08	2.94E+07	7.65E+08
X-330	31-2	10	4	28-Dec-04	8	2.46E+08	1.68E+07	4.37E+08
X-330	31-2	10	5	28-Dec-04	9	2.76E+08	1.89E+07	4.92E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	31-2	10	6	28-Dec-04	26	7.98E+08	5.46E+07	1.42E+09
X-330	31-2	10	7	28-Dec-04	23	7.06E+08	4.83E+07	1.26E+09
X-330	31-2	10	8	28-Dec-04	32	9.82E+08	6.72E+07	1.75E+09
X-330	31-2	10	9	28-Dec-04	31	9.51E+08	6.51E+07	1.69E+09
X-330	31-2	10	10	28-Dec-04	30	9.21E+08	6.30E+07	1.64E+09
X-330	31-3	1	1	16-Dec-04	44	2.22E+09	9.24E+07	7.11E+08
X-330	31-3	1	2	16-Dec-04	18	9.07E+08	3.78E+07	2.91E+08
X-330	31-3	1	3	16-Dec-04	21	1.06E+09	4.41E+07	3.40E+08
X-330	31-3	1	4	16-Dec-04	33	1.66E+09	6.93E+07	5.34E+08
X-330	31-3	1	5	16-Dec-04	44	2.22E+09	9.24E+07	7.11E+08
X-330	31-3	1	6	16-Dec-04	29	1.46E+09	6.09E+07	4.69E+08
X-330	31-3	1	7	16-Dec-04	25	1.26E+09	5.25E+07	4.04E+08
X-330	31-3	1	8	16-Dec-04	33	1.66E+09	6.93E+07	5.34E+08
X-330	31-3	1	9	16-Dec-04	50	2.52E+09	1.05E+08	8.09E+08
X-330	31-3	1	10	16-Dec-04	26	1.31E+09	5.46E+07	4.20E+08
X-330	31-3	2	1	06-Dec-04	41	1.91E+09	8.61E+07	6.46E+08
X-330	31-3	2	2	06-Dec-04	44	2.05E+09	9.24E+07	6.94E+08
X-330	31-3	2	3	06-Dec-04	30	1.40E+09	6.30E+07	4.73E+08
X-330	31-3	2	4	06-Dec-04	29	1.35E+09	6.09E+07	4.57E+08
X-330	31-3	2	5	06-Dec-04	30	1.40E+09	6.30E+07	4.73E+08
X-330	31-3	2	6	06-Dec-04	30	1.40E+09	6.30E+07	4.73E+08
X-330	31-3	2	7	06-Dec-04	27	1.26E+09	5.67E+07	4.26E+08
X-330	31-3	2	8	06-Dec-04	27	1.26E+09	5.67E+07	4.26E+08
X-330	31-3	2	9	06-Dec-04	39	1.82E+09	8.19E+07	6.15E+08
X-330	31-3	2	10	06-Dec-04	23	1.07E+09	4.83E+07	3.63E+08
X-330	31-3	3	1	15-Dec-04	34	1.53E+09	7.14E+07	5.92E+08
X-330	31-3	3	2	15-Dec-04	35	1.57E+09	7.35E+07	6.09E+08
X-330	31-3	3	3	15-Dec-04	25	1.12E+09	5.25E+07	4.35E+08
X-330	31-3	3	4	15-Dec-04	31	1.39E+09	6.51E+07	5.40E+08
X-330	31-3	3	5	15-Dec-04	59	2.65E+09	1.24E+08	1.03E+09
X-330	31-3	3	6	15-Dec-04	32	1.44E+09	6.72E+07	5.57E+08
X-330	31-3	3	7	15-Dec-04	40	1.80E+09	8.40E+07	6.96E+08
X-330	31-3	3	8	15-Dec-04	35	1.57E+09	7.35E+07	6.09E+08
X-330	31-3	3	9	15-Dec-04	35	1.57E+09	7.35E+07	6.09E+08
X-330	31-3	3	10	15-Dec-04	37	1.66E+09	7.77E+07	6.44E+08
X-330	31-3	4	1	07-Dec-04	62	2.89E+09	1.30E+08	9.54E+08
X-330	31-3	4	2	07-Dec-04	50	2.33E+09	1.05E+08	7.69E+08
X-330	31-3	4	3	07-Dec-04	26	1.21E+09	5.46E+07	4.00E+08
X-330	31-3	4	4	07-Dec-04	38	1.77E+09	7.98E+07	5.85E+08
X-330	31-3	4	5	07-Dec-04	35	1.63E+09	7.35E+07	5.38E+08
X-330	31-3	4	6	07-Dec-04	35	1.63E+09	7.35E+07	5.38E+08
X-330	31-3	4	7	07-Dec-04	36	1.68E+09	7.56E+07	5.54E+08
X-330	31-3	4	8	07-Dec-04	47	2.19E+09	9.87E+07	7.23E+08
X-330	31-3	4	9	07-Dec-04	30	1.40E+09	6.30E+07	4.62E+08
X-330	31-3	4	10	07-Dec-04	33	1.54E+09	6.93E+07	5.08E+08
X-330	31-3	5	1	14-Dec-04	38	1.71E+09	7.98E+07	6.65E+08
X-330	31-3	5	2	14-Dec-04	29	1.30E+09	6.09E+07	5.08E+08
X-330	31-3	5	3	14-Dec-04	36	1.62E+09	7.56E+07	6.30E+08
X-330	31-3	5	4	14-Dec-04	35	1.57E+09	7.35E+07	6.13E+08
X-330	31-3	5	5	14-Dec-04	35	1.57E+09	7.35E+07	6.13E+08
X-330	31-3	5	6	14-Dec-04	36	1.62E+09	7.56E+07	6.30E+08
X-330	31-3	5	7	14-Dec-04	28	1.26E+09	5.88E+07	4.90E+08
X-330	31-3	5	8	14-Dec-04	36	1.62E+09	7.56E+07	6.30E+08
X-330	31-3	5	9	14-Dec-04	29	1.30E+09	6.09E+07	5.08E+08
X-330	31-3	5	10	14-Dec-04	36	1.62E+09	7.56E+07	6.30E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	31-3	6	1	20-Apr-05	24	1.11E+09	5.04E+07	3.88E+08
X-330	31-3	6	2	20-Apr-05	26	1.20E+09	5.46E+07	4.20E+08
X-330	31-3	6	3	20-Apr-05	26	1.20E+09	5.46E+07	4.20E+08
X-330	31-3	6	4	20-Apr-05	25	1.16E+09	5.25E+07	4.04E+08
X-330	31-3	6	5	20-Apr-05	27	1.25E+09	5.67E+07	4.37E+08
X-330	31-3	6	6	20-Apr-05	55	2.54E+09	1.16E+08	8.89E+08
X-330	31-3	6	7	10-Oct-08	1456.5	6.74E+10	3.06E+09	2.36E+10
X-330	31-3	6	8	20-Apr-05	159	7.36E+09	3.34E+08	2.57E+09
X-330	31-3	6	9	20-Apr-05	68	3.15E+09	1.43E+08	1.10E+09
X-330	31-3	6	10	20-Apr-05	25	1.16E+09	5.25E+07	4.04E+08
X-330	31-3	7	1	13-Dec-04	31	1.40E+09	6.51E+07	5.17E+08
X-330	31-3	7	2	13-Dec-04	41	1.86E+09	8.61E+07	6.84E+08
X-330	31-3	7	3	13-Dec-04	119	5.39E+09	2.50E+08	1.98E+09
X-330	31-3	7	4	13-Dec-04	48	2.17E+09	1.01E+08	8.01E+08
X-330	31-3	7	5	13-Dec-04	235	1.06E+10	4.94E+08	3.92E+09
X-330	31-3	7	6	13-Dec-04	120	5.43E+09	2.52E+08	2.00E+09
X-330	31-3	7	7	13-Dec-04	45	2.04E+09	9.45E+07	7.51E+08
X-330	31-3	7	8	13-Dec-04	31	1.40E+09	6.51E+07	5.17E+08
X-330	31-3	7	9	13-Dec-04	39	1.76E+09	8.19E+07	6.51E+08
X-330	31-3	7	10	13-Dec-04	39	1.76E+09	8.19E+07	6.51E+08
X-330	31-3	8	1	09-Dec-04	34	1.55E+09	7.14E+07	5.64E+08
X-330	31-3	8	2	09-Dec-04	30	1.37E+09	6.30E+07	4.98E+08
X-330	31-3	8	3	09-Dec-04	30	1.37E+09	6.30E+07	4.98E+08
X-330	31-3	8	4	09-Dec-04	32	1.46E+09	6.72E+07	5.31E+08
X-330	31-3	8	5	09-Dec-04	42	1.91E+09	8.82E+07	6.97E+08
X-330	31-3	8	6	09-Dec-04	32	1.46E+09	6.72E+07	5.31E+08
X-330	31-3	8	7	09-Dec-04	31	1.41E+09	6.51E+07	5.14E+08
X-330	31-3	8	8	09-Dec-04	28	1.28E+09	5.88E+07	4.65E+08
X-330	31-3	8	9	09-Dec-04	30	1.37E+09	6.30E+07	4.98E+08
X-330	31-3	8	10	09-Dec-04	33	1.50E+09	6.93E+07	5.48E+08
X-330	31-3	9	1	10-Dec-04	29	1.47E+09	6.09E+07	4.76E+08
X-330	31-3	9	2	10-Dec-04	30	1.52E+09	6.30E+07	4.93E+08
X-330	31-3	9	3	10-Dec-04	31	1.58E+09	6.51E+07	5.09E+08
X-330	31-3	9	4	10-Dec-04	37	1.88E+09	7.77E+07	6.08E+08
X-330	31-3	9	5	10-Dec-04	29	1.47E+09	6.09E+07	4.76E+08
X-330	31-3	9	6	10-Dec-04	33	1.68E+09	6.93E+07	5.42E+08
X-330	31-3	9	7	10-Dec-04	34	1.73E+09	7.14E+07	5.58E+08
X-330	31-3	9	8	10-Dec-04	48	2.44E+09	1.01E+08	7.88E+08
X-330	31-3	9	9	10-Dec-04	35	1.78E+09	7.35E+07	5.75E+08
X-330	31-3	9	10	10-Dec-04	32	1.63E+09	6.72E+07	5.25E+08
X-330	31-3	10	1	11-Feb-05	41	1.79E+09	8.61E+07	7.64E+08
X-330	31-3	10	2	11-Feb-05	53	2.31E+09	1.11E+08	9.88E+08
X-330	31-3	10	3	11-Feb-05	58	2.53E+09	1.22E+08	1.08E+09
X-330	31-3	10	4	11-Feb-05	67	2.93E+09	1.41E+08	1.25E+09
X-330	31-3	10	5	11-Feb-05	53	2.31E+09	1.11E+08	9.88E+08
X-330	31-3	10	6	11-Feb-05	50	2.18E+09	1.05E+08	9.32E+08
X-330	31-3	10	7	11-Feb-05	59	2.58E+09	1.24E+08	1.10E+09
X-330	31-3	10	8	11-Feb-05	216	9.43E+09	4.54E+08	4.03E+09
X-330	31-3	10	9	11-Feb-05	521	2.27E+10	1.09E+09	9.71E+09
X-330	31-3	10	10	11-Feb-05	7484	3.27E+11	1.57E+10	1.39E+11
X-330	31-4	1	1	03-Dec-04	45	2.10E+09	9.45E+07	6.92E+08
X-330	31-4	1	2	03-Dec-04	28	1.31E+09	5.88E+07	4.31E+08
X-330	31-4	1	3	03-Dec-04	37	1.72E+09	7.77E+07	5.69E+08
X-330	31-4	1	4	03-Dec-04	36	1.68E+09	7.56E+07	5.54E+08
X-330	31-4	1	5	03-Dec-04	29	1.35E+09	6.09E+07	4.46E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	31-4	1	6	03-Dec-04	33	1.54E+09	6.93E+07	5.08E+08
X-330	31-4	1	7	03-Dec-04	47	2.19E+09	9.87E+07	7.23E+08
X-330	31-4	1	8	03-Dec-04	27	1.26E+09	5.67E+07	4.15E+08
X-330	31-4	1	9	03-Dec-04	34	1.58E+09	7.14E+07	5.23E+08
X-330	31-4	1	10	03-Dec-04	299	1.39E+10	6.28E+08	4.60E+09
X-330	31-4	2	1	15-Nov-04	41	1.82E+09	8.61E+07	7.34E+08
X-330	31-4	2	2	15-Nov-04	39	1.73E+09	8.19E+07	6.98E+08
X-330	31-4	2	3	15-Nov-04	33	1.46E+09	6.93E+07	5.91E+08
X-330	31-4	2	4	15-Nov-04	26	1.15E+09	5.46E+07	4.65E+08
X-330	31-4	2	5	15-Nov-04	29	1.28E+09	6.09E+07	5.19E+08
X-330	31-4	2	6	15-Nov-04	38	1.68E+09	7.98E+07	6.80E+08
X-330	31-4	2	7	15-Nov-04	26	1.15E+09	5.46E+07	4.65E+08
X-330	31-4	2	8	15-Nov-04	45	1.99E+09	9.45E+07	8.06E+08
X-330	31-4	2	9	15-Nov-04	200	8.86E+09	4.20E+08	3.58E+09
X-330	31-4	2	10	30-Jun-07	23	1.02E+09	4.83E+07	3.00E+08
X-330	31-4	3	1	02-Dec-04	91	4.74E+09	1.91E+08	1.81E+09
X-330	31-4	3	2	02-Dec-04	51	2.66E+09	1.07E+08	1.02E+09
X-330	31-4	3	3	02-Dec-04	30	1.56E+09	6.30E+07	5.97E+08
X-330	31-4	3	4	02-Dec-04	43	2.24E+09	9.03E+07	8.56E+08
X-330	31-4	3	5	02-Dec-04	31	1.62E+09	6.51E+07	6.17E+08
X-330	31-4	3	6	02-Dec-04	35	1.82E+09	7.35E+07	6.97E+08
X-330	31-4	3	7	02-Dec-04	57	2.97E+09	1.20E+08	1.14E+09
X-330	31-4	3	8	02-Dec-04	29	1.51E+09	6.09E+07	5.78E+08
X-330	31-4	3	9	02-Dec-04	27	1.41E+09	5.67E+07	5.38E+08
X-330	31-4	3	10	02-Dec-04	45	2.34E+09	9.45E+07	8.96E+08
X-330	31-4	4	1	16-Nov-04	52	2.80E+09	1.09E+08	8.58E+08
X-330	31-4	4	2	16-Nov-04	27	1.46E+09	5.67E+07	4.46E+08
X-330	31-4	4	3	16-Nov-04	36	1.94E+09	7.56E+07	5.94E+08
X-330	31-4	4	4	16-Nov-04	33	1.78E+09	6.93E+07	5.45E+08
X-330	31-4	4	5	16-Nov-04	27	1.46E+09	5.67E+07	4.46E+08
X-330	31-4	4	6	16-Nov-04	53	2.86E+09	1.11E+08	8.75E+08
X-330	31-4	4	7	16-Nov-04	45	2.43E+09	9.45E+07	7.43E+08
X-330	31-4	4	8	16-Nov-04	47	2.53E+09	9.87E+07	7.76E+08
X-330	31-4	4	9	16-Nov-04	38	2.05E+09	7.98E+07	6.27E+08
X-330	31-4	4	10	16-Nov-04	36	1.94E+09	7.56E+07	5.94E+08
X-330	31-4	5	1	01-Dec-04	40	1.80E+09	8.40E+07	7.00E+08
X-330	31-4	5	2	01-Dec-04	69	3.10E+09	1.45E+08	1.21E+09
X-330	31-4	5	3	01-Dec-04	55	2.47E+09	1.16E+08	9.63E+08
X-330	31-4	5	4	01-Dec-04	53	2.38E+09	1.11E+08	9.28E+08
X-330	31-4	5	5	01-Dec-04	59	2.65E+09	1.24E+08	1.03E+09
X-330	31-4	5	6	01-Dec-04	39	1.75E+09	8.19E+07	6.83E+08
X-330	31-4	5	7	01-Dec-04	47	2.11E+09	9.87E+07	8.23E+08
X-330	31-4	5	8	01-Dec-04	41	1.84E+09	8.61E+07	7.18E+08
X-330	31-4	5	9	01-Dec-04	59	2.65E+09	1.24E+08	1.03E+09
X-330	31-4	5	10	01-Dec-04	34	1.53E+09	7.14E+07	5.95E+08
X-330	31-4	6	1	17-Nov-04	57	2.62E+09	1.20E+08	9.31E+08
X-330	31-4	6	2	17-Nov-04	30	1.38E+09	6.30E+07	4.90E+08
X-330	31-4	6	3	17-Nov-04	68	3.12E+09	1.43E+08	1.11E+09
X-330	31-4	6	4	17-Nov-04	39	1.79E+09	8.19E+07	6.37E+08
X-330	31-4	6	5	17-Nov-04	38	1.75E+09	7.98E+07	6.21E+08
X-330	31-4	6	6	17-Nov-04	44	2.02E+09	9.24E+07	7.19E+08
X-330	31-4	6	7	17-Nov-04	54	2.48E+09	1.13E+08	8.82E+08
X-330	31-4	6	8	17-Nov-04	30	1.38E+09	6.30E+07	4.90E+08
X-330	31-4	6	9	17-Nov-04	33	1.52E+09	6.93E+07	5.39E+08
X-330	31-4	6	10	17-Nov-04	27	1.24E+09	5.67E+07	4.41E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	31-4	7	1	30-Nov-04	102	4.72E+09	2.14E+08	1.65E+09
X-330	31-4	7	2	30-Nov-04	78	3.61E+09	1.64E+08	1.26E+09
X-330	31-4	7	3	30-Nov-04	97	4.49E+09	2.04E+08	1.57E+09
X-330	31-4	7	4	30-Nov-04	78	3.61E+09	1.64E+08	1.26E+09
X-330	31-4	7	5	30-Nov-04	63	2.91E+09	1.32E+08	1.02E+09
X-330	31-4	7	6	30-Nov-04	45	2.08E+09	9.45E+07	7.28E+08
X-330	31-4	7	7	30-Nov-04	45	2.08E+09	9.45E+07	7.28E+08
X-330	31-4	7	8	30-Nov-04	47	2.17E+09	9.87E+07	7.60E+08
X-330	31-4	7	9	30-Nov-04	52	2.41E+09	1.09E+08	8.41E+08
X-330	31-4	7	10	30-Nov-04	83	3.84E+09	1.74E+08	1.34E+09
X-330	31-4	8	1	18-Nov-04	45	2.16E+09	9.45E+07	6.36E+08
X-330	31-4	8	2	18-Nov-04	66	3.17E+09	1.39E+08	9.33E+08
X-330	31-4	8	3	18-Nov-04	41	1.97E+09	8.61E+07	5.80E+08
X-330	31-4	8	4	18-Nov-04	47	2.26E+09	9.87E+07	6.65E+08
X-330	31-4	8	5	18-Nov-04	52	2.50E+09	1.09E+08	7.35E+08
X-330	31-4	8	6	18-Nov-04	49	2.36E+09	1.03E+08	6.93E+08
X-330	31-4	8	7	18-Nov-04	46	2.21E+09	9.66E+07	6.51E+08
X-330	31-4	8	8	18-Nov-04	51	2.45E+09	1.07E+08	7.21E+08
X-330	31-4	8	9	18-Nov-04	54	2.60E+09	1.13E+08	7.64E+08
X-330	31-4	8	10	18-Nov-04	27	1.30E+09	5.67E+07	3.82E+08
X-330	31-4	9	1	29-Nov-04	70	3.42E+09	1.47E+08	8.90E+08
X-330	31-4	9	2	29-Nov-04	42	2.05E+09	8.82E+07	5.34E+08
X-330	31-4	9	3	29-Nov-04	51	2.49E+09	1.07E+08	6.48E+08
X-330	31-4	9	4	29-Nov-04	50	2.44E+09	1.05E+08	6.36E+08
X-330	31-4	9	5	29-Nov-04	43	2.10E+09	9.03E+07	5.47E+08
X-330	31-4	9	6	29-Nov-04	38	1.86E+09	7.98E+07	4.83E+08
X-330	31-4	9	7	29-Nov-04	41	2.00E+09	8.61E+07	5.21E+08
X-330	31-4	9	8	29-Nov-04	51	2.49E+09	1.07E+08	6.48E+08
X-330	31-4	9	9	29-Nov-04	65	3.17E+09	1.37E+08	8.26E+08
X-330	31-4	9	10	29-Nov-04	58	2.83E+09	1.22E+08	7.37E+08
X-330	31-4	10	1	19-Nov-04	39	1.85E+09	8.19E+07	5.67E+08
X-330	31-4	10	2	19-Nov-04	37	1.75E+09	7.77E+07	5.38E+08
X-330	31-4	10	3	19-Nov-04	40	1.89E+09	8.40E+07	5.81E+08
X-330	31-4	10	4	19-Nov-04	91	4.31E+09	1.91E+08	1.32E+09
X-330	31-4	10	5	19-Nov-04	39	1.85E+09	8.19E+07	5.67E+08
X-330	31-4	10	6	19-Nov-04	35	1.66E+09	7.35E+07	5.09E+08
X-330	31-4	10	7	19-Nov-04	48	2.27E+09	1.01E+08	6.98E+08
X-330	31-4	10	8	19-Nov-04	35	1.66E+09	7.35E+07	5.09E+08
X-330	31-4	10	9	19-Nov-04	39	1.85E+09	8.19E+07	5.67E+08
X-330	31-4	10	10	19-Nov-04	41	1.94E+09	8.61E+07	5.96E+08
X-330	31-5	1	1	12-Nov-04	44	2.18E+09	9.24E+07	5.29E+08
X-330	31-5	1	2	12-Nov-04	54	2.68E+09	1.13E+08	6.50E+08
X-330	31-5	1	3	12-Nov-04	29	1.44E+09	6.09E+07	3.49E+08
X-330	31-5	1	4	12-Nov-04	47	2.33E+09	9.87E+07	5.65E+08
X-330	31-5	1	5	12-Nov-04	30	1.49E+09	6.30E+07	3.61E+08
X-330	31-5	1	6	12-Nov-04	42	2.08E+09	8.82E+07	5.05E+08
X-330	31-5	1	7	12-Nov-04	80	3.97E+09	1.68E+08	9.62E+08
X-330	31-5	1	8	12-Nov-04	41	2.03E+09	8.61E+07	4.93E+08
X-330	31-5	1	9	12-Nov-04	27	1.34E+09	5.67E+07	3.25E+08
X-330	31-5	1	10	12-Nov-04	125	6.20E+09	2.63E+08	1.50E+09
X-330	31-5	2	1	01-Nov-04	74	3.73E+09	1.55E+08	8.48E+08
X-330	31-5	2	2	01-Nov-04	32	1.61E+09	6.72E+07	3.67E+08
X-330	31-5	2	3	01-Nov-04	27	1.36E+09	5.67E+07	3.09E+08
X-330	31-5	2	4	01-Nov-04	24	1.21E+09	5.04E+07	2.75E+08
X-330	31-5	2	5	01-Nov-04	24	1.21E+09	5.04E+07	2.75E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	31-5	2	6	01-Nov-04	78	3.93E+09	1.64E+08	8.94E+08
X-330	31-5	2	7	01-Nov-04	63	3.18E+09	1.32E+08	7.22E+08
X-330	31-5	2	8	01-Nov-04	503	2.54E+10	1.06E+09	5.76E+09
X-330	31-5	2	9	01-Nov-04	110	5.54E+09	2.31E+08	1.26E+09
X-330	31-5	2	10	01-Nov-04	197	9.93E+09	4.14E+08	2.26E+09
X-330	31-5	3	1	11-Nov-04	25	1.23E+09	5.25E+07	3.09E+08
X-330	31-5	3	2	11-Nov-04	40	1.97E+09	8.40E+07	4.94E+08
X-330	31-5	3	3	11-Nov-04	47	2.31E+09	9.87E+07	5.81E+08
X-330	31-5	3	4	11-Nov-04	29	1.43E+09	6.09E+07	3.59E+08
X-330	31-5	3	5	11-Nov-04	42	2.07E+09	8.82E+07	5.19E+08
X-330	31-5	3	6	11-Nov-04	30	1.48E+09	6.30E+07	3.71E+08
X-330	31-5	3	7	11-Nov-04	33	1.62E+09	6.93E+07	4.08E+08
X-330	31-5	3	8	11-Nov-04	30	1.48E+09	6.30E+07	3.71E+08
X-330	31-5	3	9	11-Nov-04	38	1.87E+09	7.98E+07	4.70E+08
X-330	31-5	3	10	11-Nov-04	41	2.02E+09	8.61E+07	5.07E+08
X-330	31-5	4	1	02-Nov-04	81	4.02E+09	1.70E+08	9.71E+08
X-330	31-5	4	2	02-Nov-04	46	2.28E+09	9.66E+07	5.51E+08
X-330	31-5	4	3	02-Nov-04	114	5.65E+09	2.39E+08	1.37E+09
X-330	31-5	4	4	02-Nov-04	22	1.09E+09	4.62E+07	2.64E+08
X-330	31-5	4	5	02-Nov-04	75	3.72E+09	1.58E+08	8.99E+08
X-330	31-5	4	6	02-Nov-04	29	1.44E+09	6.09E+07	3.48E+08
X-330	31-5	4	7	02-Nov-04	56	2.78E+09	1.18E+08	6.71E+08
X-330	31-5	4	8	02-Nov-04	24	1.19E+09	5.04E+07	2.88E+08
X-330	31-5	4	9	02-Nov-04	76	3.77E+09	1.60E+08	9.11E+08
X-330	31-5	4	10	02-Nov-04	38	1.88E+09	7.98E+07	4.55E+08
X-330	31-5	5	1	10-Nov-04	41	1.94E+09	8.61E+07	6.01E+08
X-330	31-5	5	2	10-Nov-04	51	2.41E+09	1.07E+08	7.48E+08
X-330	31-5	5	3	10-Nov-04	32	1.51E+09	6.72E+07	4.69E+08
X-330	31-5	5	4	10-Nov-04	25	1.18E+09	5.25E+07	3.67E+08
X-330	31-5	5	5	10-Nov-04	26	1.23E+09	5.46E+07	3.81E+08
X-330	31-5	5	6	10-Nov-04	45	2.13E+09	9.45E+07	6.60E+08
X-330	31-5	5	7	10-Nov-04	34	1.61E+09	7.14E+07	4.99E+08
X-330	31-5	5	8	10-Nov-04	44	2.08E+09	9.24E+07	6.45E+08
X-330	31-5	5	9	10-Nov-04	36	1.70E+09	7.56E+07	5.28E+08
X-330	31-5	5	10	10-Nov-04	62	2.93E+09	1.30E+08	9.10E+08
X-330	31-5	6	1	03-Nov-04	28	1.43E+09	5.88E+07	2.99E+08
X-330	31-5	6	2	03-Nov-04	27	1.38E+09	5.67E+07	2.88E+08
X-330	31-5	6	3	03-Nov-04	27	1.38E+09	5.67E+07	2.88E+08
X-330	31-5	6	4	03-Nov-04	26	1.33E+09	5.46E+07	2.77E+08
X-330	31-5	6	5	03-Nov-04	21	1.08E+09	4.41E+07	2.24E+08
X-330	31-5	6	6	03-Nov-04	24	1.23E+09	5.04E+07	2.56E+08
X-330	31-5	6	7	03-Nov-04	26	1.33E+09	5.46E+07	2.77E+08
X-330	31-5	6	8	03-Nov-04	44	2.25E+09	9.24E+07	4.69E+08
X-330	31-5	6	9	03-Nov-04	28	1.43E+09	5.88E+07	2.99E+08
X-330	31-5	6	10	03-Nov-04	26	1.33E+09	5.46E+07	2.77E+08
X-330	31-5	7	1	09-Nov-04	45	2.31E+09	9.45E+07	5.86E+08
X-330	31-5	7	2	09-Nov-04	27	1.38E+09	5.67E+07	3.52E+08
X-330	31-5	7	3	09-Nov-04	33	1.69E+09	6.93E+07	4.30E+08
X-330	31-5	7	4	09-Nov-04	28	1.43E+09	5.88E+07	3.65E+08
X-330	31-5	7	5	09-Nov-04	29	1.49E+09	6.09E+07	3.78E+08
X-330	31-5	7	6	09-Nov-04	37	1.90E+09	7.77E+07	4.82E+08
X-330	31-5	7	7	09-Nov-04	28	1.43E+09	5.88E+07	3.65E+08
X-330	31-5	7	8	09-Nov-04	27	1.38E+09	5.67E+07	3.52E+08
X-330	31-5	7	9	09-Nov-04	34	1.74E+09	7.14E+07	4.43E+08
X-330	31-5	7	10	09-Nov-04	56	2.87E+09	1.18E+08	7.30E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-330	31-5	8	1	04-Nov-04	40	1.98E+09	8.40E+07	4.85E+08
X-330	31-5	8	2	04-Nov-04	27	1.34E+09	5.67E+07	3.27E+08
X-330	31-5	8	3	04-Nov-04	29	1.44E+09	6.09E+07	3.52E+08
X-330	31-5	8	4	04-Nov-04	46	2.28E+09	9.66E+07	5.58E+08
X-330	31-5	8	5	04-Nov-04	28	1.39E+09	5.88E+07	3.39E+08
X-330	31-5	8	6	04-Nov-04	28	1.39E+09	5.88E+07	3.39E+08
X-330	31-5	8	7	04-Nov-04	31	1.54E+09	6.51E+07	3.76E+08
X-330	31-5	8	8	04-Nov-04	27	1.34E+09	5.67E+07	3.27E+08
X-330	31-5	8	9	04-Nov-04	29	1.44E+09	6.09E+07	3.52E+08
X-330	31-5	8	10	04-Nov-04	25	1.24E+09	5.25E+07	3.03E+08
X-330	31-5	9	1	08-Nov-04	32	1.57E+09	6.72E+07	3.99E+08
X-330	31-5	9	2	08-Nov-04	41	2.02E+09	8.61E+07	5.11E+08
X-330	31-5	9	3	08-Nov-04	28	1.38E+09	5.88E+07	3.49E+08
X-330	31-5	9	4	08-Nov-04	36	1.77E+09	7.56E+07	4.49E+08
X-330	31-5	9	5	08-Nov-04	28	1.38E+09	5.88E+07	3.49E+08
X-330	31-5	9	6	08-Nov-04	44	2.17E+09	9.24E+07	5.48E+08
X-330	31-5	9	7	08-Nov-04	62	3.05E+09	1.30E+08	7.73E+08
X-330	31-5	9	8	08-Nov-04	242	1.19E+10	5.08E+08	3.02E+09
X-330	31-5	9	9	08-Nov-04	65	3.20E+09	1.37E+08	8.10E+08
X-330	31-5	9	10	08-Nov-04	39	1.92E+09	8.19E+07	4.86E+08
X-330	31-5	10	1	05-Nov-04	28	1.38E+09	5.88E+07	3.55E+08
X-330	31-5	10	2	05-Nov-04	37	1.82E+09	7.77E+07	4.68E+08
X-330	31-5	10	3	05-Nov-04	37	1.82E+09	7.77E+07	4.68E+08
X-330	31-5	10	4	05-Nov-04	125	6.15E+09	2.63E+08	1.58E+09
X-330	31-5	10	5	05-Nov-04	35	1.72E+09	7.35E+07	4.43E+08
X-330	31-5	10	6	05-Nov-04	94	4.63E+09	1.97E+08	1.19E+09
X-330	31-5	10	7	05-Nov-04	29	1.43E+09	6.09E+07	3.67E+08
X-330	31-5	10	8	05-Nov-04	95	4.67E+09	2.00E+08	1.20E+09
X-330	31-5	10	9	05-Nov-04	27	1.33E+09	5.67E+07	3.42E+08
X-330	31-5	10	10	05-Nov-04	43	2.12E+09	9.03E+07	5.44E+08
X-333	33-1	1	1	16-Apr-09	38	1.15E+09	7.98E+07	2.15E+09
X-333	33-1	1	2	16-Apr-09	34	1.03E+09	7.14E+07	1.92E+09
X-333	33-1	1	3	16-Apr-09	37	1.12E+09	7.77E+07	2.09E+09
X-333	33-1	1	4	16-Apr-09	35	1.06E+09	7.35E+07	1.98E+09
X-333	33-1	1	5	16-Apr-09	36	1.09E+09	7.56E+07	2.04E+09
X-333	33-1	1	6	16-Apr-09	34	1.03E+09	7.14E+07	1.92E+09
X-333	33-1	1	7	16-Apr-09	34	1.03E+09	7.14E+07	1.92E+09
X-333	33-1	1	8	16-Apr-09	31	9.38E+08	6.51E+07	1.75E+09
X-333	33-1	2	1	16-Apr-09	27	8.17E+08	5.67E+07	1.53E+09
X-333	33-1	2	2	16-Apr-09	24	7.26E+08	5.04E+07	1.36E+09
X-333	33-1	2	3	16-Apr-09	24	7.26E+08	5.04E+07	1.36E+09
X-333	33-1	2	4	16-Apr-09	27	8.17E+08	5.67E+07	1.53E+09
X-333	33-1	2	5	16-Apr-09	28	8.47E+08	5.88E+07	1.58E+09
X-333	33-1	2	6	16-Apr-09	22	6.65E+08	4.62E+07	1.24E+09
X-333	33-1	2	7	16-Apr-09	30	9.07E+08	6.30E+07	1.70E+09
X-333	33-1	2	8	16-Apr-09	31	9.38E+08	6.51E+07	1.75E+09
X-333	33-1	3	1	16-Apr-09	37	1.12E+09	7.77E+07	2.34E+09
X-333	33-1	3	2	16-Apr-09	38	1.15E+09	7.98E+07	2.40E+09
X-333	33-1	3	3	16-Apr-09	36	1.09E+09	7.56E+07	2.27E+09
X-333	33-1	3	4	16-Apr-09	34	1.03E+09	7.14E+07	2.15E+09
X-333	33-1	3	5	16-Apr-09	48	1.45E+09	1.01E+08	3.03E+09
X-333	33-1	3	6	16-Apr-09	40	1.21E+09	8.40E+07	2.53E+09
X-333	33-1	3	7	16-Apr-09	39	1.18E+09	8.19E+07	2.46E+09
X-333	33-1	3	8	16-Apr-09	38	1.15E+09	7.98E+07	2.40E+09
X-333	33-1	4	1	16-Apr-09	22	6.65E+08	4.62E+07	1.29E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-1	4	2	16-Apr-09	13	3.93E+08	2.73E+07	7.62E+08
X-333	33-1	4	3	16-Apr-09	19	5.75E+08	3.99E+07	1.11E+09
X-333	33-1	4	4	16-Apr-09	17	5.14E+08	3.57E+07	9.96E+08
X-333	33-1	4	5	16-Apr-09	21	6.35E+08	4.41E+07	1.23E+09
X-333	33-1	4	6	16-Apr-09	17	5.14E+08	3.57E+07	9.96E+08
X-333	33-1	4	7	16-Apr-09	15	4.54E+08	3.15E+07	8.79E+08
X-333	33-1	4	8	16-Apr-09	16	4.84E+08	3.36E+07	9.38E+08
X-333	33-1	5	1	16-Apr-09	34	1.03E+09	7.14E+07	2.23E+09
X-333	33-1	5	2	16-Apr-09	36	1.09E+09	7.56E+07	2.36E+09
X-333	33-1	5	3	16-Apr-09	36	1.09E+09	7.56E+07	2.36E+09
X-333	33-1	5	4	16-Apr-09	35	1.06E+09	7.35E+07	2.30E+09
X-333	33-1	5	5	16-Apr-09	36	1.09E+09	7.56E+07	2.36E+09
X-333	33-1	5	6	16-Apr-09	35	1.06E+09	7.35E+07	2.30E+09
X-333	33-1	5	7	16-Apr-09	36	1.09E+09	7.56E+07	2.36E+09
X-333	33-1	5	8	16-Apr-09	29	8.77E+08	6.09E+07	1.90E+09
X-333	33-1	6	1	16-Apr-09	45	1.48E+09	9.45E+07	2.05E+09
X-333	33-1	6	2	16-Apr-09	43	1.41E+09	9.03E+07	1.96E+09
X-333	33-1	6	3	16-Apr-09	54	1.77E+09	1.13E+08	2.46E+09
X-333	33-1	6	4	16-Apr-09	46	1.51E+09	9.66E+07	2.09E+09
X-333	33-1	6	5	16-Apr-09	55	1.80E+09	1.16E+08	2.50E+09
X-333	33-1	6	6	16-Apr-09	47	1.54E+09	9.87E+07	2.14E+09
X-333	33-1	6	7	16-Apr-09	48	1.57E+09	1.01E+08	2.18E+09
X-333	33-1	6	8	16-Apr-09	49	1.61E+09	1.03E+08	2.23E+09
X-333	33-1	7	1	16-Apr-09	33	1.01E+09	6.93E+07	1.83E+09
X-333	33-1	7	2	16-Apr-09	29	8.86E+08	6.09E+07	1.61E+09
X-333	33-1	7	3	16-Apr-09	30	9.16E+08	6.30E+07	1.67E+09
X-333	33-1	7	4	16-Apr-09	32	9.77E+08	6.72E+07	1.78E+09
X-333	33-1	7	5	16-Apr-09	35	1.07E+09	7.35E+07	1.95E+09
X-333	33-1	7	6	16-Apr-09	36	1.10E+09	7.56E+07	2.00E+09
X-333	33-1	7	7	16-Apr-09	33	1.01E+09	6.93E+07	1.83E+09
X-333	33-1	7	8	16-Apr-09	34	1.04E+09	7.14E+07	1.89E+09
X-333	33-1	8	1	16-Apr-09	29	8.77E+08	6.09E+07	1.76E+09
X-333	33-1	8	2	16-Apr-09	26	7.86E+08	5.46E+07	1.58E+09
X-333	33-1	8	3	16-Apr-09	28	8.47E+08	5.88E+07	1.70E+09
X-333	33-1	8	4	16-Apr-09	30	9.07E+08	6.30E+07	1.82E+09
X-333	33-1	8	5	16-Apr-09	30	9.07E+08	6.30E+07	1.82E+09
X-333	33-1	8	6	16-Apr-09	28	8.47E+08	5.88E+07	1.70E+09
X-333	33-1	8	7	16-Apr-09	25	7.56E+08	5.25E+07	1.52E+09
X-333	33-1	8	8	16-Apr-09	26	7.86E+08	5.46E+07	1.58E+09
X-333	33-1	9	1	16-Apr-09	23	6.96E+08	4.83E+07	1.45E+09
X-333	33-1	9	2	16-Apr-09	22	6.65E+08	4.62E+07	1.39E+09
X-333	33-1	9	3	16-Apr-09	27	8.17E+08	5.67E+07	1.70E+09
X-333	33-1	9	4	16-Apr-09	21	6.35E+08	4.41E+07	1.33E+09
X-333	33-1	9	5	16-Apr-09	26	7.86E+08	5.46E+07	1.64E+09
X-333	33-1	9	6	16-Apr-09	27	8.17E+08	5.67E+07	1.70E+09
X-333	33-1	9	7	16-Apr-09	20	6.05E+08	4.20E+07	1.26E+09
X-333	33-1	9	8	16-Apr-09	22	6.65E+08	4.62E+07	1.39E+09
X-333	33-1	10	1	16-Apr-09	21	6.35E+08	4.41E+07	1.30E+09
X-333	33-1	10	2	16-Apr-09	18	5.44E+08	3.78E+07	1.11E+09
X-333	33-1	10	3	16-Apr-09	19	5.75E+08	3.99E+07	1.18E+09
X-333	33-1	10	4	16-Apr-09	21	6.35E+08	4.41E+07	1.30E+09
X-333	33-1	10	5	16-Apr-09	16	4.84E+08	3.36E+07	9.91E+08
X-333	33-1	10	6	16-Apr-09	18	5.44E+08	3.78E+07	1.11E+09
X-333	33-1	10	7	16-Apr-09	18	5.44E+08	3.78E+07	1.11E+09
X-333	33-1	10	8	16-Apr-09	19	5.75E+08	3.99E+07	1.18E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-2	1	1	16-Apr-09	32	1.04E+09	6.72E+07	1.54E+09
X-333	33-2	1	2	16-Apr-09	26	8.44E+08	5.46E+07	1.25E+09
X-333	33-2	1	3	16-Apr-09	32	1.04E+09	6.72E+07	1.54E+09
X-333	33-2	1	4	16-Apr-09	26	8.44E+08	5.46E+07	1.25E+09
X-333	33-2	1	5	16-Apr-09	35	1.14E+09	7.35E+07	1.69E+09
X-333	33-2	1	6	16-Apr-09	26	8.44E+08	5.46E+07	1.25E+09
X-333	33-2	1	7	16-Apr-09	29	9.41E+08	6.09E+07	1.40E+09
X-333	33-2	1	8	16-Apr-09	27	8.76E+08	5.67E+07	1.30E+09
X-333	33-2	2	1	16-Apr-09	30	9.07E+08	6.30E+07	1.40E+09
X-333	33-2	2	2	16-Apr-09	31	9.38E+08	6.51E+07	1.45E+09
X-333	33-2	2	3	16-Apr-09	29	8.77E+08	6.09E+07	1.36E+09
X-333	33-2	2	4	16-Apr-09	30	9.07E+08	6.30E+07	1.40E+09
X-333	33-2	2	5	16-Apr-09	31	9.38E+08	6.51E+07	1.45E+09
X-333	33-2	2	6	16-Apr-09	26	7.86E+08	5.46E+07	1.22E+09
X-333	33-2	2	7	16-Apr-09	31	9.38E+08	6.51E+07	1.45E+09
X-333	33-2	2	8	16-Apr-09	26	7.86E+08	5.46E+07	1.22E+09
X-333	33-2	3	1	16-Apr-09	57	1.72E+09	1.20E+08	3.12E+09
X-333	33-2	3	2	16-Apr-09	33	9.98E+08	6.93E+07	1.80E+09
X-333	33-2	3	3	16-Apr-09	36	1.09E+09	7.56E+07	1.97E+09
X-333	33-2	3	4	16-Apr-09	38	1.15E+09	7.98E+07	2.08E+09
X-333	33-2	3	5	16-Apr-09	37	1.12E+09	7.77E+07	2.02E+09
X-333	33-2	3	6	16-Apr-09	38	1.15E+09	7.98E+07	2.08E+09
X-333	33-2	3	7	16-Apr-09	29	8.77E+08	6.09E+07	1.59E+09
X-333	33-2	3	8	16-Apr-09	44	1.33E+09	9.24E+07	2.41E+09
X-333	33-2	4	1	16-Apr-09	24	8.65E+08	5.04E+07	7.46E+08
X-333	33-2	4	2	16-Apr-09	25	9.01E+08	5.25E+07	7.77E+08
X-333	33-2	4	3	16-Apr-09	31	1.12E+09	6.51E+07	9.64E+08
X-333	33-2	4	4	16-Apr-09	26	9.37E+08	5.46E+07	8.09E+08
X-333	33-2	4	5	16-Apr-09	26	9.37E+08	5.46E+07	8.09E+08
X-333	33-2	4	6	16-Apr-09	29	1.05E+09	6.09E+07	9.02E+08
X-333	33-2	4	7	16-Apr-09	27	9.73E+08	5.67E+07	8.40E+08
X-333	33-2	4	8	16-Apr-09	23	8.29E+08	4.83E+07	7.15E+08
X-333	33-2	5	1	16-Apr-09	57	2.01E+09	1.20E+08	2.14E+09
X-333	33-2	5	2	16-Apr-09	62	2.18E+09	1.30E+08	2.33E+09
X-333	33-2	5	3	16-Apr-09	56	1.97E+09	1.18E+08	2.11E+09
X-333	33-2	5	4	16-Apr-09	62	2.18E+09	1.30E+08	2.33E+09
X-333	33-2	5	5	16-Apr-09	39	1.37E+09	8.19E+07	1.47E+09
X-333	33-2	5	6	16-Apr-09	47	1.66E+09	9.87E+07	1.77E+09
X-333	33-2	5	7	16-Apr-09	39	1.37E+09	8.19E+07	1.47E+09
X-333	33-2	5	8	16-Apr-09	44	1.55E+09	9.24E+07	1.65E+09
X-333	33-2	6	1	16-Apr-09	43	1.40E+09	9.03E+07	1.98E+09
X-333	33-2	6	2	16-Apr-09	49	1.59E+09	1.03E+08	2.26E+09
X-333	33-2	6	3	16-Apr-09	49	1.59E+09	1.03E+08	2.26E+09
X-333	33-2	6	4	16-Apr-09	27	8.76E+08	5.67E+07	1.25E+09
X-333	33-2	6	5	16-Apr-09	36	1.17E+09	7.56E+07	1.66E+09
X-333	33-2	6	6	16-Apr-09	33	1.07E+09	6.93E+07	1.52E+09
X-333	33-2	6	7	16-Apr-09	30	9.74E+08	6.30E+07	1.38E+09
X-333	33-2	6	8	16-Apr-09	31	1.01E+09	6.51E+07	1.43E+09
X-333	33-2	7	1	16-Apr-09	39	1.28E+09	8.19E+07	1.75E+09
X-333	33-2	7	2	16-Apr-09	32	1.05E+09	6.72E+07	1.44E+09
X-333	33-2	7	3	16-Apr-09	39	1.28E+09	8.19E+07	1.75E+09
X-333	33-2	7	4	16-Apr-09	37	1.21E+09	7.77E+07	1.66E+09
X-333	33-2	7	5	16-Apr-09	35	1.15E+09	7.35E+07	1.57E+09
X-333	33-2	7	6	16-Apr-09	40	1.31E+09	8.40E+07	1.80E+09
X-333	33-2	7	7	16-Apr-09	37	1.21E+09	7.77E+07	1.66E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-2	7	8	16-Apr-09	30	9.84E+08	6.30E+07	1.35E+09
X-333	33-2	8	1	16-Apr-09	39	1.34E+09	8.19E+07	1.62E+09
X-333	33-2	8	2	16-Apr-09	28	9.59E+08	5.88E+07	1.16E+09
X-333	33-2	8	3	16-Apr-09	34	1.16E+09	7.14E+07	1.41E+09
X-333	33-2	8	4	16-Apr-09	32	1.10E+09	6.72E+07	1.33E+09
X-333	33-2	8	5	16-Apr-09	31	1.06E+09	6.51E+07	1.28E+09
X-333	33-2	8	6	16-Apr-09	38	1.30E+09	7.98E+07	1.57E+09
X-333	33-2	8	7	16-Apr-09	33	1.13E+09	6.93E+07	1.37E+09
X-333	33-2	8	8	16-Apr-09	38	1.30E+09	7.98E+07	1.57E+09
X-333	33-2	9	1	16-Apr-09	31	1.06E+09	6.51E+07	1.32E+09
X-333	33-2	9	2	16-Apr-09	31	1.06E+09	6.51E+07	1.32E+09
X-333	33-2	9	3	16-Apr-09	34	1.16E+09	7.14E+07	1.45E+09
X-333	33-2	9	4	16-Apr-09	26	8.86E+08	5.46E+07	1.11E+09
X-333	33-2	9	5	16-Apr-09	33	1.12E+09	6.93E+07	1.40E+09
X-333	33-2	9	6	16-Apr-09	30	1.02E+09	6.30E+07	1.28E+09
X-333	33-2	9	7	16-Apr-09	30	1.02E+09	6.30E+07	1.28E+09
X-333	33-2	9	8	16-Apr-09	29	9.88E+08	6.09E+07	1.23E+09
X-333	33-2	10	1	16-Apr-09	25	9.17E+08	5.25E+07	8.60E+08
X-333	33-2	10	2	16-Apr-09	29	1.06E+09	6.09E+07	9.98E+08
X-333	33-2	10	3	16-Apr-09	29	1.06E+09	6.09E+07	9.98E+08
X-333	33-2	10	4	16-Apr-09	27	9.91E+08	5.67E+07	9.29E+08
X-333	33-2	10	5	16-Apr-09	42	1.54E+09	8.82E+07	1.45E+09
X-333	33-2	10	6	16-Apr-09	33	1.21E+09	6.93E+07	1.14E+09
X-333	33-2	10	7	16-Apr-09	31	1.14E+09	6.51E+07	1.07E+09
X-333	33-2	10	8	16-Apr-09	32	1.17E+09	6.72E+07	1.10E+09
X-333	33-3	1	1	16-Apr-09	31	1.11E+09	6.51E+07	9.73E+08
X-333	33-3	1	2	16-Apr-09	31	1.11E+09	6.51E+07	9.73E+08
X-333	33-3	1	3	16-Apr-09	34	1.22E+09	7.14E+07	1.07E+09
X-333	33-3	1	4	16-Apr-09	34	1.22E+09	7.14E+07	1.07E+09
X-333	33-3	1	5	16-Apr-09	37	1.33E+09	7.77E+07	1.16E+09
X-333	33-3	1	6	16-Apr-09	39	1.40E+09	8.19E+07	1.22E+09
X-333	33-3	1	7	16-Apr-09	36	1.29E+09	7.56E+07	1.13E+09
X-333	33-3	1	8	16-Apr-09	24	8.60E+08	5.04E+07	7.54E+08
X-333	33-3	2	1	16-Apr-09	29	1.02E+09	6.09E+07	1.09E+09
X-333	33-3	2	2	16-Apr-09	30	1.06E+09	6.30E+07	1.13E+09
X-333	33-3	2	3	16-Apr-09	35	1.23E+09	7.35E+07	1.32E+09
X-333	33-3	2	4	16-Apr-09	36	1.27E+09	7.56E+07	1.35E+09
X-333	33-3	2	5	16-Apr-09	37	1.30E+09	7.77E+07	1.39E+09
X-333	33-3	2	6	16-Apr-09	31	1.09E+09	6.51E+07	1.17E+09
X-333	33-3	2	7	16-Apr-09	39	1.37E+09	8.19E+07	1.47E+09
X-333	33-3	2	8	16-Apr-09	44	1.55E+09	9.24E+07	1.65E+09
X-333	33-3	3	1	16-Apr-09	41	1.51E+09	8.61E+07	1.38E+09
X-333	33-3	3	2	16-Apr-09	33	1.22E+09	6.93E+07	1.11E+09
X-333	33-3	3	3	16-Apr-09	42	1.55E+09	8.82E+07	1.42E+09
X-333	33-3	3	4	16-Apr-09	41	1.51E+09	8.61E+07	1.38E+09
X-333	33-3	3	5	16-Apr-09	41	1.51E+09	8.61E+07	1.38E+09
X-333	33-3	3	6	16-Apr-09	45	1.66E+09	9.45E+07	1.52E+09
X-333	33-3	3	7	16-Apr-09	50	1.85E+09	1.05E+08	1.68E+09
X-333	33-3	3	8	16-Apr-09	46	1.70E+09	9.66E+07	1.55E+09
X-333	33-3	4	1	16-Apr-09	44	1.63E+09	9.24E+07	1.95E+09
X-333	33-3	4	2	16-Apr-09	42	1.56E+09	8.82E+07	1.86E+09
X-333	33-3	4	3	16-Apr-09	43	1.60E+09	9.03E+07	1.90E+09
X-333	33-3	4	4	16-Apr-09	47	1.74E+09	9.87E+07	2.08E+09
X-333	33-3	4	5	16-Apr-09	41	1.52E+09	8.61E+07	1.81E+09
X-333	33-3	4	6	16-Apr-09	53	1.97E+09	1.11E+08	2.35E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-3	4	7	16-Apr-09	47	1.74E+09	9.87E+07	2.08E+09
X-333	33-3	4	8	16-Apr-09	44	1.63E+09	9.24E+07	1.95E+09
X-333	33-3	5	1	16-Apr-09	38	1.39E+09	7.98E+07	1.17E+09
X-333	33-3	5	2	16-Apr-09	39	1.43E+09	8.19E+07	1.20E+09
X-333	33-3	5	3	16-Apr-09	40	1.47E+09	8.40E+07	1.23E+09
X-333	33-3	5	4	16-Apr-09	42	1.54E+09	8.82E+07	1.29E+09
X-333	33-3	5	5	16-Apr-09	38	1.39E+09	7.98E+07	1.17E+09
X-333	33-3	5	6	16-Apr-09	42	1.54E+09	8.82E+07	1.29E+09
X-333	33-3	5	7	16-Apr-09	39	1.43E+09	8.19E+07	1.20E+09
X-333	33-3	5	8	16-Apr-09	34	1.25E+09	7.14E+07	1.05E+09
X-333	33-3	6	1	16-Apr-09	53	1.92E+09	1.11E+08	1.86E+09
X-333	33-3	6	2	16-Apr-09	54	1.96E+09	1.13E+08	1.90E+09
X-333	33-3	6	3	16-Apr-09	45	1.63E+09	9.45E+07	1.58E+09
X-333	33-3	6	4	16-Apr-09	51	1.85E+09	1.07E+08	1.79E+09
X-333	33-3	6	5	16-Apr-09	49	1.78E+09	1.03E+08	1.72E+09
X-333	33-3	6	6	16-Apr-09	41	1.49E+09	8.61E+07	1.44E+09
X-333	33-3	6	7	16-Apr-09	43	1.56E+09	9.03E+07	1.51E+09
X-333	33-3	6	8	16-Apr-09	45	1.63E+09	9.45E+07	1.58E+09
X-333	33-3	7	1	16-Apr-09	37	1.37E+09	7.77E+07	1.13E+09
X-333	33-3	7	2	16-Apr-09	33	1.22E+09	6.93E+07	1.01E+09
X-333	33-3	7	3	16-Apr-09	35	1.29E+09	7.35E+07	1.07E+09
X-333	33-3	7	4	16-Apr-09	38	1.40E+09	7.98E+07	1.16E+09
X-333	33-3	7	5	16-Apr-09	38	1.40E+09	7.98E+07	1.16E+09
X-333	33-3	7	6	16-Apr-09	38	1.40E+09	7.98E+07	1.16E+09
X-333	33-3	7	7	16-Apr-09	39	1.44E+09	8.19E+07	1.19E+09
X-333	33-3	7	8	16-Apr-09	30	1.11E+09	6.30E+07	9.15E+08
X-333	33-3	8	1	16-Apr-09	48	1.73E+09	1.01E+08	1.72E+09
X-333	33-3	8	2	16-Apr-09	46	1.66E+09	9.66E+07	1.65E+09
X-333	33-3	8	3	16-Apr-09	44	1.59E+09	9.24E+07	1.58E+09
X-333	33-3	8	4	16-Apr-09	46	1.66E+09	9.66E+07	1.65E+09
X-333	33-3	8	5	16-Apr-09	42	1.51E+09	8.82E+07	1.51E+09
X-333	33-3	8	6	16-Apr-09	47	1.69E+09	9.87E+07	1.69E+09
X-333	33-3	8	7	16-Apr-09	49	1.77E+09	1.03E+08	1.76E+09
X-333	33-3	8	8	16-Apr-09	37	1.33E+09	7.77E+07	1.33E+09
X-333	33-3	9	1	16-Apr-09	25	8.76E+08	5.25E+07	9.62E+08
X-333	33-3	9	2	16-Apr-09	33	1.16E+09	6.93E+07	1.27E+09
X-333	33-3	9	3	16-Apr-09	31	1.09E+09	6.51E+07	1.19E+09
X-333	33-3	9	4	16-Apr-09	32	1.12E+09	6.72E+07	1.23E+09
X-333	33-3	9	5	16-Apr-09	32	1.12E+09	6.72E+07	1.23E+09
X-333	33-3	9	6	16-Apr-09	33	1.16E+09	6.93E+07	1.27E+09
X-333	33-3	9	7	16-Apr-09	28	9.81E+08	5.88E+07	1.08E+09
X-333	33-3	9	8	16-Apr-09	31	1.09E+09	6.51E+07	1.19E+09
X-333	33-3	10	1	16-Apr-09	27	8.58E+08	5.67E+07	1.36E+09
X-333	33-3	10	2	16-Apr-09	40	1.27E+09	8.40E+07	2.02E+09
X-333	33-3	10	3	16-Apr-09	40	1.27E+09	8.40E+07	2.02E+09
X-333	33-3	10	4	16-Apr-09	37	1.18E+09	7.77E+07	1.87E+09
X-333	33-3	10	5	16-Apr-09	51	1.62E+09	1.07E+08	2.57E+09
X-333	33-3	10	6	16-Apr-09	27	8.58E+08	5.67E+07	1.36E+09
X-333	33-3	10	7	16-Apr-09	36	1.14E+09	7.56E+07	1.82E+09
X-333	33-3	10	8	16-Apr-09	34	1.08E+09	7.14E+07	1.71E+09
X-333	33-4	1	1	16-Apr-09	53	2.16E+09	1.11E+08	1.25E+09
X-333	33-4	1	2	16-Apr-09	54	2.20E+09	1.13E+08	1.27E+09
X-333	33-4	1	3	16-Apr-09	52	2.12E+09	1.09E+08	1.23E+09
X-333	33-4	1	4	16-Apr-09	48	1.96E+09	1.01E+08	1.13E+09
X-333	33-4	1	5	16-Apr-09	41	1.67E+09	8.61E+07	9.67E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-4	1	6	16-Apr-09	49	2.00E+09	1.03E+08	1.16E+09
X-333	33-4	1	7	16-Apr-09	47	1.92E+09	9.87E+07	1.11E+09
X-333	33-4	1	8	16-Apr-09	48	1.96E+09	1.01E+08	1.13E+09
X-333	33-4	2	1	16-Apr-09	66	2.51E+09	1.39E+08	1.84E+09
X-333	33-4	2	2	16-Apr-09	58	2.21E+09	1.22E+08	1.62E+09
X-333	33-4	2	3	16-Apr-09	69	2.62E+09	1.45E+08	1.92E+09
X-333	33-4	2	4	16-Apr-09	73	2.78E+09	1.53E+08	2.03E+09
X-333	33-4	2	5	16-Apr-09	79	3.00E+09	1.66E+08	2.20E+09
X-333	33-4	2	6	16-Apr-09	84	3.20E+09	1.76E+08	2.34E+09
X-333	33-4	2	7	16-Apr-09	98	3.73E+09	2.06E+08	2.73E+09
X-333	33-4	2	8	16-Apr-09	127	4.83E+09	2.67E+08	3.54E+09
X-333	33-4	3	1	16-Apr-09	123	4.62E+09	2.58E+08	3.49E+09
X-333	33-4	3	2	16-Apr-09	88	3.31E+09	1.85E+08	2.50E+09
X-333	33-4	3	3	16-Apr-09	77	2.89E+09	1.62E+08	2.18E+09
X-333	33-4	3	4	16-Apr-09	77	2.89E+09	1.62E+08	2.18E+09
X-333	33-4	3	5	16-Apr-09	67	2.52E+09	1.41E+08	1.90E+09
X-333	33-4	3	6	16-Apr-09	69	2.59E+09	1.45E+08	1.96E+09
X-333	33-4	3	7	16-Apr-09	65	2.44E+09	1.37E+08	1.84E+09
X-333	33-4	3	8	16-Apr-09	64	2.40E+09	1.34E+08	1.82E+09
X-333	33-4	4	1	16-Apr-09	33	1.28E+09	6.93E+07	8.60E+08
X-333	33-4	4	2	16-Apr-09	32	1.24E+09	6.72E+07	8.34E+08
X-333	33-4	4	3	16-Apr-09	27	1.05E+09	5.67E+07	7.04E+08
X-333	33-4	4	4	16-Apr-09	37	1.43E+09	7.77E+07	9.65E+08
X-333	33-4	4	5	16-Apr-09	39	1.51E+09	8.19E+07	1.02E+09
X-333	33-4	4	6	16-Apr-09	28	1.09E+09	5.88E+07	7.30E+08
X-333	33-4	4	7	16-Apr-09	35	1.36E+09	7.35E+07	9.12E+08
X-333	33-4	4	8	16-Apr-09	26	1.01E+09	5.46E+07	6.78E+08
X-333	33-4	5	1	16-Apr-09	46	1.84E+09	9.66E+07	1.16E+09
X-333	33-4	5	2	16-Apr-09	44	1.76E+09	9.24E+07	1.11E+09
X-333	33-4	5	3	16-Apr-09	48	1.92E+09	1.01E+08	1.21E+09
X-333	33-4	5	4	16-Apr-09	48	1.92E+09	1.01E+08	1.21E+09
X-333	33-4	5	5	16-Apr-09	55	2.20E+09	1.16E+08	1.39E+09
X-333	33-4	5	6	16-Apr-09	51	2.04E+09	1.07E+08	1.29E+09
X-333	33-4	5	7	16-Apr-09	56	2.24E+09	1.18E+08	1.41E+09
X-333	33-4	5	8	16-Apr-09	49	1.96E+09	1.03E+08	1.24E+09
X-333	33-4	6	1	16-Apr-09	52	1.87E+09	1.09E+08	1.62E+09
X-333	33-4	6	2	16-Apr-09	55	1.98E+09	1.16E+08	1.71E+09
X-333	33-4	6	3	16-Apr-09	64	2.31E+09	1.34E+08	1.99E+09
X-333	33-4	6	4	16-Apr-09	74	2.67E+09	1.55E+08	2.30E+09
X-333	33-4	6	5	16-Apr-09	67	2.42E+09	1.41E+08	2.08E+09
X-333	33-4	6	6	16-Apr-09	69	2.49E+09	1.45E+08	2.15E+09
X-333	33-4	6	7	16-Apr-09	83	2.99E+09	1.74E+08	2.58E+09
X-333	33-4	6	8	16-Apr-09	109	3.93E+09	2.29E+08	3.39E+09
X-333	33-4	7	1	16-Apr-09	30	1.06E+09	6.30E+07	1.14E+09
X-333	33-4	7	2	16-Apr-09	23	8.10E+08	4.83E+07	8.75E+08
X-333	33-4	7	3	16-Apr-09	25	8.81E+08	5.25E+07	9.51E+08
X-333	33-4	7	4	16-Apr-09	22	7.75E+08	4.62E+07	8.37E+08
X-333	33-4	7	5	16-Apr-09	22	7.75E+08	4.62E+07	8.37E+08
X-333	33-4	7	6	16-Apr-09	25	8.81E+08	5.25E+07	9.51E+08
X-333	33-4	7	7	16-Apr-09	27	9.51E+08	5.67E+07	1.03E+09
X-333	33-4	7	8	16-Apr-09	16	5.64E+08	3.36E+07	6.09E+08
X-333	33-4	8	1	16-Apr-09	73	3.33E+09	1.53E+08	2.23E+09
X-333	33-4	8	2	16-Apr-09	41	1.87E+09	8.61E+07	1.25E+09
X-333	33-4	8	3	16-Apr-09	37	1.69E+09	7.77E+07	1.13E+09
X-333	33-4	8	4	16-Apr-09	36	1.64E+09	7.56E+07	1.10E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-4	8	5	16-Apr-09	31	1.41E+09	6.51E+07	9.46E+08
X-333	33-4	8	6	16-Apr-09	29	1.32E+09	6.09E+07	8.85E+08
X-333	33-4	8	7	16-Apr-09	24	1.09E+09	5.04E+07	7.32E+08
X-333	33-4	8	8	16-Apr-09	25	1.14E+09	5.25E+07	7.63E+08
X-333	33-4	9	1	16-Apr-09	32	1.22E+09	6.72E+07	8.69E+08
X-333	33-4	9	2	16-Apr-09	34	1.30E+09	7.14E+07	9.24E+08
X-333	33-4	9	3	16-Apr-09	42	1.61E+09	8.82E+07	1.14E+09
X-333	33-4	9	4	16-Apr-09	41	1.57E+09	8.61E+07	1.11E+09
X-333	33-4	9	5	16-Apr-09	45	1.72E+09	9.45E+07	1.22E+09
X-333	33-4	9	6	16-Apr-09	38	1.45E+09	7.98E+07	1.03E+09
X-333	33-4	9	7	16-Apr-09	47	1.80E+09	9.87E+07	1.28E+09
X-333	33-4	9	8	16-Apr-09	36	1.38E+09	7.56E+07	9.78E+08
X-333	33-4	10	1	16-Apr-09	50	1.93E+09	1.05E+08	1.32E+09
X-333	33-4	10	2	16-Apr-09	60	2.31E+09	1.26E+08	1.59E+09
X-333	33-4	10	3	16-Apr-09	57	2.20E+09	1.20E+08	1.51E+09
X-333	33-4	10	4	16-Apr-09	54	2.08E+09	1.13E+08	1.43E+09
X-333	33-4	10	5	16-Apr-09	71	2.73E+09	1.49E+08	1.88E+09
X-333	33-4	10	6	16-Apr-09	70	2.70E+09	1.47E+08	1.85E+09
X-333	33-4	10	7	16-Apr-09	85	3.27E+09	1.79E+08	2.25E+09
X-333	33-4	10	8	16-Apr-09	98	3.77E+09	2.06E+08	2.60E+09
X-333	33-5	1	1	16-Apr-09	168	6.72E+09	3.53E+08	4.24E+09
X-333	33-5	1	2	16-Apr-09	121	4.84E+09	2.54E+08	3.06E+09
X-333	33-5	1	3	16-Apr-09	116	4.64E+09	2.44E+08	2.93E+09
X-333	33-5	1	4	16-Apr-09	123	4.92E+09	2.58E+08	3.11E+09
X-333	33-5	1	5	16-Apr-09	97	3.88E+09	2.04E+08	2.45E+09
X-333	33-5	1	6	16-Apr-09	97	3.88E+09	2.04E+08	2.45E+09
X-333	33-5	1	7	16-Apr-09	86	3.44E+09	1.81E+08	2.17E+09
X-333	33-5	1	8	16-Apr-09	95	3.80E+09	2.00E+08	2.40E+09
X-333	33-5	2	1	16-Apr-09	59	2.67E+09	1.24E+08	9.95E+08
X-333	33-5	2	2	16-Apr-09	58	2.62E+09	1.22E+08	9.78E+08
X-333	33-5	2	3	16-Apr-09	61	2.76E+09	1.28E+08	1.03E+09
X-333	33-5	2	4	16-Apr-09	54	2.44E+09	1.13E+08	9.10E+08
X-333	33-5	2	5	16-Apr-09	59	2.67E+09	1.24E+08	9.95E+08
X-333	33-5	2	6	16-Apr-09	54	2.44E+09	1.13E+08	9.10E+08
X-333	33-5	2	7	16-Apr-09	48	2.17E+09	1.01E+08	8.09E+08
X-333	33-5	2	8	16-Apr-09	47	2.13E+09	9.87E+07	7.92E+08
X-333	33-5	3	1	16-Apr-09	62	2.36E+09	1.30E+08	1.73E+09
X-333	33-5	3	2	16-Apr-09	55	2.09E+09	1.16E+08	1.53E+09
X-333	33-5	3	3	16-Apr-09	68	2.59E+09	1.43E+08	1.90E+09
X-333	33-5	3	4	16-Apr-09	73	2.78E+09	1.53E+08	2.03E+09
X-333	33-5	3	5	16-Apr-09	79	3.00E+09	1.66E+08	2.20E+09
X-333	33-5	3	6	16-Apr-09	85	3.23E+09	1.79E+08	2.37E+09
X-333	33-5	3	7	16-Apr-09	96	3.65E+09	2.02E+08	2.68E+09
X-333	33-5	3	8	16-Apr-09	130	4.94E+09	2.73E+08	3.62E+09
X-333	33-5	4	1	16-Apr-09	50	2.07E+09	1.05E+08	1.12E+09
X-333	33-5	4	2	16-Apr-09	55	2.27E+09	1.16E+08	1.23E+09
X-333	33-5	4	3	16-Apr-09	54	2.23E+09	1.13E+08	1.21E+09
X-333	33-5	4	4	16-Apr-09	56	2.31E+09	1.18E+08	1.26E+09
X-333	33-5	4	5	16-Apr-09	54	2.23E+09	1.13E+08	1.21E+09
X-333	33-5	4	6	16-Apr-09	54	2.23E+09	1.13E+08	1.21E+09
X-333	33-5	4	7	16-Apr-09	51	2.11E+09	1.07E+08	1.14E+09
X-333	33-5	4	8	16-Apr-09	61	2.52E+09	1.28E+08	1.37E+09
X-333	33-5	5	1	16-Apr-09	81	3.26E+09	1.70E+08	2.00E+09
X-333	33-5	5	2	16-Apr-09	79	3.18E+09	1.66E+08	1.95E+09
X-333	33-5	5	3	16-Apr-09	66	2.66E+09	1.39E+08	1.63E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-5	5	4	16-Apr-09	63	2.54E+09	1.32E+08	1.55E+09
X-333	33-5	5	5	16-Apr-09	63	2.54E+09	1.32E+08	1.55E+09
X-333	33-5	5	6	16-Apr-09	54	2.17E+09	1.13E+08	1.33E+09
X-333	33-5	5	7	16-Apr-09	54	2.17E+09	1.13E+08	1.33E+09
X-333	33-5	5	8	16-Apr-09	57	2.29E+09	1.20E+08	1.41E+09
X-333	33-5	6	1	16-Apr-09	36	1.28E+09	7.56E+07	1.32E+09
X-333	33-5	6	2	16-Apr-09	40	1.43E+09	8.40E+07	1.47E+09
X-333	33-5	6	3	16-Apr-09	35	1.25E+09	7.35E+07	1.29E+09
X-333	33-5	6	4	16-Apr-09	53	1.89E+09	1.11E+08	1.95E+09
X-333	33-5	6	5	16-Apr-09	43	1.53E+09	9.03E+07	1.58E+09
X-333	33-5	6	6	16-Apr-09	46	1.64E+09	9.66E+07	1.69E+09
X-333	33-5	6	7	16-Apr-09	41	1.46E+09	8.61E+07	1.51E+09
X-333	33-5	6	8	16-Apr-09	45	1.60E+09	9.45E+07	1.65E+09
X-333	33-5	7	1	16-Apr-09	47	1.74E+09	9.87E+07	1.55E+09
X-333	33-5	7	2	16-Apr-09	46	1.71E+09	9.66E+07	1.52E+09
X-333	33-5	7	3	16-Apr-09	47	1.74E+09	9.87E+07	1.55E+09
X-333	33-5	7	4	16-Apr-09	52	1.93E+09	1.09E+08	1.72E+09
X-333	33-5	7	5	16-Apr-09	56	2.08E+09	1.18E+08	1.85E+09
X-333	33-5	7	6	16-Apr-09	35	1.30E+09	7.35E+07	1.16E+09
X-333	33-5	7	7	16-Apr-09	30	1.11E+09	6.30E+07	9.90E+08
X-333	33-5	7	8	16-Apr-09	83	3.08E+09	1.74E+08	2.74E+09
X-333	33-5	8	1	16-Apr-09	42	1.72E+09	8.82E+07	9.76E+08
X-333	33-5	8	2	16-Apr-09	43	1.77E+09	9.03E+07	9.99E+08
X-333	33-5	8	3	16-Apr-09	44	1.81E+09	9.24E+07	1.02E+09
X-333	33-5	8	4	16-Apr-09	42	1.72E+09	8.82E+07	9.76E+08
X-333	33-5	8	5	16-Apr-09	59	2.42E+09	1.24E+08	1.37E+09
X-333	33-5	8	6	16-Apr-09	54	2.22E+09	1.13E+08	1.26E+09
X-333	33-5	8	7	16-Apr-09	56	2.30E+09	1.18E+08	1.30E+09
X-333	33-5	8	8	16-Apr-09	56	2.30E+09	1.18E+08	1.30E+09
X-333	33-5	9	1	16-Apr-09	56	1.95E+09	1.18E+08	2.18E+09
X-333	33-5	9	2	16-Apr-09	39	1.36E+09	8.19E+07	1.52E+09
X-333	33-5	9	3	16-Apr-09	43	1.50E+09	9.03E+07	1.68E+09
X-333	33-5	9	4	16-Apr-09	37	1.29E+09	7.77E+07	1.44E+09
X-333	33-5	9	5	16-Apr-09	49	1.71E+09	1.03E+08	1.91E+09
X-333	33-5	9	6	16-Apr-09	36	1.25E+09	7.56E+07	1.40E+09
X-333	33-5	9	7	16-Apr-09	33	1.15E+09	6.93E+07	1.29E+09
X-333	33-5	9	8	16-Apr-09	34	1.18E+09	7.14E+07	1.32E+09
X-333	33-5	10	1	16-Apr-09	37	1.53E+09	7.77E+07	8.42E+08
X-333	33-5	10	2	16-Apr-09	33	1.36E+09	6.93E+07	7.51E+08
X-333	33-5	10	3	16-Apr-09	38	1.57E+09	7.98E+07	8.64E+08
X-333	33-5	10	4	16-Apr-09	37	1.53E+09	7.77E+07	8.42E+08
X-333	33-5	10	5	16-Apr-09	30	1.24E+09	6.30E+07	6.82E+08
X-333	33-5	10	6	16-Apr-09	45	1.86E+09	9.45E+07	1.02E+09
X-333	33-5	10	7	16-Apr-09	31	1.28E+09	6.51E+07	7.05E+08
X-333	33-5	10	8	16-Apr-09	28	1.16E+09	5.88E+07	6.37E+08
X-333	33-6	1	1	16-Apr-09	50	1.91E+09	1.05E+08	1.34E+09
X-333	33-6	1	2	16-Apr-09	44	1.68E+09	9.24E+07	1.18E+09
X-333	33-6	1	3	16-Apr-09	50	1.91E+09	1.05E+08	1.34E+09
X-333	33-6	1	4	16-Apr-09	45	1.72E+09	9.45E+07	1.20E+09
X-333	33-6	1	5	16-Apr-09	47	1.80E+09	9.87E+07	1.26E+09
X-333	33-6	1	6	16-Apr-09	50	1.91E+09	1.05E+08	1.34E+09
X-333	33-6	1	7	16-Apr-09	50	1.91E+09	1.05E+08	1.34E+09
X-333	33-6	1	8	16-Apr-09	47	1.80E+09	9.87E+07	1.26E+09
X-333	33-6	2	1	16-Apr-09	48	2.07E+09	1.01E+08	9.33E+08
X-333	33-6	2	2	16-Apr-09	50	2.15E+09	1.05E+08	9.72E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-6	2	3	16-Apr-09	58	2.50E+09	1.22E+08	1.13E+09
X-333	33-6	2	4	16-Apr-09	50	2.15E+09	1.05E+08	9.72E+08
X-333	33-6	2	5	16-Apr-09	58	2.50E+09	1.22E+08	1.13E+09
X-333	33-6	2	6	16-Apr-09	63	2.71E+09	1.32E+08	1.22E+09
X-333	33-6	2	7	16-Apr-09	51	2.20E+09	1.07E+08	9.91E+08
X-333	33-6	2	8	16-Apr-09	40	1.72E+09	8.40E+07	7.77E+08
X-333	33-6	3	1	16-Apr-09	44	1.84E+09	9.24E+07	9.53E+08
X-333	33-6	3	2	16-Apr-09	48	2.01E+09	1.01E+08	1.04E+09
X-333	33-6	3	3	16-Apr-09	47	1.97E+09	9.87E+07	1.02E+09
X-333	33-6	3	4	16-Apr-09	44	1.84E+09	9.24E+07	9.53E+08
X-333	33-6	3	5	16-Apr-09	47	1.97E+09	9.87E+07	1.02E+09
X-333	33-6	3	6	16-Apr-09	55	2.30E+09	1.16E+08	1.19E+09
X-333	33-6	3	7	16-Apr-09	47	1.97E+09	9.87E+07	1.02E+09
X-333	33-6	3	8	16-Apr-09	54	2.26E+09	1.13E+08	1.17E+09
X-333	33-6	4	1	16-Apr-09	71	2.72E+09	1.49E+08	1.93E+09
X-333	33-6	4	2	16-Apr-09	83	3.18E+09	1.74E+08	2.26E+09
X-333	33-6	4	3	16-Apr-09	73	2.79E+09	1.53E+08	1.98E+09
X-333	33-6	4	4	16-Apr-09	70	2.68E+09	1.47E+08	1.90E+09
X-333	33-6	4	5	16-Apr-09	72	2.76E+09	1.51E+08	1.96E+09
X-333	33-6	4	6	16-Apr-09	73	2.79E+09	1.53E+08	1.98E+09
X-333	33-6	4	7	16-Apr-09	65	2.49E+09	1.37E+08	1.77E+09
X-333	33-6	4	8	16-Apr-09	82	3.14E+09	1.72E+08	2.23E+09
X-333	33-6	5	1	16-Apr-09	38	1.59E+09	7.98E+07	8.07E+08
X-333	33-6	5	2	16-Apr-09	32	1.34E+09	6.72E+07	6.80E+08
X-333	33-6	5	3	16-Apr-09	36	1.51E+09	7.56E+07	7.65E+08
X-333	33-6	5	4	16-Apr-09	42	1.76E+09	8.82E+07	8.92E+08
X-333	33-6	5	5	16-Apr-09	45	1.89E+09	9.45E+07	9.56E+08
X-333	33-6	5	6	16-Apr-09	42	1.76E+09	8.82E+07	8.92E+08
X-333	33-6	5	7	16-Apr-09	40	1.68E+09	8.40E+07	8.50E+08
X-333	33-6	5	8	16-Apr-09	35	1.47E+09	7.35E+07	7.43E+08
X-333	33-6	6	1	16-Apr-09	48	1.92E+09	1.01E+08	1.23E+09
X-333	33-6	6	2	16-Apr-09	46	1.84E+09	9.66E+07	1.18E+09
X-333	33-6	6	3	16-Apr-09	43	1.72E+09	9.03E+07	1.10E+09
X-333	33-6	6	4	16-Apr-09	49	1.96E+09	1.03E+08	1.26E+09
X-333	33-6	6	5	16-Apr-09	50	2.00E+09	1.05E+08	1.28E+09
X-333	33-6	6	6	16-Apr-09	41	1.64E+09	8.61E+07	1.05E+09
X-333	33-6	6	7	16-Apr-09	63	2.52E+09	1.32E+08	1.62E+09
X-333	33-6	6	8	16-Apr-09	71	2.84E+09	1.49E+08	1.82E+09
X-333	33-6	7	1	16-Apr-09	49	2.07E+09	1.03E+08	1.02E+09
X-333	33-6	7	2	16-Apr-09	53	2.24E+09	1.11E+08	1.10E+09
X-333	33-6	7	3	16-Apr-09	54	2.28E+09	1.13E+08	1.12E+09
X-333	33-6	7	4	16-Apr-09	53	2.24E+09	1.11E+08	1.10E+09
X-333	33-6	7	5	16-Apr-09	53	2.24E+09	1.11E+08	1.10E+09
X-333	33-6	7	6	16-Apr-09	51	2.15E+09	1.07E+08	1.06E+09
X-333	33-6	7	7	16-Apr-09	48	2.02E+09	1.01E+08	1.00E+09
X-333	33-6	7	8	16-Apr-09	49	2.07E+09	1.03E+08	1.02E+09
X-333	33-6	8	1	16-Apr-09	46	1.76E+09	9.66E+07	1.23E+09
X-333	33-6	8	2	16-Apr-09	44	1.68E+09	9.24E+07	1.18E+09
X-333	33-6	8	3	16-Apr-09	49	1.88E+09	1.03E+08	1.31E+09
X-333	33-6	8	4	16-Apr-09	59	2.26E+09	1.24E+08	1.58E+09
X-333	33-6	8	5	16-Apr-09	44	1.68E+09	9.24E+07	1.18E+09
X-333	33-6	8	6	16-Apr-09	47	1.80E+09	9.87E+07	1.26E+09
X-333	33-6	8	7	16-Apr-09	54	2.07E+09	1.13E+08	1.44E+09
X-333	33-6	8	8	16-Apr-09	45	1.72E+09	9.45E+07	1.20E+09
X-333	33-6	9	1	16-Apr-09	24	9.30E+08	5.04E+07	6.21E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-6	9	2	16-Apr-09	24	9.30E+08	5.04E+07	6.21E+08
X-333	33-6	9	3	16-Apr-09	25	9.69E+08	5.25E+07	6.47E+08
X-333	33-6	9	4	16-Apr-09	29	1.12E+09	6.09E+07	7.50E+08
X-333	33-6	9	5	16-Apr-09	24	9.30E+08	5.04E+07	6.21E+08
X-333	33-6	9	6	16-Apr-09	23	8.91E+08	4.83E+07	5.95E+08
X-333	33-6	9	7	16-Apr-09	27	1.05E+09	5.67E+07	6.98E+08
X-333	33-6	9	8	16-Apr-09	21	8.14E+08	4.41E+07	5.43E+08
X-333	33-6	10	1	16-Apr-09	48	2.01E+09	1.01E+08	1.03E+09
X-333	33-6	10	2	16-Apr-09	34	1.42E+09	7.14E+07	7.27E+08
X-333	33-6	10	3	16-Apr-09	39	1.63E+09	8.19E+07	8.34E+08
X-333	33-6	10	4	16-Apr-09	40	1.68E+09	8.40E+07	8.55E+08
X-333	33-6	10	5	16-Apr-09	33	1.38E+09	6.93E+07	7.06E+08
X-333	33-6	10	6	16-Apr-09	49	2.05E+09	1.03E+08	1.05E+09
X-333	33-6	10	7	16-Apr-09	44	1.84E+09	9.24E+07	9.41E+08
X-333	33-6	10	8	16-Apr-09	33	1.38E+09	6.93E+07	7.06E+08
X-333	33-7	1	1	16-Apr-09	46	2.02E+09	9.66E+07	8.42E+08
X-333	33-7	1	2	16-Apr-09	42	1.85E+09	8.82E+07	7.69E+08
X-333	33-7	1	3	16-Apr-09	41	1.80E+09	8.61E+07	7.51E+08
X-333	33-7	1	4	16-Apr-09	39	1.71E+09	8.19E+07	7.14E+08
X-333	33-7	1	5	16-Apr-09	50	2.20E+09	1.05E+08	9.16E+08
X-333	33-7	1	6	16-Apr-09	35	1.54E+09	7.35E+07	6.41E+08
X-333	33-7	1	7	16-Apr-09	39	1.71E+09	8.19E+07	7.14E+08
X-333	33-7	1	8	16-Apr-09	41	1.80E+09	8.61E+07	7.51E+08
X-333	33-7	2	1	16-Apr-09	39	1.71E+09	8.19E+07	7.18E+08
X-333	33-7	2	2	16-Apr-09	54	2.37E+09	1.13E+08	9.95E+08
X-333	33-7	2	3	16-Apr-09	48	2.11E+09	1.01E+08	8.84E+08
X-333	33-7	2	4	16-Apr-09	60	2.64E+09	1.26E+08	1.11E+09
X-333	33-7	2	5	16-Apr-09	39	1.71E+09	8.19E+07	7.18E+08
X-333	33-7	2	6	16-Apr-09	54	2.37E+09	1.13E+08	9.95E+08
X-333	33-7	2	7	16-Apr-09	44	1.93E+09	9.24E+07	8.10E+08
X-333	33-7	2	8	16-Apr-09	42	1.85E+09	8.82E+07	7.74E+08
X-333	33-7	3	1	16-Apr-09	50	2.21E+09	1.05E+08	8.95E+08
X-333	33-7	3	2	16-Apr-09	55	2.44E+09	1.16E+08	9.85E+08
X-333	33-7	3	3	16-Apr-09	50	2.21E+09	1.05E+08	8.95E+08
X-333	33-7	3	4	16-Apr-09	52	2.30E+09	1.09E+08	9.31E+08
X-333	33-7	3	5	16-Apr-09	57	2.52E+09	1.20E+08	1.02E+09
X-333	33-7	3	6	16-Apr-09	54	2.39E+09	1.13E+08	9.67E+08
X-333	33-7	3	7	16-Apr-09	51	2.26E+09	1.07E+08	9.13E+08
X-333	33-7	3	8	16-Apr-09	77	3.41E+09	1.62E+08	1.38E+09
X-333	33-7	4	1	16-Apr-09	65	2.80E+09	1.37E+08	1.29E+09
X-333	33-7	4	2	16-Apr-09	52	2.24E+09	1.09E+08	1.03E+09
X-333	33-7	4	3	16-Apr-09	56	2.41E+09	1.18E+08	1.11E+09
X-333	33-7	4	4	16-Apr-09	57	2.45E+09	1.20E+08	1.13E+09
X-333	33-7	4	5	16-Apr-09	61	2.63E+09	1.28E+08	1.21E+09
X-333	33-7	4	6	16-Apr-09	68	2.93E+09	1.43E+08	1.35E+09
X-333	33-7	4	7	16-Apr-09	69	2.97E+09	1.45E+08	1.37E+09
X-333	33-7	4	8	16-Apr-09	57	2.45E+09	1.20E+08	1.13E+09
X-333	33-7	5	1	16-Apr-09	51	2.08E+09	1.07E+08	1.20E+09
X-333	33-7	5	2	16-Apr-09	44	1.79E+09	9.24E+07	1.04E+09
X-333	33-7	5	3	16-Apr-09	52	2.12E+09	1.09E+08	1.23E+09
X-333	33-7	5	4	16-Apr-09	52	2.12E+09	1.09E+08	1.23E+09
X-333	33-7	5	5	16-Apr-09	45	1.84E+09	9.45E+07	1.06E+09
X-333	33-7	5	6	16-Apr-09	64	2.61E+09	1.34E+08	1.51E+09
X-333	33-7	5	7	16-Apr-09	62	2.53E+09	1.30E+08	1.46E+09
X-333	33-7	5	8	16-Apr-09	52	2.12E+09	1.09E+08	1.23E+09

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-7	6	1	16-Apr-09	66	3.08E+09	1.39E+08	1.46E+09
X-333	33-7	6	2	16-Apr-09	55	2.56E+09	1.16E+08	1.22E+09
X-333	33-7	6	3	16-Apr-09	61	2.84E+09	1.28E+08	1.35E+09
X-333	33-7	6	4	16-Apr-09	63	2.94E+09	1.32E+08	1.39E+09
X-333	33-7	6	5	16-Apr-09	55	2.56E+09	1.16E+08	1.22E+09
X-333	33-7	6	6	16-Apr-09	66	3.08E+09	1.39E+08	1.46E+09
X-333	33-7	6	7	16-Apr-09	50	2.33E+09	1.05E+08	1.11E+09
X-333	33-7	6	8	16-Apr-09	51	2.38E+09	1.07E+08	1.13E+09
X-333	33-7	7	1	16-Apr-09	64	2.88E+09	1.34E+08	1.09E+09
X-333	33-7	7	2	16-Apr-09	58	2.61E+09	1.22E+08	9.88E+08
X-333	33-7	7	3	16-Apr-09	59	2.65E+09	1.24E+08	1.01E+09
X-333	33-7	7	4	16-Apr-09	70	3.14E+09	1.47E+08	1.19E+09
X-333	33-7	7	5	16-Apr-09	58	2.61E+09	1.22E+08	9.88E+08
X-333	33-7	7	6	16-Apr-09	62	2.79E+09	1.30E+08	1.06E+09
X-333	33-7	7	7	16-Apr-09	61	2.74E+09	1.28E+08	1.04E+09
X-333	33-7	7	8	16-Apr-09	53	2.38E+09	1.11E+08	9.03E+08
X-333	33-7	8	1	16-Apr-09	70	2.97E+09	1.47E+08	1.44E+09
X-333	33-7	8	2	16-Apr-09	62	2.63E+09	1.30E+08	1.27E+09
X-333	33-7	8	3	16-Apr-09	41	1.74E+09	8.61E+07	8.43E+08
X-333	33-7	8	4	16-Apr-09	109	4.63E+09	2.29E+08	2.24E+09
X-333	33-7	8	5	16-Apr-09	47	2.00E+09	9.87E+07	9.66E+08
X-333	33-7	8	6	16-Apr-09	117	4.68E+09	2.46E+08	3.00E+09
X-333	33-7	8	7	16-Apr-09	40	1.70E+09	8.40E+07	8.22E+08
X-333	33-7	8	8	16-Apr-09	86	3.65E+09	1.81E+08	1.77E+09
X-333	33-7	9	1	16-Apr-09	33	1.38E+09	6.93E+07	7.06E+08
X-333	33-7	9	2	16-Apr-09	27	1.13E+09	5.67E+07	5.77E+08
X-333	33-7	9	3	16-Apr-09	29	1.21E+09	6.09E+07	6.20E+08
X-333	33-7	9	4	16-Apr-09	20	8.38E+08	4.20E+07	4.28E+08
X-333	33-7	9	5	16-Apr-09	28	1.17E+09	5.88E+07	5.99E+08
X-333	33-7	9	6	16-Apr-09	27	1.13E+09	5.67E+07	5.77E+08
X-333	33-7	9	7	16-Apr-09	24	1.01E+09	5.04E+07	5.13E+08
X-333	33-7	9	8	16-Apr-09	18	7.54E+08	3.78E+07	3.85E+08
X-333	33-7	10	1	16-Apr-09	41	1.90E+09	8.61E+07	6.63E+08
X-333	33-7	10	2	16-Apr-09	44	2.04E+09	9.24E+07	7.11E+08
X-333	33-7	10	3	16-Apr-09	32	1.48E+09	6.72E+07	5.17E+08
X-333	33-7	10	4	16-Apr-09	42	1.94E+09	8.82E+07	6.79E+08
X-333	33-7	10	5	16-Apr-09	38	1.76E+09	7.98E+07	6.14E+08
X-333	33-7	10	6	16-Apr-09	33	1.53E+09	6.93E+07	5.34E+08
X-333	33-7	10	7	16-Apr-09	39	1.80E+09	8.19E+07	6.31E+08
X-333	33-7	10	8	16-Apr-09	29	1.34E+09	6.09E+07	4.69E+08
X-333	33-8	1	1	16-Apr-09	44	1.81E+09	9.24E+07	1.02E+09
X-333	33-8	1	2	16-Apr-09	51	2.09E+09	1.07E+08	1.19E+09
X-333	33-8	1	3	16-Apr-09	44	1.81E+09	9.24E+07	1.02E+09
X-333	33-8	1	4	16-Apr-09	47	1.93E+09	9.87E+07	1.09E+09
X-333	33-8	1	5	16-Apr-09	56	2.30E+09	1.18E+08	1.30E+09
X-333	33-8	1	6	16-Apr-09	44	1.81E+09	9.24E+07	1.02E+09
X-333	33-8	1	7	16-Apr-09	38	1.56E+09	7.98E+07	8.83E+08
X-333	33-8	1	8	16-Apr-09	47	1.93E+09	9.87E+07	1.09E+09
X-333	33-8	2	1	16-Apr-09	49	2.11E+09	1.03E+08	9.64E+08
X-333	33-8	2	2	16-Apr-09	46	1.98E+09	9.66E+07	9.05E+08
X-333	33-8	2	3	16-Apr-09	41	1.77E+09	8.61E+07	8.06E+08
X-333	33-8	2	4	16-Apr-09	54	2.33E+09	1.13E+08	1.06E+09
X-333	33-8	2	5	16-Apr-09	44	1.89E+09	9.24E+07	8.65E+08
X-333	33-8	2	6	16-Apr-09	54	2.33E+09	1.13E+08	1.06E+09
X-333	33-8	2	7	16-Apr-09	47	2.02E+09	9.87E+07	9.24E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-8	2	8	16-Apr-09	48	2.07E+09	1.01E+08	9.44E+08
X-333	33-8	3	1	16-Apr-09	69	2.95E+09	1.45E+08	1.37E+09
X-333	33-8	3	2	16-Apr-09	52	2.22E+09	1.09E+08	1.04E+09
X-333	33-8	3	3	16-Apr-09	62	2.65E+09	1.30E+08	1.23E+09
X-333	33-8	3	4	16-Apr-09	55	2.35E+09	1.16E+08	1.10E+09
X-333	33-8	3	5	16-Apr-09	61	2.61E+09	1.28E+08	1.21E+09
X-333	33-8	3	6	16-Apr-09	57	2.44E+09	1.20E+08	1.14E+09
X-333	33-8	3	7	16-Apr-09	54	2.31E+09	1.13E+08	1.08E+09
X-333	33-8	3	8	16-Apr-09	51	2.18E+09	1.07E+08	1.02E+09
X-333	33-8	4	1	16-Apr-09	69	3.37E+09	1.45E+08	1.29E+09
X-333	33-8	4	2	16-Apr-09	60	2.93E+09	1.26E+08	1.12E+09
X-333	33-8	4	3	16-Apr-09	64	3.12E+09	1.34E+08	1.20E+09
X-333	33-8	4	4	16-Apr-09	60	2.93E+09	1.26E+08	1.12E+09
X-333	33-8	4	5	16-Apr-09	49	2.39E+09	1.03E+08	9.19E+08
X-333	33-8	4	6	16-Apr-09	50	2.44E+09	1.05E+08	9.37E+08
X-333	33-8	4	7	16-Apr-09	52	2.54E+09	1.09E+08	9.75E+08
X-333	33-8	4	8	16-Apr-09	50	2.44E+09	1.05E+08	9.37E+08
X-333	33-8	5	1	16-Apr-09	65	3.12E+09	1.37E+08	1.18E+09
X-333	33-8	5	2	16-Apr-09	62	2.98E+09	1.30E+08	1.13E+09
X-333	33-8	5	3	16-Apr-09	67	3.22E+09	1.41E+08	1.22E+09
X-333	33-8	5	4	16-Apr-09	66	3.17E+09	1.39E+08	1.20E+09
X-333	33-8	5	5	16-Apr-09	63	3.03E+09	1.32E+08	1.15E+09
X-333	33-8	5	6	16-Apr-09	66	3.17E+09	1.39E+08	1.20E+09
X-333	33-8	5	7	16-Apr-09	60	2.88E+09	1.26E+08	1.09E+09
X-333	33-8	5	8	16-Apr-09	68	3.27E+09	1.43E+08	1.24E+09
X-333	33-8	6	1	16-Apr-09	64	2.39E+09	1.34E+08	1.83E+09
X-333	33-8	6	2	16-Apr-09	54	2.02E+09	1.13E+08	1.55E+09
X-333	33-8	6	3	16-Apr-09	67	2.50E+09	1.41E+08	1.92E+09
X-333	33-8	6	4	16-Apr-09	68	2.54E+09	1.43E+08	1.95E+09
X-333	33-8	6	5	16-Apr-09	72	2.69E+09	1.51E+08	2.06E+09
X-333	33-8	6	6	16-Apr-09	90	3.36E+09	1.89E+08	2.58E+09
X-333	33-8	6	7	16-Apr-09	100	3.73E+09	2.10E+08	2.86E+09
X-333	33-8	6	8	16-Apr-09	105	3.92E+09	2.21E+08	3.00E+09
X-333	33-8	7	1	16-Apr-09	57	2.74E+09	1.20E+08	1.15E+09
X-333	33-8	7	2	16-Apr-09	53	2.55E+09	1.11E+08	1.07E+09
X-333	33-8	7	3	16-Apr-09	60	2.88E+09	1.26E+08	1.21E+09
X-333	33-8	7	4	16-Apr-09	57	2.74E+09	1.20E+08	1.15E+09
X-333	33-8	7	5	16-Apr-09	65	3.12E+09	1.37E+08	1.31E+09
X-333	33-8	7	6	16-Apr-09	54	2.60E+09	1.13E+08	1.09E+09
X-333	33-8	7	7	16-Apr-09	58	2.79E+09	1.22E+08	1.17E+09
X-333	33-8	7	8	16-Apr-09	47	2.26E+09	9.87E+07	9.48E+08
X-333	33-8	8	1	16-Apr-09	73	3.54E+09	1.53E+08	1.40E+09
X-333	33-8	8	2	16-Apr-09	60	2.91E+09	1.26E+08	1.15E+09
X-333	33-8	8	3	16-Apr-09	67	3.25E+09	1.41E+08	1.29E+09
X-333	33-8	8	4	16-Apr-09	65	3.15E+09	1.37E+08	1.25E+09
X-333	33-8	8	5	16-Apr-09	66	3.20E+09	1.39E+08	1.27E+09
X-333	33-8	8	6	16-Apr-09	67	3.25E+09	1.41E+08	1.29E+09
X-333	33-8	8	7	16-Apr-09	52	2.52E+09	1.09E+08	9.98E+08
X-333	33-8	8	8	16-Apr-09	60	2.91E+09	1.26E+08	1.15E+09
X-333	33-8	9	1	16-Apr-09	32	1.55E+09	6.72E+07	6.26E+08
X-333	33-8	9	2	16-Apr-09	39	1.89E+09	8.19E+07	7.62E+08
X-333	33-8	9	3	16-Apr-09	27	1.31E+09	5.67E+07	5.28E+08
X-333	33-8	9	4	16-Apr-09	42	2.03E+09	8.82E+07	8.21E+08
X-333	33-8	9	5	16-Apr-09	39	1.89E+09	8.19E+07	7.62E+08
X-333	33-8	9	6	16-Apr-09	37	1.79E+09	7.77E+07	7.23E+08

Facility ID	Unit ID	Cell ID	Stage ID	Date	Max U235 Gms X-333 Adjusted	U-234 pCi	U-235 pCi	U-238 pCi
X-333	33-8	9	7	16-Apr-09	37	1.79E+09	7.77E+07	7.23E+08
X-333	33-8	9	8	16-Apr-09	41	1.99E+09	8.61E+07	8.02E+08
X-333	33-8	10	1	16-Apr-09	100	4.43E+09	2.10E+08	1.80E+09
X-333	33-8	10	2	16-Apr-09	47	2.08E+09	9.87E+07	8.46E+08
X-333	33-8	10	3	16-Apr-09	99	4.38E+09	2.08E+08	1.78E+09
X-333	33-8	10	4	16-Apr-09	75	3.32E+09	1.58E+08	1.35E+09
X-333	33-8	10	5	16-Apr-09	77	3.41E+09	1.62E+08	1.39E+09
X-333	33-8	10	6	16-Apr-09	94	4.16E+09	1.97E+08	1.69E+09
X-333	33-8	10	7	16-Apr-09	67	2.97E+09	1.41E+08	1.21E+09
X-333	33-8	10	8	16-Apr-09	83	3.68E+09	1.74E+08	1.49E+09

APPENDIX L: COST ESTIMATE

TABLES

ACRONYMS

D&D	decontamination and decommissioning
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE	U.S. Department of Energy
EC	engineering category
FML	flexible membrane liner
FS	feasibility study
FY	fiscal year
GCL	geosynthetic clay liner
ILTS	interim leachate treatment system
IMTA	interim materials transfer area
NNSS	Nevada National Security Site
OMB	Office of Management and Budget
OSDC	on-Site disposal cell
PORTS	Portsmouth Gaseous Diffusion Plant
RC	regulatory category
RFP	request for proposal
RI	remedial investigation
S&M	surveillance and maintenance
WAC	waste acceptance criteria
WBS	work breakdown structure

Basis of Estimate for Waste Disposition Remedial Investigation/Feasibility Study (RI/FS) Cost Estimate

Introduction

Two action alternatives are presented in the waste disposition RI/FS: on-Site with some off-Site disposal and all off-Site disposal. Alternative 2, on-Site disposal, involves siting, constructing, and operating a potential engineered on-Site disposal cell (OSDC) for disposal of anticipated decontamination and decommissioning (D&D) waste (regulatory category [RC]-1) generated at the Portsmouth Gaseous Diffusion Plant (PORTS), referred to as *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O) waste. In Alternative 2, waste not meeting a potential OSDC waste acceptance criteria (WAC) would be shipped to appropriate off-Site disposal facilities. Alternative 3, off-Site disposal, involves transporting and disposing of PORTS DFF&O waste at off-Site facilities.

Methodology

The U.S. Department of Energy's (DOE's) D&D contractor will perform the majority of the activities with direct-hired forces. Specialty subcontractors will be used as needed.

Estimate Type and Approach

This is a bottoms-up activity based cost estimate based on process knowledge of the project team. The estimates for the majority of the labor activities are based on field experience with similar waste management and disposal operations. The majority of the materials and equipment costs are based on vendor quotes and pricing guides such as R.S. Means and Richardson's. Labor costs were estimated using composite labor rates. Less defined items where no design was available, the details of the scope could not be accurately quantified, or that did not warrant more accuracy, were included as allowances based on project team and estimator judgment.

A total capital (unescalated) cost is presented including annual surveillance and maintenance (S&M) costs which are presented first as S&M during operation of the permanent leachate treatment system and second as S&M during operation of the passive leachate treatment system for a period of 1,000 years. A present value (capital, S&M, and total) cost is also presented.

Key Financial Data

- All costs included are in fiscal year (FY) 2013 unescalated dollars.
- A 7 percent sales tax has been added on all materials to account for Ohio sales tax.
- Contractor indirect cost of 12 percent has been added (no Contractor Indirects are applied to DOE Prime contract costs (i.e., Nevada National Security Site [NNSS] & Energy*Solutions* disposal fees).
- Net present value of unescalated costs has been calculated in FY 2010 dollars using a 2 percent real discount rate (Office of Management and Budget [OMB] 2011).
- No contingency is included.

Schedule

The design, construction, operation, and capping schedule for a potential OSDC is assumed to be 13 years. After that, the permanent leachate collection system would remain operational through year 2055, when it is then demolished. In fact, the system would be removed once the leachate generation rate has lessened and stabilized. S&M costs were estimated for 1,000 years after capping, but in 2055 the annual S&M costs are assumed to stabilize at a lower rate, reflecting the lower treatment costs from the passive leachate treatment system.

The off-Site disposal alternative is assumed to take 20 years to implement. This schedule is based on level funding. All S&M costs are assumed to be borne by the off-Site disposal cell operators and are included in the cost of disposal.

Basis of Estimate for Waste Disposition RI/FS
Alternative 2, On-Site Waste Disposal

The cost estimate is summarized in 16 work breakdown structure (WBS) items. The scope and estimate assumptions for each WBS item are presented below. Key parameters are shown in Table L.1. The total waste volume is either in situ volume or the segmented volume (primarily for converters), which is assumed to be the disposed volume for OSDC capacity determination. The volumes include waste generated as a result of D&D of PORTS (RC-1), as well as waste (RC-3, engineering category [EC]-2) generated from using contaminated soil as fill (RC-2, RC-3, EC-1). As applicable, bulked volumes were used for estimating the cost of transporting the waste.

Table L.1. On-Site Waste Disposal Alternative Key Parameters

Alternative parameters	Volume (Disposed) (cy)
Total waste volume (RC-1, RC-3, EC-2)	1,587,000
Waste volume for recycling	110,000
Waste volume for off-Site disposal	122,000
Waste volume for OSDC (RC-1, RC-3, EC-2)	1,354,000
Additional soil fill required for OSDC	2,549,000
OSDC capacity	3,903,000
OSDC waste footprint	1,430 ft by 1,600 ft (approximately 52.5 acres)

EC = engineering category
OSDC = on-Site disposal cell
RC = regulatory category

1. Regulatory Documents

Scope. Preparation of the Remedial Design Report, Remedial Action Work Plan, and Remedial Action Report in accordance with DFF&O requirements.

Estimate Assumptions

- A lump sum based on professional judgment is included.

2. Remedial Design Documents

Scope. Preparation of design drawings and specifications for OSDC and infrastructure construction, preparation of requests for proposals (RFPs), bid and award of subcontracts, and procurement support. Reference Section 8.3.2.1.1, *Potential OSDC design*, of the waste disposition RI/FS Report.

Estimate Assumptions

- Four RFPs would be prepared and four contracts would be awarded.
- The estimate for drawings, specifications and procurement packages for a potential OSDC and cap construction is estimated at 9 percent of the construction costs for a potential OSDC.
- The estimate for drawings, specifications and procurement packages for infrastructure and the leachate collection/treatment systems is estimated at 7 percent of the infrastructure construction costs.

3. Pre Design/Construction

Scope. Construction of test pits at potential borrow areas and within the disposal facility footprint; construction of test pads for materials of construction evaluations; demonstration of waste disposal methods; and installation of a global positioning system station. Reference Section 8.3.2.1.2, *Pre-design studies*, of the waste disposition RI/FS Report.

4. Cell Construction

Scope. Site preparation, rough cut grading, and construction of a potential OSDC and final cover; excavation and transfer of materials from the off-Site borrow area; establishing the on-Site stockpile area. Reference Sections 8.3.2.1.1, *Potential OSDC design*, and 8.3.2.1.3, *Site preparation and potential OSDC construction*, of the waste disposition RI/FS Report.

Estimate Assumptions

- 122 acres would be cleared and grubbed for a potential OSDC, 37 acres for the off-PORTS borrow area, and 100 acres for the on-Site stockpile area. Additional areas would be cleared as part of subsequent activities for a total of 320 acres cleared.
- 1,717,000 cy of bedrock would be cut at a potential OSDC and 394,000 cy at the off-PORTS borrow area.
- A potential OSDC would be constructed in a modular fashion and would have a compacted clay liner with a double geocomposite liner system, along with two low-permeability liners, a leachate collection and removal system, and a leak detection system. From the OSDC base the multi-layer liner system would include: 3 ft of compacted clay; a geosynthetic clay liner (GCL) and flexible membrane liner (FML); 1-ft-thick gravel leak detection layer in between the two geotextile layers; a primary liner consisting of an FML and low-permeability GCL; 1-ft-thick gravel layer and highly permeable geonet on sloping walls; and a 1-ft-thick soil layer.
- The final cover would be 10 ft thick. From the base the cover would consist of: 1-ft-thick soil cover; 2-ft-thick, low permeability, clay layer; a GCL and an FML; 1-ft-thick gravel drainage layer; 3-ft-thick biointrusion barrier; and 2-ft-thick vegetated soil layer.
- A bottoms up estimate was initially prepared for construction of a potential OSDC to dispose 4.77 million cy. The cost for construction of the potential OSDC in Alternative 2 was developed by scaling the costs down by 18 percent for a cell capacity of 3.90 million cy.

5. Infrastructure Construction

Scope. Upgrade of existing roads and railroad system; and construction of new haul roads, security roads, patrol road, interim materials transfer area (IMTA), IMTA contact water retention basins, sediment basins, support facilities, and the leachate transmission system. Reference Sections 8.3.2.1.1, *Potential*

OSDC design, and 8.3.2.1.3, *Site preparation and potential OSDC construction*, of the waste disposition RI/FS Report.

Estimate Assumptions

- The IMTA would encompass 23 acres and would be constructed of the following: 2-ft compacted base followed by a geotextile cushion, 60 mil geomembrane liner, geonet, geotextile fabric, and a 1-ft-thick layer of soil. The area would be surrounded with a perimeter berm tied to the contact water retention basin.

6. Interim Leachate Treatment System Construction

Scope. Construction of interim leachate treatment system (ILTS). Reference Section 8.3.2.1.1, *Potential OSDC design*, of the waste disposition RI/FS Report.

Estimate Assumptions

- The ILTS would be sized to treat 350 gpm of leachate and equipped with chemical precipitation, ion exchange, and carbon adsorption.

7. Cell Operations

Scope. Operation a potential OSDC and IMTA for 9 years. Reference Section 8.3.2.1.5, *Potential OSDC operations*, of the waste disposition RI/FS Report.

Estimate Assumptions

- On-Site disposal volumes are shown in Table L.1.

- A bottoms up estimate was prepared for operation of a potential OSDC for 5 years. The annual costs were extended to 9 years by increasing the estimate by 35 percent.

8. Waste Transport to Cell

Scope. Transporting waste meeting disposal facility WAC to a potential OSDC. Reference Section 8.3.2.1.5, *Potential OSDC operations*, of the waste disposition RI/FS Report.

Estimate Assumptions

- Total volumes transported are shown in Table L.1.

- Estimates were prepared using a unit rate assembly that combines labor, equipment and materials. The assembly was developed based on process knowledge from similar previous projects.

- The majority of waste would be transported to a potential OSDC in articulated dump trucks.

- Transportation is assumed to be completely within a radiological area, which allows transport without survey or tarps. This results in nominally 10 turns per day from the point of generation to a potential OSDC.

9. Off-Site Shipment and Disposal

Scope. Transporting waste not meeting WAC of a potential OSDC to off-Site disposal facilities. Reference Section 8.3.2.1.9, *Off-Site disposal*, of the waste disposition RI/FS Report.

Estimate Assumptions

- Volumes for off-Site disposal are shown in Table L.1.

- Estimates were prepared using unit rate assemblies for each disposal location that combines labor, equipment, materials, and transportation. The assemblies were developed based on process knowledge from previous projects.

- Gondola rail transport to Energy*Solutions* is assumed to require 3 months for loading, shipping, disposal, and return.

- Gondolas are weight limited.

- Disposal fees were from vendor quotes.

10. Interim Leachate Treatment System Operation During Cell Construction/Operations

Scope. Operating the ILTS for 9 years during OSDC construction and operations. Reference Section 8.3.2.1.1, *Potential OSDC design*, of the waste disposition RI/FS Report.

Estimate Assumptions

- An annual cost of labor, equipment, materials and subcontract support was estimated and extended for 9 years.

11. Cell Maintenance During Construction

Scope. Annual inspection and maintenance of the cell for 9 years during construction and operations of a potential OSDC. Reference Section 8.3.2.1.3, *Site preparation and potential OSDC construction*, of the waste disposition RI/FS Report.

Estimate Assumptions

- An annual cost of labor, equipment, materials and subcontract support was estimated and extended for 9 years.

12. Permanent Leachate Treatment Facility Construction

Scope. Construction and installation of the permanent leachate treatment facility. Reference Sections 8.3.2.1.1, *Potential OSDC design,* and 8.3.2.1.8, *Post-operations surveillance and maintenance*, of the waste disposition RI/FS Report.

Estimate Assumptions

- A bottoms up estimate for labor, materials, equipment, and subcontracted services was estimated.

13. Land Use Controls

Scope. Preparation of administrative control documents and legal support. Reference Section 8.3.2.1.8, *Post-operations surveillance and maintenance*, of the waste disposition RI/FS Report.

Estimate Assumptions

- Estimate provided as a lump sum based costs associated with similar projects.

14. Long Term S&M and Monitoring

Scope. Perform S&M and monitoring after OSDC capping. Reference Section 8.3.2.1.8, *Post-operations surveillance and maintenance,* of the waste disposition RI/FS Report.

Estimate Assumptions

- Annual inspection and maintenance of the disposal facility cap would continue after OSDC capping at the same annual cost as 2025.
- Security patrol would occur once per week after OSDC capping.
- Five-year-review regulatory reviews would be performed during years 1 through 30 after OSDC capping.
- The permanent leachate treatment system would be operated for 30 years after OSDC capping and removed and disposed of in year 2054. The passive leachate treatment system would not require any active S&M starting in year 2055.
- Seven groundwater wells would be sampled and analyzed quarterly for 30 years after OSDC capping and annually following.

15. Recyclables (Nickel) Staging Construction and Operations

Scope. Design, construction, transport to, and operations of a staging facility to store 6,400 metric tons of nickel recovered from X-330 and X-333 converters. Reference Section 8.3.2.1.10 *Recycling and/or reuse*, of the waste disposition RI/FS Report.

Estimate Assumptions

- X-744G will be hardened for secure storage and the roof replaced with a membrane roof.
- Nickel in IP-1 containers (provided by the segmentation process in the Process Buildings and Complex Facilities D&D Evaluation RI/FS) with security locks will be transported. Nominally 3,000 trips with a forklift will be used.
- Active secure staging (filling the facility) will occur for 5 years; 4 additional years of passive staging is assumed before the nickel is removed for recovery and decontamination. Removal, further transport, recovery and decontamination is not in the scope.

16. Fill Soil From Landfills and Plumes (RC-2, RC-3)

Scope. Regulatory documents, remedial design, and pre-design characterization will be performed for each landfill and plume area. Site preparation and remediation will occur with excavation control characterization. Impacted soils (and waste requiring fill [RC-3, EC-2] from the landfills) will be transported to a potential OSDC for use as fill. Placement of the fill soil and landfill waste at a potential OSDC is included in Cell Operations above. Soils not meeting the OSDC WAC will be treated on Site before transport for disposal at a potential OSDC. Waste not meeting the OSDC WAC will be packaged and transported to off-Site treatment and disposal (Energy*Solutions*). Reference Section 8.3.2.1.6 *Fill operations*, of the waste disposition RI/FS Report.

Estimate Assumptions

- Total volumes excavated and transported are 222,000 cy of landfill waste requiring fill (RC-3, EC-2) and 1,839,000 cy of contaminated soils (RC-2, RC-3 and EC-1). An additional 710,000 cy of clean soil is needed to be transported from the landfill areas (overburden or cap materials) to a potential OSDC to meet the fill needs.

- Estimates were prepared using a unit rate assembly that combines labor, equipment and materials. The assembly was developed based on process knowledge from similar previous projects.

- The majority of fill (and landfill waste) is transported to a potential OSDC in articulated dump trucks.

- Excavation and transportation is assumed to be completely within a radiological area which allows transport without survey or tarps. This results in nominally 10 turns per day from the point of generation to a potential OSDC.

- All landfill cap material and 14 percent of the plume clean overburden will be transported to a potential OSDC for use as fill. The remainder of the plume overburden will be stockpiled and restored to the excavation during site restoration.

- Site restoration will include contouring of the excavation area to promote runoff to existing streams and bodies of water, including revegetation and runoff controls.

Basis of Estimate for Waste Disposition RI/FS
Alternative 3, Off-Site Waste Disposal

The cost estimate for off-Site disposal is summarized in five WBS items. The scope and estimate assumptions for each WBS item are presented below. Key parameters for the off-Site disposal alternative are shown in Table L.3. The waste volume is presented based on in situ volumes; however, estimates use the bulked volume for transport and disposal off Site. In the case of segmented process gas equipment, transport and disposal estimates factor in a segmentation ratio for off-Site transport and disposal. The major differences in volumes from the on-Site alternative are the absence of waste requiring fill from the landfills (RC-2, RC-3 and EC-2) and the quantity and extent of process gas equipment segmentation. More information can be found in Section 8.3.3.2, *Detailed description of off-Site alternative,* of the waste disposition RI/FS.

Table L.2. Off-Site Waste Disposal Alternative Key Parameters

Alternative parameters	Volume (In Situ) (cy)
Total waste volume	1,467,000
Waste Disposal at NNSS	272,000
Waste Disposal at ES	845,000
Waste Disposal at Pike Sanitation Landfill	240,000
Recycle and/or reuse	110,000

ES = Energy*Solutions*
NNSS = Nevada National Security Site

1. Regulatory Documents

Scope. Preparation of the Remedial Design Report, Remedial Action Work Plan, and Remedial Action Report in accordance with DFF&O requirements.

Estimate Assumptions

- The level of effort is based on experience at other DOE facilities.

2. Remedial Design Documents

Scope. Preparation of design drawings and specifications for infrastructure modifications, specifications for off-Site waste shipments and RFPs; bid and award of subcontracts; and procurement support.

Estimate Assumptions

- Six RFPs would be prepared and six contracts would be awarded.

- The estimate for drawings, specifications and procurement packages for infrastructure modifications is estimated at 7 percent of the infrastructure construction costs.

3. Infrastructure Construction

Scope. Upgrade of existing roads and railroad system and construction of loading and transfer stations.

Estimate Assumptions

- The level of effort required and cost are based on estimator's judgment based on preliminary drawings.

4. Recyclables (Nickel) Staging Construction and Operations

Scope. Construction, transport to, and operations of a staging facility to store 6,400 metric tons of nickel recovered from X-330 and X-333 converters. Reference Section 8.3.2.1.10 *Recycling and/or reuse* of the waste disposition RI/FS Report.

Estimate Assumptions

- All assumptions are the same as the on-Site alternative, including passive storage for only 4 years before recovery and decontamination begins.

5. Off-Site Shipment and Disposal

Scope. Transportation of all alternative waste to an appropriate off-Site facility for disposal.

Estimate Assumptions

- Waste volumes to be shipped to each disposal facility are shown in Table L.3.

- Estimates were prepared using unit rate assemblies that combine labor, equipment, and materials (such as waste packages). The assemblies were developed based on process knowledge from previous projects.

- Gondola rail transport to Energy*Solutions* is assumed to require 3 months for loading, shipping, disposal, and return.

- Gondolas are weight limited.

- Disposal fees were obtained from Energy*Solutions* and Pike Sanitation Landfill. The NNSS disposal facility is directly funded by DOE-National Nuclear Safety Administration. Therefore, no chargeback or fee is applicable. To legitimately compare disposal alternatives, the FY 11 for disposal at NNSS was used as the disposal fee.

REFERENCE

OMB 2011, *OMB Circular No. A-94, Appendix C, Discount Rates for Cost-Effectiveness, Lease Purchase, and Related Analyses*, Office of Management and Budget, Washington D.C., December.

ATTACHMENT L.1: ALTERNATIVE 2 ESTIMATE

Table L.1.1. Alternative 2
Estimate Cost Summary

Summary Description	Costs
	Unescalated-FY 2013 $
Capital Costs	
Indirect Cost for OSDC	
Regulatory Documents	$414,086
Remedial Design	
Remedial Design Documents	$34,649,513
Pre Design/Construction Activities	$9,149,384
Total OSDC Indirect Cost	**$44,212,984**
Direct Cost for OSDC	
Cell Construction	$273,285,480
Infrastructure Construction	$53,659,075
Interim Leachate Treatment System Construction	$4,756,562
Cell Operations	$158,440,000
Waste Transport to Cell	$30,442,747
Off Site Shipment and Disposal	$154,370,787
Interim Leachate Treatment System Operation During Cell Construction/Operations	$8,490,574
Cell Maintenance During Construction	$1,922,666
Permanent Leachate Treatment Facility Construction	$741,120
Land Use Controls	$176,232
Total OSDC Direct Cost	**$686,285,243**
Direct/Indirect Costs for Other	
Recyclables (Nickel) Staging Construction and Operations	$14,527,577
Fill Soil from Landfills and Plumes	$273,988,206
Total Other Direct/Indirect Cost	**$288,515,784**
Total Capital Cost	**$1,019,014,011**
Surveillance and Maintenance (S & M)	
S & M and Monitoring-Year 1 thru 30-Annual Cost	$665,496
S & M and Monitoring-Year 31 and Out-Annual Cost	$131,915
Net Present Value (FY 2010 Dollars)	
Present Value for Capital	$868,331,389
Present Value for S & M (1,000 years)	$14,021,748
Present Value Total	**$882,353,136**

Table L.1.2. Alternative 2
Escalation and Present Value

ALT 2-ON SITE DISPOSAL RI/FS DFFO/CERCLA CASE PROJ. ESTIMATOR: C. Oldham

PROJECT LOCATION: PORTSMOUTH, OHIO DATE: January 30, 2013

	FY		Capital Costs			S & M Costs		Present Value (NPV)		
		Escalation Rate	Unescalated	Escalated		L. T. Monitor		Discount Rate	Capital	S & M
						Unescalated		2%		
						For 30 years				
	TOTALS		1,019,014,010			20,478,882		NPV 1000 YEARS	868,331,389	14,021,748
								FY 2010 Dollars		
	2011	1.000	207,043			0				
	2012	1.000	207,043			0				
	2013	1.000	60,023,044			0				
	2014	1.024	$118,483,225			0				
	2015	1.049	103,933,422			0				
	2016	1.074	93,202,981			0				
	2017	1.100	100,311,251			0				
	2018	1.126	89,665,614			0				
	2019	1.153	86,592,953			0				
	2020	1.181	82,745,289			0				
	2021	1.209	70,695,683			0				
	2022	1.238	67,761,505			0				
	2023	1.268	60,027,097			0				
	2024	1.298	57,484,846			0				
	2025	1.329	27,673,015			0				
	2026					665,496				
	2027					665,496				
	2028					665,496				
	2029					665,496				
	2030					707,456				
	2031					665,496				
	2032					665,496				
	2033					665,496				
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	2035					707,456				
	2036					665,496				
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	2052					665,496				
	2053					665,496				
	2054					665,496				
	2055					969,706				
	2056					131,915				
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	2075					131,915				
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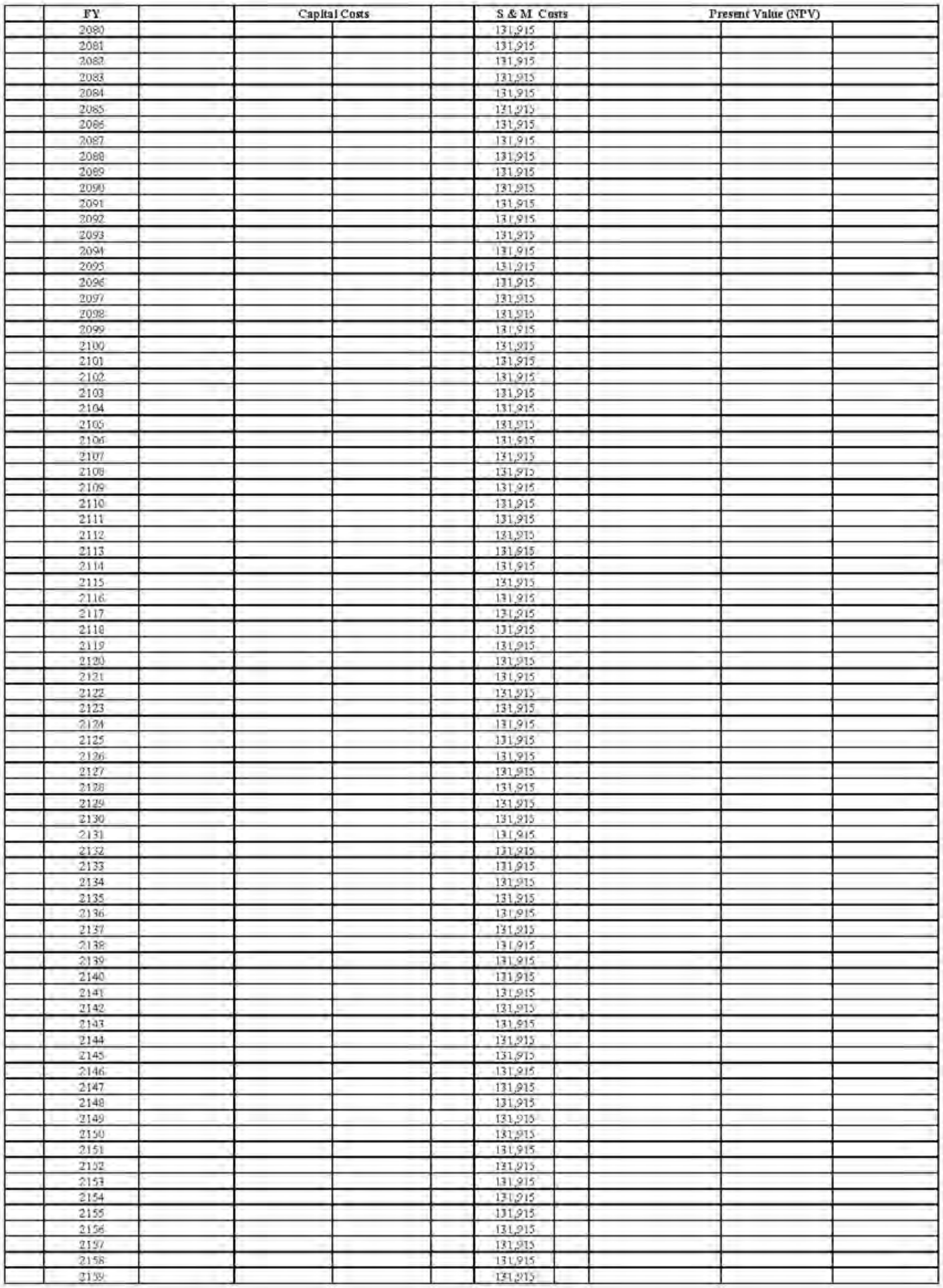
	2079					131,915				

Table L.1.2. Alternative 2
Escalation and Present Value (continued)



	FY		Capital Costs			S & M Costs		Present Value (NPV)		
	2080					131,915				
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	2082					131,915				
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	2084					131,915				
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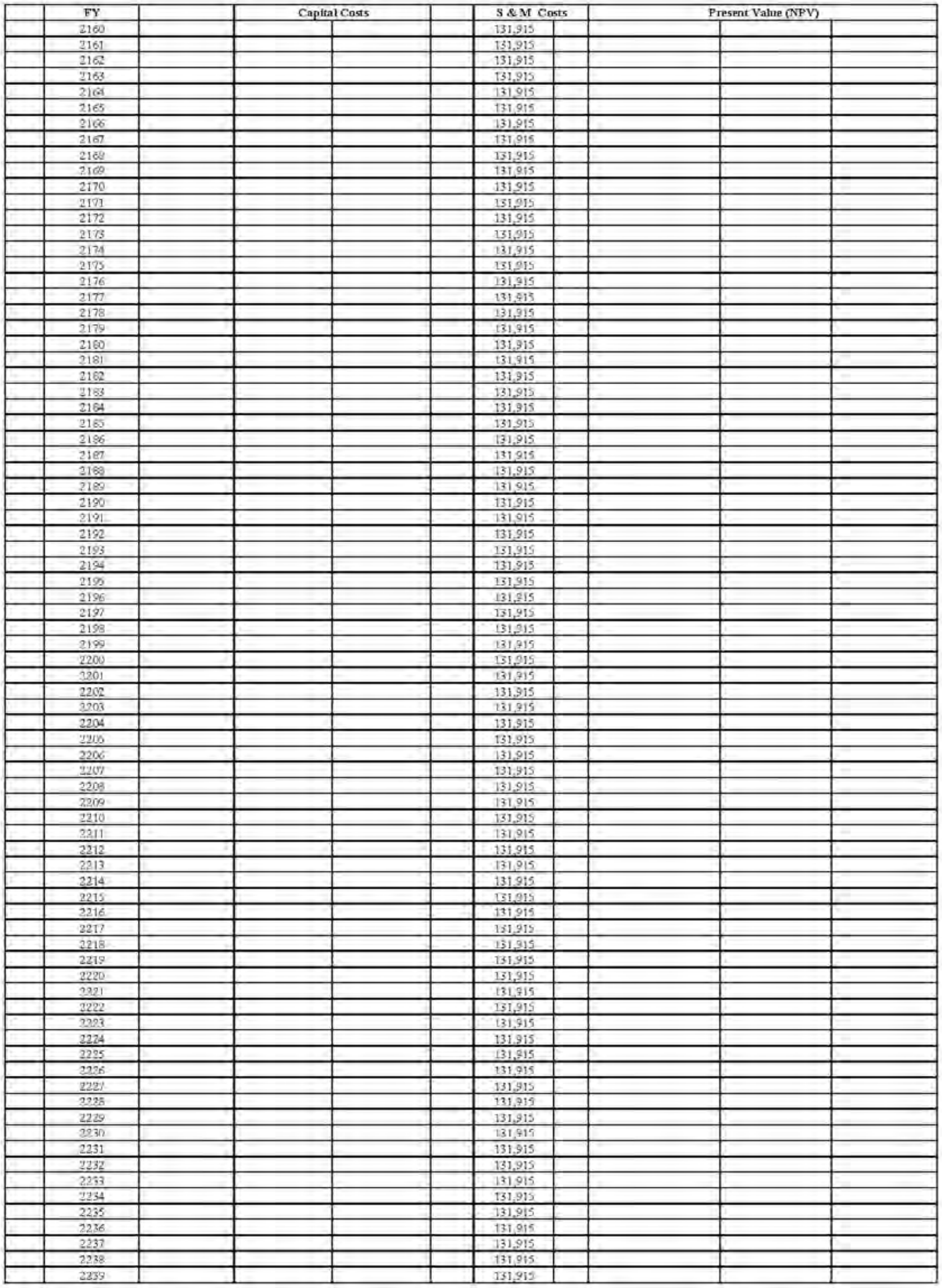
	2159					131,915				

Table L.1.2. Alternative 2
Escalation and Present Value (continued)



	FY		Capital Costs			S & M Costs		Present Value (NPV)		
	2160					131,915				
	2161					131,915				
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	2163					131,915				
	2164					131,915				
	2165					131,915				
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	2168					131,915				
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	2170					131,915				
	2171					131,915				
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	2173					131,915				
	2174					131,915				
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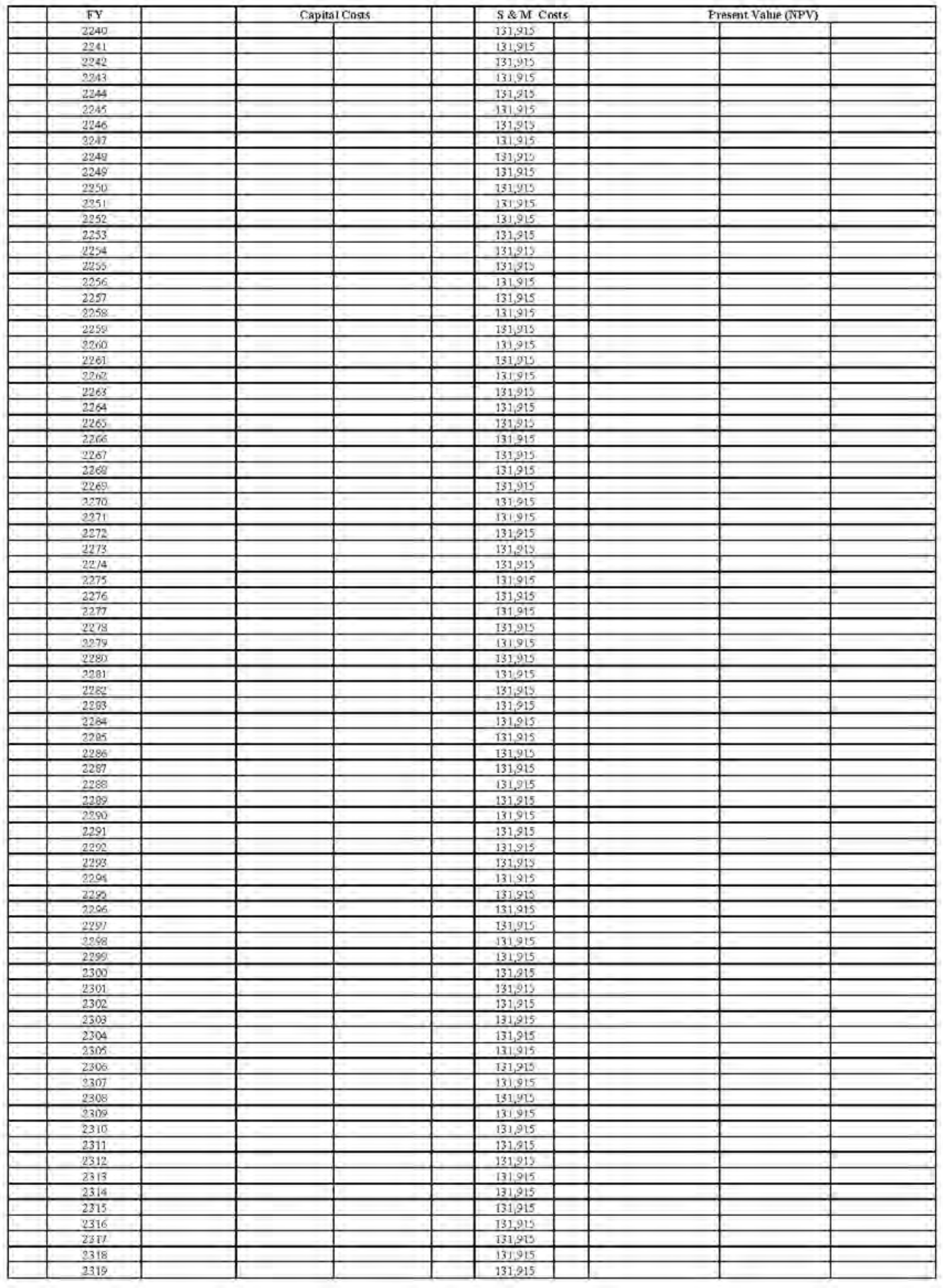
Table L.1.2. Alternative 2
Escalation and Present Value (continued)



	FY		Capital Costs			S & M Costs		Present Value (NPV)		
	2240					131,915				
	2241					131,915				
	2242					131,915				
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	2244					131,915				
	2245					131,915				
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	2247					131,915				
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	2249					131,915				
	2250					131,915				
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Table L.1.2. Alternative 2
Escalation and Present Value (continued)

	FY		Capital Costs			S & M Costs		Present Value (NPV)		
	2320					131,915				
	2321					131,915				
	2322					131,915				
	2323					131,915				
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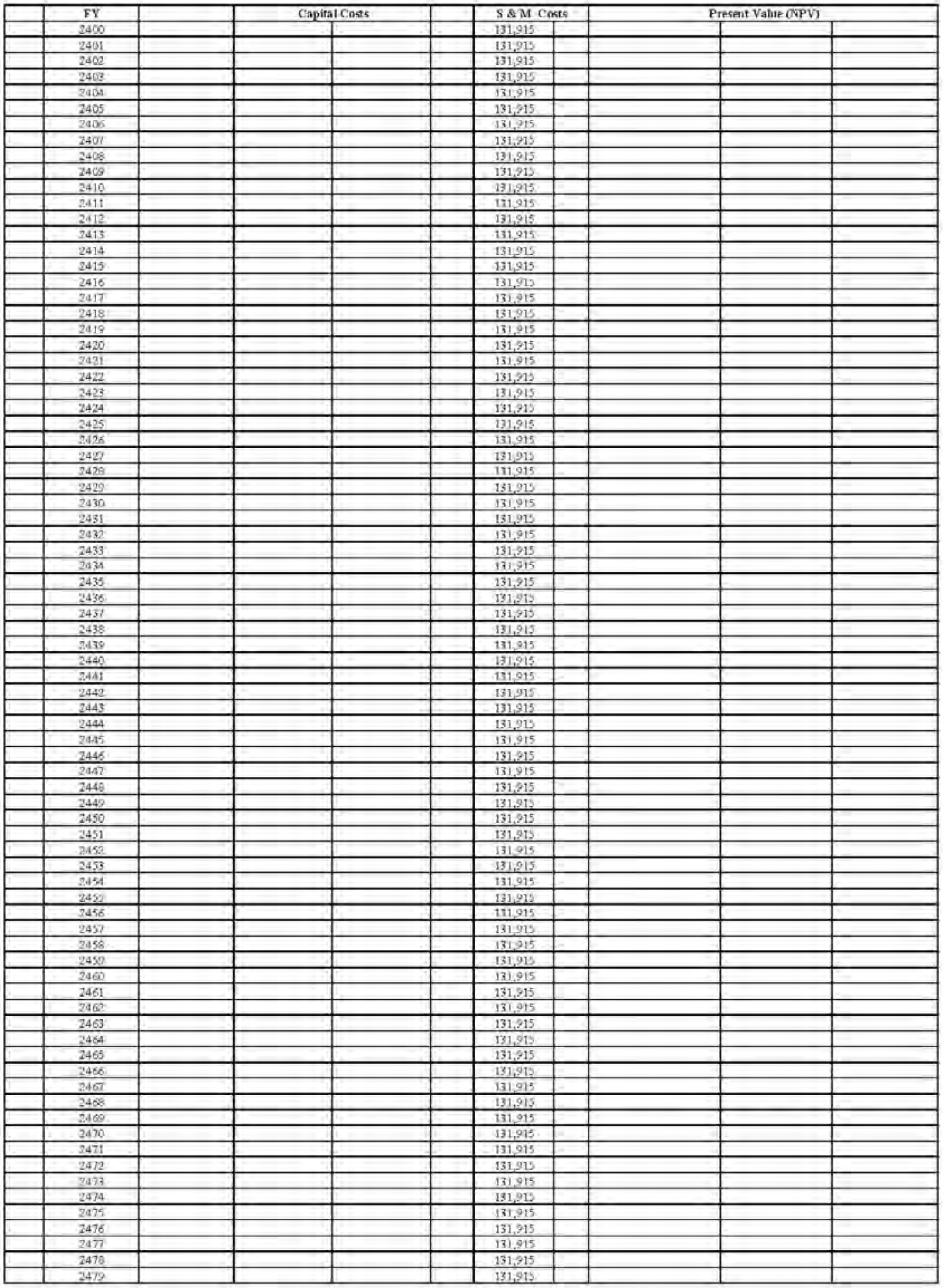
Table L.1.2. Alternative 2
Escalation and Present Value (continued)



	FY		Capital Costs			S & M Costs		Present Value (NPV)		
	2400					131,915				
	2401					131,915				
	2402					131,915				
	2403					131,915				
	2404					131,915				
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	2425					131,915				
	2426					131,915				
	2427					131,915				
	2428					131,915				
	2429					131,915				
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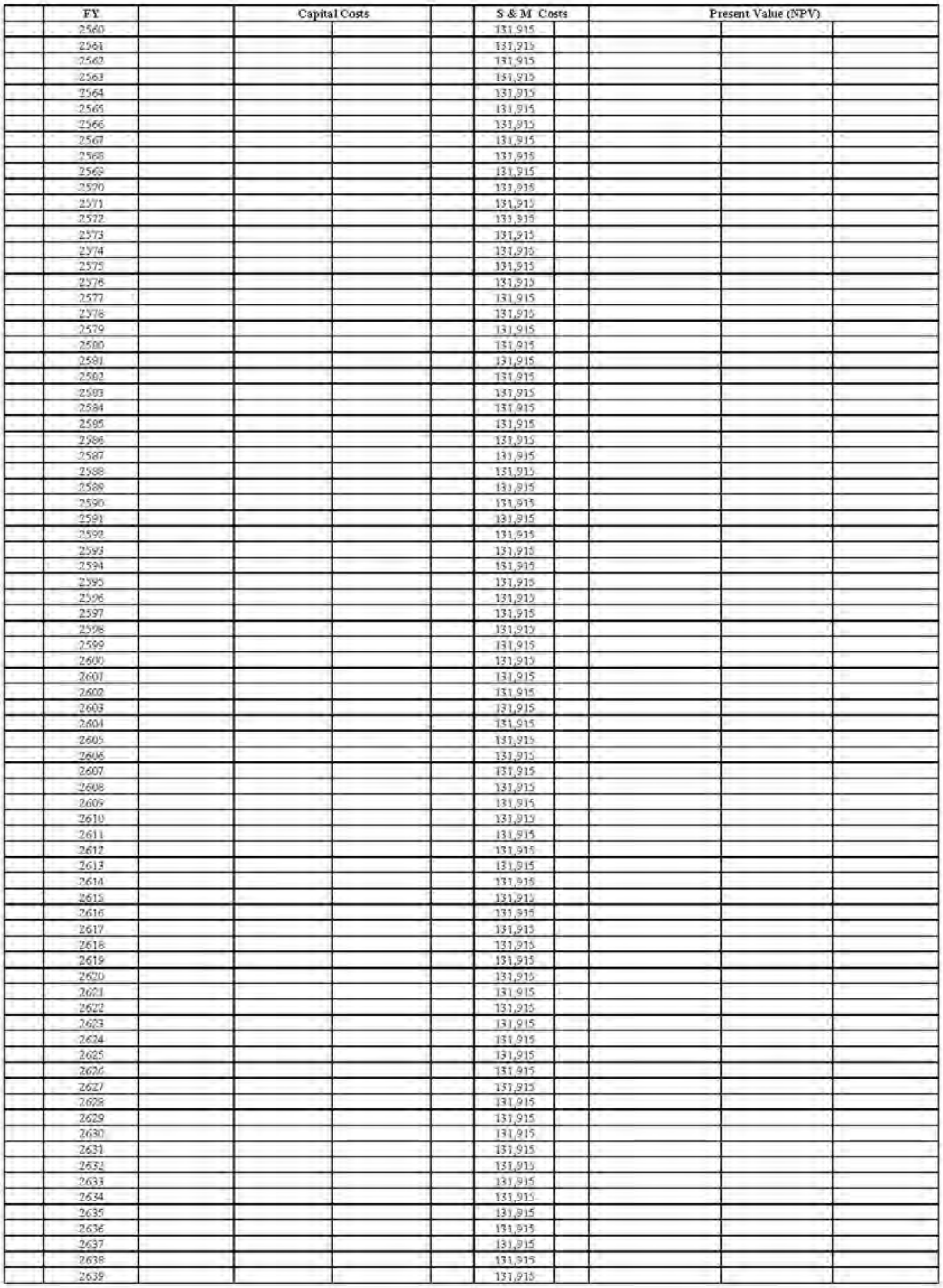
	2465					131,915				
	2466					131,915				
	2467					131,915				
	2468					131,915				
	2469					131,915				
	2470					131,915				
	2471					131,915				
	2472					131,915				
	2473					131,915				
	2474					131,915				
	2475					131,915				
	2476					131,915				
	2477					131,915				
	2478					131,915				
	2479					131,915				

Table L.1.2. Alternative 2 Escalation and Present Value (continued)

FY	Capital Costs	S & M Costs	Present Value (NPV)
2480		131,915	
2481		131,915	
2482		131,915	
2483		131,915	
2484		131,915	
2485		131,915	
2486		131,915	
2487		131,915	
2488		131,915	
2489		131,915	
2490		131,915	
2491		131,915	
2492		131,915	
2493		131,915	
2494		131,915	
2495		131,915	
2496		131,915	
2497		131,915	
2498		131,915	
2499		131,915	
2500		131,915	
2501		131,915	
2502		131,915	
2503		131,915	
2504		131,915	
2505		131,915	
2506		131,915	
2507		131,915	
2508		131,915	
2509		131,915	
2510		131,915	
2511		131,915	
2512		131,915	
2513		131,915	
2514		131,915	
2515		131,915	
2516		131,915	
2517		131,915	
2518		131,915	
2519		131,915	
2520		131,915	
2521		131,915	
2522		131,915	
2523		131,915	
2524		131,915	
2525		131,915	
2526		131,915	
2527		131,915	
2528		131,915	
2529		131,915	
2530		131,915	
2531		131,915	
2532		131,915	
2533		131,915	
2534		131,915	
2535		131,915	
2536		131,915	
2537		131,915	
2538		131,915	
2539		131,915	
2540		131,915	
2541		131,915	
2542		131,915	
2543		131,915	
2544		131,915	
2545		131,915	
2546		131,915	
2547		131,915	
2548		131,915	
2549		131,915	
2550		131,915	
2551		131,915	
2552		131,915	
2553		131,915	
2554		131,915	
2555		131,915	
2556		131,915	
2557		131,915	
2558		131,915	
2559		131,915	

Table L.1.2. Alternative 2
Escalation and Present Value (continued)



	FY		Capital Costs			S & M Costs		Present Value (NPV)		
	2560					131,915				
	2561					131,915				
	2562					131,915				
	2563					131,915				
	2564					131,915				
	2565					131,915				
	2566					131,915				
	2567					131,915				
	2568					131,915				
	2569					131,915				
	2570					131,915				
	2571					131,915				
	2572					131,915				
	2573					131,915				
	2574					131,915				
	2575					131,915				
	2576					131,915				
	2577					131,915				
	2578					131,915				
	2579					131,915				
	2580					131,915				
	2581					131,915				
	2582					131,915				
	2583					131,915				
	2584					131,915				
	2585					131,915				
	2586					131,915				
	2587					131,915				
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	2589					131,915				
	2590					131,915				
	2591					131,915				
	2592					131,915				
	2593					131,915				
	2594					131,915				
	2595					131,915				
	2596					131,915				
	2597					131,915				
	2598					131,915				
	2599					131,915				
	2600					131,915				
	2601					131,915				
	2602					131,915				
	2603					131,915				
	2604					131,915				
	2605					131,915				
	2606					131,915				
	2607					131,915				
	2608					131,915				
	2609					131,915				
	2610					131,915				
	2611					131,915				
	2612					131,915				
	2613					131,915				
	2614					131,915				
	2615					131,915				
	2616					131,915				
	2617					131,915				
	2618					131,915				
	2619					131,915				
	2620					131,915				
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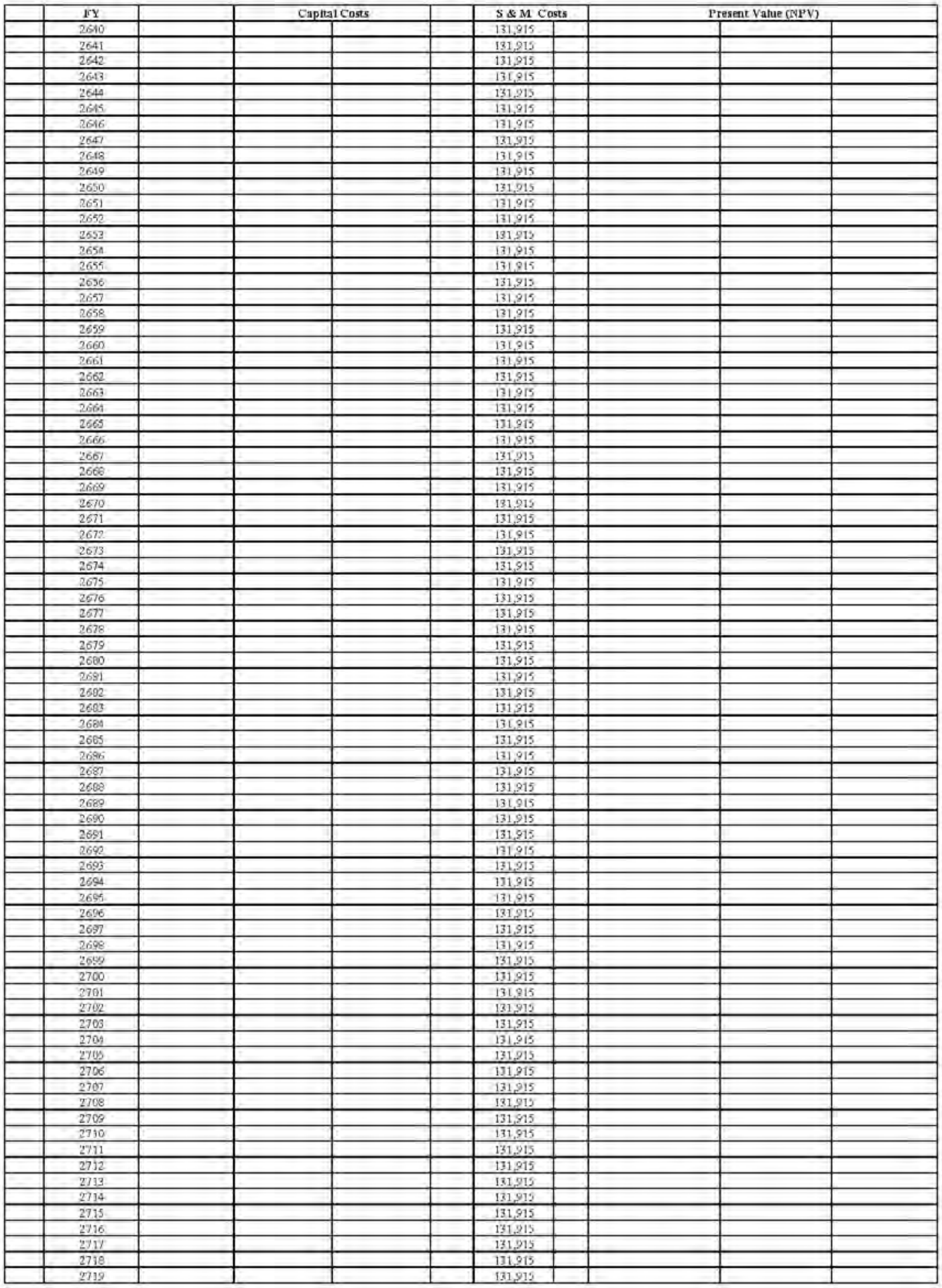
	2622					131,915				
	2623					131,915				
	2624					131,915				
	2625					131,915				
	2626					131,915				
	2627					131,915				
	2628					131,915				
	2629					131,915				
	2630					131,915				
	2631					131,915				
	2632					131,915				
	2633					131,915				
	2634					131,915				
	2635					131,915				
	2636					131,915				
	2637					131,915				
	2638					131,915				
	2639					131,915				

Table L.1.2. Alternative 2
Escalation and Present Value (continued)



	FY		Capital Costs			S & M Costs		Present Value (NPV)		
	2640					131,915				
	2641					131,915				
	2642					131,915				
	2643					131,915				
	2644					131,915				
	2645					131,915				
	2646					131,915				
	2647					131,915				
	2648					131,915				
	2649					131,915				
	2650					131,915				
	2651					131,915				
	2652					131,915				
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	2666					131,915				
	2667					131,915				
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	2671					131,915				
	2672					131,915				
	2673					131,915				
	2674					131,915				
	2675					131,915				
	2676					131,915				
	2677					131,915				
	2678					131,915				
	2679					131,915				
	2680					131,915				
	2681					131,915				
	2682					131,915				
	2683					131,915				
	2684					131,915				
	2685					131,915				
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	2689					131,915				
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	2694					131,915				
	2695					131,915				
	2696					131,915				
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	2699					131,915				
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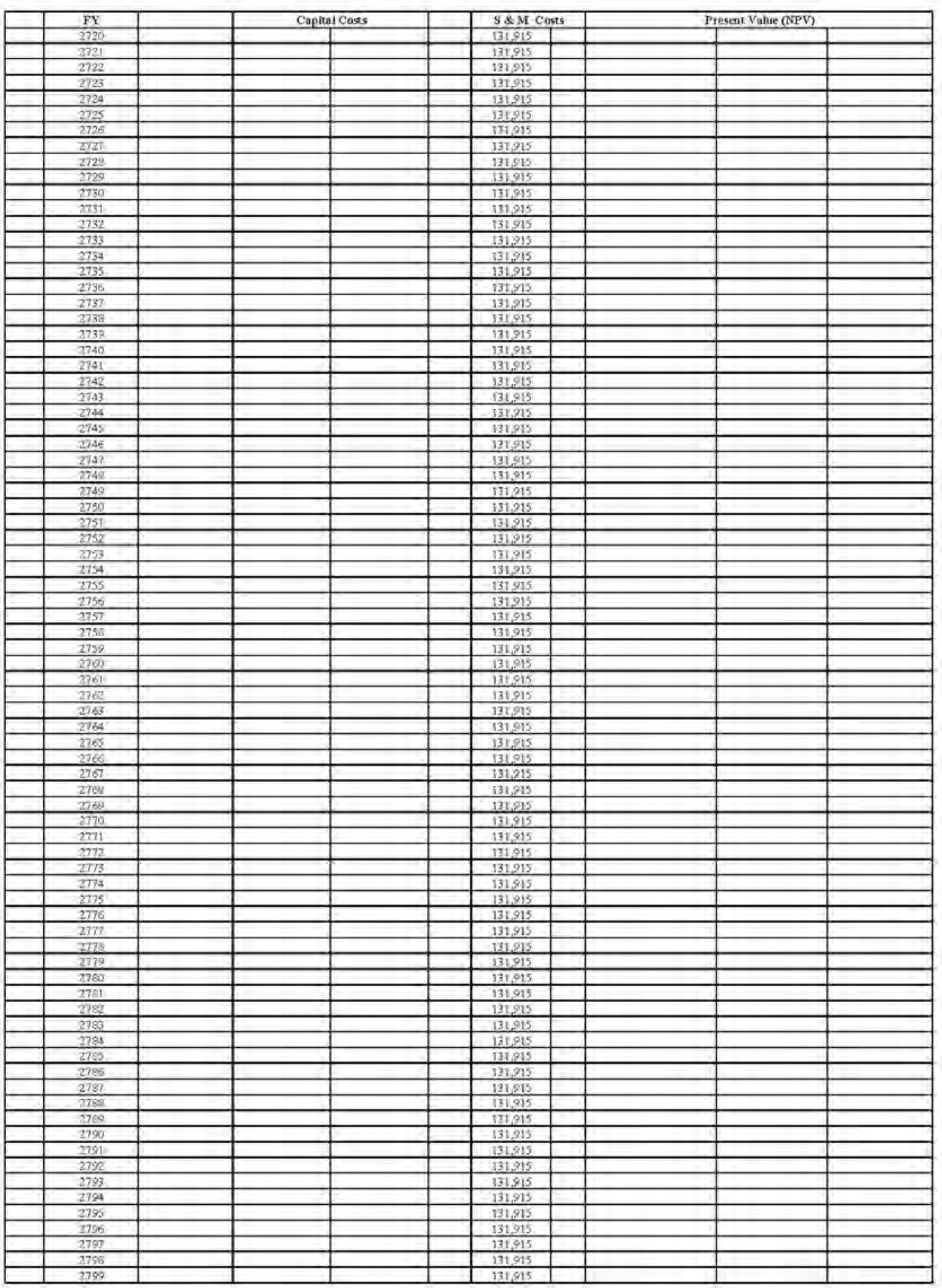
	2710					131,915				
	2711					131,915				
	2712					131,915				
	2713					131,915				
	2714					131,915				
	2715					131,915				
	2716					131,915				
	2717					131,915				
	2718					131,915				
	2719					131,915				

Table L.1.2. Alternative 2
Escalation and Present Value (continued)



	FY		Capital Costs			S & M Costs		Present Value (NPV)		
	2720					131,915				
	2721					131,915				
	2722					131,915				
	2723					131,915				
	2724					131,915				
	2725					131,915				
	2726					131,915				
	2727					131,915				
	2728					131,915				
	2729					131,915				
	2730					131,915				
	2731					131,915				
	2732					131,915				
	2733					131,915				
	2734					131,915				
	2735					131,915				
	2736					131,915				
	2737					131,915				
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	2740					131,915				
	2741					131,915				
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	2751					131,915				
	2752					131,915				
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	2754					131,915				
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	2761					131,915				
	2762					131,915				
	2763					131,915				
	2764					131,915				
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	2766					131,915				
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	2773					131,915				
	2774					131,915				
	2775					131,915				
	2776					131,915				
	2777					131,915				
	2778					131,915				
	2779					131,915				
	2780					131,915				
	2781					131,915				
	2782					131,915				
	2783					131,915				
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	2785					131,915				
	2786					131,915				
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	2792					131,915				
	2793					131,915				
	2794					131,915				
	2795					131,915				
	2796					131,915				
	2797					131,915				
	2798					131,915				
	2799					131,915				

Table L.1.2. Alternative 2
Escalation and Present Value (continued)

	FY		Capital Costs			S & M Costs		Present Value (NPV)		
	2800					131,915				
	2801					131,915				
	2802					131,915				
	2803					131,915				
	2804					131,915				
	2805					131,915				
	2806					131,915				
	2807					131,915				
	2808					131,915				
	2809					131,915				
	2810					131,915				
	2811					131,915				
	2812					131,915				
	2813					131,915				
	2814					131,915				
	2815					131,915				
	2816					131,915				
	2817					131,915				
	2818					131,915				
	2819					131,915				
	2820					131,915				
	2821					131,915				
	2822					131,915				
	2823					131,915				
	2824					131,915				
	2825					131,915				
	2826					131,915				
	2827					131,915				
	2828					131,915				
	2829					131,915				
	2830					131,915				
	2831					131,915				
	2832					131,915				
	2833					131,915				
	2834					131,915				
	2835					131,915				
	2836					131,915				
	2837					131,915				
	2838					131,915				
	2839					131,915				
	2840					131,915				
	2841					131,915				
	2842					131,915				
	2843					131,915				
	2844					131,915				
	2845					131,915				
	2846					131,915				
	2847					131,915				
	2848					131,915				
	2849					131,915				
	2850					131,915				
	2851					131,915				
	2852					131,915				
	2853					131,915				
	2854					131,915				
	2855					131,915				
	2856					131,915				
	2857					131,915				
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	2859					131,915				
	2860					131,915				
	2861					131,915				
	2862					131,915				
	2863					131,915				
	2864					131,915				
	2865					131,915				
	2866					131,915				
	2867					131,915				
	2868					131,915				
	2869					131,915				
	2870					131,915				
	2871					131,915				
	2872					131,915				
	2873					131,915				
	2874					131,915				
	2875					131,915				
	2876					131,915				
	2877					131,915				
	2878					131,915				
	2879					131,915				

Table L.1.2. Alternative 2
Escalation and Present Value (continued)

	FY		Capital Costs			S & M Costs		Present Value (NPV)		
	2880					131,915				
	2881					131,915				
	2882					131,915				
	2883					131,915				
	2884					131,915				
	2885					131,915				
	2886					131,915				
	2887					131,915				
	2888					131,915				
	2889					131,915				
	2890					131,915				
	2891					131,915				
	2892					131,915				
	2893					131,915				
	2894					131,915				
	2895					131,915				
	2896					131,915				
	2897					131,915				
	2898					131,915				
	2899					131,915				
	2900					131,915				
	2901					131,915				
	2902					131,915				
	2903					131,915				
	2904					131,915				
	2905					131,915				
	2906					131,915				
	2907					131,915				
	2908					131,915				
	2909					131,915				
	2910					131,915				
	2911					131,915				
	2912					131,915				
	2913					131,915				
	2914					131,915				
	2915					131,915				
	2916					131,915				
	2917					131,915				
	2918					131,915				
	2919					131,915				
	2920					131,915				
	2921					131,915				
	2922					131,915				
	2923					131,915				
	2924					131,915				
	2925					131,915				
	2926					131,915				
	2927					131,915				
	2928					131,915				
	2929					131,915				
	2930					131,915				
	2931					131,915				
	2932					131,915				
	2933					131,915				
	2934					131,915				
	2935					131,915				
	2936					131,915				
	2937					131,915				
	2938					131,915				
	2939					131,915				
	2940					131,915				
	2941					131,915				
	2942					131,915				
	2943					131,915				
	2944					131,915				
	2945					131,915				
	2946					131,915				
	2947					131,915				
	2948					131,915				
	2949					131,915				
	2950					131,915				
	2951					131,915				
	2952					131,915				
	2953					131,915				
	2954					131,915				
	2955					131,915				
	2956					131,915				
	2957					131,915				
	2958					131,915				
	2959					131,915				

Table L.1.2. Alternative 2
Escalation and Present Value (continued)

FY	Capital Costs	S & M Costs	Present Value (NPV)
2960		131,915	
2961		131,915	
2962		131,915	
2963		131,915	
2964		131,915	
2965		131,915	
2966		131,915	
2967		131,915	
2968		131,915	
2969		131,915	
2970		131,915	
2971		131,915	
2972		131,915	
2973		131,915	
2974		131,915	
2975		131,915	
2976		131,915	
2977		131,915	
2978		131,915	
2979		131,915	
2980		131,915	
2981		131,915	
2982		131,915	
2983		131,915	
2984		131,915	
2985		131,915	
2986		131,915	
2987		131,915	
2988		131,915	
2989		131,915	
2990		131,915	
2991		131,915	
2992		131,915	
2993		131,915	
2994		131,915	
2995		131,915	
2996		131,915	
2997		131,915	
2998		131,915	
2999		131,915	
3000		131,915	
3001		131,915	
3002		131,915	
3003		131,915	
3004		131,915	
3005		131,915	
3006		131,915	
3007		131,915	
3008		131,915	
3009		131,915	
3010		131,915	
3011		131,915	
3012		131,915	
3013		131,915	
3014		131,915	
3015		131,915	
3016		131,915	
3017		131,915	
3018		131,915	
3019		131,915	
3020		131,915	
3021		131,915	
3022		131,915	
3023		131,915	
3024		131,915	
3025		131,915	
	TOTAL:	148,436,332	

Table L.1.3. Alternative 2
Regulatory Documents

PROJ. ESTIMATOR: C. Oldham

TITLE: Regulatory Documents **PROJECT LOCATION: Portsmouth, Ohio** **DATE:** January 30, 2013

Item				**LABOR**					**MATERIAL**		**EQUIPMENT**		**SUBCONTRACT**		
No.	**DESCRIPTION**	**QTY**	**UNIT**	**UNIT MH**	**TOTAL MH**	**CRAFT**	**$/MH**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**TOTAL ($)**
	Regulatory Documents														
1	Remedial Design Report and Remedial Action Work Plan	2	ea	1,500	3,000	Eng	90.00	270,000	15,000	30,000		0		0	300,000
2	Remedial Action Report	1	ea	500	500	Eng	90.00	45,000	5,000	5,000		0		0	50,000
	Subtotal							**315,000**		**35,000**		**0**		**0**	**350,000**
	Sales Tax on Material only @ 7 %									2,450					2,450
	Subtotal							**315,000**		**37,450**		**0**		**0**	**352,450**
	Contractor Markups at 26.0% (N/A)														0
	Subtotal														**352,450**
	Indirects @ 12 %														42,294
														FY 2011 TOTAL	**394,744**

**** T O T A L– FY 2013**** **$ 414,086**

Table L.1.4. Alternative 2
Remedial Design

												PROJ. ESTIMATOR:		C. Oldham		
Title: Remedial Design Documents				PROJECT LOCATION:		Portsmouth, Ohio						DATE:		January 30, 2013		
Item No.	**DESCRIPTION**	**QTY**	**UNIT**	**LABOR**					**MATERIAL**		**EQUIPMENT**		**SUBCONTRACT**		**TOTAL ($)**
				UNIT MH	**TOTAL MH**	**CRAFT**	**$/MH**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	
	Design, Engineering, and Procurement														
1	Develop drawings, specs & procurement package for a 4.77 M. CY Cell and Cap Construction at 9 % of Construction cost	9	%		0			0		0		0		284,478,746	25,603,087
2	Develop drawings, specs & procurement package for Infrastructure Facilities and Leachate Treatment Facilities at 7 % of Construction costs	7	%		0			0		0		0		50,351,318	3,524,592
3	RFP & S/C Procurement support	4	Ea	600	2400	Eng	90.00	216,000	1,000	4,000		0		0	220,000
4	Bid and award S / C support	4	Ea	400	1600	Eng	90.00	144,000		0		0		0	144,000
	Subtotal							**360,000**		**4,000**		**0**			**29,491,679**
	Sales Tax on Material only @ 7 %									280					280
	Subtotal							**360,000**		**4,280**		**0**		**0**	**29,491,959**
	Contractor Markups at 26.0% (N/A)													0	0
	Subtotal													**0**	**29,491,959**
	Indirects @ 12 %														3,539,035
														FY 2011 TOTAL	**33,030,995**

**** T O T A L- FY 2013**** **$ 34,649,513**

Table L.1.5. Alternative 2
Pre-design

PROJ. ESTIMATOR: C. Oldham

Title: Pre Design/Construction Activities PROJECT LOCATION: Portsmouth, Ohio DATE: January 30, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	Pre Design /Construction/Activities														
1	Off Site Borrow Test Pits	1	Lot					4,337		177		12,419		6,770	23,703
2	Install GPS Station	1	Ea					246,097		4,680		66,310		3,908	320,995
3	Test Pits in Borrow Area	1	Lot					3,431		133		5,816		9,314	18,694
4	Decon Facility	1	Ea					620,890		1,594,352		659,749		58,620	2,933,611
5	Implementation of Large Equipment Placement	1	Lot					156,495		154,913		305,100		35,172	651,680
6	Three Off Site Borrow Area Locations	1	Lot					865,266		135,187		1,427,109		199,308	2,626,870
7	North OSDC Test Pit	1	Lot					95,969		78,034		223,875		11,448	409,326
8	South OSDC Test Pit	1	Lot					172,268		79,523		420,654		17,632	690,077
9	West OSDC Test Pit	1	Lot					12,205		1,753		89,729		8,862	112,549
	Subtotal							**2,176,958**		**2,048,752**		**3,210,761**		**351,034**	7,787,505
	Sales Tax on Material only @ 7 % (NA) (Included in above Estimates)									0					0
	Subtotal							**2,176,958**		**2,048,752**		**3,210,761**		**351,034**	7,787,505
	Contractor Markups at 26.0% (NA)														0
	Subtotal														7,787,505
	Indirects @ 12 %														934,501
														FY 2011 TOTAL	**8,722,006**

**** T O T A L- FY 2013**** **$ 9,149,384**

Table L.1.6. Alternative 2
Cell Construction

												PROJ. ESTIMATOR:		C. Oldham		
TITLE: Cell Construction					PROJECT LOCATION:			Portsmouth, Ohio				DATE:		January 30, 2013		
Item				LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT			
No.	DESCRIPTION	QTY	UNIT	UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	TOTAL ($)	
	Cell Construction															
1	Site Preparation	122	AC	24,702	24,702			1,059,078		3,680		1,013,965		0	2,076,723	
2	Rough Grading Cut	1,717,500	BCY	76,659	76,659			3,286,337		0		13,412,096		0	16,698,433	
3	Off Site Borrow Area	1	Lot	73,000	73,000			3,290,805		259,986		13,671,680		0	17,222,471	
4	On site Stockpile Area	100	AC	110,004	110,004			4,952,891		120,225		20,099,721		0	25,172,837	
	Liner Construction															
5	Cell Floor Liner	1	Lot	471,010	471,010			20,342,926		22,322,806		17,806,587		0	60,472,319	
6	Side Slope Liner	1	Lot	262,359	262,359			11,354,160		11,551,726		5,506,554		0	28,412,440	
7	Liner Top of Berm	1	Lot	106,537	106,537			4,600,523		3,599,692		6,783,500		0	14,983,715	
8	Liner Anchor Trench	1	Lot	83,692	83,692			3,592,890		2,330,837		2,575,733		0	8,499,460	

Table L.1.6. Alternative 2
Cell Construction (continued)

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	Cap Construction														
9	Final Cover	1	Lot	711,605	711,605			30,636,860		46,279,052		34,024,436		0	110,940,348
	Subtotal				**1,919,568**			**83,116,470**		**86,468,004**		**114,894,272**		**0**	**284,478,746**
	Sales Tax on Material only @ 7 % (NA)									0					0
	(Included in above Estimates)														
	Subtotal							**83,116,470**		**86,468,004**		**114,894,272**		**0**	**284,478,746**
	Contractor Markups at 26.0% (NA)														0
	Subtotal														**284,478,746**
	Indirects @ 12 %														34,137,450

**** TOTAL **** **$ 318,616,196**

The above Estimate is for Cell Construction for a Total Cell Volume of approx. 4,770,000 CY (including soil cover) and amounts to approx.$66.80./CY . The Total Cell Volume for the RI/FS-DFFO/CERCLA Case is Approx. 3,900,000 CY. Therefore the Cell Construction Estimated Cost for the RI/FS -DFFO/CERCLA Case is $66.80/CY X 3,900,000 = $260,520,000 FY2011 $

USE **$273,285,480 FY 2013 $**

Table L.1.7. Alternative 2
Infrastructure

PROJ. ESTIMATOR: C. Oldham

TITLE: Infrastructure Construction | **PROJECT LOCATION: Portsmouth, Ohio** | **DATE:** January 30, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	OMTA Area / Contact Water Detention Basin														
1	Construction Laydown	1	ea	1,563	1,563			66,762		628,457		787,820		0	1,483,039
2	Contact Water Detention Basin	1	ea	578	578			24,825		19,602		30,496		0	74,923
3	Waste Handling	1	ea	3,762	3,762			161,414		855,288		89,171		0	1,105,873
4	Perimeter Berm	10667	CY	6,133	6,133			263,210		1,503,347		912,300		0	2,678,857
	HAUL ROAD														
5	Gravel Haul Road	1	ea	11,906	11,906			511,039		4,554,053		1,143,196		0	6,208,288
6	Turn out and Load Ramp	1	ea	598	598			26,169		48,584		45,205		0	119,958
7	Haul Road Underpass	1	ea	1,520	1,520			66,889		238,367		28,048		0	333,304
8	Periphery Road / OSDC Access Road	1	ea	10,875	10,875			466,633		2,111,636		459,284		0	3,037,553
9	Contact Water Basin	1	ea	314	314			13,500		15,846		32,424		0	61,770
10	Contact Water Return	1	ea	653	653			30,634		527,849		9,525		0	568,008
	Sediment Basins														
11	Dewatering Device	1	ea	51	51			2,263		6,468		1,748		0	10,479
12	Temporary Sediment Device	1	ea	4,384	4,384			187,965		501,866		381,399		0	1,071,230

Table L.1.7. Alternative 2 Infrastructure (continued)

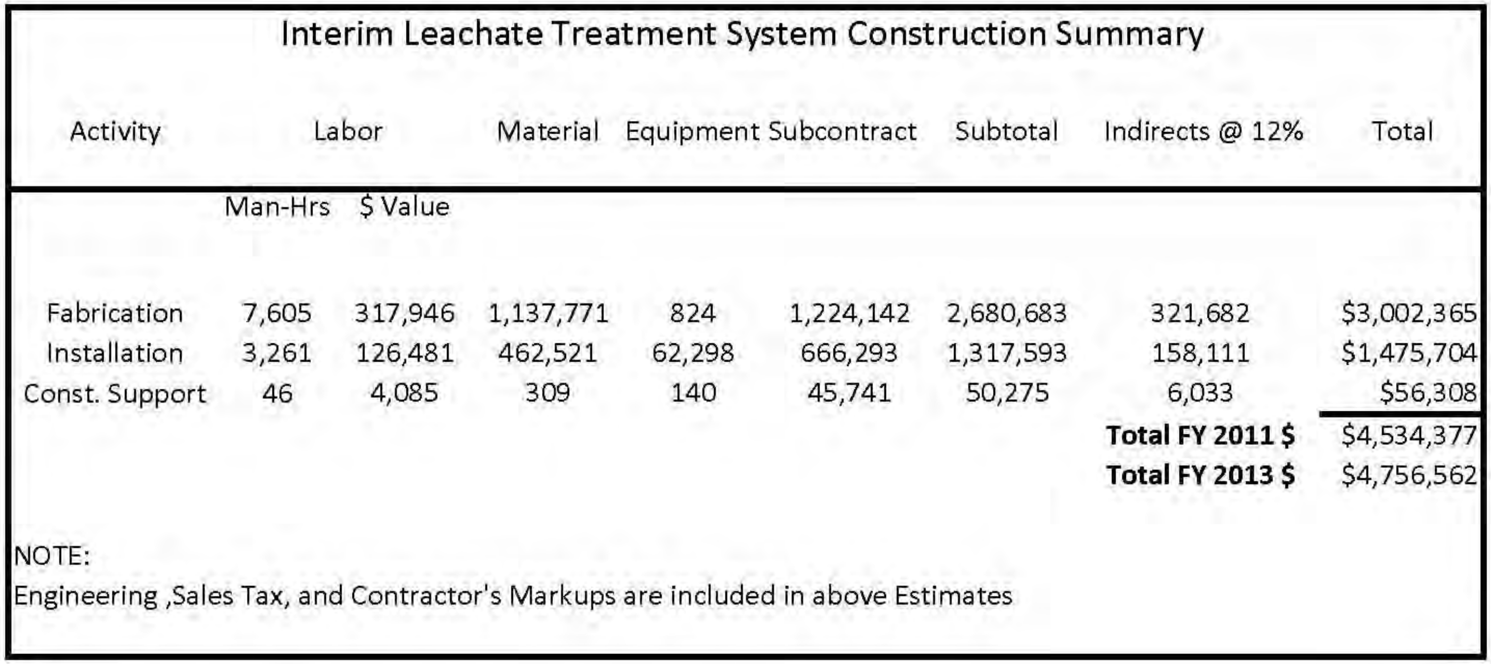
Item				LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		
No.	**DESCRIPTION**	**QTY**	**UNIT**	**UNIT MH**	**TOTAL MH**	**CRAFT**	**$/MH**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**TOTAL ($)**
	Construction Support Facilities														
13	Site Facilities Site Prep	2	AC	652	652			27,984		26,271		0		0	54,255
14	Staff Facility Parking Area	1	ea	193	193			8,370		126,490		2,511,576		0	2,646,436
15	Security Fencing	7	AC	5,151	5,151			220,855		692,202		79,994		0	993,051
16	Security Requirements	1	ea	12,874	12,874			594,036		925,310		0		0	1,519,346
17	Water and Sewer	1	ea	2,757	2,757			123,420		330,067		10,107		0	463,594
18	Raw Water	1	ea	2,567	2,567			114,636		99,200		97,391		0	311,227
19	Equipment Maintenance Area	1	ea	5,541	5,541			247,092		1,607,192		92,036		0	1,946,320
20	Temporary Power and Lighting	1	ea	16,468	16,468			779,420		1,468,820		0		0	2,248,240
21	Laydown Area	100	AC	39,318	39,318			1,686,768		3,737,275		1,129,789		0	6,553,832
	Leachate Transmission, Manholes & Lift Station														
22	Leachate Pipe Laterals	1	Lot	4,018	4,018			172,476		502,964		347,795		0	1,023,235
23	Leachate Pipe Headers	1	Lot	20,913	20,913			911,936		1,204,748		2,274,462		0	4,391,146
24	Valve House for Leachate	1	Lot	12,195	12,195			547,796		1,243,040		325,056		0	2,115,892
26	Leachate Storage Tank	1	ea	218	218			9,677		374,740		0		0	384,417
27	Horizontal Monitoring	1	ea	759	759			32,927		55,152		7,265		0	95,344

Table L.1.7. Alternative 2
Infrastructure (continued)

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	LABOR TOTAL MH	LABOR CRAFT	LABOR $/MH	LABOR $ VALUE	MATERIAL $/UNIT	MATERIAL $ VALUE	EQUIPMENT $/UNIT	EQUIPMENT $ VALUE	SUBCONTRACT $/UNIT	SUBCONTRACT $ VALUE	TOTAL ($)
28	Security Patrol Road	1	ea	5,225	5,225			181,116		485,830		365,870		0	1,032,816
29	Renovate Existing Rail System	1	Lot		0			0		0		0		1,467,183	1,467,183
	Subtotal				**171,186**			**7,479,812**		**23,890,664**		**11,161,957**		**1,467,183**	**43,999,616**
	Sales Tax on Material only @ 7 %									1,672,346					1,672,346
	Subtotal							**7,479,812**		**25,563,010**		**11,161,957**		**1,467,183**	**45,671,962**
	Contractor Markups at 26.0% (NA)														0
	Subtotal														**45,671,962**
	Indirects @ 12 %														5,480,635
														FY 2011 TOTAL	**51,152,598**

**** T O T A L- FY 2013** $ 53,659,075**

Table L.1.8. Alternative 2
Interim Leachate Treatment System Construction



Interim Leachate Treatment System Construction Summary

Activity	Labor		Material	Equipment	Subcontract	Subtotal	Indirects @ 12%	Total
	Man-Hrs	$ Value						
Fabrication	7,605	317,946	1,137,771	824	1,224,142	2,680,683	321,682	$3,002,365
Installation	3,261	126,481	462,521	62,298	666,293	1,317,593	158,111	$1,475,704
Const. Support	46	4,085	309	140	45,741	50,275	6,033	$56,308
							Total FY 2011 $	$4,534,377
							Total FY 2013 $	$4,756,562

NOTE:
Engineering ,Sales Tax, and Contractor's Markups are included in above Estimates

Table L.1.9. Alternative 2
On-Site Cell Operation

PROJ. ESTIMATOR: C. Oldham

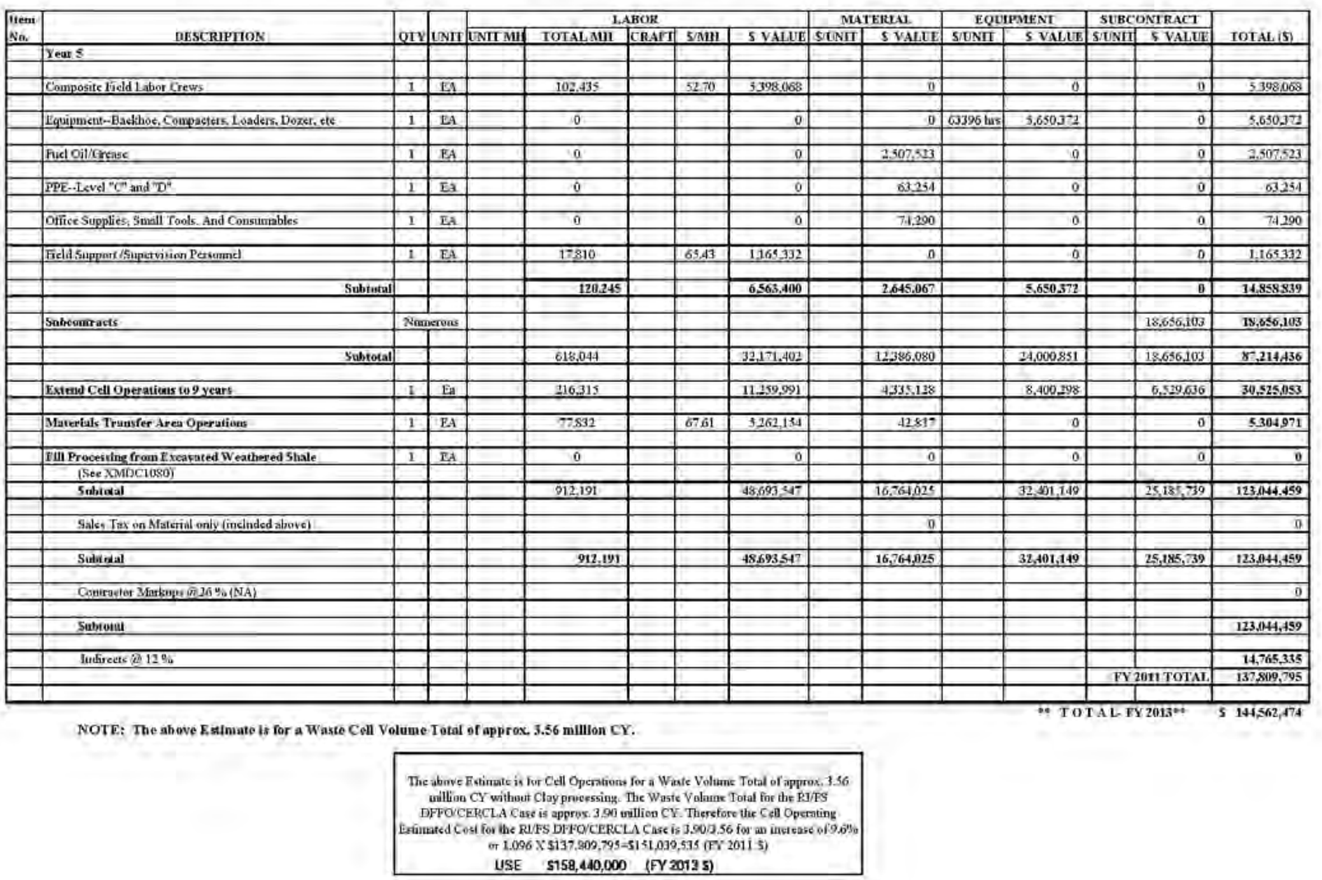
TITLE: CELL OPERATIONS PROJECT LOCATION: Portsmouth, Ohio DATE: January 30, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	LABOR TOTAL MH	LABOR CRAFT	LABOR $/MH	LABOR $ VALUE	MATERIAL $/UNIT	MATERIAL $ VALUE	EQUIPMENT $/UNIT	EQUIPMENT $ VALUE	SUBCONTRACT $/UNIT	SUBCONTRACT $ VALUE	TOTAL ($)
	CELL PLACEMENT														
	Year 1														
	Composite Field Labor Crews	1	EA		47,926		48.75	2,336,339		0		0		0	2,336,339
	Equipment--Backhoe, Compacters, Loaders, Dozer, etc	1	EA		0			0		0	23180 hrs	1,755,511		0	1,755,511
	Fuel Oil/Grease	1	EA		0			0		780,589		0		0	780,589
	PPE--Level "C" and "D"	1	EA		0			0		269,942		0		0	269,942
	Office Supplies, Small Tools. And Consumables	1	EA		0			0		37,714		0		0	37,714
	Field Support /Supervision Personnel	1	EA		24,295		49.24	1,196,246		0		0		0	1,196,246
	Subtotal				72,221			3,532,585		1,088,245		1,755,511		0	**6,376,341**
	Year 2														
	Composite Field Labor Crews	1	EA		110,796		49.25	5,456,383		0		0		0	5,456,383
	Equipment--Backhoe, Compacters. Loaders, Dozer, etc	1	EA		0			0		0	57824 hrs	4,588,664		0	4,588,664
	Fuel Oil/Grease	1	EA		0			0		2,051,330		0		0	2,051,330
	PPE--Level "C" and "D"	1	EA		0			0		422,535		0		0	422,535
	Office Supplies, Small Tools. And Consumables	1	EA		0			0		74,782		0		0	74,782
	Field Support /Supervision Personnel	1	EA		20,550		59.61	1,224,970		0		0		0	1,224,970
	Subtotal				131,346			6,681,353		2,548,647		4,588,664		0	**13,818,664**

Table L.1.9. Alternative 2
On-Site Cell Operation (continued)

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	Year 3														
	Composite Field Labor Crews	1	EA		129,449		50.36	6,519,227		0		0		0	6,519,227
	Equipment--Backhoe, Compacters, Loaders, Dozer, etc	1	EA		0			0		0	71768 hrs	5,955,972		0	5,955,972
	Fuel Oil/Grease	1	EA		0			0		2,663,712		0		0	2,663,712
	PPE--Level "C" and "D"	1	EA		0			0		337,510		0		0	337,510
	Office Supplies, Small Tools. And Consumables	1	EA		0			0		88,126		0		0	88,126
	Field Support /Supervision Personnel	1	EA		20,550		61.35	1,260,711		0		0		0	1,260,711
	Subtotal				149,999			7,779,938		3,089,348		5,955,972		0	**16,825,258**
	Year 4														
	Composite Field Labor Crews	1	EA		123,683		51.18	6,329,643		0		0		0	6,329,643
	Equipment--Backhoe, Compacters, Loaders, Dozer, etc	1	EA		0			0		0	71151 hrs	6,050,332		0	6,050,332
	Fuel Oil/Grease	1	EA		0			0		2,700,736		0		0	2,700,736
	PPE--Level "C" and "D"	1	EA		0			0		227,651		0		0	227,651
	Office Supplies, Small Tools. And Consumables	1	EA		0			0		86,386		0		0	86,386
	Field Support /Supervision Personnel	1	EA		20,550		62.51	1,284,483		0		0		0	1,284,483
	Subtotal				144,233			7,614,126		3,014,773		6,050,332		0	**16,679,231**

Table L.1.9. Alternative 2
On-Site Cell Operation (continued)



Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	Year 5														
	Composite Field Labor Crews	1	EA		102,435		52.70	5,398,068		0		0		0	5,398,068
	Equipment--Backhoe, Compacters, Loaders, Dozer, etc	1	EA		0			0		0	63396 hrs	5,650,372		0	5,650,372
	Fuel Oil/Grease	1	EA		0			0		2,507,523		0		0	2,507,523
	PPE--Level "C" and "D"	1	EA		0			0		63,254		0		0	63,254
	Office Supplies, Small Tools, And Consumables	1	EA		0			0		74,290		0		0	74,290
	Field Support /Supervision Personnel	1	EA		17,810		65.43	1,165,332		0		0		0	1,165,332
	Subtotal				**120,245**			**6,563,400**		**2,645,067**		**5,650,372**		**0**	**14,858,839**
	Subcontracts	Numerous												18,656,103	**18,656,103**
	Subtotal				618,044			32,171,402		12,386,080		24,000,851		18,656,103	**87,214,436**
	Extend Cell Operations to 9 years	1	Ea		216,315			11,259,991		4,335,128		8,400,298		6,529,636	**30,525,053**
	Materials Transfer Area Operations	1	EA		77,832		67.61	5,262,154		42,817		0		0	**5,304,971**
	Fill Processing from Excavated Weathered Shale	1	EA		0			0		0		0		0	**0**
	(See XMDC1080)														
	Subtotal				912,191			48,693,547		16,764,025		32,401,149		25,185,739	**123,044,459**
	Sales Tax on Material only (included above)									0					0
	Subtotal				**912,191**			**48,693,547**		**16,764,025**		**32,401,149**		**25,185,739**	**123,044,459**
	Contractor Markups @ 26 % (NA)														0
	Subtotal														**123,044,459**
	Indirects @ 12 %														**14,765,335**
														FY 2011 TOTAL	137,809,795

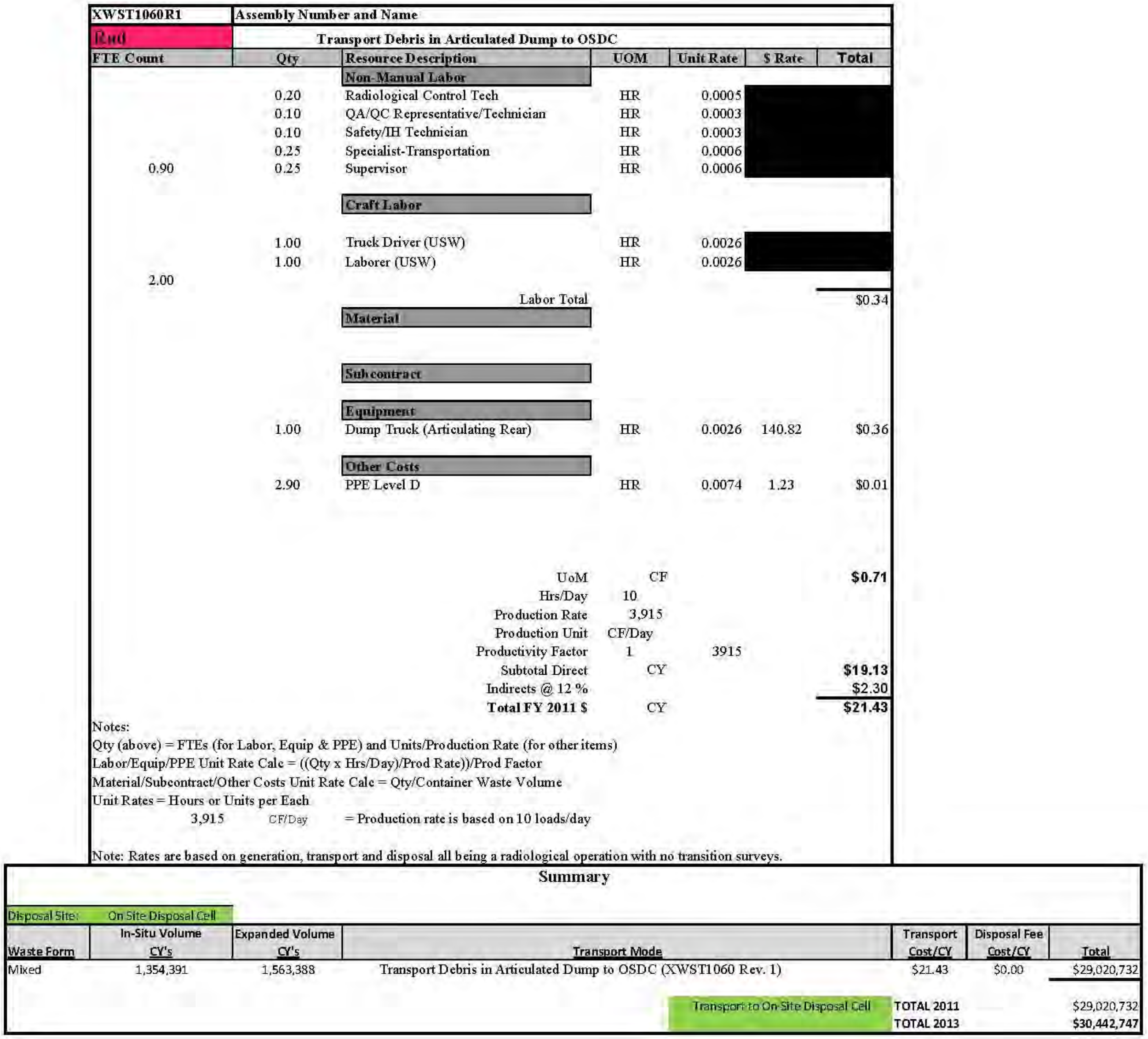
** T O T A L- FY 2013** $ 144,562,474

NOTE: The above Estimate is for a Waste Cell Volume Total of approx. 3.56 million CY.

The above Estimate is for Cell Operations for a Waste Volume Total of approx. 3.56 million CY without Clay processing. The Waste Volume Total for the RI/FS DFFO/CERCLA Case is approx. 3.90 million CY. Therefore the Cell Operating Estimated Cost for the RI/FS DFFO/CERCLA Case is 3.90/3.56 for an increase of 9.6% or 1.096 X $137,809,795=$151,039,535 (FY 2011 $)

USE $158,440,000 (FY 2013 $)

Table L.1.10. Alternative 2
Waste Transport to Cell



XWST1060R1	Assembly Number and Name					
Rad	Transport Debris in Articulated Dump to OSDC					
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	0.20	Radiological Control Tech	HR	0.0005	[redacted]	[redacted]
	0.10	QA/QC Representative/Technician	HR	0.0003	[redacted]	[redacted]
	0.10	Safety/IH Technician	HR	0.0003	[redacted]	[redacted]
	0.25	Specialist-Transportation	HR	0.0006	[redacted]	[redacted]
0.90	0.25	Supervisor	HR	0.0006	[redacted]	[redacted]
		Craft Labor				
	1.00	Truck Driver (USW)	HR	0.0026	[redacted]	[redacted]
	1.00	Laborer (USW)	HR	0.0026	[redacted]	[redacted]
2.00						
		Labor Total				$0.34
		Material				
		Subcontract				
		Equipment				
	1.00	Dump Truck (Articulating Rear)	HR	0.0026	140.82	$0.36
		Other Costs				
	2.90	PPE Level D	HR	0.0074	1.23	$0.01
		UoM	CF			**$0.71**
		Hrs/Day	10			
		Production Rate	3,915			
		Production Unit	CF/Day			
		Productivity Factor	1	3915		
		Subtotal Direct	CY			**$19.13**
		Indirects @ 12 %				$2.30
		Total FY 2011 $	CY			**$21.43**

Notes:
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
3,915 CF/Day = Production rate is based on 10 loads/day

Note: Rates are based on generation, transport and disposal all being a radiological operation with no transition surveys.

Summary

Disposal Site: On Site Disposal Cell

Waste Form	In-Situ Volume CY's	Expanded Volume CY's	Transport Mode	Transport Cost/CY	Disposal Fee Cost/CY	Total
Mixed	1,354,391	1,563,388	Transport Debris in Articulated Dump to OSDC (XWST1060 Rev. 1)	$21.43	$0.00	$29,020,732
			Transport to On-Site Disposal Cell	**TOTAL 2011**		$29,020,732
				TOTAL 2013		**$30,442,747**

Table L.1.11. Alternative 2
Off-Site Shipment Summary

Disposal Site: Pike County

Waste Form	In-Situ Volume CY's	Shipped Volume CY's	Transport Mode	Transport Cost/CY	Disposal Fee Cost/CY	Total
Debris - Industrial and Industrial ACM	38,781	50,362	Solid Waste - Truck (XWST1000)	$24.33	$81.00	$5,304,589
Subtotal	38,781	50,362				$5,304,589
			Pike County	**Subtotal FY 2011**		**$5,304,589**

Disposal Site: ES, Clive, UT

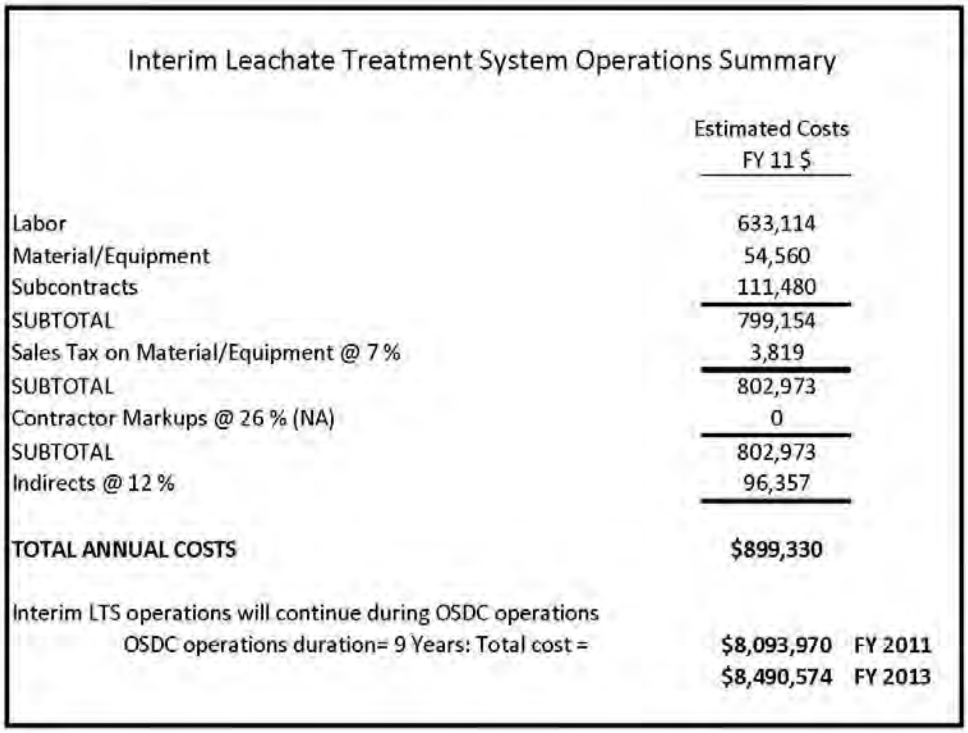
Waste Form	In-Situ Volume CY's	Shipped Volume CY's	Transport Mode	Transport Cost/CY	Disposal Fee Cost/CY	Total
MLLW (and other Hazardous Wastes)	9,168	9,373	Intermodals - Rail (XWST1150A)	$481.85	$1,248.75	$16,220,920
Soil (MLLW - Landfill and RCRA)	0	0	Intermodals - Rail (XWST1150A)	$481.85	$1,248.75	$0
Soil (LLW - Adhered and Utility)	0	0	Gondolas - Rail (XWST1240)	$560.03	$228.96	$0
Debris	21,028	27,330	Gondolas - Rail (XWST1040A)	$467.57	$570.78	$28,378,223
Subtotal	30,196	36,703				$44,599,143
			ES, Clive, UT	**Subtotal FY 2011**		**$44,599,143**

Disposal Site: NNSS, Mercury, NV

Waste Form	In-Situ Volume CY'S	Shipped Volume CY'S	Transport Mode	Transport Cost/CY	Disposal Fee Cost/CY	Total
PGE - Size Reduced Compressors and Converters (X-330 and X-333)	15,629	3,474	Intermodals - PGE Debris - Truck (XWST1200A)	$523.11	$419.31	$9,632,334
PGE - Piping Etc	10,457	13,213	Transport IP-1 B-25 Box (Fissile) - Truck (XWST1290)	$2,611.55	$419.31	$40,046,767
PGE - Converters (X-326)	18,024	18,024	Classified Converters - Truck (XWST1140A)	$1,037.09	$419.31	$26,249,769
PGE - Compressors (X-326)	1,217	1,217	Classified Excepted Compressors - Truck (XWST1130A)	$1,033.03	$419.31	$1,768,033
PGE - Compressors (X-326)	8,031	8,031	Fissile Classified Compressors - Truck (XWST1050A)	$2,016.03	$419.31	$19,559,314
Landfills - Classified LLW (Soils and Debris)	0	0	Intermodals - Truck (XWST1200A)	$523.11	$419.31	$0
Subtotal	53,359	43,960				$97,256,217
			NNSS, Mercury, NV	**Subtotal FY 2011**		**$97,256,217**

	In-Situ(CY)	Shipped(CY)				
Total Volumes	122,336	131,025				
			Portsmouth Off-Site Waste Disposal Cost	**TOTAL FY 2011**		**$147,159,949**
				TOTAL FY 2013		**$154,370,787**

Table L.1.12. Alternative 2
Interim Leachate Treatment System Operation



Interim Leachate Treatment System Operations Summary

	Estimated Costs FY 11 $	
Labor	633,114	
Material/Equipment	54,560	
Subcontracts	111,480	
SUBTOTAL	799,154	
Sales Tax on Material/Equipment @ 7 %	3,819	
SUBTOTAL	802,973	
Contractor Markups @ 26 % (NA)	0	
SUBTOTAL	802,973	
Indirects @ 12 %	96,357	
TOTAL ANNUAL COSTS	**$899,330**	
Interim LTS operations will continue during OSDC operations		
OSDC operations duration= 9 Years: Total cost =	**$8,093,970**	**FY 2011**
	$8,490,574	**FY 2013**

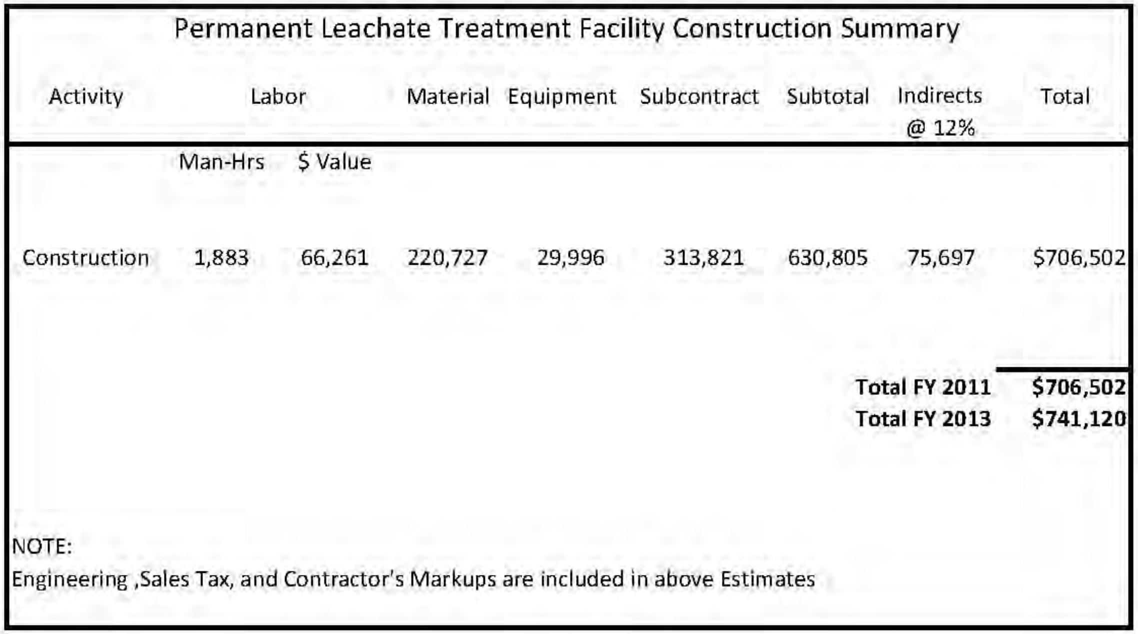
Table L.1.13. Alternative 2
Cell Maintenance

Cell Maintenance During Construction Summary

Year	Labor	Mat/Equip	Subtotal	Sales Tax @ 7%	Subtotal	Contractor Markups @ 26% (NA)	Subtotal	Indirects @ 12%	**Total Costs FY11 $**	
2017	23,791	57,193	80,984	5,669	86,653	0	86,653	10,398	**$97,051**	
2018	47,478	67,489	114,967	8,048	123,015	0	123,015	14,762	**$137,776**	
2019	71,165	124,681	195,846	13,709	209,555	0	209,555	25,147	**$234,702**	
2020	94,852	158,425	253,277	17,729	271,006	0	271,006	32,521	**$303,527**	
2021	118,643	192,170	310,813	21,757	332,570	0	332,570	39,908	**$372,478**	
								Total	$1,145,535	
					Extend Cell Cap Maintenance to 8 years				$687,321	
									$1,832,856	**FY 2011**
									$1,922,666	**FY 2013**

Annual Inspection and Maintenance of cell caps will continue for 30 years after cell construction at the same annual cost as 2021 (delayed to 2024) --See Long Term Monitoring

Table L.1.14. Alternative 2
Permanent Leachate Treatment System



Permanent Leachate Treatment Facility Construction Summary

Activity	Labor		Material	Equipment	Subcontract	Subtotal	Indirects @ 12%	Total
	Man-Hrs	$ Value						
Construction	1,883	66,261	220,727	29,996	313,821	630,805	75,697	$706,502
							Total FY 2011	**$706,502**
							Total FY 2013	**$741,120**

NOTE:
Engineering ,Sales Tax, and Contractor's Markups are included in above Estimates

Table L.1.15. Alternative 2
Land Use Controls

PROJ. ESTIMATOR: C. Oldham

Title: Land Use Controls PROJECT LOCATION: Portsmouth, Ohio DATE: January 30, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	TOTAL MI	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	Deed Restrictions														
1	Allowance for Legal Fees, Administration Controls, and Documentation	1	Lot					0		0		0	150000	150,000	150,000
	Sub-total							**0**		**0**		**0**		**150,000**	**150,000**
	Sales Tax on Material only @ 7 %									0					0
	Subtotal							**0**		**0**		**0**		**150,000**	**150,000**
	Contractor Markups @ 26% (NA)														0
	Subtotal														**150,000**
	Indirects @ 12 %														18,000
														FY 2011 TOTAL	**168,000**

**** TOTAL- FY 2013** $ 176,232**

Table L.1.16. Alternative 2
Recyclables (Nickel) Staging Construction and Operations

PROJ. ESTIMATOR: C. Oldham

Title: Recyclables (Nickel) Staging Construction and Operations **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** January 30, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	Recyclables (Nickel) Staging Construction and Operations														
1	X-744G Storage Facility Mods	1	Ea		11786			883,973		228,079		167,918		258,000	1,537,970
2	Transport of Nickel to X-744G	1	Ea		8706			574,612		35,913		107,740		0	718,265
3	Staging Facility Operations (Active and Passive)	1	Ea		137117			9,049,726		502,763		502,763		0	10,055,251
	Subtotal							**10,508,311**		**766,755**		**778,420**		**258,000**	**12,311,486**
	Sales Tax on Material only @ 7 %									53,673					53,673
	Subtotal							**10,508,311**		**820,428**		**778,420**		**258,000**	**12,365,158**
	Contractor Markups at 26.0% (N/A)														0
	Subtotal														**12,365,158**
	Indirects @ 12 %														1,483,819
														FY 2011 TOTAL	**13,848,977**

**** T O T A L- FY 2013**** **$ 14,527,577**

Table L.1.17. Alternative 2
Landfill and Plume Remediation Cost Summary

Summary Description	Costs Unescalated FY 2013 $
Capital Costs	
Regulatory Documents	$600,000
Remedial Design	
Remedial Design Documents	$11,496,400
Pre Design Sampling Activities	$960,887
Subtotal Indirect Costs	**$13,057,286**
Remedial Action	
General Construction Support	$2,531,405
Site Preparation	$1,621,478
Landfill Soil Excavation and Transport	$18,425,231
Debris Excavation and Transport	$3,637,171
Landfill Remediation w / Off Site Disposal	$3,689,638
Plumes Soil Excavation and Transport	$205,242,032
Excavation Control Sampling	$1,429,276
Soil Treatment (Landfill and Plumes)	$18,360,450
Remediation Site Restoration	$5,994,238
Subtotal Direct Costs	**$260,930,920**
Total Capital Cost	**$273,988,206**

Table L.1.18. Alternative 2
Long-term Monitoring

PROJ. ESTIMATOR: **C. Oldham**

Title: **Long Term S & M and Monitoring** **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** January 30, 2013

Item				LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		
No.	DESCRIPTION	QTY	UNIT	UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	TOTAL ($)
	Cell S & M Year 1-30														
1	Annual Operating cost for Permanent	1	Yr										75000	75,000	75,000
	Leachate Treatment System --includes														
	Media change out and disposal														
	Allowance														
2	Annual Inspection and Maintenance of														
	Cell Caps will continue for 30 years	1	Yr										372478	372,478	372,478
	at the same Annual cost as Year 2021														
	(See Cell Maintenance)														
3	Security Patrol of Cell Area @ 1/week	52	Wk										1200	62,400	62,400
	Assume 4 hrs/ea @ $300/hr=$1200/week														
4	Utility /lighting Allowance	12	Mo										2000	24,000	24,000
	TOTAL ANNUAL COSTS														**533,878**
	TOTAL COST FOR 30 YEARS	30	Yrs												**$16,016,340**
5	Provide Complete Review of Cell Activities	6	Ea										40000	240,000	240,000
	including Regulatory Interface and														
	Report Preparation every 5 Years														
6	Remove and Dispose of Permanent Leachate														
	Treatment System in Year 2051	1	Ea										250000	250,000	250,000
	Allowance														
	Note: Sales Tax, Contractor Markups and														
	Indirects Included in above costs														
	Cell S & M Year 1-30 Total														**$16,506,340**

Table L.1.18. Alternative 2
Long-term Monitoring (continued)

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	MONITORING OF 7 WELLS														
	Years 1-30--Quarterly Sampling														
	Annual Costs														
1	Project Management/ misc support	160	hrs	1	160	pm	100.00	16,000	10	1,600		0		0	17,600
2	Collect and prepare samples (GW)	28	ea	16	448	tech	70.00	31,360	140	3,920	60	1,680		0	36,960
3	Sample analysis (radionuclides,VOC's	28	ea					0		0		0	850	23,800	23,800
	Semi-VOC's, and metals)														
4	Annual report	1	ea	120	120	eng	90.00	10,800	200	200		0		0	11,000
	Subtotal							**58,160**		**5,720**		**1,680**		**23,800**	**89,360**
	Taxes @ 7.00 %									400					400
	Subtotal							**58,160**		**6,120**		**1,680**		**23,800**	**89,760**
	Contractor Markups @ 26% (NA)														0
	Subtotal														**89,760**
	Indirects @ 12 %														10,771
	TOTAL ANNUAL COSTS														**$ 100,532**
	GW Monitoring Years 1-30 Total														**$ 3,015,949**

Table L.1.18. Alternative 2
Long-term Monitoring (continued)

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	CELL S & M Years 31-1000														
1	Annual Monitoring of Cell Leachate	1	Yr										15000	15,000	15,000
	Allowance														
2	Utility / lighting Allowance	12	Mo										1500	18,000	18,000
3	Security Patrol of Cell Area @ 1/week	52	ea										1200	62,400	62,400
	Assume 4 hrs/ea @ $300/hr=$1200/week														
	TOTAL ANNUAL COSTS														**95,400**
	Note: Sales Tax, Contractor Markups and														
	Indirects Included in above costs														
	Cell S & M-970 Year Total														**$92,538,000**

Table L.1.18. Alternative 2
Long-term Monitoring (continued)

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	MATERIAL $/UNIT	$ VALUE	EQUIPMENT $/UNIT	$ VALUE	SUBCONTRACT $/UNIT	$ VALUE	TOTAL ($)
	MONITORING OF 7 WELLS														
	Years 31-1000-Annual Sampling														
	Annual Costs														
1	Project Management/ misc support	40	hrs	1	40	pm	100.00	4,000	10	400		0		0	4,400
2	Collect and prepare samples (GW)	7	ea	16	112	tech	70.00	7,840	140	980	60	420		0	9,240
3	Sample analysis (radionuclides, VOC's	7	ea					0		0		0	850	5,950	5,950
	Semi-VOC's, and metals)														
4	Annual report	1	ea	80	80	eng	90.00	7,200	200	200		0		0	7,400
	Subtotal							**19,040**		**1,580**		**420**		**5,950**	**26,990**
	Taxes @ 7.00 %									111					111
	Subtotal							**19,040**		**1,691**		**420**		**5,950**	**27,101**
	Contractor Markups @ 26% (NA)														0
	Subtotal														**27,101**
	Indirects @ 12 %														3,252
	TOTAL ANNUAL COSTS														**$ 30,353**
	GW Monitoring- 970 Year Total														**$ 29,442,092**

**** TOTAL FY 2011 **** **$ 141,502,381**
**** TOTAL FY 2013 **** **$ 148,435,998**

Table L.1.19. Alternative 2
Assembly Summary

Transportation Assemblies		Direct Costs--FY 2011		Total w/Markups--Cost/CY	
Assembly No.	**Assembly Name**	**Cost/CF**	**Cost/CY**	**FY 2011 $**	**FY 2013 $**
XWST1000	Transport Roll Off to Local Landfill (Pike County)	$0.80	$21.72	$24.33	$25.52
XWST1030	Transport Soil/Debris in Articulated Dump from project stockpiles to rail load out	$1.12	$30.19	$33.81	$35.47
XWST1040A	Transport Gondola with Debris (LLW/ACM/PCBS) to ES - (3 Month Turn)	$15.46	$417.48	$467.57	$490.49
XWST1050A	Transport X-326 Fissile Classified Compressors via truck to (NNSS)	$66.67	$1,800.03	$2,016.03	$2,114.82
XWST1060R1	Transport Debris in Articulated Dump to OSDC	$0.71	$19.13	$21.43	$22.48
XWST1130A	Transport X-326 Classified Excepted Compressors by truck (NNSS)	$34.16	$922.35	$1,033.03	$1,083.65
XWST1140A	Transport X-326 Fissile and Excepted Classified Converters via truck to (NNSS)	$34.30	$925.98	$1,037.09	$1,087.91
XWST1150A	Transport Intermodal (LLW/*ACM/PCB) Rail to Energy Solutions-Debris & Soil	$15.93	$430.22	$481.85	$505.46
XWST1200A	Transport X-330 & X-333 Classified Size Reduced Compressors and Converters to (NNSS) by truck	$17.30	$467.06	$523.11	$548.74
XWST1240	Transport Gondola with Soil (LLW/PCBS)to ES-(3 Month Turn)	$18.52	$500.03	$560.03	$587.47
XWST1290	Transport IP-1 B-25 box to NNSS (Fissile)	$86.36	$2,331.74	$2,611.55	$2,739.52

Table L.1.20. Alternative 2
Assembly XWST1000

XWST1000	**Assembly Number and Name**					
Non-Rad	**2**	**Transport Roll Off to Local Landfill (Pike County)**				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	0.050	Radiological Control Tech	HR	0.0009	[redacted]	[redacted]
	0.03	Q/A Engineer/Specialist	HR	0.0005	[redacted]	[redacted]
	0.03	Safety/IH Technician	HR	0.0005	[redacted]	[redacted]
	0.05	Specialist-Transportation	HR	0.0009	[redacted]	[redacted]
0.20	0.05	Supervisor	HR	0.0009	[redacted]	[redacted]
		Craft Labor				
0.20	0.20	D&D Worker	HR	0.0037	[redacted]	[redacted]
		Labor Total				$0.37
		Material				
		Subcontract				
	1.00	Transport roll-off to local landfill (round trip)	EA	0.0019	$161.00	$0.30
		Equipment				
	1.00	Roll Off Container	EA	0.0000378	$3,432.86	$0.13
		Other Costs				
	0.40	PPE Level D	HR	0.0074	$1.23	$0.01
		UoM	CF			**$0.80**
		Hrs/Day	10			
		Production Rate	540			
		Production Unit	CF/Box			
		Productivity Factor	1	540		
		Subtotal Direct	CY			**$21.72**
		Indirects @ 12 %				$2.61
		Total-FY 2011	CY			**$24.33**

Notes:
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
540 CF/Day = Production rate per BOE is 1 shipment(1 roll off)
Assume roll off waste volume @ 80% capacity = 675 cf X 0.8=540 cf

Table L.1.21. Alternative 2
Assembly XWST1030

XWST1030	**Assembly Number and Name**					
Rad	**2**	**Transport Soil/ Debris in Articulated Dump from Project stockpiles to rail load out**				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	1.00	Radiological Control Tech	HR	0.0014	[redacted]	[redacted]
	0.10	QA/QC Representative/Technician	HR	0.0001	[redacted]	[redacted]
	0.25	Clerk	HR	0.0004	[redacted]	[redacted]
	0.25	Work Control Planner	HR	0.0004	[redacted]	[redacted]
	0.25	Safety/IH Technician	HR	0.0004	[redacted]	[redacted]
	1.00	Specialist-Transportation	HR	0.0014	[redacted]	[redacted]
3.10	0.25	Supervisor	HR	0.0004	[redacted]	[redacted]
		Craft Labor				
	3.00	Truck Driver (USW)	HR	0.0042	[redacted]	[redacted]
	2.00	Laborer (USW)	HR	0.0028	[redacted]	[redacted]
5.00						
		Labor Total				$0.51
		Material				
		Subcontract				
		Equipment				
	3.00	Dump Truck (Articulating Rear)	HR	0.0042	140.82	$0.59
		Other Costs				
	8.10	PPE Level D	HR	0.0114	1.23	$0.01
		UoM	CF			**$1.12**
		Hrs/Day	10			
		Production Rate	11,880			
		Production Unit	CF/Day			
		Productivity Factor	0.6	7128		
		Subtotal Direct	CY			**$30.19**
		Indirects @ 12 %				$3.62
		Total-FY 2011	CY			**$33.81**

Notes:
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
7,128 CF/Day = Production rate is based on 12 loads/day

Table L.1.22. Alternative 2
Assembly XWST1040A

XWST1040A	Assembly Number and Name					
Rail		**Transport Gondola with Debris (LLW/ACM/PCBS) to ES (3-Month Turnaround)**				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	1.00	Radiological Control Tech	HR	0.00104	[redacted]	[redacted]
	0.37	Clerk	HR	0.00039	[redacted]	[redacted]
	0.36	QA/QC Representative/Technician	HR	0.00038	[redacted]	[redacted]
	0.50	Safety/IH Technician	HR	0.00052	[redacted]	[redacted]
	0.10	Specialist-Transportation	HR	0.00010	[redacted]	[redacted]
3.33	1.00	Supervisor	HR	0.00104	[redacted]	[redacted]
		Craft Labor				
	2.00	D&D Worker (DBA)	HR	0.00208	[redacted]	[redacted]
4.00	2.00	Operators (DBA)	HR	0.00208	[redacted]	[redacted]
		Labor Total				$0.36
		Material				
	0.06	Air sampling	MO	0.00001	326.93	$0.002
	5.00	Labeling and Placarding	LOT	0.00052	27.37	$0.01
	5.00	Burito liner/Bag for Gondola	EA	0.00052	530.72	$0.28
	30.00	Absorbent material (6 bags per super gondola)	EA	0.00313	133.75	$0.42
		Subcontract				
	5.00	Transport Rail Car to Clive, UT EnergySolutions	CAR	0.00052	14657.5	$7.63
		Equipment				
	0.50	Grappler	HR	0.00052	68.16	$0.04
	10950.00	Gondola Rail Car	HR	1.14063	4.56	$5.20
	1.00	Rail Mover	HR	0.00104	79.72	$0.08
	1.00	Wheel Loader 7	HR	0.00104	91.27	$0.10
	0.50	Water Tanker	HR	0.00052	106.87	$0.06
	0.50	Dust Boss	HR	0.00052	7.54	$0.00
	0.50	Bobcat	HR	0.00052	32.28	$0.02
	0.50	Gator	HR	0.00052	6.37	$0.00
	1.00	Manlift Articlating 45-ft	HR	0.00104	37.22	$0.04
		Other Costs				
	4.00	PPE Level C	HR	0.00417	24.81	$0.10
	3.33	PPE Level D	HR	0.00347	1.23	$0.00
	1.00	Transport Wastefrom Stockpile to Rail Loadout. (XWST1030)	CF	1.00000	1.12	$1.12
		UoM	CF			**$15.46**
		Hrs/Day	10			
		Production Rate	[illegible]			
		Production Rate	CF/Day			
		Productivity Factor	1	9,600		
		Subtotal Direct	CY			$417.48
		Indirects @ 12%				$50.10
		Total-FY 2011	CY			**$467.57**

Assumes 70% of of 2,743 ft3 due to weight restrictions = 1,920 ft3 per gondola = 9,600 ft3 per day.
Qty (above) = Includes labor to Receive, unload, inspect, preparation and loading of rail car.
Gondola Rail Car Rental = 5 Gondolas @ 3 mos (10,950 hrs) rent per shipment (24hrs/day*365days/yr/4)
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = (Qty/Prod Rate)/Prod Factor
Unit Rates = Hours or Units per Each *ACM NEEDS PRE APPROVAL PRIOR TO SHIPMENT
9600 CF/Day = Production rate per BOE is 5 gondola/day

Table L.1.23. Alternative 2
Assembly XWST1050A

XWST1050A	**Assembly Number and Name**					
Rad	**2**	**Transport X-326 Fissile Classified Compressors via truck to (NNSS)**				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	0.20	Radiological Control Tech	HR	0.0093	[redacted]	[redacted]
	0.20	Security Representative	HR	0.0093	[redacted]	[redacted]
	0.02	Clerk	HR	0.0009	[redacted]	[redacted]
	0.02	QA/QC Representative/Technician	HR	0.0009	[redacted]	[redacted]
	0.02	Safety/IH Technician	HR	0.0009	[redacted]	[redacted]
	0.20	Specialist-Transportation	HR	0.0093	[redacted]	[redacted]
0.70	0.04	Supervisor	HR	0.0019	[redacted]	[redacted]
		Craft Labor				
0.80	0.80	D&D Worker	HR	0.0374	[redacted]	[redacted]
		Labor Total				$3.36
		Material				
	1.00	Blocking and Bracing for XWST1050	LOT	0.0047	700.00	$3.27
	1.00	Labeling and Placarding	LOT	0.0047	27.37	$0.13
	2.00	Intermodal 37 cy 7A Type A (Returnable)	EA	0.0093	1,078.56	$10.08
		Subcontract				
	1.00	NNSS Mercury, NV (round trip)	TRUCK	0.0047	10,222.78	$47.77
		Equipment				
	0.20	Fork Lift - 60,000	HR	0.0093	35.97	$0.34
	0.20	100-Ottawa 50 y Tractor	HR	0.0093	80.80	$0.76
		Other Costs				
	0.80	PPE Level C	HR	0.0374	24.81	$0.93
	0.70	PPE Level D	HR	0.0327	1.23	$0.04
		UoM	CF			**$66.67**
		Hrs/Day	10			
		Production Rate	214			
		Production Unit	CF/Day			
		Productivity Factor	1	214		
		Subtotal Direct	CY			**$1,800.03**
		Indirects @ 12 %				$216.00
		Total-FY 2011	CY			**$2,016.03**

Notes:
Assume average Compressor volume = 107 cubic feet
Assume Intermodals are reused 50 times and 5% additional cost is added for maintenance.
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
214 CF/Day = Production rate per BOE is 2 compressors/Truck

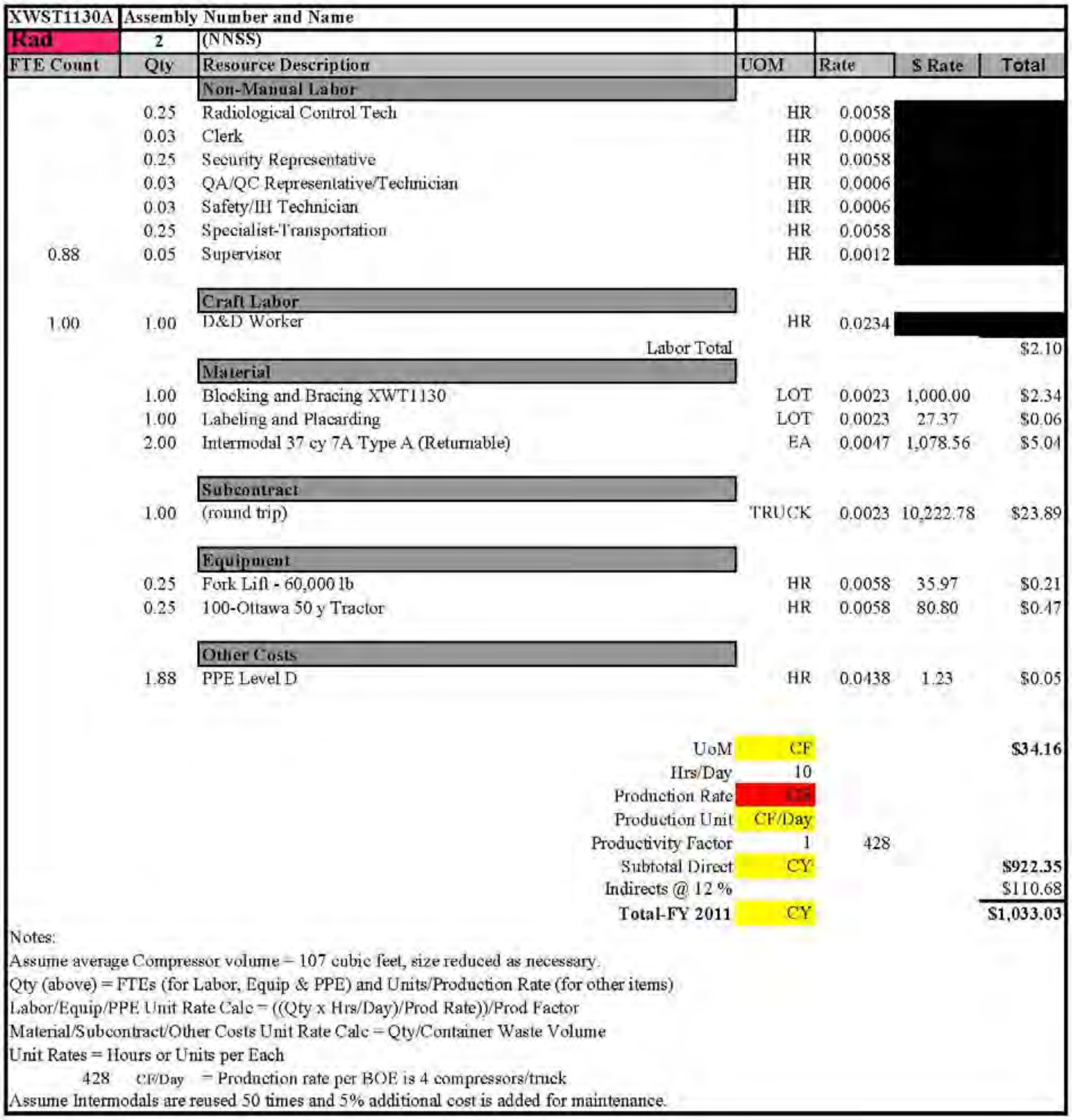
Table L.1.24. Alternative 2
Assembly XWST1060R1

XWST1060R1	Assembly Number and Name					
Rad		Transport Debris in Articulated Dump to OSDC				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	0.20	Radiological Control Tech	HR	0.0005	[redacted]	[redacted]
	0.10	QA/QC Representative/Technician	HR	0.0003	[redacted]	[redacted]
	0.10	Safety/IH Technician	HR	0.0003	[redacted]	[redacted]
	0.25	Specialist-Transportation	HR	0.0006	[redacted]	[redacted]
0.90	0.25	Supervisor	HR	0.0006	[redacted]	[redacted]
		Craft Labor				
	1.00	Truck Driver (USW)	HR	0.0026	[redacted]	[redacted]
	1.00	Laborer (USW)	HR	0.0026	[redacted]	[redacted]
2.00						
		Labor Total				$0.34
		Material				
		Subcontract				
		Equipment				
	1.00	Dump Truck (Articulating Rear)	HR	0.0026	140.82	$0.36
		Other Costs				
	2.90	PPE Level D	HR	0.0074	1.23	$0.01
		UoM	CF			**$0.71**
		Hrs/Day	10			
		Production Rate	3,915			
		Production Unit	CF/Day			
		Productivity Factor	1	3915		
		Subtotal Direct	CY			**$19.13**
		Indirects @ 12 %				$2.30
		Total FY 2011 $	CY			**$21.43**

Notes:
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
3,915 CF/Day = Production rate is based on 10 loads/day

Note: Rates are based on generation, transport and disposal all being a radiological operation with no transition surveys.

Table L.1.25. Alternative 2
Assembly XWST1130A



XWST1130A	Assembly Number and Name					
Rad	2	(NNSS)				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	0.25	Radiological Control Tech	HR	0.0058	[redacted]	[redacted]
	0.03	Clerk	HR	0.0006	[redacted]	[redacted]
	0.25	Security Representative	HR	0.0058	[redacted]	[redacted]
	0.03	QA/QC Representative/Technician	HR	0.0006	[redacted]	[redacted]
	0.03	Safety/IH Technician	HR	0.0006	[redacted]	[redacted]
	0.25	Specialist-Transportation	HR	0.0058	[redacted]	[redacted]
0.88	0.05	Supervisor	HR	0.0012	[redacted]	[redacted]
		Craft Labor				
1.00	1.00	D&D Worker	HR	0.0234	[redacted]	[redacted]
		Labor Total				$2.10
		Material				
	1.00	Blocking and Bracing XWT1130	LOT	0.0023	1,000.00	$2.34
	1.00	Labeling and Placarding	LOT	0.0023	27.37	$0.06
	2.00	Intermodal 37 cy 7A Type A (Returnable)	EA	0.0047	1,078.56	$5.04
		Subcontract				
	1.00	(round trip)	TRUCK	0.0023	10,222.78	$23.89
		Equipment				
	0.25	Fork Lift - 60,000 lb	HR	0.0058	35.97	$0.21
	0.25	100-Ottawa 50 y Tractor	HR	0.0058	80.80	$0.47
		Other Costs				
	1.88	PPE Level D	HR	0.0438	1.23	$0.05
		UoM	CF			**$34.16**
		Hrs/Day	10			
		Production Rate	428			
		Production Unit	CF/Day			
		Productivity Factor	1	428		
		Subtotal Direct	CY			**$922.35**
		Indirects @ 12 %				$110.68
		Total-FY 2011	CY			**$1,033.03**

Notes:
Assume average Compressor volume = 107 cubic feet, size reduced as necessary.
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
428 CF/Day = Production rate per BOE is 4 compressors/truck
Assume Intermodals are reused 50 times and 5% additional cost is added for maintenance.

Table L.1.26. Alternative 2
Assembly XWST1140A

XWST1140A	Assembly Number and Name					
Rad	2	**Transport X-326 Fissile and Excepted Classified Converters via truck to (NNSS)**				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit**	**$ Rate**	**Total**
		Non-Manual Labor				
	0.20	Radiological Control Tech	HR	0.0048	[redacted]	[redacted]
	0.20	Security Representative	HR	0.0048	[redacted]	[redacted]
	0.02	Clerk	HR	0.0005	[redacted]	[redacted]
	0.02	QA/QC Representative/Technician	HR	0.0005	[redacted]	[redacted]
	0.02	Safety/IH Technician	HR	0.0005	[redacted]	[redacted]
	0.20	Specialist-Transportation	HR	0.0048	[redacted]	[redacted]
0.70	0.04	Supervisor	HR	0.0010	[redacted]	[redacted]
		Craft Labor				
0.80	0.80	D&D Worker	HR	0.0192	[redacted]	[redacted]
		Labor Total				$1.73
		Material				
	1.00	Blocking and Bracing for XWST1140	LOT	0.0024	700.00	$1.68
	1.00	Labeling and Placarding	LOT	0.0024	27.37	$0.07
	2.00	Intermodal 37 cy 7A Type A (Returnable)	EA	0.0048	1,078.56	$5.19
		Subcontract				
	1.00	Classified Truck Transport (2 converters /truck) to NNSS Mercury, NV (round trip)	TRUCK	0.0024	10,222.78	$24.57
		Equipment				
	0.20	Fork Lift - 60,000	HR	0.0048	35.97	$0.17
	0.20	100-Ottawa 50 y Tractor	HR	0.0048	80.80	$0.39
		Other Costs				
	0.80	PPE Level C	HR	0.0192	24.81	$0.48
	0.70	PPE Level D	HR	0.0168	1.23	$0.02
		UoM	CF			**$34.30**
		Hrs/Day	10			
		Production Rate	416			
		Production Unit	CF/Day			
		Productivity Factor	1	416		
		Subtotal Direct	CY			**$925.98**
		Indirects @ 12 %				$111.12
		Total-FY 2011	CY			**$1,037.09**

Notes:
Assume average Converter volume = 208 cubic feet, size reduced as necessary.
Intermodal cost based on verbal vendor "budget quote".
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
416 CF/Day = Production rate per BOE is 2 converters/Truck

Table L.1.27. Alternative 2
Assembly XWST1150A

XWST1150A	Assembly Number and Name					
Rad	2	Transport Intermodal (LLW/*ACM/PCB) Rail to Energy Solutions-Debris & Soil				
FTE Count	Qty	Resource Description	UOM	Unit Rate	$ Rate	Total
		Non-Manual Labor				
	0.25	Radiological Control Tech	HR	0.0012	[redacted]	[redacted]
	0.05	Supervisor	HR	0.0002	[redacted]	[redacted]
	0.03	Clerk	HR	0.0001	[redacted]	[redacted]
	0.03	QA/QC Representative/Technician	HR	0.0001	[redacted]	[redacted]
	0.25	Specialist-Transportation	HR	0.0012	[redacted]	[redacted]
0.63	0.03	Safety/IH Technician	HR	0.0001	[redacted]	[redacted]
		Craft Labor				
1.25	1.25	D&D Worker	HR	0.0058	[redacted]	[redacted]
		Labor Total				$0.42
		Material				
	1.00	Labeling and Placarding	EA	0.0019	27.37	$0.05
	3.00	Absorbent Material (3-Bags per Intermodal)	EA	0.0056	133.75	$0.74
	8.00	4'x8' OSB Boards (8-per Intermodal)	EA	0.0148	23.86	$0.35
	1.00	Plastic Liner for IM	EA	0.0019	144.45	$0.27
		Subcontract				
	1.00	Transport IMs by ABC rail car to Clive, UT (round trip)	EA	0.0005	18,706.81	$8.66
	1.00	Per Trip Cleaning Intermodal	EA	0.0019	387.63	$0.72
		Equipment				
	0.25	Fork Lift - 60,000 lb	HR	0.0012	35.97	$0.04
	730.00	ABC Articulating Rail Car 320,000 lbs	HR	0.3380	8.51	$2.88
	0.25	006- Rail Mover	HR	0.0012	43.52	$0.05
	1.00	Intermodal Container IP-1	Mo	0.0019	288.90	$0.54
		Other Costs				
	1.88	PPE Level D	HR	0.0087	1.23	$0.01
	1.00	Fees, Transport (Iowa)($175 per shipment + Tax)	EA	0.0005	187.25	$0.09
	1.00	Transport Waste from Stockpile to Rail Load-out - (XWST1030)	CF	1.0000	1.12	$1.12
		UoM	CF			**$15.93**
		Hrs/Day	10			
		Production Rate	[illegible]			
		Production Unit	CF/Day			
		Productivity Factor	0.8	2160		
		Subtotal Direct	CY			**$430.22**
		Indirects @ 12 %				$51.63
		Total-FY 2011	CY			**$481.85**

Notes:
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
2,160 CF/Day = Production rate per BOE is 1 railcar=4 intermodals/railcar/day
Assume intermodal waste volume @ 80% capacity = 675 cf X 0.8=540 cf

Table L.1.28. Alternative 2
Assembly XWST1200A

XWST1200A	**Assembly Number and Name**					
Rad	**2**	**Transport X-330 & X-333 Classified Size Reduced Compressors and Converters to (NNSS) by truck**				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	1.00	Radiological Control Tech	HR	0.0055	[redacted]	[redacted]
	1.00	Security Representative	HR	0.0055	[redacted]	[redacted]
	0.10	QA/QC Representative/Technician	HR	0.0005	[redacted]	[redacted]
	0.10	Safety/IH Technician	HR	0.0005	[redacted]	[redacted]
	1.00	Specialist-Transportation	HR	0.0055	[redacted]	[redacted]
3.40	0.20	Supervisor	HR	0.0011	[redacted]	[redacted]
		Craft Labor				
4.00	4.00	D&D Worker	HR	0.0220	[redacted]	[redacted]
		Labor Total				$1.96
		Material				
	1.00	Blocking and Bracing for XWST1200	LOT	0.0005	126.05	$0.07
	1.00	Labeling and Placarding	LOT	0.0005	27.37	$0.02
	1.00	Intermodal boxes 7A TYPE A (675 ft3) (Non-Returnable)	EA	0.0005	16,000.00	$8.78
		Subcontract				
	1.00	Classified truck transport to NNSS Mercury, NV (round trip)	TRUCK	0.0005	10,222.78	$5.61
		Equipment				
	1.00	Fork Lift - 60,000 lb	HR	0.0055	35.97	$0.20
	1.00	Flatbed Truck	HR	0.0055	31.29	$0.17
	1.00	100-Ottawa 50 y Tractor	HR	0.0055	80.80	$0.44
		Other Costs				
	7.40	PPE Level D	HR	0.0406	1.23	$0.05
		UoM	CF			**$17.30**
		Hrs/Day	10			
		Production Rate	1,822			
		Production Unit	CF/Day			
		Productivity Factor	1	1822		
		Subtotal Direct	CY	1		**$467.06**
		Indirects @ 12 %				$56.05
		Total-FY 2011	CY			**$523.11**

Notes:

Assume In Situ Converter & Compressor volume = 1,822 cubic feet, size reduced to 405 ft3.

Intermodal cost based on verbal vendor "budget quote".

Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)

Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor

Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume

Unit Rates = Hours or Units per Each

1,822 CF/Day = Production rate

Table L.1.29. Alternative 2
Assembly XWST1240

XWST1240	Assembly Number and Name					
Rail		Transport Gondola with Soil (LLW/PCBS)to ES (3 Month Turnaround)				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**Rate**	**Total**
		Non-Manual Labor				
	1.00	Radiological Control Tech	HR	0.001250	[redacted]	[redacted]
	0.37	Clerk	HR	0.000463	[redacted]	[redacted]
	0.36	QA/QC Representative/Technician	HR	0.000450	[redacted]	[redacted]
	1.00	Engineer Jr. (WPC)	HR	0.001250	[redacted]	[redacted]
	0.50	Safety/IH Technician	HR	0.000625	[redacted]	[redacted]
	1.00	Specialist-Transportation	HR	0.001250	[redacted]	[redacted]
5.23	1.00	Supervisor	HR	0.001250	[redacted]	[redacted]
		Craft Labor				
4.00	2.00	D&D Worker (DBA)	HR	0.002500	[redacted]	[redacted]
	2.00	Operator (DBA)	HR	0.002500	[redacted]	[redacted]
		Labor Total				$0.57
		Material				
	0.06	Air sampling	EA	0.00000758	$326.93	$0.00
	5.00	Labeling and Placarding	LOT	0.00062500	$37.27	$0.02
	5.00	Liner for Gondola	EA	0.00062500	$530.72	$0.33
	30.00	Absorbent Material	EA	0.00375000	$133.75	$0.50
		Subcontract				
	5.00	Transport Rail Car to Clive, UT EnergySolutions	CAR	0.00062500	$14,657.45	$9.16
		Equipment				
	1.00	M322D Grappler	HR	0.00125000	$68.16	$0.09
	10,950.00	Gondola	HR	1.36875000	$4.56	$6.24
	1.00	006- Rail Mover	HR	0.00125000	$79.72	$0.10
	1.00	4WD Articulated Wheel Loader 7cy bucket	HR	0.00125000	$91.27	$0.11
	0.50	2042 Off Highway Water Tanker	HR	0.00062500	$106.87	$0.07
	0.50	Dust Boss	HR	0.00062500	$7.54	$0.00
	0.50	Bobcat 745	HR	0.00062500	$32.28	$0.02
	0.50	John Deere Gator	HR	0.00062500	$6.37	$0.00
	1.00	Manlift Articlating 45-ft (inspect lid and waste)	HR	0.00125000	$37.22	$0.05
		Other Costs				
	4.00	PPE Level C	HR	0.00500000	$24.81	$0.12
	5.23	PPE Level D	HR	0.00653750	$1.23	$0.01
	1.00	Fees, Transport (Iowa) ($175 per shipment)	EA	0.00012500		$0.00
	1.00	Transport Waste Stockpile to Rail Loadout, (XWST1030)	CF	1.00000000	$1.12	$1.12
		UoM	CF			**$18.52**
		Hrs/Day	10			
		Production Rate	8000			
		Production Rate	CF/Day			
		Production Factor	1	8000		
		Subtotal Direct	CY			**$500.03**
		Indirects @ 12%				$60.00
		Total-FY 2011	CY			**$560.03**

Notes:
Assumes: Receive, unload, inspection, preparation and load times.
Assume 1 Gondola holds 1600 CF of soil.
Assume 3 month turn-around.
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = (Qty/Prod Rate)/Prod Factor
Unit Rates = Hours or Units per Each *ACM NEEDS PRE APPROVAL PRIOR TO SHIPMENT
8000 CF/Day = Production rate per BOE is 5 gondola/day

Table L.1.30. Alternative 2
Assembly XWST1290

XWST1290	Assembly Number and Name					
Rad	2	**Transport IP-1 B-25 boxes to NNSS (Fissile)**				
FTE Count	Qty	Resource Description	UOM	Rate	$ RATE	TOTAL
		Non-Manual Labor				
	0.10	Radiological Control Tech	HR	0.0069	[redacted]	[redacted]
	0.25	Security Representative	HR	0.0174	[redacted]	[redacted]
	0.05	Clerk	HR	0.0035	[redacted]	[redacted]
	0.03	QA/QC Representative/Technician	HR	0.0017	[redacted]	[redacted]
	0.03	Safety/IH Technician	HR	0.0017	[redacted]	[redacted]
	0.25	Specialist-Transportation	HR	0.0174	[redacted]	[redacted]
0.75	0.05	Supervisor	HR	0.0035	[redacted]	[redacted]
		Craft Labor				
0.40	0.40	D&D Worker	HR	0.0278	[redacted]	[redacted]
		Labor Total				$3.75
		Material				
	1.00	Blocking and Bracing for XWST1290	LOT	0.0139	$14.84	$0.21
	2.00	Labeling and Placarding	LOT	0.0278	$27.37	$0.76
		Subcontract				
	1.00	Classified Truck Transport (2 B-25/truck) to Mercury, NV (one way)	TRUCK	0.0069	$11,545.30	$80.18
		Equipment				
	0.20	Fork Lift - 10,000 lb	HR	0.0139	$17.65	$0.25
	0.20	100-Ottawa 50 y Tractor	HR	0.0139	$80.80	$1.12
		Other Costs				
	1.15	PPE Level D	HR	0.0799	$1.23	$0.10
		UoM	CF			**$86.36**
		Hrs/Day	10			
		Production Rate	180			
		Production Unit	CF/Day			
		Productivity Factor	0.8	144		
		Subtotal Direct	CY			**$2,331.74**
		Indirects @ 12 %				$279.81
		Total-FY 2011	CY			**$2,611.55**

Notes:

Assume B-25 waste volume @ 80% capacity = 90 x .8 = 72 CF

Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)

Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor

Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume

Unit Rates = Hours or Units per Each

180 CF/Day = Production rate per BOE is 2 boxes/shipment

ATTACHMENT L.2: ALTERNATIVE 3 ESTIMATE

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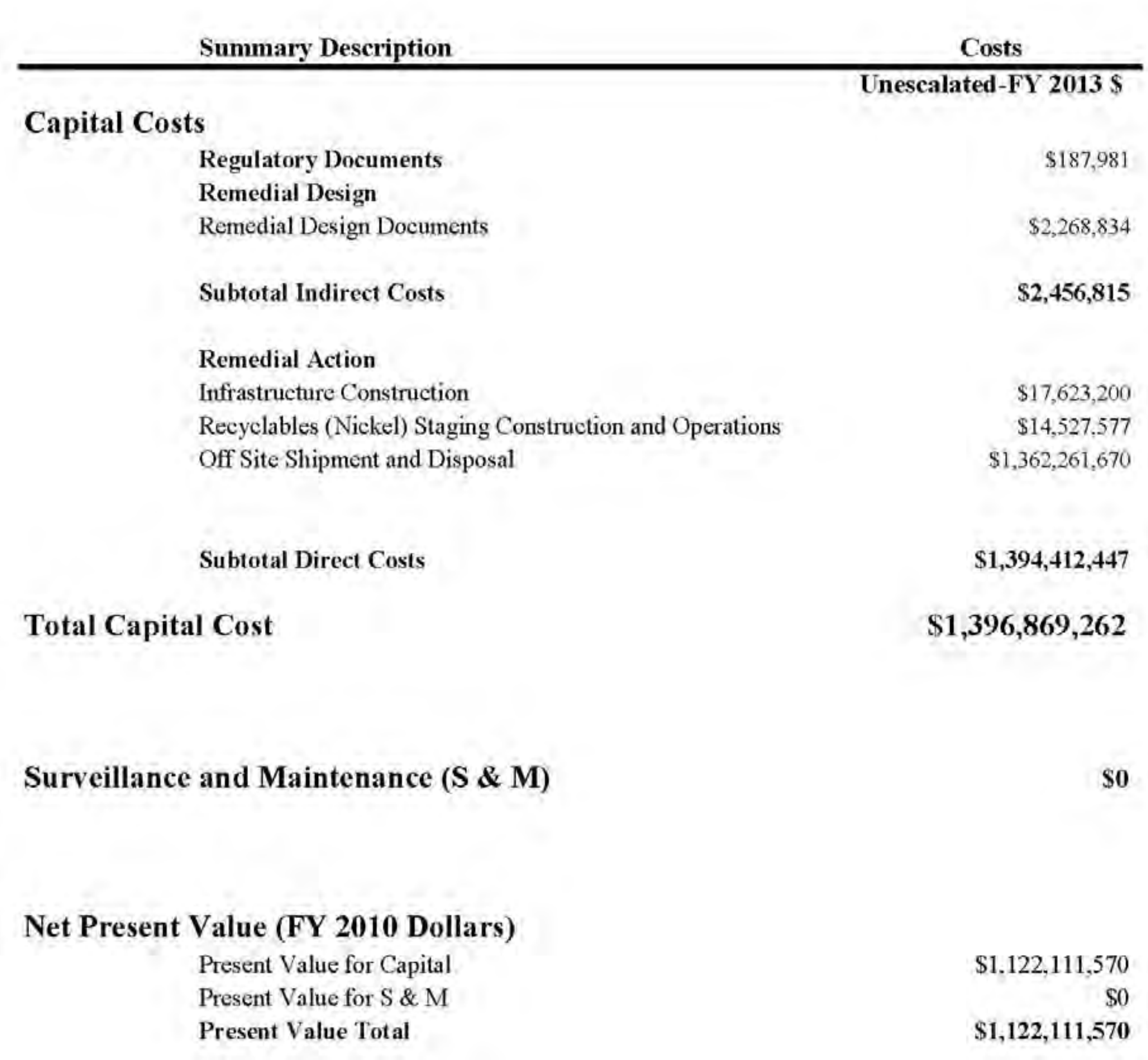
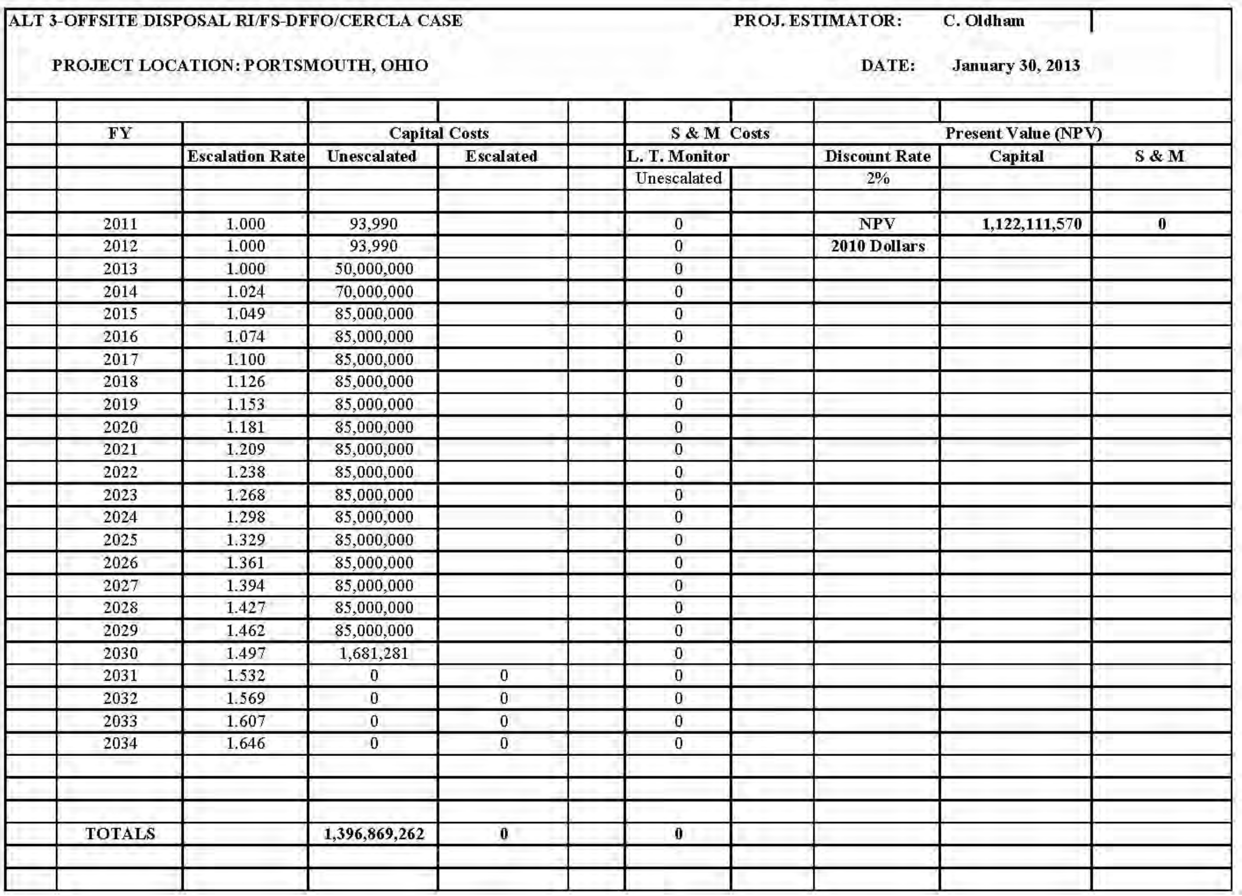
Table L.2.1. Alternative 3
Estimate Cost Summary



Summary Description	**Costs**
	Unescalated-FY 2013 $
Capital Costs	
Regulatory Documents	$187,981
Remedial Design	
Remedial Design Documents	$2,268,834
Subtotal Indirect Costs	**$2,456,815**
Remedial Action	
Infrastructure Construction	$17,623,200
Recyclables (Nickel) Staging Construction and Operations	$14,527,577
Off Site Shipment and Disposal	$1,362,261,670
Subtotal Direct Costs	**$1,394,412,447**
Total Capital Cost	**$1,396,869,262**
Surveillance and Maintenance (S & M)	**$0**
Net Present Value (FY 2010 Dollars)	
Present Value for Capital	$1,122,111,570
Present Value for S & M	$0
Present Value Total	**$1,122,111,570**

Table L.2.2. Alternative 3
Escalation and Present Value



ALT 3-OFFSITE DISPOSAL RI/FS-DFFO/CERCLA CASE **PROJ. ESTIMATOR:** **C. Oldham**

PROJECT LOCATION: PORTSMOUTH, OHIO **DATE:** **January 30, 2013**

	FY		**Capital Costs**			**S & M Costs**			**Present Value (NPV)**	
		Escalation Rate	**Unescalated**	**Escalated**		**L. T. Monitor**		**Discount Rate**	**Capital**	**S & M**
						Unescalated		2%		
	2011	1.000	93,990			0		**NPV**	**1,122,111,570**	**0**
	2012	1.000	93,990			0		**2010 Dollars**		
	2013	1.000	50,000,000			0				
	2014	1.024	70,000,000			0				
	2015	1.049	85,000,000			0				
	2016	1.074	85,000,000			0				
	2017	1.100	85,000,000			0				
	2018	1.126	85,000,000			0				
	2019	1.153	85,000,000			0				
	2020	1.181	85,000,000			0				
	2021	1.209	85,000,000			0				
	2022	1.238	85,000,000			0				
	2023	1.268	85,000,000			0				
	2024	1.298	85,000,000			0				
	2025	1.329	85,000,000			0				
	2026	1.361	85,000,000			0				
	2027	1.394	85,000,000			0				
	2028	1.427	85,000,000			0				
	2029	1.462	85,000,000			0				
	2030	1.497	1,681,281			0				
	2031	1.532	0	0		0				
	2032	1.569	0	0		0				
	2033	1.607	0	0		0				
	2034	1.646	0	0		0				
	TOTALS		**1,396,869,262**	**0**		**0**				

Table L.2.3. Alternative 3
Regulatory Documents

PROJ. ESTIMATOR: **C. Oldham**

TITLE: Regulatory Documents **PROJECT LOCATION: Portsmouth, Ohio** **DATE:** January 30, 2013

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
	Regulatory Documents														
1	Remedial Design Report, Remedial Action Work Plan & Report, Completion Reports, etc.-Allowance	1	Lot		0			0		0		0		160,000	160,000
	Subtotal							**0**		**0**		**0**		**160,000**	**160,000**
	Sales Tax on Material only @ 7 % (NA)									0					0
	Subtotal							**0**		**0**		**0**		**160,000**	**160,000**
	Contractor Markups at 26.0% (N/A)														0
	Subtotal														**160,000**
	Indirects @ 12 %														19,200
														FY 2011 TOTAL	**179,200**

**** T O T A L- FY 2013**** **$ 187,981**

Table L.2.4. Alternative 3
Remedial Design

												PROJ. ESTIMATOR:		**C. Oldham**		
Title: Remedial Design Documents					**PROJECT LOCATION:**		**Portsmouth, Ohio**						**DATE:**	January 30, 2013		

Item No.	DESCRIPTION	QTY	UNIT	LABOR UNIT MH	TOTAL MH	CRAFT	$/MH	$ VALUE	MATERIAL $/UNIT	$ VALUE	EQUIPMENT $/UNIT	$ VALUE	SUBCONTRACT $/UNIT	$ VALUE	TOTAL ($)
	Design, Engineering, and Procurement														
1	Develop drawings, specs & procurement pkg for Infrastructure Construction @ 7% of construction costs	7	%		0			0		0		0		15,000,000	1,050,000
2	Develop specifications & procurement packages for offsite shipment and Infrastructure construction	5	Ea	1200	6000	Eng	90.00	540,000	2,000	10,000		0		0	550,000
3	RFP & S/C Procurement support	6	Ea	400	2400	Eng	90.00	216,000	1,000	6,000		0		0	222,000
4	Bid and award S / C support	6	Ea	200	1200	Eng	90.00	108,000		0		0		0	108,000
	Subtotal							**864,000**		**16,000**		**0**		**15,000,000**	**1,930,000**
	Sales Tax on Material only @ 7 %									1,120					1,120
	Subtotal							**864,000**		**17,120**		**0**		**15,000,000**	**1,931,120**
	Contractor Markups at 26.0% (N/A)														0
	Subtotal														**1,931,120**
	Indirects @ 12 %														231,734
														FY 2011 TOTAL	**2,162,854**

**** T O T A L- FY 2013**** **$ 2,268,834**

Table L.2.5. Alternative 3
Infrastructure

PROJ. ESTIMATOR: **C. Oldham**

Title: **Infrastructure Construction** **PROJECT LOCATION:** **Portsmouth, Ohio** **DATE:** **January 30, 2013**

Item No.	DESCRIPTION	QTY	UNIT	LABOR					MATERIAL		EQUIPMENT		SUBCONTRACT		TOTAL ($)
				UNIT MH	OTAL MI	CRAFT	$/MH	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	$/UNIT	$ VALUE	
1	Rail Facilities Modifications including necessary transfer and/or loading stations --Allowance	1	Lot					0		0		0	13000000	13,000,000	13,000,000
2	Upgrade of site roads/bridges to accommodate increased vehicle traffic--Allowance	1	Lot										2000000	2,000,000	2,000,000
	Sub-total							**0**		**0**		**0**		**15,000,000**	**15,000,000**
	Sales Tax on Material only @ 7 % (NA)									0					0
	Subtotal							**0**		**0**		**0**		**15,000,000**	**15,000,000**
	Contractor Markups at 26.0% (N/A)														0
	Subtotal														**15,000,000**
	Indirects @ 12%														1,800,000
														FY 2011 TOTAL	**16,800,000**

**** TOTAL- FY 2013**** **$ 17,623,200**

Table L.2.6. Alternative 3
Recyclables (Nickel) Staging Construction and Operations

PROJ. ESTIMATOR: C. Oldham

Title: Recyclables (Nickel) Staging Construction and Operations **PROJECT LOCATION: Portsmouth, Ohio** **DATE:** January 30, 2013

Item No.	**DESCRIPTION**	**QTY**	**UNIT**	**LABOR**					**MATERIAL**		**EQUIPMENT**		**SUBCONTRACT**		**TOTAL ($)**
				UNIT MH	**TOTAL MH**	**CRAFT**	**$/MH**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	**$/UNIT**	**$ VALUE**	
	Recyclables (Nickel) Staging Construction and Operations														
1	X-744G Storage Facility Mods	1	Ea		11786			883,973		228,079		167,918		258,000	1,537,970
2	Transport of Nickel to X-744G	1	Ea		8706			574,612		35,913		107,740		0	718,265
3	Staging Facility Operations (Active and Passive)	1	Ea		137117			9,049,726		502,763		502,763		0	10,055,251
	Subtotal							**10,508,311**		**766,755**		**778,420**		**258,000**	**12,311,486**
	Sales Tax on Material only @ 7 %									53,673					53,673
	Subtotal							**10,508,311**		**820,428**		**778,420**		**258,000**	**12,365,158**
	Contractor Markups at 26.0% (N/A)													0	0
	Subtotal													**258,000**	**12,365,158**
	Indirects @ 12 %														1,483,819
														FY 2011 TOTAL	**13,848,977**

**** T O T A L - FY 2013**** **$ 14,527,577**

Table L.2.7. Alternative 3
Off-Site Shipment and Disposal Summary

Disposal Site: Pike County						
Waste Form	**In-Situ Volume CY's**	**Shipped Volume CY's**	**Transport Mode**	**Transport Cost/CY**	**Disposal Fee Cost/CY**	**Total**
Debris - Industrial and Industrial ACM	240,423	311,586	Solid Waste - Truck (XWST1000)	$24.33	$81.00	$32,819,104
Subtotal	240,423	311,586				$32,819,104
			Pike County	**Subtotal FY 2011**		**$32,819,104**

Disposal Site: ES, Clive, UT						
Waste Form	**In-Situ Volume CY's**	**Shipped Volume CY's**	**Transport Mode**	**Transport Cost/CY**	**Disposal Fee Cost/CY**	**Total**
MLLW Debris (and other Hazardous Wastes)	49,128	37,260	Intermodals - Rail (XWST1150A)	$481.85	$1,248.75	$64,482,183
Soil (MLLW - RCRA)	0	0	Intermodals - Rail (XWST1150A)	$481.85	$1,248.75	$0
Soil (LLW - RCRA and Utility)	53,303	63,963	Gondolas - Rail (XWST1240)	$560.03	$228.96	$50,466,365
Debris	742,095	865,381	Gondolas - Rail (XWST1040A)	$467.57	$570.78	$898,571,695
Subtotal	844,526	966,604				$1,013,520,243
			ES, Clive, UT	**Subtotal FY 2011**		**$1,013,520,243**

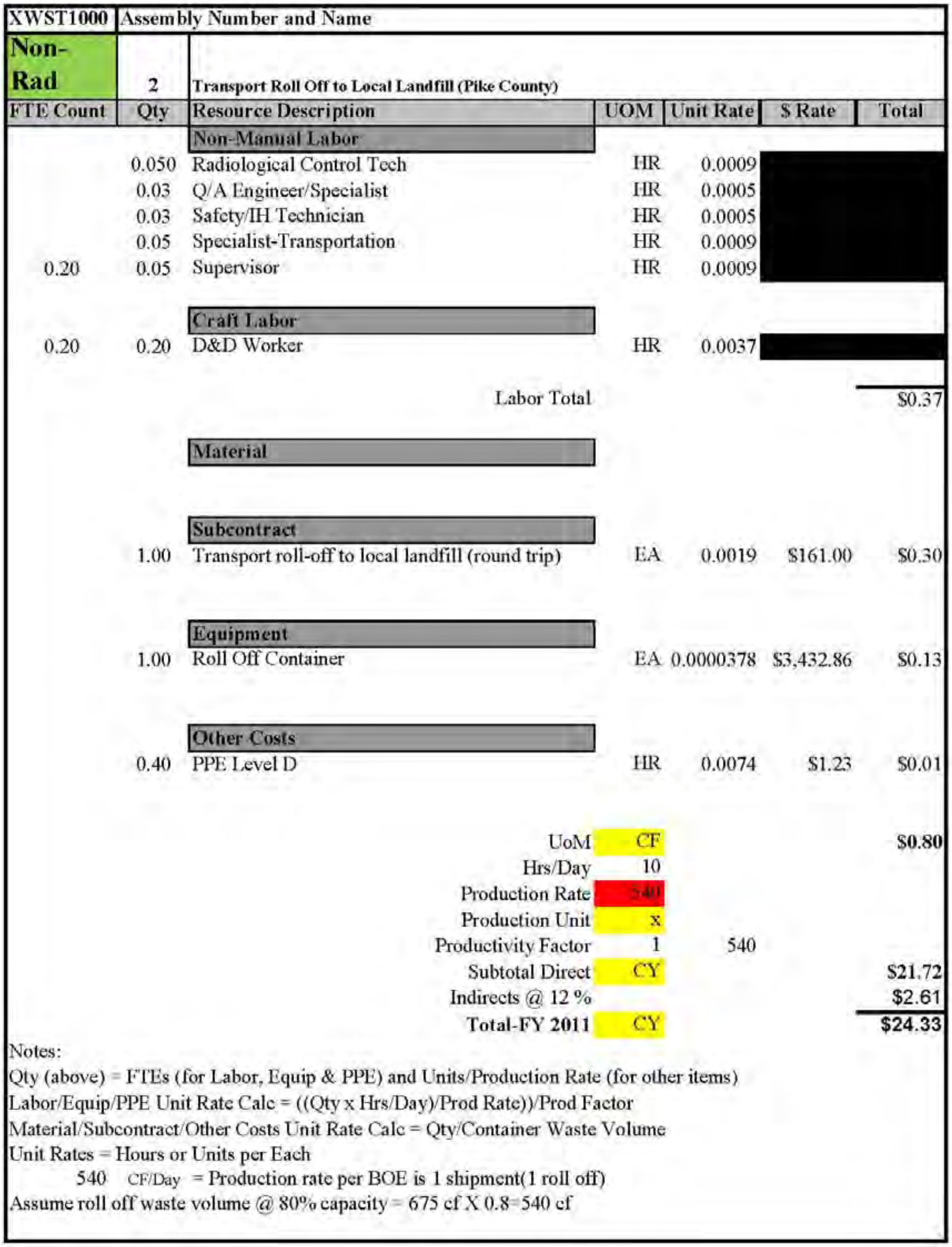
Disposal Site: NNSS, Mercury, NV						
Waste Form	**In-Situ Volume CY'S**	**Shipped Volume CY'S**	**Transport Mode**	**Transport Cost/CY**	**Disposal Fee Cost/CY**	**Total**
PGE - Size Reduced Compressors and Converters (X-330 and X-333)	222,979	49,564	Intermodals - PGE Debris - Truck (XWST1200A)	$523.11	$419.31	$137,424,247
PGE - Piping Etc	22,089	22,201	Transport IP-1 B-25 Box (Fissile) - Truck (XWST1290)	$2,611.55	$419.31	$67,288,147
PGE - Converters (X-326)	18,024	18,024	Classified Converters - Truck (XWST1140A)	$1,037.09	$419.31	$26,249,769
PGE - Compressors (X-326)	1,217	1,217	Classified Excepted Compressors - Truck (XWST1130A)	$1,033.03	$419.31	$1,768,033
PGE - Compressors (X-326)	8,031	8,031	Fissile Classified Compressors - Truck (XWST1050A)	$2,016.03	$419.31	$19,559,314
Subtotal	272,340	99,038				$252,289,509
			NNSS, Mercury, NV	**Subtotal FY 2011**		**$252,289,509**

	In-Situ(CY)	Shipped(CY)				
Total Volumes	1,357,289	1,377,228				
			Portsmouth Off-Site Waste Disposal Cost	**TOTAL FY 2011**		$1,298,628,856
				TOTAL FY 2013		$1,362,261,670

Table L.2.8. Alternative 3
Assembly Summary

Transportation Assemblies		Direct Costs--FY 2011		Total w/Markups--Cost/CY	
Assembly No.	**Assembly Name**	**Cost/CF**	**Cost/CY**	**FY 2011 $**	**FY 2013 $**
XWST1000	Transport Roll Off to Local Landfill (Pike County)	$0.80	$21.72	$24.33	$25.52
XWST1030	Transport Soil/Debris in Articulated Dump from project stockpiles to rail load out	$1.12	$30.19	$33.81	$35.47
XWST1040A	Transport Gondola with Debris (LLW/ACM/PCBS) to ES (3 Month Turnaround)	$15.46	$417.48	$467.57	$490.49
XWST1050A	Transport X-326 Fissile Classified Compressors via truck to (NNSS)	$66.67	$1,800.03	$2,016.03	$2,114.82
XWST1130A	Transport X-326 Classified Excepted Compressors by truck (NNSS)	$34.16	$922.35	$1,033.03	$1,083.65
XWST1140A	Transport X-326 Fissile and Excepted Classified Converters via truck to (NNSS)	$34.30	$925.98	$1,037.09	$1,087.91
XWST1150A	Transport Intermodal (LLW/*ACM/PCB) Rail to Energy Solutions-Debris & Soil	$15.93	$430.22	$481.85	$505.46
XWST1200A	Transport X-330 & X-333 Classified Size Reduced Compressors and Converters to (NNSS) by truck	$17.30	$467.06	$523.11	$548.74
XWST1240	Transport Gondola with Soil (LLW/PCBS)to ES (3 Month Turnround)	$18.52	$500.03	$560.03	$587.47
XWST1290	Transport IP-1 B-25 box to NNSS (Fissile)	$86.36	$2,331.74	$2,611.55	$2,739.52

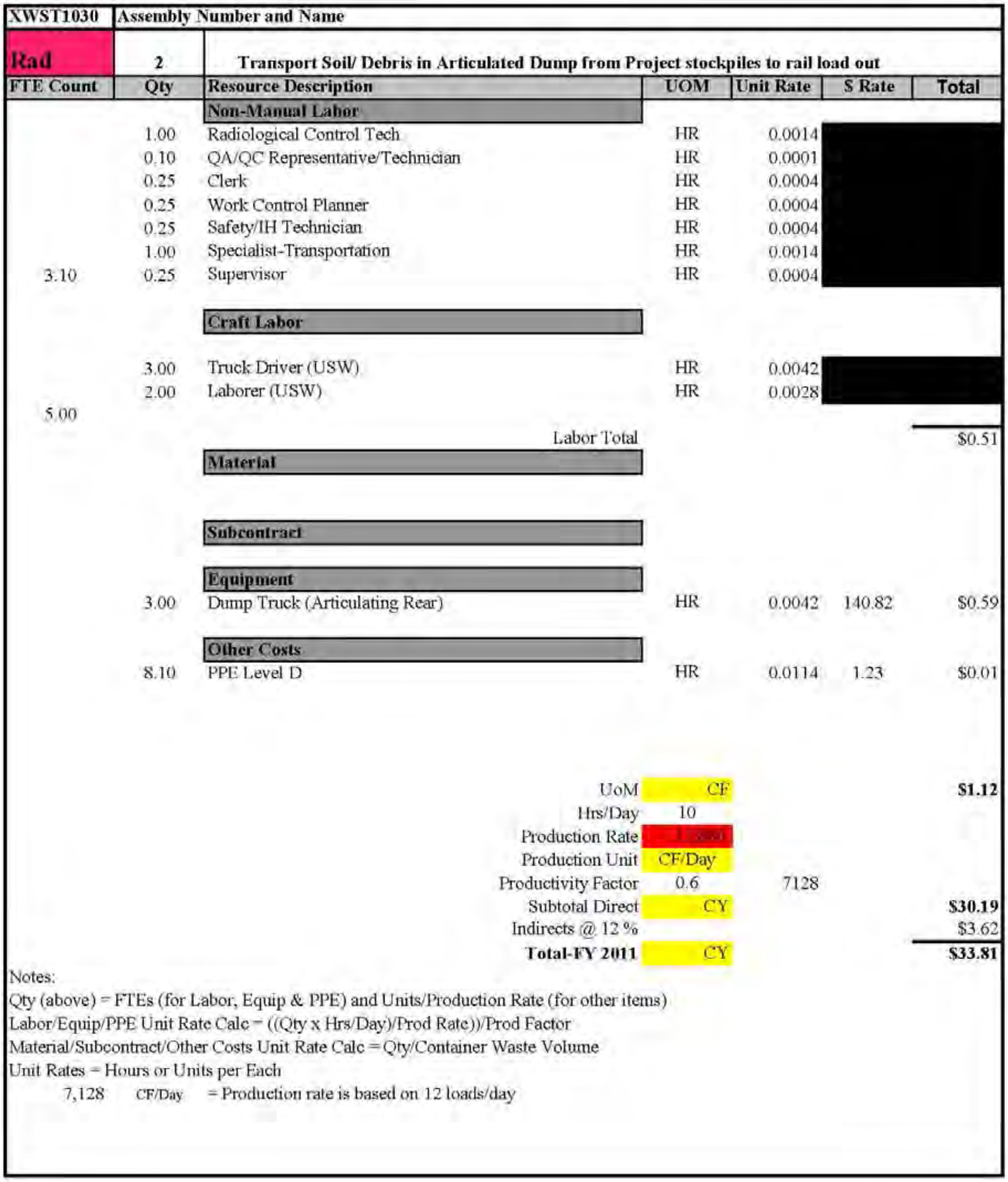
Table L.2.9. Alternative 3
Assembly XWST1000



XWST1000	Assembly Number and Name					
Non-Rad	2	**Transport Roll Off to Local Landfill (Pike County)**				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	0.050	Radiological Control Tech	HR	0.0009	[redacted]	[redacted]
	0.03	Q/A Engineer/Specialist	HR	0.0005	[redacted]	[redacted]
	0.03	Safety/IH Technician	HR	0.0005	[redacted]	[redacted]
	0.05	Specialist-Transportation	HR	0.0009	[redacted]	[redacted]
0.20	0.05	Supervisor	HR	0.0009	[redacted]	[redacted]
		Craft Labor				
0.20	0.20	D&D Worker	HR	0.0037	[redacted]	[redacted]
		Labor Total				$0.37
		Material				
		Subcontract				
	1.00	Transport roll-off to local landfill (round trip)	EA	0.0019	$161.00	$0.30
		Equipment				
	1.00	Roll Off Container	EA	0.0000378	$3,432.86	$0.13
		Other Costs				
	0.40	PPE Level D	HR	0.0074	$1.23	$0.01
		UoM	CF			**$0.80**
		Hrs/Day	10			
		Production Rate	540			
		Production Unit	x			
		Productivity Factor	1	540		
		Subtotal Direct	CY			**$21.72**
		Indirects @ 12 %				**$2.61**
		Total-FY 2011	CY			**$24.33**

Notes:
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
540 CF/Day = Production rate per BOE is 1 shipment(1 roll off)
Assume roll off waste volume @ 80% capacity = 675 cf X 0.8=540 cf

Table L.2.10. Alternative 3
Assembly XWST1030



XWST1030	**Assembly Number and Name**					
Rad	**2**	**Transport Soil/ Debris in Articulated Dump from Project stockpiles to rail load out**				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	1.00	Radiological Control Tech	HR	0.0014	[redacted]	[redacted]
	0.10	QA/QC Representative/Technician	HR	0.0001	[redacted]	[redacted]
	0.25	Clerk	HR	0.0004	[redacted]	[redacted]
	0.25	Work Control Planner	HR	0.0004	[redacted]	[redacted]
	0.25	Safety/IH Technician	HR	0.0004	[redacted]	[redacted]
	1.00	Specialist-Transportation	HR	0.0014	[redacted]	[redacted]
3.10	0.25	Supervisor	HR	0.0004	[redacted]	[redacted]
		Craft Labor				
	3.00	Truck Driver (USW)	HR	0.0042	[redacted]	[redacted]
	2.00	Laborer (USW)	HR	0.0028	[redacted]	[redacted]
5.00						
		Labor Total				$0.51
		Material				
		Subcontract				
		Equipment				
	3.00	Dump Truck (Articulating Rear)	HR	0.0042	140.82	$0.59
		Other Costs				
	8.10	PPE Level D	HR	0.0114	1.23	$0.01
		UoM	CF			**$1.12**
		Hrs/Day	10			
		Production Rate	[illegible]			
		Production Unit	CF/Day			
		Productivity Factor	0.6	7128		
		Subtotal Direct	CY			**$30.19**
		Indirects @ 12 %				$3.62
		Total-FY 2011	CY			**$33.81**

Notes:
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
7,128 CF/Day = Production rate is based on 12 loads/day

Table L.2.11. Alternative 3
Assembly XWST1040A

XWST1040A	**Assembly Number and Name**					
Rad		**Transport Gondola with Debris (LLW/ACM/PCBS) to ES (3 Month Turnaround)**				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	1.00	Radiological Control Tech	HR	0.00104	[redacted]	[redacted]
	0.37	Clerk	HR	0.00039	[redacted]	[redacted]
	0.36	QA/QC Representative/Technician	HR	0.00038	[redacted]	[redacted]
	0.50	Safety/IH Technician	HR	0.00052	[redacted]	[redacted]
	0.10	Specialist-Transportation	HR	0.00010	[redacted]	[redacted]
3.33	1.00	Supervisor	HR	0.00104	[redacted]	[redacted]
		Craft Labor				
	2.00	D&D Worker (DBA)	HR	0.00208	[redacted]	[redacted]
4.00	2.00	Operators (DBA)	HR	0.00208	[redacted]	[redacted]
		Labor Total				$0.36
		Material				
	0.06	Air sampling	MO	0.00001	326.93	$0.0021
	5.00	Labeling and Placarding	LOT	0.00052	27.37	$0.0143
	5.00	Burito liner/Bag for Gondola	EA	0.00052	530.72	$0.28
	30.00	Absorbent material (6 bags per super gondola)	EA	0.00313	133.75	$0.42
		Subcontract				
	5.00	Transport Rail Car to Clive, UT EnergySolutions	CAR	0.00052	14657.45	$7.63
		Equipment				
	0.50	Grappler	HR	0.00052	68.16	$0.04
	10950.00	Gondola Rail Car	HR	1.14063	4.56	$5.20
	1.00	Rail Mover	HR	0.00104	79.72	$0.08
	1.00	Wheel Loader 7	HR	0.00104	91.27	$0.10
	0.50	Water Tanker	HR	0.00052	106.87	$0.06
	0.50	Dust Boss	HR	0.00052	7.54	$0.00
	0.50	Bobcat	HR	0.00052	32.28	$0.02
	0.50	Gator	HR	0.00052	6.37	$0.00
	1.00	Manlift Articlating 45-ft	HR	0.00104	37.22	$0.04
		Other Costs				
	4.00	PPE Level C	HR	0.00417	24.81	$0.10
	3.33	PPE Level D	HR	0.00347	1.23	$0.00
	1.00	Transport Wastefrom Stockpile to Rail Loadout, (XWST10	CF	1.00000	1.12	$1.12
		UoM	CF			**$15.46**
		Hrs/Day	10			
		Production Rate	9,600			
		Production Rate	CF/Day			
		Productivity Factor	1	9,600		
		Subtotal Direct	CY			**$417.48**
		Indirects @ 12%				$50.10
		Total-FY 2011	CY			**$467.57**

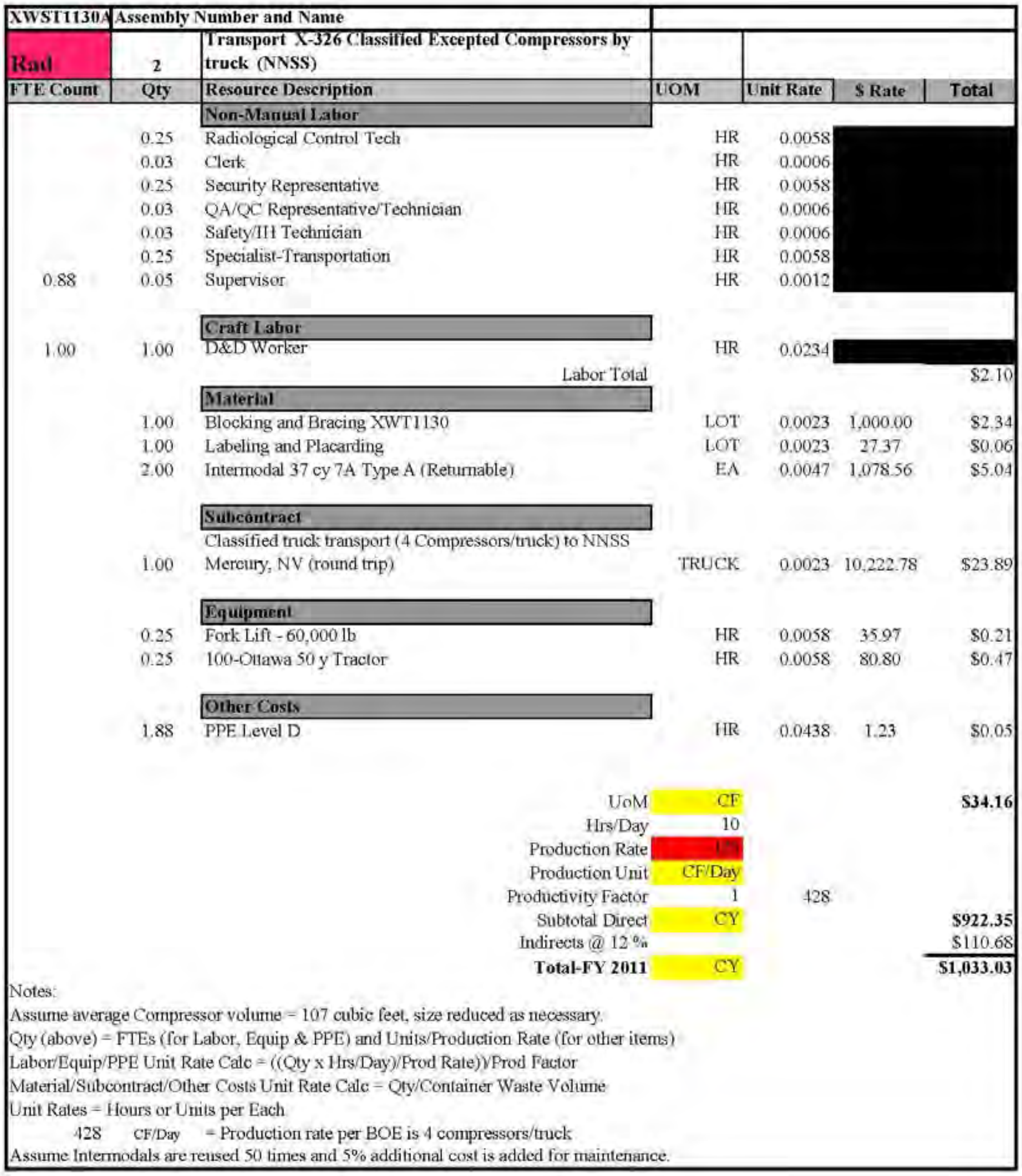
Assumes 70% of of 2,743 ft3 due to weight restrictions = 1,920 ft3 per gondola = 9,600 ft3 per day.
Qty (above) = Includes labor to Receive, unload, inspect, preparation and loading of rail car.
Gondola Rail Car Rental = 5 Gondolas @ 3 mos rent per shipment (24hrs/day*365days/yr/12*3)
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = (Qty/Prod Rate)/Prod Factor
Unit Rates = Hours or Units per Each *ACM NEEDS PRE APPROVAL PRIOR TO SHIPMENT
9600 CF/Day = Production rate per BOE is 5 gondola/day

Table L.2.12. Alternative 3
Assembly XWST1050A

XWST1050A	Assembly Number and Name					
Rad	2	Transport X-326 Fissile Classified Compressors via truck to (NNSS)				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	0.20	Radiological Control Tech	HR	0.0093	[redacted]	[redacted]
	0.20	Security Representative	HR	0.0093	[redacted]	[redacted]
	0.02	Clerk	HR	0.0009	[redacted]	[redacted]
	0.02	QA/QC Representative/Technician	HR	0.0009	[redacted]	[redacted]
	0.02	Safety/IH Technician	HR	0.0009	[redacted]	[redacted]
	0.20	Specialist-Transportation	HR	0.0093	[redacted]	[redacted]
0.70	0.04	Supervisor	HR	0.0019	[redacted]	[redacted]
		Craft Labor				
0.80	0.80	D&D Worker	HR	0.0374	[redacted]	[redacted]
		Labor Total				$3.36
		Material				
	1.00	Blocking and Bracing for XWST1050	LOT	0.0047	700.00	$3.27
	1.00	Labeling and Placarding	LOT	0.0047	27.37	$0.13
	2.00	Intermodal 37 cy 7A Type A (Returnable)	EA	0.0093	1,078.56	$10.08
		Subcontract				
	1.00	Classified Truck Transport (2 compressors/truck) to NNSS Mercury, NV (round trip)	TRUCK	0.0047	10,222.78	$47.77
		Equipment				
	0.20	Fork Lift - 60,000	HR	0.0093	35.97	$0.34
	0.20	100-Ottawa 50 y Tractor	HR	0.0093	80.80	$0.76
		Other Costs				
	0.80	PPE Level C	HR	0.0374	24.81	$0.93
	0.70	PPE Level D	HR	0.0327	1.23	$0.04
		UoM	CF			**$66.67**
		Hrs/Day	10			
		Production Rate	214			
		Production Unit	CF/Day			
		Productivity Factor	1	214		
		Subtotal Direct	CY			**$1,800.03**
		Indirects @ 12 %				$216.00
		Total-FY 2011	CY			**$2,016.03**

Notes:
Assume average Compressor volume = 107 cubic feet.
Assume Intermodals are reused 50 times and 5% additional cost is added for maintenance.
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
214 CF/Day = Production rate per BOE is 2 compressors/Truck
Assume Intermodals are reused 50 times and 5% additional cost is added for maintenance.

Table L.2.13. Alternative 3
Assembly XWST1130A



XWST1130A	Assembly Number and Name					
Rad	2	Transport X-326 Classified Excepted Compressors by truck (NNSS)				
FTE Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ Rate**	**Total**
		Non-Manual Labor				
	0.25	Radiological Control Tech	HR	0.0058	[redacted]	[redacted]
	0.03	Clerk	HR	0.0006	[redacted]	[redacted]
	0.25	Security Representative	HR	0.0058	[redacted]	[redacted]
	0.03	QA/QC Representative/Technician	HR	0.0006	[redacted]	[redacted]
	0.03	Safety/IH Technician	HR	0.0006	[redacted]	[redacted]
	0.25	Specialist-Transportation	HR	0.0058	[redacted]	[redacted]
0.88	0.05	Supervisor	HR	0.0012	[redacted]	[redacted]
		Craft Labor				
1.00	1.00	D&D Worker	HR	0.0234	[redacted]	[redacted]
		Labor Total				$2.10
		Material				
	1.00	Blocking and Bracing XWT1130	LOT	0.0023	1,000.00	$2.34
	1.00	Labeling and Placarding	LOT	0.0023	27.37	$0.06
	2.00	Intermodal 37 cy 7A Type A (Returnable)	EA	0.0047	1,078.56	$5.04
		Subcontract				
	1.00	Classified truck transport (4 Compressors/truck) to NNSS Mercury, NV (round trip)	TRUCK	0.0023	10,222.78	$23.89
		Equipment				
	0.25	Fork Lift - 60,000 lb	HR	0.0058	35.97	$0.21
	0.25	100-Ottawa 50 y Tractor	HR	0.0058	80.80	$0.47
		Other Costs				
	1.88	PPE Level D	HR	0.0438	1.23	$0.05
		UoM	CF			**$34.16**
		Hrs/Day	10			
		Production Rate	[illegible]			
		Production Unit	CF/Day			
		Productivity Factor	1	428		
		Subtotal Direct	CY			**$922.35**
		Indirects @ 12 %				$110.68
		Total-FY 2011	CY			**$1,033.03**

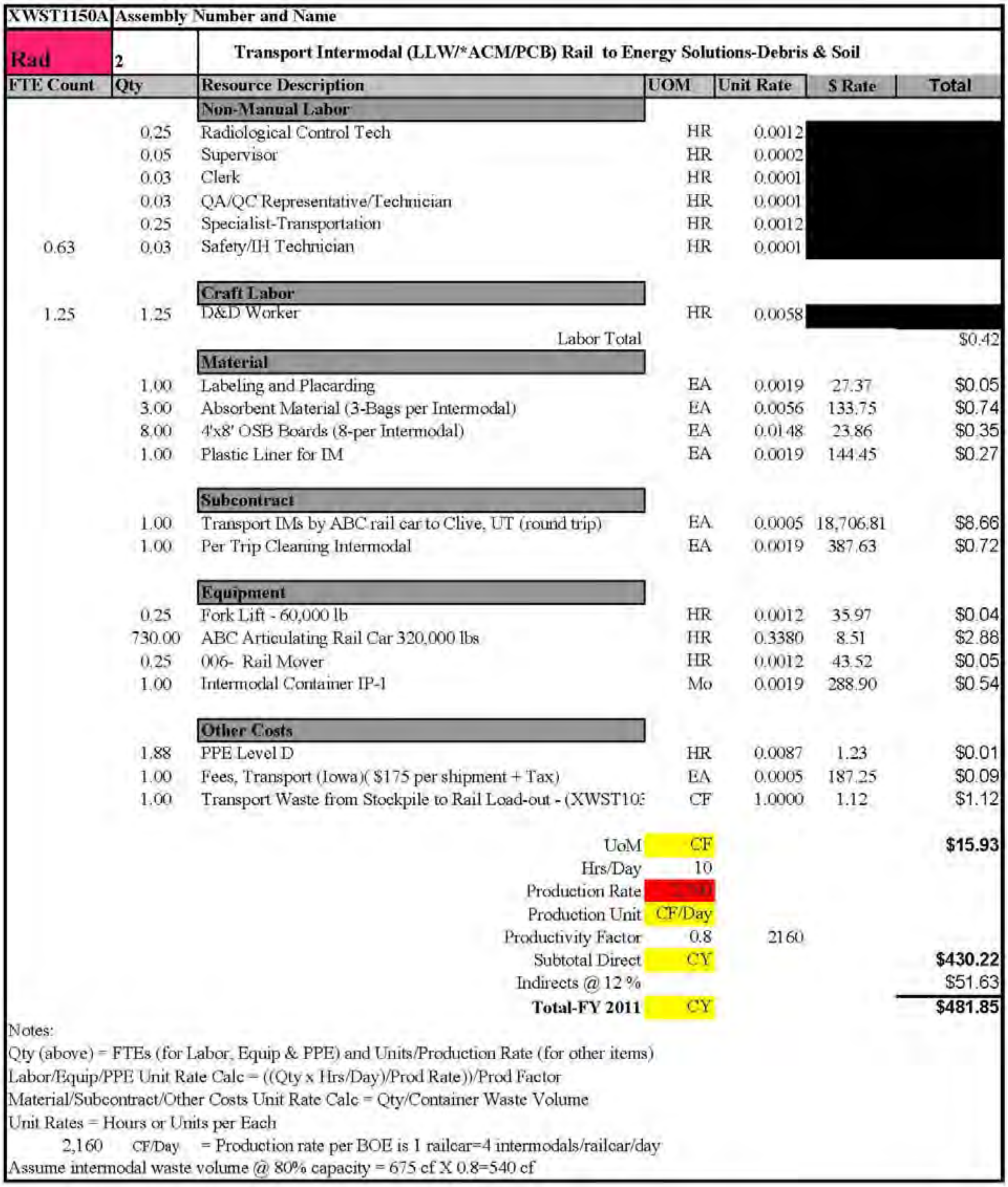
Notes:
Assume average Compressor volume = 107 cubic feet, size reduced as necessary.
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
428 CF/Day = Production rate per BOE is 4 compressors/truck
Assume Intermodals are reused 50 times and 5% additional cost is added for maintenance.

Table L.2.14. Alternative 3
Assembly XWST1140A

XWST1140	Assembly Number and Name					
Rad	2	Transport X-326 Fissile and Excepted Classified Converters via truck to (NNSS)				
FTE Count	Qty	Resource Description	UOM	Unit Rate	$ Rate	Total
		Non-Manual Labor				
	0.20	Radiological Control Tech	HR	0.0048	[redacted]	[redacted]
	0.20	Security Representative	HR	0.0048	[redacted]	[redacted]
	0.02	Clerk	HR	0.0005	[redacted]	[redacted]
	0.02	QA/QC Representative/Technician	HR	0.0005	[redacted]	[redacted]
	0.02	Safety/IH Technician	HR	0.0005	[redacted]	[redacted]
	0.20	Specialist-Transportation	HR	0.0048	[redacted]	[redacted]
0.70	0.04	Supervisor	HR	0.0010	[redacted]	[redacted]
		Craft Labor				
0.80	0.80	D&D Worker	HR	0.0192	[redacted]	[redacted]
		Labor Total				$1.73
		Material				
	1.00	Blocking and Bracing for XWST1140	LOT	0.0024	700.00	$1.68
	1.00	Labeling and Placarding	LOT	0.0024	27.37	$0.07
	2.00	Intermodal 37 cy 7A Type A (Returnable)	EA	0.0048	1,078.56	$5.19
		Subcontract				
	1.00	Classified Truck Transport (2 converters /truck) to NNSS Mercury, NV (round trip)	TRUCK	0.0024	10,222.78	$24.57
		Equipment				
	0.20	Fork Lift - 60,000	HR	0.0048	35.97	$0.17
	0.20	100-Ottawa 50 y Tractor	HR	0.0048	80.80	$0.39
		Other Costs				
	0.80	PPE Level C	HR	0.0192	24.81	$0.48
	0.70	PPE Level D	HR	0.0168	1.23	$0.02
		UoM	CF			**$34.30**
		Hrs/Day	10			
		Production Rate	416			
		Production Unit	CF/Day			
		Productivity Factor	1	416		
		Subtotal Direct	CY			**$925.98**
		Indirects @ 12 %				$111.12
		Total-FY 2011	CY			**$1,037.09**

Notes:
Assume average Converter volume = 208 cubic feet, size reduced as necessary.
Intermodal cost based on verbal vendor "budget quote".
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
416 CF/Day = Production rate per BOE is 2 converters/Truck
Assume Intermodals are reused 50 times and 5% additional cost is added for maintenance.

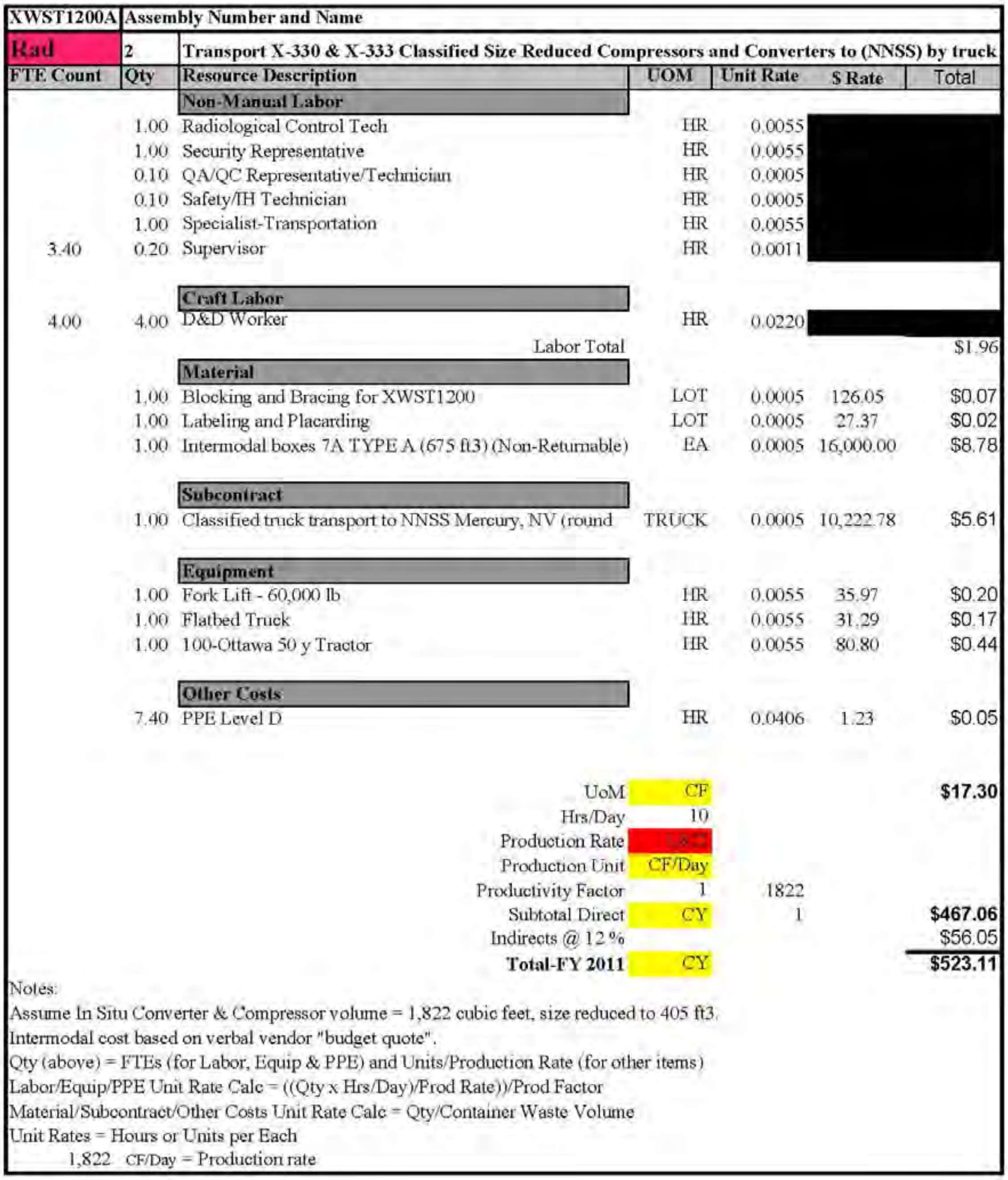
Table L.2.15. Alternative 3
Assembly XWST1150A



XWST1150A	Assembly Number and Name					
Rad	2	Transport Intermodal (LLW/*ACM/PCB) Rail to Energy Solutions-Debris & Soil				
FTE Count	Qty	Resource Description	UOM	Unit Rate	$ Rate	Total
		Non-Manual Labor				
	0.25	Radiological Control Tech	HR	0.0012	[redacted]	[redacted]
	0.05	Supervisor	HR	0.0002	[redacted]	[redacted]
	0.03	Clerk	HR	0.0001	[redacted]	[redacted]
	0.03	QA/QC Representative/Technician	HR	0.0001	[redacted]	[redacted]
	0.25	Specialist-Transportation	HR	0.0012	[redacted]	[redacted]
0.63	0.03	Safety/IH Technician	HR	0.0001	[redacted]	[redacted]
		Craft Labor				
1.25	1.25	D&D Worker	HR	0.0058	[redacted]	[redacted]
		Labor Total				$0.42
		Material				
	1.00	Labeling and Placarding	EA	0.0019	27.37	$0.05
	3.00	Absorbent Material (3-Bags per Intermodal)	EA	0.0056	133.75	$0.74
	8.00	4'x8' OSB Boards (8-per Intermodal)	EA	0.0148	23.86	$0.35
	1.00	Plastic Liner for IM	EA	0.0019	144.45	$0.27
		Subcontract				
	1.00	Transport IMs by ABC rail car to Clive, UT (round trip)	EA	0.0005	18,706.81	$8.66
	1.00	Per Trip Cleaning Intermodal	EA	0.0019	387.63	$0.72
		Equipment				
	0.25	Fork Lift - 60,000 lb	HR	0.0012	35.97	$0.04
	730.00	ABC Articulating Rail Car 320,000 lbs	HR	0.3380	8.51	$2.88
	0.25	006- Rail Mover	HR	0.0012	43.52	$0.05
	1.00	Intermodal Container IP-1	Mo	0.0019	288.90	$0.54
		Other Costs				
	1.88	PPE Level D	HR	0.0087	1.23	$0.01
	1.00	Fees, Transport (Iowa)($175 per shipment + Tax)	EA	0.0005	187.25	$0.09
	1.00	Transport Waste from Stockpile to Rail Load-out - (XWST10:	CF	1.0000	1.12	$1.12
		UoM	CF			**$15.93**
		Hrs/Day	10			
		Production Rate	2,160			
		Production Unit	CF/Day			
		Productivity Factor	0.8	2160		
		Subtotal Direct	CY			**$430.22**
		Indirects @ 12 %				$51.63
		Total-FY 2011	CY			**$481.85**

Notes:
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
2,160 CF/Day = Production rate per BOE is 1 railcar=4 intermodals/railcar/day
Assume intermodal waste volume @ 80% capacity = 675 cf X 0.8=540 cf

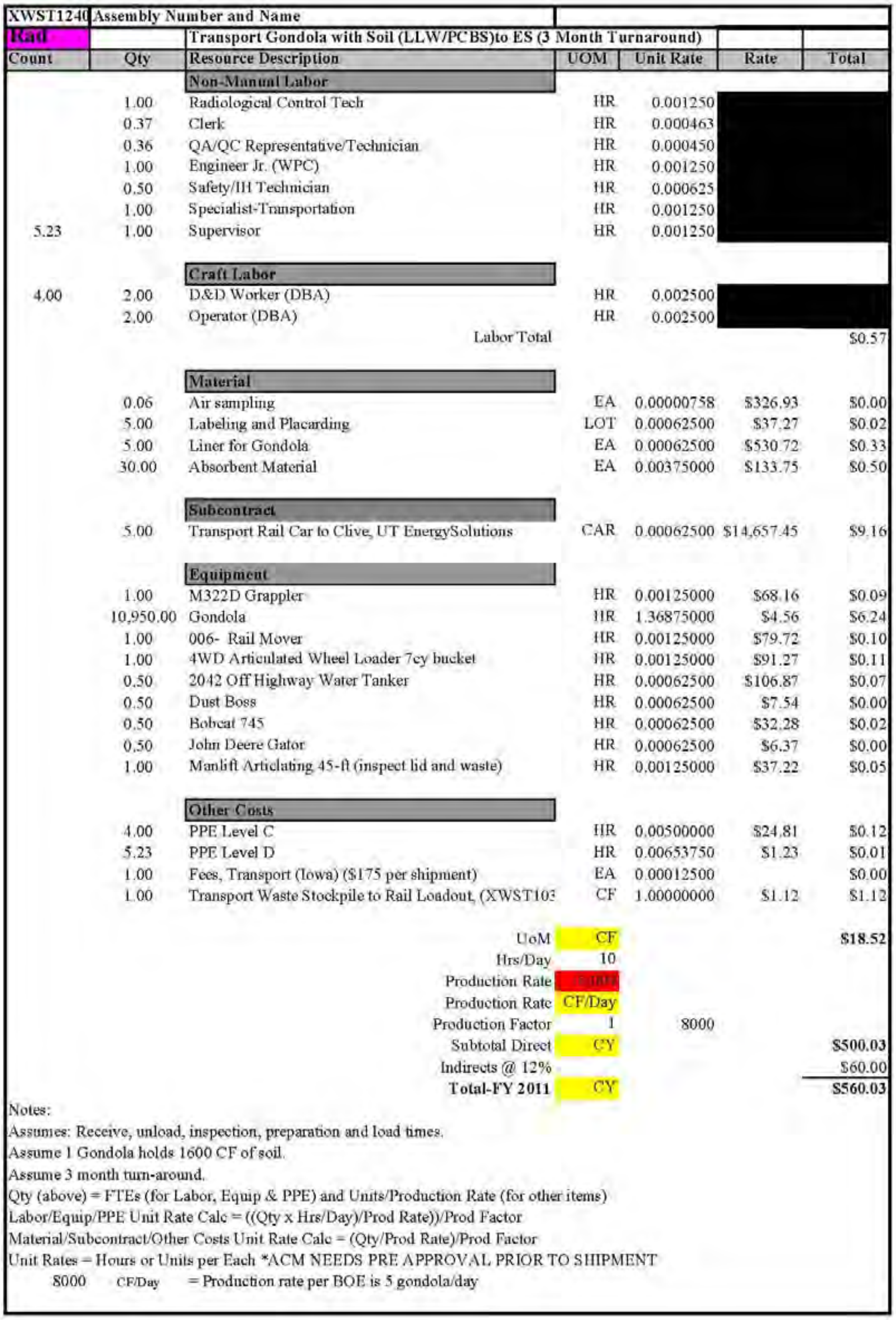
Table L.2.16. Alternative 3
Assembly XWST1200A



XWST1200A	Assembly Number and Name					
Rad	2	Transport X-330 & X-333 Classified Size Reduced Compressors and Converters to (NNSS) by truck				
FTE Count	Qty	Resource Description	UOM	Unit Rate	$ Rate	Total
		Non-Manual Labor				
	1.00	Radiological Control Tech	HR	0.0055	[redacted]	[redacted]
	1.00	Security Representative	HR	0.0055	[redacted]	[redacted]
	0.10	QA/QC Representative/Technician	HR	0.0005	[redacted]	[redacted]
	0.10	Safety/IH Technician	HR	0.0005	[redacted]	[redacted]
	1.00	Specialist-Transportation	HR	0.0055	[redacted]	[redacted]
3.40	0.20	Supervisor	HR	0.0011	[redacted]	[redacted]
		Craft Labor				
4.00	4.00	D&D Worker	HR	0.0220	[redacted]	[redacted]
		Labor Total				$1.96
		Material				
	1.00	Blocking and Bracing for XWST1200	LOT	0.0005	126.05	$0.07
	1.00	Labeling and Placarding	LOT	0.0005	27.37	$0.02
	1.00	Intermodal boxes 7A TYPE A (675 ft3) (Non-Returnable)	EA	0.0005	16,000.00	$8.78
		Subcontract				
	1.00	Classified truck transport to NNSS Mercury, NV (round	TRUCK	0.0005	10,222.78	$5.61
		Equipment				
	1.00	Fork Lift - 60,000 lb	HR	0.0055	35.97	$0.20
	1.00	Flatbed Truck	HR	0.0055	31.29	$0.17
	1.00	100-Ottawa 50 y Tractor	HR	0.0055	80.80	$0.44
		Other Costs				
	7.40	PPE Level D	HR	0.0406	1.23	$0.05
		UoM	CF			**$17.30**
		Hrs/Day	10			
		Production Rate	1,822			
		Production Unit	CF/Day			
		Productivity Factor	1	1822		
		Subtotal Direct	CY	1		**$467.06**
		Indirects @ 12 %				$56.05
		Total-FY 2011	CY			**$523.11**

Notes:
Assume In Situ Converter & Compressor volume = 1,822 cubic feet, size reduced to 405 ft3.
Intermodal cost based on verbal vendor "budget quote".
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
1,822 CF/Day = Production rate

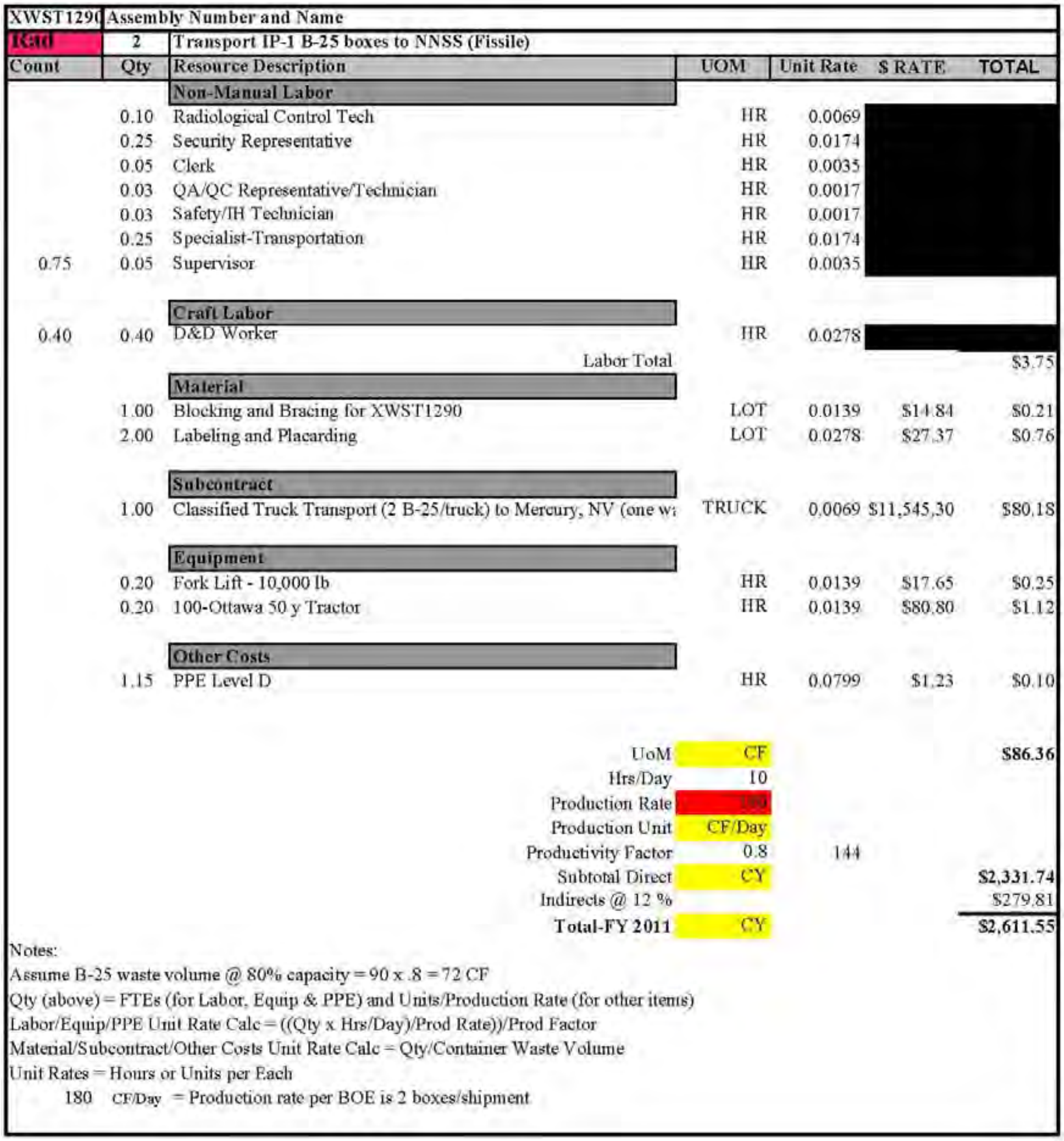
Table L.2.17. Alternative 3
Assembly XWST1240



XWST1240	Assembly Number and Name					
Rad		Transport Gondola with Soil (LLW/PCBS)to ES (3 Month Turnaround)				
Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**Rate**	**Total**
		Non-Manual Labor				
	1.00	Radiological Control Tech	HR	0.001250	[redacted]	[redacted]
	0.37	Clerk	HR	0.000463	[redacted]	[redacted]
	0.36	QA/QC Representative/Technician	HR	0.000450	[redacted]	[redacted]
	1.00	Engineer Jr. (WPC)	HR	0.001250	[redacted]	[redacted]
	0.50	Safety/IH Technician	HR	0.000625	[redacted]	[redacted]
	1.00	Specialist-Transportation	HR	0.001250	[redacted]	[redacted]
5.23	1.00	Supervisor	HR	0.001250	[redacted]	[redacted]
		Craft Labor				
4.00	2.00	D&D Worker (DBA)	HR	0.002500	[redacted]	[redacted]
	2.00	Operator (DBA)	HR	0.002500	[redacted]	[redacted]
		Labor Total				$0.57
		Material				
	0.06	Air sampling	EA	0.00000758	$326.93	$0.00
	5.00	Labeling and Placarding	LOT	0.00062500	$37.27	$0.02
	5.00	Liner for Gondola	EA	0.00062500	$530.72	$0.33
	30.00	Absorbent Material	EA	0.00375000	$133.75	$0.50
		Subcontract				
	5.00	Transport Rail Car to Clive, UT EnergySolutions	CAR	0.00062500	$14,657.45	$9.16
		Equipment				
	1.00	M322D Grappler	HR	0.00125000	$68.16	$0.09
	10,950.00	Gondola	HR	1.36875000	$4.56	$6.24
	1.00	006- Rail Mover	HR	0.00125000	$79.72	$0.10
	1.00	4WD Articulated Wheel Loader 7cy bucket	HR	0.00125000	$91.27	$0.11
	0.50	2042 Off Highway Water Tanker	HR	0.00062500	$106.87	$0.07
	0.50	Dust Boss	HR	0.00062500	$7.54	$0.00
	0.50	Bobcat 745	HR	0.00062500	$32.28	$0.02
	0.50	John Deere Gator	HR	0.00062500	$6.37	$0.00
	1.00	Manlift Articlating 45-ft (inspect lid and waste)	HR	0.00125000	$37.22	$0.05
		Other Costs				
	4.00	PPE Level C	HR	0.00500000	$24.81	$0.12
	5.23	PPE Level D	HR	0.00653750	$1.23	$0.01
	1.00	Fees, Transport (Iowa) ($175 per shipment)	EA	0.00012500		$0.00
	1.00	Transport Waste Stockpile to Rail Loadout, (XWST103	CF	1.00000000	$1.12	$1.12
		UoM	CF			**$18.52**
		Hrs/Day	10			
		Production Rate	8000			
		Production Rate	CF/Day			
		Production Factor	1	8000		
		Subtotal Direct	CY			**$500.03**
		Indirects @ 12%				$60.00
		Total-FY 2011	CY			**$560.03**

Notes:
Assumes: Receive, unload, inspection, preparation and load times.
Assume 1 Gondola holds 1600 CF of soil.
Assume 3 month turn-around.
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = (Qty/Prod Rate)/Prod Factor
Unit Rates = Hours or Units per Each *ACM NEEDS PRE APPROVAL PRIOR TO SHIPMENT
8000 CF/Day = Production rate per BOE is 5 gondola/day

Table L.2.18. Alternative 3
Assembly XWST1290



XWST1290	Assembly Number and Name					
Rad	2	**Transport IP-1 B-25 boxes to NNSS (Fissile)**				
Count	**Qty**	**Resource Description**	**UOM**	**Unit Rate**	**$ RATE**	**TOTAL**
		Non-Manual Labor				
	0.10	Radiological Control Tech	HR	0.0069	[redacted]	[redacted]
	0.25	Security Representative	HR	0.0174	[redacted]	[redacted]
	0.05	Clerk	HR	0.0035	[redacted]	[redacted]
	0.03	QA/QC Representative/Technician	HR	0.0017	[redacted]	[redacted]
	0.03	Safety/IH Technician	HR	0.0017	[redacted]	[redacted]
	0.25	Specialist-Transportation	HR	0.0174	[redacted]	[redacted]
0.75	0.05	Supervisor	HR	0.0035	[redacted]	[redacted]
		Craft Labor				
0.40	0.40	D&D Worker	HR	0.0278	[redacted]	[redacted]
		Labor Total				$3.75
		Material				
	1.00	Blocking and Bracing for XWST1290	LOT	0.0139	$14.84	$0.21
	2.00	Labeling and Placarding	LOT	0.0278	$27.37	$0.76
		Subcontract				
	1.00	Classified Truck Transport (2 B-25/truck) to Mercury, NV (one wa	TRUCK	0.0069	$11,545.30	$80.18
		Equipment				
	0.20	Fork Lift - 10,000 lb	HR	0.0139	$17.65	$0.25
	0.20	100-Ottawa 50 y Tractor	HR	0.0139	$80.80	$1.12
		Other Costs				
	1.15	PPE Level D	HR	0.0799	$1.23	$0.10
		UoM	CF			**$86.36**
		Hrs/Day	10			
		Production Rate	180			
		Production Unit	CF/Day			
		Productivity Factor	0.8	144		
		Subtotal Direct	CY			**$2,331.74**
		Indirects @ 12 %				$279.81
		Total-FY 2011	CY			**$2,611.55**

Notes:
Assume B-25 waste volume @ 80% capacity = 90 x .8 = 72 CF
Qty (above) = FTEs (for Labor, Equip & PPE) and Units/Production Rate (for other items)
Labor/Equip/PPE Unit Rate Calc = ((Qty x Hrs/Day)/Prod Rate))/Prod Factor
Material/Subcontract/Other Costs Unit Rate Calc = Qty/Container Waste Volume
Unit Rates = Hours or Units per Each
180 CF/Day = Production rate per BOE is 2 boxes/shipment

SUPPLEMENT NO. 1 TO THE REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT FOR THE SITE-WIDE WASTE DISPOSITION EVALUATION PROJECT:

PROPOSED CORRECTIVE ACTION MANAGEMENT UNIT AND AREA OF CONTAMINATION DESIGNATIONS FOR ALTERNATIVE 2
AT THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO

U.S. Department of Energy
DOE/PPPO/03-0646&D1

October 2014

This document is approved for public release per review by:

Henry Thomas (signature on file) 10-14-2014
PORTS Information/Classification Officer Date

Sam Eldridge (signature on file) 10-14-2014
PORTS Export Controlled Information Officer Date

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U.S. Department of Energy
DOE/PPPO/03-0646&D1

October 2014

Prepared for
U.S. Department of Energy

Prepared by
Fluor-B&W Portsmouth LLC, Under Contract DE-AC30-10CC40017
FBP-ER-RIFS-WD-PLN-0047, Revision 2

CONTENTS

FIGURES

TABLES

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ACRONYMS

AOC	area of contamination
ARAR	applicable or relevant and appropriate requirement
CAMU	Corrective Action Management Unit
CAS	Cleanup Alternatives Study
CFR	*Code of Federal Regulations*
CMS	Corrective Measures Study
D&D	decontamination and decommissioning
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DNAPL	dense non-aqueous phase liquid
DOE	U.S. Department of Energy
DOT	U.S. Department of Transportation
ELCR	excess lifetime cancer risk
EPA	U.S. Environmental Protection Agency
FR	Federal Register
IMTA	Impacted Material Transfer Area
LDR	land disposal restriction
OAC	*Ohio Administrative Code*
Ohio EPA	Ohio Environmental Protection Agency
OSDC	on-Site disposal cell
PHC	principal hazardous constituent
PORTS	Portsmouth Gaseous Diffusion Plant
PPE	personnel protective equipment
RCRA	Resource Conservation and Recovery Act of 1976, as amended
RFI	RCRA Facility Investigation
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
SWMU	solid waste management unit
TCE	trichloroethene
WAC	waste acceptance criteria

PREAMBLE

The Portsmouth Gaseous Diffusion Plant (PORTS) cleanup project is one of the largest environmental cleanup projects underway in the nation today. As described in the Site-wide Waste Disposition Evaluation Project (Waste Disposition) Remedial Investigation/Feasibility Study (RI/FS) and the subsequent Intermediate Design Package for the potential on-Site disposal cell (OSDC), the PORTS cleanup project is anticipated to produce nearly 1.4 million cy of decontamination and decommissioning (D&D) waste from the demolition of approximately 250 buildings, structures, and systems. The approximate 250 buildings, structures, and systems are found within a 1,000-acre industrial area near the center of the 3,777-acre U.S. Department of Energy (DOE) Portsmouth federal reservation. The complete PORTS cleanup project is likely to take more than 30 years to implement[1].

Of the 1.4 million cy of D&D waste anticipated from the cleanup conducted under *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O), it is estimated that 1.1 million cy would be suitable for on-Site disposal, should Alternative 2, the combined on-Site and off-Site waste disposal alternative from the Waste Disposition RI/FS, be selected as the preferred alternative in the forthcoming Waste Disposition Proposed Plan. The remaining waste volume (approximately 300,000 cy) would be sent off Site for disposal or recycling as appropriate. For planning purposes, it is estimated that once recycling initiatives are met, about 85 percent of the D&D waste volume would remain on Site in the new OSDC, and about 15 percent would be sent off Site for disposal should Alternative 2 be selected as the preferred alternative in the Proposed Plan.

Placement of the 1.1 million cy of D&D waste in a new potential OSDC would require an additional 2.65 million cy of engineered fill soil to properly place the waste, fill void spaces, and achieve design-based waste placement compaction requirements for the OSDC. The sources of engineered fill (herein "engineered fill" or "fill") can either be uncontaminated (purchased fill or fill obtained from on-site clean borrow areas) or can be from contaminated on-site areas provided the contaminated fill meets the waste acceptance criteria of a potential OSDC.

Regardless of the source of fill, roughly 221,000 truckloads of fill would be needed, resulting in an average of 35 to 40 trucks a day, every working day for upwards of 25 years. If an off-site clean source of fill is used, more than 2 million additional road miles would be needed to transport the fill to PORTS. The planning capacity for the potential OSDC is 5 million cy, and at completion, would occupy a dedicated land area of about 100 acres.

To place the size and magnitude of the PORTS D&D cleanup project into perspective, the anticipated D&D waste volume of 1.4 million cy is nearly triple the D&D waste volume encountered at the Fernald DOE cleanup site, the largest environmental cleanup project conducted to date in the State of Ohio. The volume far exceeds the U. S. Environmental Protection Agency's (EPA's) ranking of the largest cleanup sites in the country, where EPA ranks the largest sites based on a rule-of-thumb index as those sites containing 50,000 cy or more of affected waste volume. Of the nation's largest sites, those with

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[1] As support for the Corrective Action Management Unit (CAMU) designation by the Ohio Environmental Protection Agency (Ohio EPA) Director, this supplement contains additional information that has been updated since the Waste Disposition RI/FS, primarily from the Intermediate Design Package for the OSDC and cost and schedule information from the revised life-cycle baseline for PORTS. As part of the updates, funding projections have changed significantly, potentially affecting the cost estimates and durations of the overall project. Currently, based on funding, the schedule estimate requires 30 years for completion, whereas the RI/FS assumed a 10-year duration if on-Site disposal is selected as the preferred alternative.

more than $50 million in total estimated costs are considered to be the nation's clean-up "megasites" (EPA 2003). Clearly, with the 1.4 million cy projected D&D waste volume, and the estimated disposal-only costs[2] of $882 million for Alternative 2 in the Waste Disposition RI/FS, the PORTS cleanup project ranks as one of the nation's largest and more costly cleanup sites.

The Ohio EPA has been working with DOE and overseeing the remediation of environmental media at PORTS for the past 25 years, since 1989 when the Consent Decree with Ohio EPA along with the Administrative Consent Order with EPA were signed. As PORTS has been in the corrective action program for those 25 years with dedicated oversight by the regulators (resulting in eight Resource Conservation and Recovery Act of 1976, as amended [RCRA] Facility Investigation final reports and associated Cleanup Alternatives Study/Corrective Measures Study reports, along with seven major decision documents), Ohio EPA has detailed knowledge of the history of PORTS, previous releases, historical and current environmental conditions, and has been involved with the various treatment technologies applied at PORTS.

In turn, DOE is working with Ohio EPA to make the best possible environmental decisions for the D&D of PORTS and the cleanup of the environmental media contamination outside the D&D activities, considering regulatory requirements, the need to provide short- and long-term protection of workers and the public, and the need to be good stewards of the money that will be used to fund the cleanup. One of the tools under consideration by DOE and Ohio EPA as part of the decision making is the use of the CAMU rule (67 Federal Register 2962, January 22, 2002) to help facilitate implementation of the PORTS cleanup project. The CAMU rule was adopted as an applicable or relevant and appropriate requirement in the Waste Disposition RI/FS, for consideration under Alternative 2.

EPA recognized in its 2002 Amendments to the CAMU rule that the comprehensive regulatory framework that governs the identification, generation, transportation, treatment, storage and disposal of hazardous wastes (the 1984 Hazardous and Solid Waste Amendments to RCRA) can present serious disincentives to management of hazardous wastes during cleanups. As EPA noted in the development of the CAMU rule, when the land disposal restriction (LDR) requirements for as-generated industrial RCRA hazardous wastes are applied in the context of site cleanup, EPA has found they can act as disincentives to decisions to excavate and consolidate cleanup wastes for disposal. EPA also recognized there may be significant physical and chemical differences between "as-generated" RCRA hazardous industrial wastes and cleanup wastes that affect their ability to undergo treatment. EPA indicated it has been its experience that application of the regulations developed for as-generated industrial hazardous wastes, in particular the LDRs and minimum technical requirements, to cleanup wastes often presents remediation project managers with only two choices: to pursue the legal option of capping or treating cleanup wastes in place, thereby avoiding the LDR and certain other management requirements; or, excavating the cleanup waste and treating it to the full extent required by the LDR requirements and disposing of the waste in compliance with the as-generated hazardous waste disposal unit requirements. EPA has found that this situation has created an incentive at certain cleanup sites to select less permanent remedies that involve leaving the cleanup wastes in place.

The CAMU rule promulgated by EPA and subsequently by Ohio EPA (*Ohio Administrative Code* [*OAC*] 3745-57-72) provides for the creation of special units under RCRA to facilitate treatment, storage,

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[2] When the Waste Disposition RI/FS was developed, the available funding projections were used to develop cost estimates for the two action alternatives (Alternatives 2 and 3) as explained in Section 9.3.1 of the RI/FS. An evaluation was performed during the RI/FS to determine the impact declining funds and increasing schedules would have on the cost estimates. Costs for both alternatives would increase as the schedule increases; however, Alternative 2 remains less expensive than Alternative 3, even if the duration triples over the original assumption.

and disposal of hazardous wastes managed for implementing cleanup actions. These special units, known as CAMUs, require designation by the Director of the Ohio EPA. CAMU designations by the Ohio EPA Director are made on a case-by-case basis for cleanup sites, considering site-specific needs and conditions. The Waste Disposition RI/FS indicated that DOE would be seeking a CAMU treatment, storage, and disposal unit designation from the Ohio EPA Director for a potential OSDC at PORTS under *OAC* 3745-57-72.

This supplement to the Waste Disposition RI/FS provides the information for the Director to consider for issuing a CAMU designation for the potential OSDC under Alternative 2. Using the information presented in this Waste Disposition RI/FS supplement, DOE is requesting the following from the Ohio EPA Director:

- Designate the potential OSDC described in Alternative 2 of the Waste Disposition RI/FS as a treatment, storage, and disposal CAMU, if Alternative 2 is selected, contingent on approval of the design plans for the CAMU which demonstrate compliance with all applicable CAMU rules.

- Designate the Impacted Material Transfer Area described in Alternative 2 of the Waste Disposition RI/FS as a storage and/or treatment CAMU, if Alternative 2 is selected, contingent on approval of the design plans for the CAMU which demonstrate compliance with all applicable CAMU rules.

- Concur with the proposed process for identifying principal hazardous constituents (PHCs) and associated treatment standards at PORTS, as described in this document.

- Concur that trichloroethene (TCE) is the only currently identified PHC at PORTS, although additional PHCs could potentially be identified as additional data is collected in future environmental remediation efforts. The proposed process for identifying PHCs, as described in this document, will remain in effect over the life of Alternative 2, if Alternative 2 is selected.

- Concur with a cost-effective adjusted standard of 5,000 mg/kg for TCE that is protective of human health and the environment, based on application of Ohio EPA’s adjustment factors under the CAMU rule, as described in this document. DOE is proposing an adjusted standard of 5,000 mg/kg for TCE in PORTS soils to serve as a ceiling limit after the preparation of the soils, including dewatering if needed, to meet all other waste acceptance criteria. This adjusted standard will help support the productive use of contaminated soil at PORTS as waste-placement fill in the new potential OSDC if Alternative 2 is selected. If soils have TCE concentrations over 5,000 mg/kg after necessary preparation or blending to meet other OSDC operational requirements, the soils would be segregated and further treated in accordance with applicable or relevant and appropriate requirements to meet the 5,000 mg/kg ceiling limit, or otherwise shipped off Site for treatment and disposal.

- Concur that if additional PHCs beyond TCE are identified during the design and implementation of the remediation efforts at PORTS, additional treatment standard(s) or adjusted standard(s) will be developed using the approaches described in this document, subject to Ohio EPA’s approval/concurrence.

- With the approval/concurrence of design plans, and following public notice requirements, Ohio EPA can authorize future storage and/or treatment CAMUs that may be necessary during the design and implementation of the remediation efforts at PORTS. These CAMUs will meet all applicable CAMU and staging pile rule requirements, including design, operation and closure requirements, and plans for such CAMUs demonstrating compliance with all applicable rules, which will be submitted to Ohio EPA for approval/concurrence.

Designation of CAMUs for the PORTS cleanup project will promote the cost-effective D&D of PORTS' structures and remediation of "residual soil" (as defined by the DFF&O). The rule will also allow the project to focus on using contaminated fill for placement of D&D waste in a new potential OSDC, versus the alternative of purchasing clean soil. Considering the entirety of the PORTS cleanup and all potential waste streams anticipated for disposal in the potential OSDC, DOE has conducted economic and other evaluations of the trade-offs of using contaminated soil versus clean purchased soil as fill materials for the OSDC. (Note that all anticipated waste is to be considered as required by the DFF&O RI/FS statement of work [Attachment A of the DFF&O, Section 3.5.1].) This evaluation found that the use of contaminated soil can be done economically in a manner that is safe for the workforce; is protective of human health; and will not exacerbate the contamination already present in the areas in which fill could be contained. The use of contaminated soil from select landfills and contaminated soil associated with groundwater contamination as fill will remove considerable mass of contamination from the environment quickly. It is also projected to save costs in the future by shortening the time required for active groundwater restoration efforts.

The CAMU rule and its flexibilities for developing cost-effective treatment levels is important to DOE both when considering the use of contaminated fill to meet the extensive fill demands (2.65 million cy) anticipated for a potential OSDC, and when evaluating alternatives for other anticipated environmental media cleanup actions under the Ohio Consent Decree or other regulatory authorizations. If a cost-effective TCE treatment level for contaminated fill soil cannot be established through the CAMU rule, PORTS project decision makers may not have the economic motivations to seek contaminated fill soil as a preference, and would therefore be economically inclined to pursue the clean fill option; thus leaving the various compliant landfills in place without consolidation into the state-of-the-art OSDC and continuing with long-term groundwater extraction and treatment operations, as necessary.

This supplement to the Waste Disposition RI/FS contains the information for the Ohio EPA Director to provide the agency's CAMU designations and PHC treatment level determinations for inclusion in the Waste Disposition Proposed Plan and Record of Decision (ROD), if Alternative 2 is selected for the disposal of DFF&O-authorized D&D waste. The CAMU designations and PHC treatment levels adopted by the Waste Disposition ROD would then be available for universal application to all other anticipated non-DFF&O waste streams envisioned for on-Site disposal, using the appropriate regulatory authorizations/approvals for on-Site disposal of the non-DFF&O waste as necessary.

INTRODUCTION

The Waste Disposition Remedial Investigation/Feasibility Study (RI/FS) for the Portsmouth Gaseous Diffusion Plant (PORTS) (U.S. Department of Energy [DOE] 2014) identified that DOE would be seeking a Corrective Action Management Unit (CAMU) designation for a potential on-Site disposal cell (OSDC) that is part of Alternative 2 as a treatment, storage and disposal unit under *Ohio Administrative Code (OAC)* 3745-57-72, which is already included in the applicable or relevant and appropriate requirements (ARARs) of the Waste Disposition RI/FS. During the identification of the preferred alternative for the Waste Disposition decision that occurs after the RI/FS (during preparation of the Proposed Plan), both agencies (DOE and the Ohio Environmental Protection Agency [Ohio EPA]) have agreed that the Waste Disposition Record of Decision (ROD) should designate a potential OSDC as a CAMU, if an OSDC is part of the selected alternative.

To allow the Director of Ohio EPA to designate a potential OSDC as a CAMU, and to then provide an opportunity for public review of that designation, the regulation requires that certain information be provided. This supplement to the Waste Disposition RI/FS provides the information necessary for the Director to designate a potential OSDC as a CAMU in the ROD once public comments are considered.

The CAMU designation of a potential OSDC at PORTS allows for the excavation, consolidation, and on-Site disposal of cleanup wastes that are contaminated with Resource Conservation and Recovery Act of 1976, as amended (RCRA)-regulated hazardous wastes and hazardous wastes constituents into a potential OSDC, provided the wastes meet all waste acceptance criteria (WAC), including all waste treatment standards established for disposal in the CAMU. This supplement includes a discussion of the designated area of contamination (AOC); the information needed for the Director's approval of a potential OSDC and Impacted Material Transfer Area (IMTA) as CAMUs; a discussion of the waste that is considered CAMU-eligible; the process for identifying principal hazardous constituents (PHCs); and the basis for the adjusted standard based on adjustment factors for trichloroethene (TCE), the only PHC currently identified. The supplement also describes the potential for identifying and designating future storage and/or treatment CAMUs that may be necessary during the design and implementation of the remediation efforts at PORTS. DOE seeks the Director's authorization to establish these CAMUs, contingent on approval of design plans, which will meet all applicable CAMU and staging pile rule requirements, including design, operation and closure requirements. These design plans for such CAMUs, demonstrating compliance with all applicable rules, will be submitted to Ohio EPA for concurrence/approval. Whenever excavation and/or disposal of non-decontamination and decommissioning (D&D) waste (soils and wastes under a regulatory category other than the *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* [DFF&O]) is discussed in this document, whether in terms of additional waste material or fill, it is to be understood that additional authorization/approval would be required to undertake this activity.

The data which is evaluated within this supplement to the Waste Disposition RI/FS report for the proposed CAMU has been collected over the last 25 years under the oversight and approval of Ohio EPA and the U.S. Environmental Protection Agency (EPA). The data was collected in response to the requirements of the 1989 Consent Decree; the EPA Administrative Order by Consent, issued on September 29, 1989 (1989 Administrative Order by Consent) and amended on May 11, 1994 (1994 Administrative Order by Consent); and the Administrative Consent Order issued on August 11, 1997 (1997 Administrative Consent Order), which replaced the 1994 EPA Administrative Order by Consent. References to reports generated under these regulatory authorities are presented in the section entitled "Identification of CAMU-Eligible Waste Streams"; the references are located in the Administrative Records and can be accessed at the Environmental Information Center.

The key information necessary for consideration by the Director of the Ohio EPA is presented in the main text of this document. Five appendices have been included to provide more detailed information to support the technical conclusions drawn in the document. The five appendices and their contents are as follows:

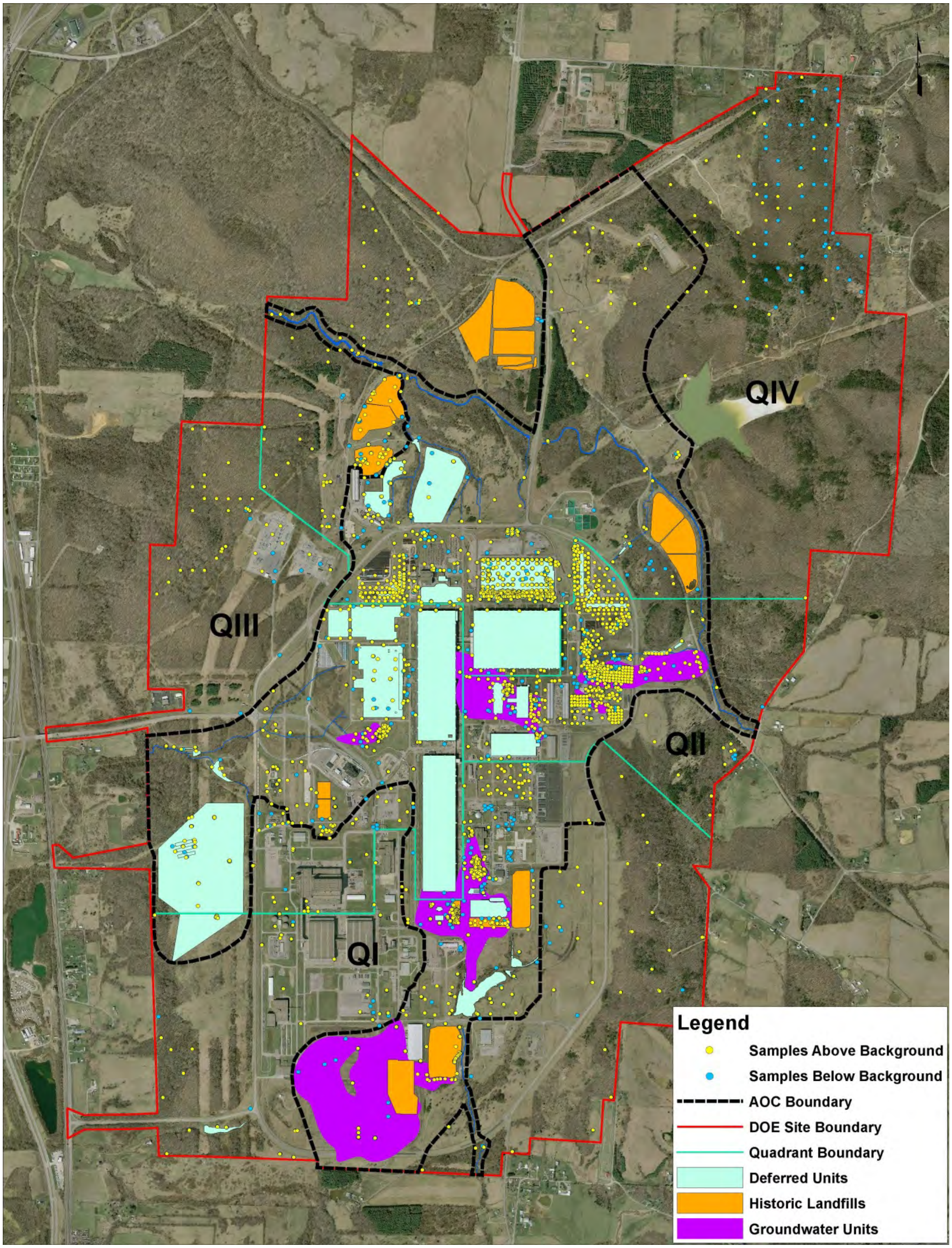
- Appendix A: Area of Contamination Identification
- Appendix B: Comparison Crosswalk of *OAC* 3745-57-72 Requirements to DOE's Proposed Approach for CAMU Designations
- Appendix C: Identification of Anticipated CAMU-Eligible Waste Streams Associated with the PORTS Cleanup
- Appendix D: Identification of Principal Hazardous Constituents
- Appendix E: Adjusted Treatment Standard.

RECOGNITION OF THE AREA OF CONTAMINATION

Along with the CAMU designation, DOE is asking the Ohio EPA Director to recognize a portion of the PORTS Facility as an AOC as a tool for the efficient management and consolidation of remediation wastes generated during implementation of the cleanup actions at PORTS. Through extensive sampling, DOE has defined the horizontal boundaries of the AOC at DOE's Portsmouth reservation as depicted in Figure 1. While the contiguous vertical depth of contamination within this area varies, by using this extensive sampling data, DOE will be able to navigate during the remediation to either ensure remedial activities comport with the AOC Policy when working in contaminated media for purposes of RCRA compliance, or use other appropriate remedial regulatory tools, such as storage/treatment CAMUs as discussed in the document, when remedial activities are outside the scope of the AOC policy. Furthermore, while extensive sample data results have not been gathered from underneath buildings within the potential AOC, DOE believes that, at a minimum, the Director should concur that these areas under the buildings would be within the general horizontal AOC presented. These buildings, as they exist currently, are encompassed by other areas of generally dispersed contamination and therefore fall within the scope of an AOC.

Using the AOC would allow for the unencumbered movement of D&D wastes, waste not within DFF&O (non-DFF&O waste), and other remediation waste within the confines of the AOC, without triggering the generation of hazardous waste that would result in the need for additional handling requirements to be implemented.

The justification for the AOC boundaries is presented in Appendix A. In general, the areas of soil and groundwater contamination identified over 25 years of environmental studies conducted under the Ohio Consent Decree through RCRA Facility Investigations (RFIs), as well as closed landfills, are all included within the boundary of the AOC.



Note: The AOC also includes the wastewater outfall line to the Scioto River.

Figure 1. Area of Contamination Lateral Boundary

DESIGNATION OF TWO CORRECTIVE ACTION MANAGEMENT UNITS AT PORTS

DOE has provided information in this document to: (1) support the designation of the potential OSDC as a treatment, storage and disposal CAMU, if Alternative 2 from the Waste Disposition RI/FS is selected in the Waste Disposition Proposed Plan; and (2) to support the designation of the IMTA associated with the potential OSDC as a storage and/or treatment CAMU.

The locations of both potential CAMUs are presented in Figure 2. In designating the two CAMUs, DOE is providing information to address the criteria set forth in *OAC* 3745-57-72. Appendix B to this supplement provides a crosswalk of the various requirements of the regulations against a demonstration of how the requirements would be met by the potential OSDC and IMTA, based on the technical information contained in the Waste Disposition RI/FS and the Intermediate Design Package previously submitted to Ohio EPA.

It is also recognized in this supplement that the potential exists for the need to designate additional storage and/or treatment CAMUs during remedial design or in the selection of other PORTS cleanup actions outside the DFF&O; these designations, if found to be necessary, would be addressed in future regulatory submittals to Ohio EPA.

Designation of the Potential OSDC as a Treatment, Storage and Disposal CAMU

OAC 3745-57-72(C) requires that the Director consider the following seven elements when designating a treatment, storage and disposal CAMU, which only applies to the potential OSDC. The federal CAMU rule documented in 58 Federal Register (FR) 8658, February 16, 1993, states that the rationale for a CAMU decision generally only needs to address those criteria that are considered determinative for a given CAMU designation. All seven criteria specified in the rule are discussed below.

1) *The CAMU facilitates the implementation of a reliable, effective, protective, and cost-effective remedy.*

   EPA has included this criterion to "*… emphasiz[e] that a CAMU is not intended as a mechanism that will undercut the protectiveness of remedies; rather, CAMUs will facilitate the implementation of more reliable, effective, protective, and cost-effective remedies.*" (58 FR 8658, February 16, 1993). As indicated in the preamble to the rule, EPA does not require detailed cost-benefit or other quantitative analyses.

   There are three potential sources of RCRA-hazardous waste that are anticipated to be encountered in the remediation of PORTS. One is a waste stream from work to be performed under the DFF&O while the others would result from actions conducted under other regulatory authorities. All anticipated waste must be considered as required by the DFF&O RI/FS statement of work (Attachment A of the DFF&O, Section 3.5.1). Each source of RCRA-hazardous waste is described in more detail below.

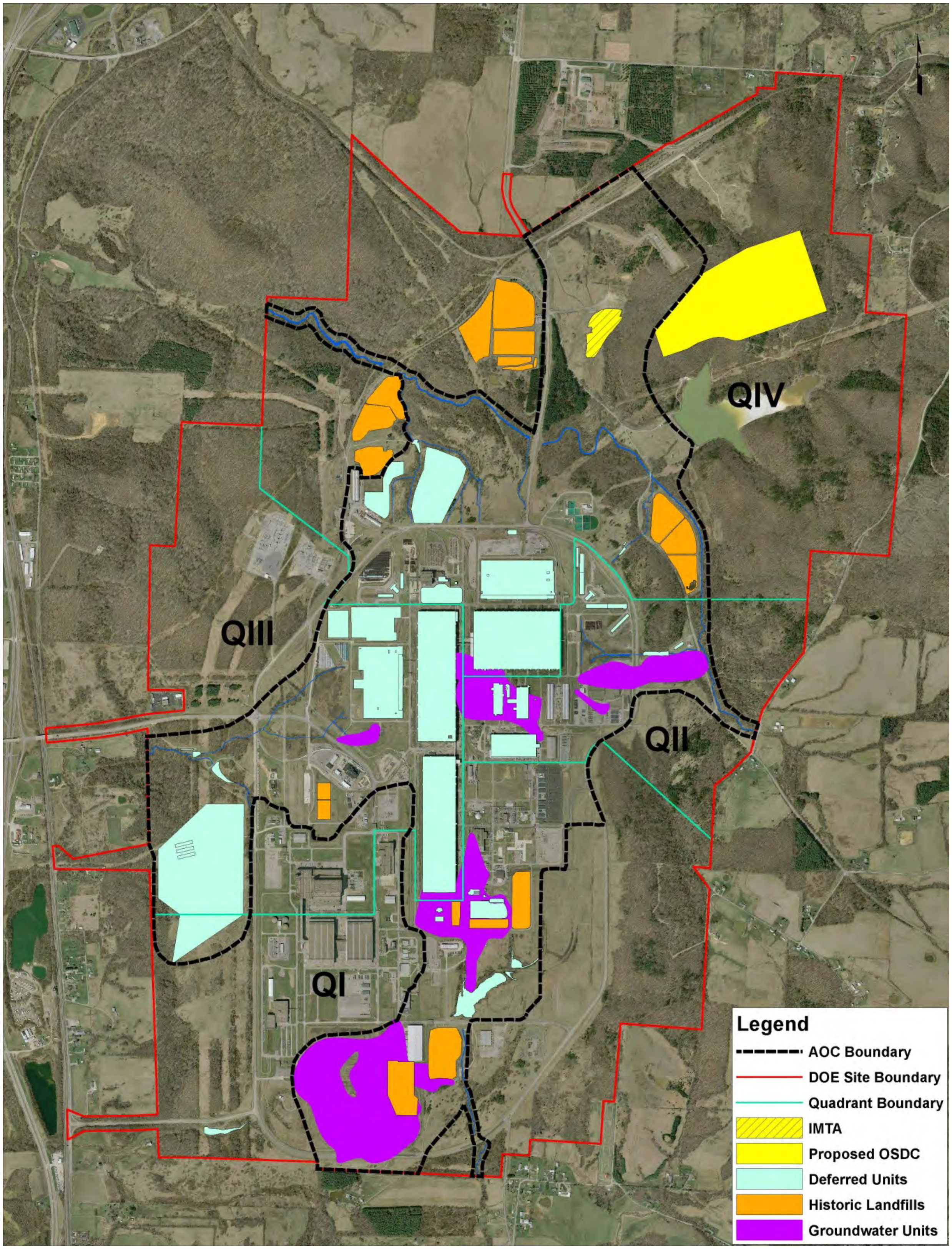


Figure 2. Location of Treatment, Storage, and Disposal CAMU and Treatment and Storage CAMU

1) **RCRA-hazardous wastes encountered during building D&D activities.** Both CAMU-eligible and CAMU-ineligible RCRA-hazardous wastes are anticipated to be produced during building D&D activities, including those wastes that are considered “residual soil” as defined by the DFF&O. Waste created during deactivation or demolition of buildings is considered CAMU-eligible as these actions are managed as part of the implementation of the PORTS cleanup. Current plans are for all CAMU-ineligible RCRA-hazardous waste to be removed from the interior of the buildings prior to demolition and sent off the Site for appropriate treatment and compliant disposal. And while the current plan is to also remove CAMU-eligible RCRA listed or characteristic waste (for example, universal waste) from the interior of the buildings prior to demolition and send that removed waste off Site for disposal or recycling, there is the potential in the future that the off-Site disposal facilities for such waste are no longer available or are not an effective option. The D&D project is likely to be a 30-year project and the cost or availability of off-Site disposal options could change in that time frame. In that case, consideration to dispose of some of this CAMU-eligible waste at a potential OSDC needs to be an option. No waste from the building contents or structures has currently been identified in this category; however, there is a small volume of CAMU-eligible residual soil that is considered as hazardous waste that is planned to be disposed on Site.

2) **Contaminated soil and associated waste contemplated for use as engineered fill for a potential OSDC.** DOE has conducted an economic analysis in support of the Waste Disposition RI/FS that shows that the initial short-term investment cost of nearly $400[3] million to excavate select landfills and groundwater contamination areas to use the materials as OSDC fill (compared to purchasing clean fill at a short-term cost of $28 million) can have advantageous life-cycle cost benefits when the opportunity to reduce long-term groundwater extraction and treatment costs is considered. Groundwater restoration at PORTS is projected in some instances to take 300 years or more. But if contaminated fill is used, over the long term there would be a projected cost avoidance resulting from shortening groundwater restoration efforts. This is because the contaminated fill option provides the opportunity to directly remove contaminant sources from the groundwater contamination areas and to then reduce and ultimately eliminate long-term active groundwater extraction and treatment operations. Use of the cheaper-in-the-short-term clean fill would not provide the opportunity to reduce or eliminate the long-term active groundwater extraction and treatment operations, and is therefore the less preferable option in the long term. Some of the soil anticipated to be used as fill is currently determined by Ohio EPA to contain F-listed RCRA-hazardous waste.

3) **Contaminated soil and associated waste from future Ohio Consent Decree decision(s).** Future remediation decisions that will take place for the deferred solid waste management units (SWMUs) under the Ohio Consent Decree may produce additional F-listed RCRA hazardous waste as well as contaminated media which contains F-listed RCRA-hazardous waste. The future Ohio Consent Decree cleanup actions could result in the excavation of additional contaminated soil and associated wastes to meet final environmental-media cleanup levels established for the deferred SWMUs as part of the Ohio Consent Decree decisions. The future Ohio Consent Decree decisions could also separately contemplate disposal of that soil in a potential OSDC, if one is available from the DFF&O decisions. While most of the soil and associated wastes produced from the Ohio Consent Decree decisions would not be anticipated to be RCRA-hazardous based on characteristic properties, there is the potential for the soil and

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[3] All costs in this paragraph are net present value costs in 2013 base year dollars developed to support the PORTS life-cycle baseline.

associated wastes to either contain F-listed RCRA-hazardous waste or be F-listed RCRA-hazardous waste.

In view of the potential for producing RCRA-hazardous wastes during cleanup as described above, there are two elements of the CAMU rule that can be used to facilitate the implementation of a reliable, effective, protective, and cost-effective remedy at PORTS. The first is the ability to identify PHCs and to focus treatment on these constituents alone. When evaluating treatment of characteristic hazardous waste according to the land disposal restrictions (LDRs), there would be a need to identify all underlying hazardous constituents and also treat any of them that are above 10 times the Universal Treatment Standard. Underlying hazardous constituents do not apply to RCRA-listed waste. The industrial processes at PORTS resulted in a number of different types of environmental contamination including metals, polychlorinated biphenyls, volatile and semi-volatile organics, pesticides, and radioactivity. A considerable addition to sampling costs would occur in order to identify and confirm treatment of underlying hazardous constituents for any RCRA-characteristic wastes. But mostly, the need to consider treatment for several contaminants on varying types of waste streams would lead to such an excessive burden that lower levels of contamination would likely be left in the ground with a reliance on long-term containment and institutional controls. Also, if there is no other choice but to dispose of this material on Site (such as if D&D hazardous waste can no longer be sent off Site), the excessive sampling and treatment requirements would result in an expenditure of limited funds with no benefit.

Secondly, the CAMU rules provide for flexibility when setting treatment standards. The purpose of this flexibility is to recognize the environmental benefits associated with excavation and disposal of contamination that is in the environment and to not offset these benefits with required treatment efforts that do not provide any additional benefits.

Under LDR requirements, if the landfills and contaminated groundwater soil are excavated to be used as fill, it is likely that additional treatment methodologies other than dewatering (required to meet a potential OSDC WAC) would be needed to meet required treatment standards. Such additional treatment options can be $10 million or higher with the additional cost increases associated with delay of D&D activities (see Appendix E), quickly decreasing the cost benefit that use of this material as fill provides DOE, the environment, and the community and decreasing the cost-effectiveness of any future excavation remediation alternatives that are considered. For remaining environmental contamination that is not used as fill, there are still future remediation decisions that are needed. Cost-effective excavation options ensure that more of this contamination is removed from the environment than remains under future controls. And for potential future D&D waste streams that can no longer be sent off Site, the use of treatment would use funds that could be spent providing more benefit to human health or the environment.

Although the current LDRs do allow for treatment standard variances, these variances must be granted by the EPA Administrator before the Ohio EPA Director will recognize them. However, the LDR regulations are more rigid as compared to the flexibilities made available under the CAMU rule. Additionally, the criteria for such LDR variances are not clearly defined. A CAMU would permit a deviation from those levels to allow a more timely, effective, and cost-effective disposal while nevertheless remaining protective (see discussion of *OAC* 3745-57-72 (E)(4)(d) and (e) *infra*). Deviations from treatment levels ensure that future decisions concerning remaining environmental contamination or D&D waste have cost-effective excavation and disposal options available for consideration.

The location of a potential OSDC is outside of areas of most likely future redevelopment. As shown in Figure 2, the potential OSDC is located to the northeast of the industrial facility. It is also proposed to be located over very competent bedrock, greatly decreasing any chance of contamination leaching from the bottom of the treatment, storage, and disposal CAMU. Under the CAMU regulations, the flexibility of the treatment requirements would support cost-effective disposal of waste or use of contaminated fill, increasing the extent of consolidation of contamination into the CAMU. This increase in consolidation would lessen the restrictions on future use of the land within the industrialized portion of the Facility, decreasing DOE's long-term liability and increasing future reuse opportunities.

2) *The management of waste at the designated CAMU will not create unacceptable risk to human health or the environment resulting from exposure to hazardous wastes or hazardous waste constituents.*

"*Since CAMUs are likely to increase the amounts of waste that are remediated, this provision is intended to ensure that remediation waste management activities are conducted so as to control short-term risks that could potentially occur from remedial activities.*" (58 FR 8658, February 16, 1993). As noted in Criterion 1, EPA is not requiring a quantitative risk assessment of the short-term risks associated with a CAMU designation.

Regardless of its CAMU designation, a potential OSDC would need to be built if Alternative 2 is selected. Designating the potential OSDC as a CAMU provides the opportunity that contaminated fill could be used cost-effectively in the operations of a potential OSDC. Therefore, this criterion evaluates the short-term risks associated with construction and operation of a potential OSDC, as well as the impact designating the disposal facility as a CAMU and increasing the opportunity to use contaminated fill would have on those risks.

As described in the short-term effectiveness criteria evaluation in the Waste Disposition RI/FS and summarized here, disposal of waste in a potential OSDC would not create unacceptable risk to human health or the environment. Additionally, none of the short-term effectiveness criteria, as described below, would be negatively impacted by designating the potential OSDC as a CAMU.

Protection of the Community during Remedial Action
DOE has employed rigorous design and operations standards to mitigate potential risk to the public from the presence of a potential OSDC, transportation of hazardous and radioactive waste, operation of a potential OSDC, and windborne dispersion of contaminants. Risk to the public from waste handling and disposal activities at PORTS would be low because of the robust and conservative protective systems supporting all phases of operation. Public access would be restricted at any disposal facilities and at all waste generation, packaging, and handling locations. Selection of appropriate transport routes; compliance with U.S. Department of Transportation (DOT) packaging and other requirements; and adherence to project-specific transportation safety and spill plans would minimize the likelihood of an accident and the severity of a release should an accident occur.

Establishing CAMUs at PORTS would substantially reduce the impact of D&D project-related vehicle traffic on public roadways, since fill would be generated within the PORTS Perimeter Road rather than generated at off-site locations for transport to PORTS. Appendix H to the Waste Disposition RI/FS provided an engineered fill source evaluation for the potential OSDC that compared three principal sources of engineered fill for constructing the potential OSDC: off-site clean fill sources, PORTS clean fill sources, and PORTS contaminated fill sources. (As described in the preamble, the term "engineered fill" or "fill" refers to any material, clean or contaminated, used to fill in void spaces in waste.) Based on the evaluation contained in Appendix H, the Waste Disposition RI/FS adopted the use of contaminated fill from PORTS sources as the representative process option for fill for inclusion in Alternative 2.

Irrespective of which source of fill is used to construct the potential OSDC, it would take approximately 221,000 individual truckload shipments to transport the needed fill materials to the new potential OSDC to support construction activities and satisfy the 2.65 million cy fill demand. This would average to about 35 to 40 trucks each and every working day, over a 25-year construction period. If off-site sources of clean fill are used to satisfy the demand, the 35 to 40 trucks per day truck traffic would need to travel local routes through the neighboring communities. Assuming the local clean sources are within a 5-mile radius of PORTS (with a 10-mile per round trip average distance), this would equate to about 2.2 million road miles of additional traffic over local public highways to satisfy the extensive multi-decade fill demand. However, if contaminated fill can be cost-effectively used to support operations at a CAMU, the truck traffic would remain on PORTS, not impacting the surrounding community.

During construction and operations, DOE would control emissions of fugitive dust to ensure protection of human health and the environment in adherence with ARARs. These actions would minimize community exposure to fugitive dust generated by construction of a potential OSDC and exposure to contaminants from the dispersion of waste by high winds during operation. During construction and operation, fugitive dust generation and other airborne emissions would be monitored. Engineering controls, such as the application of water or chemical dust suppressants and seeding of spoil piles and exposed soils, would be implemented to minimize fugitive dust emissions beyond the facility boundary.

Protection of Workers during Remedial Action

The primary risks to workers from construction of an OSDC and waste handling, transportation, and disposal activities are exposure to contaminants, heavy equipment accidents, and transportation accidents. DOE has thorough health and safety protocols to minimize risks during D&D activities. These activities would be conducted by trained personnel in accordance with ARARs/to-be-considered (guidances), DOT regulations, DOE requirements, approved health and safety plans, and as low as reasonably achievable principles. Risk from exposure during disposal activities would be generally limited because the waste would meet a potential OSDC's WAC, which would include components for worker safety (developed during the design). Worker exposure would be further minimized by compliance with DOT and DOE waste packaging, transport, and handling requirements; the use of shielding and personnel protective equipment (PPE); limits on driver work schedules; and other operational restrictions, such as spacing and distancing, to ensure that radiation doses to workers are kept below 5,000 mrem/year. Therefore, the overall risk to workers from constructing and operating a potential OSDC is low.

Designating the potential OSDC as a CAMU should not notably increase risk to workers. Although there is the potential for an increase in accidents as a result of excavating contaminated soil and landfills as sources of fill, these risks can be adequately mitigated by standard health and safety protocols. DOE has excavated other landfills across the complex successfully. Additionally, with more flexibility granted to treatment standards, there is the potential that fewer treatment activities may be needed or less waste would need to be sent off Site, decreasing the potential exposure to radionuclides and other contaminants to workers involved in the treatment, additional handling, or long-haul transportation activities which offsets the increased risk from excavating and transporting contaminated soil and landfills.

Short-term Environmental Effects
The potential for short-term environmental impacts from the construction and operation of the potential OSDC would be posed primarily by construction activities, spills during transportation and handling of wastes or leachate, releases during decontamination operations, other operational releases, and potential OSDC capping activities. Short-term environmental impacts would be minimized by use of best management practices, including engineered and administrative controls.

The short-term environmental risk from transportation would arise primarily from the potential for spills during waste shipment and impacts to air quality resulting from commuter, construction and operations traffic. Adverse environmental impacts in the event of a spill during waste transport would be minimal because wastes would not be in liquid form, waste volumes per shipment would be small, contaminant concentrations would be low for most waste streams, waste would be properly packaged, and spill plans would be quickly implemented if a spill occurred. Safeguards would be implemented to ensure protectiveness during waste transport. Leachate would be conveyed in piping, with secondary containment where releases are possible. Impacts to air quality, surface water resources, and groundwater are discussed below.

Air quality. Impacts to air quality from the construction and operation of a potential OSDC would result from the increase in generation of fugitive dust by earthmoving activities such as during construction. During construction and operation, there would be significant earthmoving activities at the cell. A number of large trucks, including tractor-trailer rigs, large dump trucks, and excavation equipment, would deliver soil and waste daily. The peak level of particulate emissions would be expected during the first 2 years of construction, when the majority of land clearing and fill activities take place. Clearing of land and construction of a potential OSDC and support facilities may result in fugitive dust being visible at facility boundaries. Operations at the potential OSDC or at an IMTA may release some contaminants into the air, but compliance with ARARs, such as Ohio EPA fugitive dust limits would ensure compliance with federal National Ambient Air Quality Standards. Engineering controls, such as the application of water or chemical dust suppressants and seeding of spoil piles and exposed soils, could be implemented to minimize fugitive dust emissions.

Designation of the potential OSDC as a CAMU would not increase the impacts to air quality beyond the discussion above for the potential OSDC. Although there may be a limited release of volatile compounds during the excavation of contaminated fill, there is also less treatment required for residual soil, thereby reducing the air releases from treatment of this D&D waste. During the 2011 X-701B Interim Remedial Measure excavation action, which is a similar excavation action to that being proposed, DOE used air emission controls and calculated releases within the area. Based on that experience, with appropriate controls, the worst case average daily TCE concentration can be maintained at less than one-third of the Ohio EPA de minimus levels for air emissions as set under *OAC* 3745-15-05(B).

Surface water resources. A total of 14,335 linear ft of streams (Class I, II, and IIIA) would be directly impacted by construction of a potential OSDC and supporting infrastructure while additional lengths could be indirectly impacted from changes in water quality or quantity. Roughly 0.11 acres of wetlands would be directly affected with another 2 acres of wetlands in Study Area D having the potential for impact during construction activities. DOE is evaluating impacts of the proposed actions for potential adverse effects to streams and wetlands and is developing potential mitigation measures for any adverse effects where avoidance or minimization is not practicable.

Upon closure of the OSDC, much of the area would be recontoured for drainage following removal of requisite infrastructure, except for the area beneath the OSDC footprint.

Potential impacts to surface water resources could result from sediment loading to surface water bodies or migration of contaminants. Land clearing and construction activities would expose varying areas, depending on the location selected and the ultimate size of the facility. The potential impacts to surface water resources would be minimized by using standard erosion controls, such as siltation fences and buffer zones of natural riparian vegetation, during construction activities.

Potentially contaminated runoff from a potential OSDC, water used for decontamination, water from the leachate detection/collection system, contaminated runoff from an IMTA during storage, size reduction, or decontamination efforts, and other wastewater would be collected in storage tanks. This water would be sampled and conveyed to an appropriate treatment facility, as required. The potential for impact to surface water resources from migration of contaminants from a potential OSDC in groundwater would be exceedingly low because of engineered and active controls.

Potential impacts to surface water would be minimized by only constructing the portions of a potential OSDC that are planned to be used in the immediate future. By not having the entire disposal facility open at one time, the amount of disturbed area would be minimized.

Designation of the potential OSDC as a CAMU and the resultant opportunity to use contaminated fill could have a greater impact on surface water quality in the near term over that impacted by the construction of the potential OSDC using clean fill alone. Excavation of contaminated landfills and plume areas for use as fill could have an impact on other streams or wetlands in the area. Streams may need to be diverted temporarily and some wetlands may be destroyed. Any impacts to the streams or wetlands resulting from this excavation of contaminated fill would be mitigated in accordance with ARARs. However, in the long term, the consolidation of this contamination in the fill into an engineered disposal facility would limit future migration potential of contamination to surface water bodies from runoff, erosion, or discharge from underlying groundwater contamination, thereby improving surface water quality.

Groundwater resources. During OSDC construction, there may potentially be minor releases of contamination to the environment. Contaminant sources include spills of D&D waste, spills of oil and diesel fuel, releases from transportation or waste handling accidents, and accidental releases of leachate from the disposal cell. However, compliance with an approved Erosion and Sedimentation Control Plan and a spill plan would mitigate potential impacts from surface spills. Engineered controls and active controls, including the leachate collection system, would reduce the potential for impact to groundwater resources that could result from contaminant migration during construction and operation of the disposal cell.

The designation of a potential OSDC as a CAMU and the resultant opportunity for use of contaminated fill would result in improvements to groundwater resources. In the event that contaminated soil were used as fill, the primary and secondary continuing sources of groundwater contamination would be removed from the environment and placed in an engineered facility. The overall time and cost required to meet remediation objectives for groundwater would be significantly reduced; therefore, contaminated groundwater would be beneficially impacted by the designation of a potential OSDC as a CAMU.

3) *The CAMU includes uncontaminated areas of PORTS only to the extent inclusion of such areas is more protective than managing the waste at contaminated areas.*

EPA intended for this criterion to "*… ensure that any land area of a facility that is not already contaminated … will be included within a CAMU only if remediation waste management at such an area will … be more protective than management of such wastes at contaminated areas of the facility.*" (58 FR 8658, February 16, 1993).

Four locations were evaluated for siting a potential OSDC (treatment, storage, and disposal CAMU). More detail on the conditions of each of the locations can be found in Appendix D of the Waste Disposition RI/FS. Three of the locations, Study Areas A, C, and D were located in uncontaminated areas and Study Area B was located in a contaminated area. Any properly designed OSDC would be considered protective of human health and the environment because of the design of the impermeable cap and liner systems. However, within the compliance timeframe of 1,000 years or longer, the natural hydrogeologic conditions at each location must be further analyzed in differentiating the degree of protectiveness of the different study areas. Hydrogeologic conditions at each location determine the depth and migration (direction and rate) of groundwater. In the event contaminants migrate through the liner over time, the fate and transport of those contaminants will depend on the hydrogeologic and geochemical conditions of the underlying strata. While a shallow groundwater zone may exist within the regolith and weathered/jointed bedrock, most of this zone would be removed during construction of a potential OSDC. Table 1 provides a comparison of the protectiveness of each of the study areas relative to each other.

Table 1. Comparison of Protectiveness at Each Study Area

Criteria	Study Area A	Study Area B	Study Area C	Study Area D
Hydrogeologic Conditions	Study Area A overlies the ancestral river valley with the Gallia sand aquifer. Groundwater moves through the sand towards nearby surface water discharge in Big Run Creek. Minford water table is approximately 15 ft below surface.	Study Area B, similar to Study Area A, overlies the ancestral river valley with the Gallia sand aquifer. Groundwater moves through the sand towards nearby surface water discharge in Little Beaver Creek. Minford water table is less than 15 ft below surface.	Study Area C is underlain by low permeability bedrock. The uppermost aquifer at this study area, the Berea sandstone, is overlain by more than 100 ft of low permeability Cuyahoga and Sunbury shale.	Study Area D is similar to Study Area C in that it is underlain by low permeability bedrock. The uppermost aquifer at this study area, the Berea sandstone, is overlain by up to 100 ft of low permeability Cuyahoga and Sunbury shale.
Contaminant Fate and Transport	pWAC modeling indicated Study Area A had travel times to reach peak dose similar to Study Area B (a few organic compounds reached the point of exposure in less than 1,000 years).	pWAC modeling indicated Study Area B had the fastest travel times to reach peak dose compared to the other locations (a few organic compounds reached the point of exposure in less than 1,000 years).	pWAC modeling indicated Study Area C had travel times to reach peak dose several times longer than either Study Areas A or B. No constituents reached peak dose in less than 1,000 years and many constituents took more than 150,000 years.	pWAC modeling indicated Study Area D travel times to reach peak dose several times longer than either Study Areas A or B. No constituents reached peak dose in less than 1,000 years and many constituents took more than 150,000 years.

Table 1. Comparison of Protectiveness at Each Study Area (Continued)

Criteria	Study Area A	Study Area B	Study Area C	Study Area D
Protectiveness Compared to Other Study Areas	Similar protectiveness as Study Area B; less protective than Study Areas C and D	Similar protectiveness as Study Area A; less protective than Study Areas C and D	Similar protectiveness as Study Area D; more protective than Study Areas A and B	Similar protectiveness as Study Area C; more protective than Study Areas A and B

DOE = U.S. Department of Energy
RI/FS = remedial investigation/feasibility study
pWAC = preliminary waste acceptance criteria (model results reported in the waste disposition RI/FS Work Plan [DOE 2012])

Based on the above analysis, which is detailed in Appendix D of the Waste Disposition RI/FS, Study Areas C and D are more protective of human health and the environment than Study Areas A and B; therefore, Study Areas A and B were eliminated from further consideration in the context of the siting study. The contaminated area (Study Area B) had one of the least protective siting conditions.

Based on the overwhelming benefits offered by the underlying geology and on the best compliance with Ohio EPA siting criteria, Study Area D was selected as the representative location for a potential OSDC in the Waste Disposition RI/FS. All of these beneficial factors are discussed in full detail in Appendix D of the RI/FS. Highlights of the beneficial factors discussed in Appendix D include the following:

- Located on geotechnically stable ground, situated at a high point on PORTS
- Drainage is away from the area, not onto the area, decreasing the clean water that must be handled
- Underlain entirely by 100 ft or more of competent shale bedrock with low permeability
- Located 100 ft or more above the local groundwater table
- No significant pathway to the regional aquifer in the Berea Sandstone Formation
- Sufficiently large footprint to provide the needed capacity
- Not located in an area requiring major D&D and soil remediation activities, thereby allowing early construction of a potential OSDC with minimal coordination with D&D or remediation required.

Although Study Area D requires a commitment of uncontaminated land for long-term disposal, it is still preferable when compared to the contaminated area available at PORTS. The only contaminated area potentially available that could be suitable (Study Area B) has the following undesirable drawbacks: existing facilities that would require demolition prior to construction of a disposal cell, a shallow groundwater table, and WAC development modeling that has indicated that contaminants would migrate readily to the groundwater should the liner fail.

In addition to the siting and geological benefits discussed above, locating the potential OSDC in Study Area D and outside of the area of interest for reuse also supports the future reindustrialization objective of the local community, which is an added benefit for consideration in locating the potential OSDC.

Study Area D will be adopted as the location for the potential OSDC through the Waste Disposition ROD if Alternative 2 is selected. That decision will commit the uncontaminated land associated with the potential OSDC for long-term disposal. Designating the potential OSDC as a CAMU does not incrementally increase the extent of uncontaminated area impacted by long-term disposal beyond that already committed by Alternative 2 in the absence of a CAMU. Additionally, there is the potential for decreasing areas of contamination elsewhere at PORTS by using contaminated fill at the potential OSDC.

4) *Wastes in the CAMU that remain after closure would be managed and contained to minimize future release, to the extent practicable.*

EPA intended this criterion to "*… consider… whether long-term reliability and effectiveness will be ensured through the implementation of a CAMU, particularly when it is necessary to leave waste in place after implementation of remedial activities.*" (58 FR 8658, February 16, 1993). The long-term (i.e., post-closure) reliability and effectiveness of CAMU-related actions must be considered.

As described in the long-term effectiveness criteria evaluation in the Waste Disposition RI/FS and summarized here, disposal of waste in a potential OSDC that is designated as a CAMU would not create unacceptable risk to human health or the environment post-closure. As discussed below, the same robust geologic and engineering factors that make the potential OSDC effective would not be negatively impacted by the designation of the potential OSDC as a CAMU. Designating the potential OSDC as a CAMU enhances the opportunity for contaminated fill to be used for waste placement and removes the contaminated material from the environment from where it is presently located. Because of the robust engineering and geologic factors for the potential OSDC, use of contaminated fill would be protective of human health and the environment.

The siting and engineering elements considered for a potential OSDC are focused on developing a disposal option that minimizes future contaminant releases both during operations and after closure. The modeled WAC analysis conducted for the Waste Disposition RI/FS demonstrated limited mobility of potential contaminants from the bottom of a potential OSDC because the preferred location is over competent bedrock. The liner and cover designs included in the intermediate design package exceed the regulatory requirements for a treatment, storage and disposal CAMU, as summarized in Table 2. Design of the leachate collection system to be submitted to Ohio EPA will contain the features detailed in Table 2. The groundwater monitoring and post-closure care elements to be specified in the final design package would also meet the requirements.

Table 2. OSDC Intermediate Design Summary

Design Element	CAMU Requirements	Potential OSDC Design
Liner	1) Composite liner consisting of: - An upper FML with a minimum thickness of 60 mil for HDPE or 30 mil for all other FMLs that is installed in direct and uniform contact with the lower compacted soil component. - A lower component consisting of at least a 2-ft layer of compacted soil with a hydraulic conductivity of no more than 1×10^{-7} cm/s.	1) Double liner and leachate collection system consisting of: (a) a composite liner consisting of a 3-ft compacted low-permeability soil with a permeability of 10^{-7} cm/s, a geo-composite (bentonite) liner, and a 80-mil HDPE geomembrane, and (b) an upper liner of an 80-mil HDPE geomembrane, a geo-composite (bentonite) liner, and a leak detection layer consisting of geotextile, 1 ft of drainage gravel, and a perforated pipe. The components of the potential OSDC design meet or exceed the design requirements of a RCRA Subtitle C-type liner and would not be affected by the CAMU regulations.
	2) Leachate collection system that maintains less than a 30-cm (12-in.) depth of leachate over the liner (40 *CFR* 264.552[e][3], *OAC* 3745-57-72 [E][3][a])	2) Leachate collection system consisting of 1 ft of drainage gravel, leachate collection pipes, and geotextile maintains less than 30-cm depth of leachate over the liner.
Cap	CAMUs with constituent concentrations above remedial levels or goals applicable to PORTS; cover the CAMU with a final cover designed and constructed to meet the five performance criteria: - Provide long-term minimization of migration of liquids through the closed unit - Function with minimum maintenance - Promote drainage and minimize erosion or abrasion of the cover - Accommodate settling and subsidence so that the cover's integrity is maintained - Have a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present. (40 *CFR* 264.552[e][6][iv], *OAC* 3745-57-72[E][6][d][i])	A potential OSDC design includes a 9-ft final cap over the entire facility consisting of a contouring layer over the waste, a 2-ft low permeability compacted clay layer, a geo-composite (bentonite) liner, an 80-mil HDPE geomembrane, geotextile protective layer, a 1-ft cover drainage layer, a 3-ft bio-intrusion barrier, a 0.25-ft chock stone layer, a 0.5-ft granular filter layer, a 1.5-ft vegetative soil layer, a 1-ft top soil layer, and a vegetative cover with native grass. This design is more than required by the RCRA Subtitle C-type cap design requirements. The components of the potential OSDC design meet or exceed the design requirements of a RCRA Subtitle C-type cap and would not be affected by the CAMU regulations. The impermeable geomembrane layer within the cap would provide equal initial permeability to the bottom liner system. Both systems rely on geomembrane layers to provide practically impermeable barriers of water. The cap could also be repaired or replaced if necessary in the future, unlike the bottom liner system for which repair or replacement would not be practical or even possible. Therefore, the cap would be able to maintain longer term low permeability beyond the time frame expected for the bottom liner system.

Table 2. OSDC Intermediate Design Summary (Continued)

Design Element	CAMU Requirements	Potential OSDC Design
Monitoring	1) Continue to detect and to characterize the nature, extent, concentration, direction and movement of existing releases of hazardous constituents in ground water from sources located within the CAMU; and 2) Detect and subsequently characterize releases of hazardous constituents to groundwater that may occur from areas of the CAMU in which wastes will remain in place after closure of the CAMU; and 3) Require notification to the Director and corrective action as necessary to protect human health and the environment for releases to groundwater from the CAMU.	There is no existing release of hazardous constituents in groundwater from sources located within the proposed OSDC footprint. OSDC groundwater monitoring for each cell would consist of up-gradient and down-gradient wells installed in clusters or nested to monitor three different elevations: the Berea Formation, the 680-sandstone layer (in the Cuyahoga Formation), and the 720-sandstone layer (in the Cuyahoga Formation). Lateral monitoring points directly under the lowest point of each cell liner system would also be installed. A potential OSDC groundwater monitoring plan would require Ohio EPA notification of any releases. The groundwater monitoring plan would state that a corrective action plan would be submitted to Ohio EPA for review/concurrence, as necessary, to ensure protection human health and the environment.
Closure and Post-closure	Control, minimize or eliminate, to the extent necessary to protect human health and the environment, for areas where wastes remain in place, post-closure escape of hazardous wastes, hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products to the ground, to surface waters, or to the atmosphere.	The potential OSDC design would minimize the need for further maintenance; and control, minimize or eliminate, to the extent necessary to protect human health and the environment, for areas where wastes remain in place, post-closure escape of hazardous wastes, hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products to the ground, to surface waters, or to the atmosphere. This would be achieved by siting of the facility at the best geological and hydrogeological location at PORTS and incorporating the best design approach and construction materials available for long-term containment of hazardous and other wastes to be generated during D&D and environmental remediation at PORTS.

CAMU = Corrective Action Management Unit
CFR = Code of Federal Regulations
D&D = decontamination and decommissioning
FML = flexible membrane liner
HDPE = high-density polyethylene
OAC = Ohio Administrative Code
Ohio EPA = Ohio Environmental Protection Agency
OSDC = on-Site disposal cell
PORTS = Portsmouth Gaseous Diffusion Plant
RCRA = Resource Conservation and Recovery Act of 1976, as amended

CAMU-eligible wastes, treated as appropriate, would be placed in a potential OSDC designed to isolate waste from the environment and significantly reduce the possibility of intrusion into the waste cell or migration of contaminants away from the facility, representing an overall collective decrease in residual risk. By design, meeting the facility WAC would ensure that the total excess lifetime cancer risk (ELCR) from the cell would be less than 1×10^{-5}, the total noncarcinogenic risk hazard index would be less than 1 to future residents living adjacent to the facility, and the underlying groundwater would be protected by ensuring maximum contaminant levels are not exceeded.

Modeling to support draft modeled WAC selection illustrates that Study Area D has geologic characteristics that, in concert with the engineering design, do not allow for contaminants at unacceptable levels to migrate from the cell to beyond the waste boundary within a period of 1,000 years, assuming that the facility performs according to projections (Appendix I of the Waste Disposition RI/FS). Because the input parameters used for these calculations were based on the assumption that man-made materials would fail and are likely to overestimate actual future risks from disposed waste, the modeled results are inherently conservative.

Engineered controls would be built into a potential OSDC to prevent exposure to contaminants and to prevent, detect and mitigate contaminant releases. The flexible membrane liner and geosynthetic clay liner components of the primary liner would control releases of leachate to groundwater for their design life, which is at least 200 years. The active leachate collection system above the primary liner and the leak detection system below would be effective until the volume of leachate generated is minimal and stable. Long-term control of leachate release would be provided by the secondary liner and geologic buffer and the passive leachate treatment system; these controls would last at least for their design life. An assessment was conducted to estimate the impact on adjacent surface water bodies if the leachate collection or treatment system were to fail and leachate were released directly into the environment. An estimated curie content in the waste in the cell, a TCE mass, and an estimated flow of future leachate (after capping) were used to estimate a concentration of contaminants in the leachate that could be released untreated from a potential OSDC. The entire volume of leachate was then assumed to directly discharge to Little Beaver Creek. Resultant estimated concentrations (see Appendix K of the Waste Disposition RI/FS for method and results) were significantly below recreational risk-based levels, and no impact to the surface water quality would occur, even under a failure scenario.

The disposal cell cap would prevent airborne releases and direct contact with or exposure to the waste or any contaminated fill. The thickness of the cap (10 ft) and the presence of the biointrusion layer would discourage inadvertent penetration by humans and would prevent or minimize damage from burrowing animals and tree roots. The disposal cell and cap would be designed to remain stable under expected environmental conditions, including possible erosion and earthquakes, for the foreseeable future. Aside from intentional human disturbance or major global climate changes, no credible scenarios for exposing human or ecological receptors to the waste have been identified.

Institutional controls would prevent access to the on-Site disposal facility and use of local groundwater. Institutional controls would continue for an indefinite period, and land use restrictions would be permanent. Monitoring to determine the effectiveness of the primary controls would continue indefinitely.

The final cap is designed to resist erosion with minimal maintenance, and only extensive erosion would breach containment. Surveillance and maintenance of the cap, however, is planned to stop erosions before they could become extensive.

5) *The CAMU expedites the timing of remedial activity implementation.*

EPA has stated a preference to use CAMUs if they will expedite the timing of remedy implementation by eliminating unnecessary delays. EPA states though that CAMUs may not always result in remedies that take less time, so EPA "*… only requires that a CAMU expedite remedial time frames when it is appropriate and practicable, in consideration of the other remedial objectives for the facility.*" (58 FR 8658, February 16, 1993).

Designation of a disposal CAMU and providing relief from LDR requirements at PORTS beneficially affects timing in two ways when considering other remedial objectives of the facility:

1) Provides fill when needed at the generation rate required to support the pace of D&D waste generation. This prevents the D&D schedule from being impacted by a lack of fill.

2) Groundwater restoration time is significantly decreased by decades because the primary and secondary sources of contamination can be removed from the environment during the generation of that fill.

Designating a potential OSDC as a CAMU provides the opportunity to select other protective treatment standards for RCRA-hazardous constituents. Initial estimates in Appendix E (Section E.1.5) suggest that the selection of other protective and appropriate treatment standards may save $10 million and 2 years of effort. Because the competent bedrock and engineering design of a potential OSDC at PORTS can mitigate additional handling requirements for contaminated media that may be used as OSDC fill, there is an opportunity to expedite the generation of OSDC fill. Lower costs associated with handling fill allows available funds to be used for increasing the protective state of PORTS by focusing efforts on excavation, D&D, and disposal actions thereby expediting removal of significant contamination from the environment.

If soil contaminated from groundwater contamination is excavated and used as fill, there is expected to be a shorter time required for final groundwater remediation efforts as the major secondary source of groundwater contamination would be consolidated in a potential OSDC. By removing the source, improving the ability to extract groundwater, and reducing the need for active groundwater restoration, schedule savings could be as high as several hundred years.

6) *The CAMU uses, to the extent appropriate, treatment to reduce the toxicity, mobility or volume of waste remaining after closure of the CAMU.*

EPA intended this criterion to require, as appropriate, the use of "*… treatment technologies (including innovative technologies) to enhance long-term effectiveness of remedial actions at the facility by reducing the toxicity, mobility, or volume of waste that remains after closure of the CAMU.*" This criterion is analogous to the preference under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 for treatment-based remedies. EPA has clarified that "*…this criterion does not preclude remedial actions that do not employ treatment, as long as they are capable of ensuring long-term effectiveness.*" (58 FR 8658, February 16, 1993). EPA provides an example that in a situation involving large volumes of low concentration contaminated soils or other wastes, there is the discretion to evaluate containment-based remedial approaches.

Technical appropriateness is also used in one of EPA's definitions of technical impracticability. Technical impracticability is defined to include technical infeasibility or inordinately costly from the National Contingency Plan and unachievable and technically inappropriate under the RCRA LDR treatment standard requirements (67 FR 2962, January 22, 2002).

In general, PORTS has large volumes (over 1 million cy) of low-concentration contaminated waste. Additionally, the waste takes many forms (building materials, soil, concrete, etc.). In these conditions, the use of final containment instead of many different treatment technologies is more cost-effective. The Waste Disposition RI/FS concluded that disposal was the only viable final alternative for this waste. However, there is likely to be some treatment needed to meet the WAC of a potential OSDC. In particular, dewatering of saturated soil and other waste is needed to avoid placement of free liquids in the cell. The water that is separated would then be treated in the existing groundwater treatment facilities and/or supplemented with additional systems, reducing the volume and mobility of the contaminants (primarily anticipated to be volatile organic compounds). At this time, no other treatment technologies are anticipated to be used, but if other PHCs are identified, additional treatment options may be used.

7) *The CAMU, to the extent practicable, minimizes the land area of the facility upon which wastes will remain in place after closure of the CAMU.*

   EPA intends, through this criterion, to "*… promote consolidation of remediation wastes into smaller discrete areas of the facility, that are suitable as long-term repositories for the wastes, and which can be effectively managed and monitored over the long term.*" (58 FR 8658, February 16, 1993).

   To accommodate the estimated 5 million cy of potential capacity needed, an area roughly 100 acres in size would be dedicated to long-term disposal. The buildings and structures that would be demolished and disposed in the potential OSDC are primarily in the industrialized area of PORTS. The removal of the buildings and eventual remediation of the associated contaminated soil and underlying groundwater would consolidate roughly 1,000 acres of industrialized area where the sources of contamination are found into the 100-acre CAMU. In addition, roughly 30 acres of a total of 90 acres of landfills may also be consolidated into the CAMU by using the associated soils as fill.

Designation of the Storage and/or Treatment CAMU

CAMUs that are used for storage and/or treatment only and do not exceed the staging pile time limits (2 years) are subject to the performance criteria and design, operating, and closure standards for staging piles as defined in *OAC* 3745-57-74, which is an ARAR in the Waste Disposition RI/FS. They would not be subject to CAMU designation criteria nor the CAMU design, treatment, groundwater monitoring and corrective action, and closure requirements. However, those units for which the staging pile limits must be exceeded are subject to the CAMU rule which requires the establishment of time limits for operation that are no longer than necessary to achieve a timely remedy selected for the waste. These units also must comply with the design and operating requirements for CAMUs in which waste will remain after closure along with the performance criteria and design, operating and closure standards for staging piles as defined in *OAC* 3745-57-74.

A waste staging area, called the IMTA, would serve as a temporary storage area for incoming waste. This area would be used if the rate of incoming waste deliveries exceeds the rate of waste placement in the disposal facility, as could occur during inclement weather. It would also be used to stockpile waste to allow the most economical placement of waste requiring fill and waste that can be used as fill. The IMTA is assumed to be constructed of the following: 2-ft compacted base followed by a geotextile cushion, 80-mil geomembrane liner, geonet, geotextile fabric, and finally a 1-ft soil protective layer graded to drain. The 7-acre IMTA would be graded so water would flow by gravity to a sump pump system. The collected impacted water would be pumped to the interim leachate treatment system and be discharged when discharge limits are met.

The IMTA would contain waste throughout the operational life of the potential OSDC. That time frame cannot be established at this time but will take considerably longer than the staging pile limits of two years. DOE requests that the operational time limits for the storage and/or treatment CAMU be extended and tied to the operational time frame of the OSDC rather than an absolute duration. An operational time limit extension is also requested for all other CAMUs which are established under this authorization, due to the massive nature of this cleanup project and the extended time period for this cleanup (in excess of 30 years). The specific extension timeframes will be presented in design plans for each CAMU for approval/concurrence by Ohio EPA.

The IMTA will be designed and operated in accordance with all ARARs, including the CAMU rule.

IDENTIFICATION OF CAMU-ELIGIBLE WASTE STREAMS

EPA defines CAMU-eligible waste as "*[a]ll solid waste and hazardous wastes, and all media (including ground water, surface water, soils, and sediments) and debris that contain listed hazardous waste or that themselves exhibit a hazardous characteristic and are managed as part of the implementation of cleanup. As-generated waste (either hazardous or nonhazardous) from ongoing industrial operations at a site are not CAMU-eligible wastes.*" (67 FR 2962, January 22, 2002). As discussed in detail in the 1993 CAMU rule preamble, EPA clarified that "*the definition of remediation waste includes nonhazardous solid waste…[although] management of such wastes would not require the designation of a CAMU.*"

EPA also clarified that soil or other materials contaminated by product spills or releases from ongoing industrial operations are not considered as-generated waste and, as such, are CAMU-eligible when managed for implementing cleanup (67 FR 2962, January 22, 2002). However, EPA provides a provision to "kick out" certain otherwise CAMU-eligible waste streams where noncompliance with applicable RCRA regulations "likely contributed to the release of the waste". CAMU-eligible waste is not limited only to historical waste or contamination; waste generated during the cleanup of current releases is also considered CAMU-eligible. The cleanup of contaminated soils or similar materials is not considered by EPA to be an ongoing industrial process, even if the contamination itself derives from an ongoing industrial process.

EPA also clarified that closure of land-based units (e.g., landfills and surface impoundments) by removal to be "cleanup" for such permanent land disposal units (67 FR 2962, January 22, 2002). Therefore, waste removed from closed permanent land-based units are considered wastes "managed for implementing cleanup" and are CAMU-eligible. EPA indicated that management of containers (even if they are substantially intact) that are excavated from land-based units during the course of cleanup are allowed to be managed in a CAMU.

In addition to disallowing waste generated during ongoing industrial operations, EPA has prohibited management in a CAMU of wastes found during cleanup of intact or substantially intact containers, tanks, or other non-land-based units.

Appendix C presents the various known waste streams at PORTS and estimated volumes of these waste streams. The volumes are divided by the volumes estimated during the Waste Disposition RI/FS to be disposed on Site (in the CAMU) and those volumes estimated to be disposed off Site. Consistent with the definition of CAMU-eligible waste in the CAMU rule, building waste created under the DFF&O, which is considered to be waste generated during the implementation of a cleanup effort, is CAMU-eligible waste. These volumes are subject to change as remedial actions are implemented and more information is obtained. All waste that results from building demolition as part of the remediation of PORTS, contaminated soil or groundwater remediation, and landfill excavation is considered CAMU-eligible, whether or not it is a hazardous waste. PPE and other secondary waste streams (including leachate treatment wastes) are also considered CAMU-eligible as they are generated during remediation efforts and not during industrial operations. The waste at PORTS not considered to be CAMU-eligible would be hazardous waste stored in above-ground tanks and above-ground tank systems, cylinders, containers or other containment units. Therefore, all CAMU-eligible waste could be stored and/or treated at the potential IMTA and disposed at the potential OSDC.

Appendix C also presents the reasonably available information requested in the rule for each waste stream: (1) the origin of the waste and how it was subsequently managed (including a description of the timing and circumstance surrounding the disposal and/or release), (2) whether the waste was listed or identified as hazardous at the time of disposal and/or release, and (3) whether the waste was subject to the land disposal requirements of 40 *Code of Federal Regulations (CFR)* Part 268 at the time of disposal and/or release. This information has been gathered from the earlier RFI efforts, the Process Buildings and Complex Facilities D&D Evaluation Project (Process Buildings) RI/FS, and other previous environmental investigations.

The data which is evaluated within this supplement to the Waste Disposition RI/FS report for the proposed CAMU has been collected over the last 25 years under the oversight and approval of Ohio EPA and EPA. To place this in context, in response to the requirements of the 1989 Consent Decree, the EPA Administrative Order by Consent issued on September 29, 1989 (1989 Administrative Order by Consent), and amended on May 11, 1994 (1994 Administrative Order by Consent), and the Administrative Consent Order issued on August 11, 1997 (1997 Administrative Consent Order), which replaced the 1994 EPA Administrative Order by Consent, DOE has conducted numerous environmental investigations at PORTS. These investigations have resulted in reports, corrective action alternatives studies, implementation of interim measures, approved decision documents, and implementation of several corrective actions. The 1989 Consent Decree and the 1997 Administrative Consent Order specified that the investigation, study, and implementation of corrective actions should proceed in a phased approach that divides the facility into quadrants, which roughly correspond to distinct groundwater flow directions within the primary water-bearing unit beneath PORTS. The major documents prepared to satisfy some of the 1989 Consent Decree and 1997 Administrative Consent Order corrective action requirements are as follows:

- Quadrant I RFI Final Report (DOE 1996a)
- Quadrant II RFI Final Report (DOE 1996b)
- Quadrant III RFI Final Report (DOE 1996c)
- Quadrant IV RFI Final Report (DOE 1996d)
- Quadrant III Cleanup Alternatives Study (CAS)/Corrective Measures Study (CMS) Final Report (DOE 1998a)
- Quadrant IV CAS/CMS Final Report (DOE 1998b)
- Quadrant I CAS/CMS Final Report (DOE 2000)
- Quadrant II CAS/CMS Final Report (DOE 2001)
- Quadrant III Decision Document (Ohio EPA 1999a)
- Quadrant IV Decision Document (Ohio EPA 2000)
- Quadrant I Decision Document (Ohio EPA 2001)
- X-701B Decision Document (Ohio EPA 2003)
- X-734 Landfill Area Decision Document (Ohio EPA 1999b)
- X-749B (Peter Kiewit Landfill) Decision Document (Ohio EPA 1996a, EPA 1997)

- X-611A Decision Document (Ohio EPA 1996b, EPA 1996).

IDENTIFICATION OF PRINCIPAL HAZARDOUS CONSTITUENTS

Under the CAMU rule, PHCs must meet either minimum national treatment standards adapted from the LDR Phase IV soil treatment standards or, in specific circumstances, adjusted standards based on defined adjustment factors. The CAMU rule specifies that treatment standards would apply only to PHCs to be disposed in a storage, treatment, and disposal CAMU. Treatment standards and PHCs do not apply to storage and/or treatment only CAMUs such as the IMTA.

PHCs are defined as those constituents that "pose a risk to human health or the environment that is substantially higher than the cleanup levels or goals at the site." PHCs are selected from those constituents that would otherwise be subject to treatment under the RCRA LDR treatment standards for as-generated waste. In general, PHCs are identified as "*… carcinogens that pose a potential direct risk from ingestion or inhalation at the site at or above* 10^{-3}*; and non-carcinogens that pose a potential direct risk from ingestion or inhalation at the site an order of magnitude or greater over the reference dose.*" (67 FR 2962, January 22, 2002). EPA has also included the potential migration of constituents to groundwater as a pathway of concern for the identification of PHCs (67 FR 2962, January 22, 2002). PHCs are to be identified based on concentrations in the waste as initially managed, not after pre-treatment or other activity intended to reduce the concentration.

At PORTS, PHCs were identified from in situ soil sample results to avoid any inadvertent reduction in concentration that may occur during excavation and transportation. These samples represent the potential waste streams from both environmental remediation and from excavation of contaminated media to use as fill. Once the waste is excavated, there is the potential that levels of volatile organic compounds may be lower. The identification of PHCs is currently based on an extensive environmental database at PORTS collected over the last 25 years with Ohio EPA oversight. The PHC(s) identification process used in this document has clearly identified those PHC(s) at PORTS. Although there are additional data planned to be collected from environmental media at PORTS, it is very unlikely that a contaminant would be identified that meets the PHC definition that has not already been identified. However, although unlikely, if the next environmental media data collection effort should identify another constituent that could be of sufficient significance to meet the definition of a PHC, the following steps would be used to assess the potential presence of a new PHC. After that point in the characterization of environmental media at PORTS, there is no longer a sufficient management risk of future PHCs being identified and the PHC identification process for environmental media would no longer be necessary.

No PHCs were identified for D&D building demolition waste as the current plan is to remove all segregatable RCRA-hazardous wastes, regardless if CAMU-eligible or CAMU-ineligible, from the buildings before they are demolished, leaving only solid and low-level waste for the next phase of D&D. This waste would be sent off Site for disposal or recycling, as appropriate. As was discussed in Section 7.3 of the Process Buildings RI/FS, process knowledge, visual inspections, field data, and laboratory analytical results can all be used to answer questions during design and implementation of a remedial action. The end-state of the building after removal of RCRA-hazardous waste will be primarily assessed through process knowledge and visual inspection. Field and laboratory data can be used if determined necessary during the design and implementation of the remedy but the volume of any remaining non-segregatable hazardous waste (that does not require segregation) would be so low that by regulatory definition, the remaining D&D waste, considered as a universe, would be considered solid or low-level waste, therefore no PHC evaluation is needed because the waste is not considered hazardous. Residual soils that may be generated during subsurface demolition activities may contain TCE or other PHCs and will be evaluated. Should a decision on the disposal location change and DOE elect to send RCRA-hazardous waste from building D&D that was planned for off-Site disposal to the CAMU, an evaluation for 1) its CAMU-eligibility; and 2) for new PHCs associated with that waste would also be conducted.

The existing landfills inside Perimeter Road are one of the key potential sources of contaminated fill. Additional characterization specified in future plans would be conducted to support the excavation of the landfills and to determine WAC compliance of the material excavated. The new data and other information collected will be evaluated to determine CAMU-eligibility as well as if there are additional PHCs in the landfill waste.

The four steps that have been used and would be used in the future to identify PHCs in CAMU-eligible waste at PORTS are described below. The PHCs are those constituents that may require treatment prior to disposal in a CAMU.

1) First, a contaminant must be a hazardous constituent defined under *OAC* 3745-270 that would be subject to treatment standards for an as-generated waste. If a contaminant is not defined as a hazardous constituent, it is not a PHC.

2) Second, the maximum contaminant level present is compared to a risk-based screening level equating to a 1×10^{-3} ELCR through ingestion or inhalation (or a hazard quotient of 10 for non-carcinogenic compounds) for the potential future outdoor industrial user of PORTS in soil. The necessary values can be found in the most current PORTS Risk Methods Document that is available at the time of evaluation. (This document is updated semi-annually.) Appendix D presents the exposure assumptions and parameters used to calculate the risk-based screening level, also called a PHC threshold value. If that PHC threshold value is not exceeded, the contaminant is not a PHC.

3) Third, if the maximum value does exceed the PHC threshold value, either a qualitative or quantitative risk evaluation is done to conclude if the contaminant would cause an ELCR of 1×10^{-3} or a hazard quotient of 10 across an investigative area.

4) And finally, when risks to human health and the environment posed by the potential migration of constituents in wastes to groundwater are substantially higher than cleanup levels or goals at the site, these constituents may be designated as PHCs. Current concentrations of groundwater are used in this analysis instead of modeled results because typically the contaminants in the primary waste have been in the environment a sufficient amount of time that migration to groundwater has occurred if it were going to occur. The major contaminant in groundwater at PORTS is TCE. All other groundwater constituents result in notably less threat to human health. Therefore, the migration pathway to groundwater aspect of PHC identification would only evaluate TCE.

Appendix D presents the rationale for the PHC selection for PORTS. Based on the large amount of existing soil data collected under the Ohio Consent Decree investigation efforts since the early 1990s for over 100 potential contaminants at PORTS, providing nearly 400,000 analytical results, only TCE is currently identified as a PHC in environmental media. TCE is a PHC because (1) it would otherwise be subject to RCRA treatment standards due to the process by which it was used at the Facility (F-listed waste); (2) because the known soil concentrations at PORTS exceed the calculated 282 mg/kg PHC threshold value for TCE; (3) there are sufficient samples exceeding the level that are co-located, indicating that there is an elevated risk likely; and (4) TCE groundwater contamination results in human risk from groundwater use that is substantially higher than PORTS cleanup goals. Should future data collected for other purposes identify the potential that other contaminants may be PHCs, the same process would be conducted to evaluate these contaminants.

Table 3 presents the comparison of existing soil concentration values for PORTS compounds identified by Ohio EPA (during scoping meetings occurring after the Waste Disposition RI/FS) to their risk-based PHC threshold values.

Table 3. Screening Results for CAMU-eligible Soil – Chemicals of Potential Concern

COPC	Number of Results	Number of Detects	Number Above PHC Limit	Percent Above PHC Limit (%)	Minimum Detect (mg/kg)	Maximum Detect (mg/kg)	Outdoor Worker PHC Threshold Value[a] (mg/kg)
All Existing RFI Soil Data							
Arsenic	4,907	4,772	0	0	0.0066	470	3,340
Chromium, total	5,455	5,424	0	0	1.2	6,050	7,010 (Cr^{+6})
Chromium (VI)	884	87	0	0	0.13	23	7,010 (Cr^{+6})
Lead	4,828	4,791	0	0	1.1	450	800
Mercury	4,767	2,790	0	0	0.0029	208	497
Tetrachloroethene	4,836	377	0	0	0.0005	90	5,830
Trichloroethene	**8,152**	**4,206**	**108**	**1.32**	**0.00022**	**110,000**	**282**
1,1-Dichloroethene	5,810	805	0	0	0.0006	240	14,900
cis-1,2-Dichloroethene	5,172	915	0	0	0.00024	342	26,000
trans-1,2-Dichloroethene	4,776	212	0	0	0.00042	2.51	9,560
Vinyl chloride	5,085	75	0	0	0.00061	1.7	2,240

Bold indicates a maximum value above the PHC threshold value.

[a] The outdoor worker PHC limits (except lead and elemental mercury) were obtained using the equations in the PORTS HHRA Risk Methods Document and the most recent 2014 EPA exposure parameters for body weight (80 kg), skin surface area (3,470 cm^2) and adherence factor (0.12 mg/cm^2). PHC limits for lead are based on the EPA soil screening level of 800 mg/kg. PHC limits for elemental mercury, for an outdoor worker, were obtained from Ohio EPA. The outdoor worker exposure scenario was selected to be consistent with the reasonably anticipated potential future use scenario.

COPC = chemical of potential concern
EPA = U.S. Environmental Protection Agency
HHRA = Human Health Risk Assessment
Ohio EPA = Ohio Environmental Protection Agency
PHC = principal hazardous constituent
PORTS = Portsmouth Gaseous Diffusion Plant
RFI = Resource Conservation and Recovery Act of 1976, as amended, Facility Investigation

IDENTIFICATION OF TREATMENT STANDARDS

There are two provisions in the CAMU regulations that can be used to set treatment standards. PHCs must either meet treatment standards adapted from the LDR Phase IV alternative soil treatment standards under Section 3745-57-72(E)(4)(d) or, in specific circumstances, adjusted standards based on defined adjustment factors under Section 3745-57-72(E)(4)(e). EPA and Ohio EPA have developed a treatment standard of 90 percent reduction in concentrations of PHCs unless such treatment would result in concentrations that are less than 10 times the relevant Universal Treatment Standard, in which case treatment would be capped at 10 times the Universal Treatment Standard. EPA believes that this standard is appropriate and generally will result in meaningful treatment. But EPA also developed adjustment factors to result in adjusted standards; technical impracticability, consistency with site cleanup standard, community views, short-term risks, and protection offered by engineering controls under specified circumstances. When one or more of the adjustment factors are applied, EPA requires that the resulting adjusted standard be protective of human health and the environment.

This section uses eight major points to describe the process used to set an adjusted standard based on CAMU adjustment factors for TCE. If additional PHCs are identified in the future, a similar evaluation would be done for those contaminants to set either a treatment or adjusted standard.

Point 1
EPA has expressed no preference for using the treatment standard or the adjusted standard based on adjustment factors.

As stated in the final CAMU rule (67 FR 2962, January 22, 2002), "*EPA recognizes that the minimum treatment standards will often be the preferable approach … adjustments of the minimum treatment standards might be appropriate because they represent circumstances where failure to adjust treatment could result in discouraging aggressive cleanup*". EPA expressed that there is "*… neither a preference for nor against application of the factors*". Therefore, DOE considers both approaches for TCE and for any future PHCs and selects the approach that best represents the site-conditions and supports the most aggressive cleanup when setting treatment standards for PHCs.

Treatment Standard Evaluation

Point 2
A calculated 90 percent reduction in TCE concentrations results in an estimated concentration of 250 to 700 mg/kg, both in DFF&O-acknowledged residual soil and in non-DFF&O soil.

Currently, only TCE has been identified as a PHC. The waste (and contaminated fill, if used) that contains the TCE was evaluated initially using the 3745-57-72(E)(4)(d) provisions. Initial average concentrations of TCE in soil in the areas where TCE would be considered a PHC are approximately 2,500 to 7,000 mg/kg, resulting in a value of 250 to 700 mg/kg after consideration of a 90 percent reduction (See Appendix E, Figures E.1 through E.4).

Appendix E presents the information that was used to reach this conclusion. Both residual soil and non-DFF&O soil were evaluated site wide and found to yield similar results.

Point 3

Application of a treatment standard of 250 to 700 mg/kg to the universe of PORTS soil would require the use of treatment that is not considered cost-effective.

As a result of the WAC, free liquids must be removed from the waste prior to disposal. Some of the waste or contaminated fill that contains high levels of TCE is likely to have free liquids present, especially when the soil is below the groundwater table. Current data suggests that only soil in the X-700, X-701B, X-701E, and X-720 areas have the potential to have TCE present at levels above the PHC threshold value of 282 mg/kg. There is the potential that additional elevated levels of TCE may be found in soils associated with landfills being considered as potential sources of fill.

Sampling results at PORTS indicates levels of TCE in some of the soils near buildings X-700, X-701E, and X-720 in the range of 290 to 15,000 mg/kg above the PHC threshold value (see Appendix E, Figure E.2). These soils are considered residual soils under DFF&O that would be excavated with the removal of building structures as part of the Process Buildings Project. Unsaturated soils generally would not require any treatment, unless they are directly under historical sources of TCE such as the northeastern corner of Building X-720. Waste or contaminated fill with TCE as a PHC that also contains free liquid would be dewatered prior to use in a potential OSDC to remove the liquids. The water would be collected and treated. In some soil types, the dewatering process is likely to effectively reduce TCE concentrations significantly. However, there are certain soil types (high in clay and/or silt) at PORTS that would not have much reduction in TCE concentrations through dewatering, thereby needing additional treatment to meet a 90 percent reduction standard. Based on the evaluation of the Minford clay soils in the vadose zone (Appendix E) the effectiveness of dewatering the soils is limited due to the high clay content. High levels of up to 15,000 mg/kg under Building X-720 remain in vadose zone residual soils after at least decades of gravity draining and percolation of surface water (rain, run-on/run-off) through those soils. Thus, dewatering of these soils would not reduce the TCE concentration below an average of over 5,000 mg/kg (see TCE concentration in vadose zone soil under the northeastern corner of X-720, Figure E.4, Appendix E of this supplement) in any rational time frame, which is far above the LDR treatment standards for TCE (60 mg/kg) or a unit-specific 90 percent reduction target of up to 700 mg/kg. This condition is also expected in saturated Minford clay after gravity draining is complete.

Site-specific Adjusted Treatment Standard Evaluation

Because additional treatment may not be considered cost-effective and may discourage the consolidation of waste and use of contaminated fill, the adjustment factors considered to develop adjusted standards were also evaluated. Four of the five adjustment factors are considered applicable to PORTS. Only the adjustment factor to have treatment standards consistent with site cleanup levels is not applicable.

Point 4

It is technically inappropriate to treat TCE waste at PORTS beyond dewatering (Adjustment Factor 4(e)(i)).

Using the technical impracticability adjustment factor, the treatment standard can be adjusted on a site-specific basis when it is not technically practicable to achieve these standards because of factors related to technologies and cost (*OAC* 3745-57-72(E)(4)(e)(i)). EPA intends "*… that the technical impracticability adjustment factor will include the general concepts of "technical infeasible" and "inordinately costly" as those terms are used in the federal CERCLA program. These concepts are also described in the RCRA corrective action [advanced notice of proposed rulemaking] ANPR at 61 FR 19432 (May 1, 1990).*" [67 FR 2962, January 22, 2002]. "*Under the "technically inappropriate" variance, the Regional Administrator may approve a site-specific treatment standard if treatment to the* *otherwise applicable standard is not appropriate, even though such treatment is technically possible.*" In the case of PORTS waste, treatment is feasible and achievable to a TCE level of 250 to 700 mg/kg but it would be costly and inappropriate. Under the technically inappropriate variance for RCRA treatment standards, a site-specific treatment standard may be set if treatment to the otherwise applicable standard is not appropriate, even though such treatment is technically possible. Where, as here, there is an option to leave some contaminated soils in place, as opposed to a more aggressive remediation such as excavation, then it is considered technically inappropriate to require treatment when avoiding such treatment will nevertheless be protective and more cost-effective (62 FR 64504, December 5, 1997).

Appendix E demonstrates that there have been many TCE treatment methods applied at PORTS. A list of technologies that have been demonstrated at PORTS are listed in Table 4. Most of these are in situ technologies but they generally have not met treatment goals. Additional efforts at in situ treatment prior to excavation could not be considered to be effective. Ex situ treatment technologies that are effective, such as low temperature thermal desorption or incineration, are very expensive and time consuming. Although these technologies are effective at reducing TCE concentrations, the additional concentration reduction does not add any protection value prior to disposal for the cost (up to $250/cy, as presented in Appendix E) and or time required to implement (15 to 20 cy/hour production rates, as presented in Appendix E). The waste limits calculated that would protect against unacceptable contamination release through the bottom of the landfill, are orders of magnitude higher than any projected TCE concentration in soil after dewatering. Additionally, the removal of free liquids also results in a waste stream that is protective of the underlying liner system. Treatment of soil that has been dewatered or does not contain PHCs would not result in any additional protection of the underlying groundwater or the underlying liner.

Table 4. Pilot Studies/Technology Demonstrations at PORTS

Quadrant I
X-625 Passive Groundwater Treatment • 1996 – Installation of a horizontal (directionally drilled) well • 1996 – Multiple variations of iron filings to evaluate their relative efficiency for destruction of VOCs • 1996 – Palladium-coated iron filings to evaluate their relative efficiency for destruction of VOCs • 1997 – Slow release potassium permanganate grout for destruction of VOCs
X-749 Plume • 1998 – Vacuum-enhanced recovery for more efficient VOC destruction
X-2230N Clean Test Site • 1994 – Installation of a pair of horizontal (directionally drilled) wells and innovative screen material • 1994 – Multi-point injection system for injection of treatment chemicals in the vadose zone • 1994 – Pneumatic fracturing to enhance the subsurface permeability to aid in contaminant removal efficiency • 1995 – Deployment of the colloidal borescope to evaluate groundwater flow direction and velocity to aid in remediation design and deployment • 1996 – Hydraulic fracturing to enhance the subsurface permeability to aid in contaminant removal efficiency and to more efficiently deliver treatment chemicals to the contaminant zone
X-231B • 1992 – In situ soil mixing using solidification/stabilization for contaminant control • 1992 – In situ soil mixing using ambient air vapor extraction for VOC contaminant removal • 1992 – In situ soil mixing using thermally enhanced vapor extraction for enhanced VOC contaminant removal • 1992 – In situ soil mixing using peroxidation for in situ destruction of the organic contaminants

Table 4. Pilot Studies/Technology Demonstrations at PORTS (Continued)

Quadrant I (continued)
X-231A • 1996 – Installation of hydraulically emplaced stacked horizontal soil fractures to enhance contaminant removal efficiency and delivery of treatment chemicals • 1996 – Thermally enhanced vapor extraction using in situ steam generation and sand propped fractures • 1996 – Thermally enhanced vapor extraction using in situ air heaters • 1996 – Hydraulic fractures using iron filings as the proppant for in situ destruction of organic contaminants • 1996 – Hydraulic fractures using permanganate grout as the proppant for in situ destruction of organic contaminants • 1996 – Oxidant grout emplacement in vertical wells for in situ destruction of organic contaminants
Quadrant II
X-701B • 1990 – Contaminated sludges and soils removed from X-701B Holding Pond and Sludge Containment Ponds (800 B-25 boxes/3 million lb) • 1994 – In situ soil mixing using ambient air vapor extraction for VOC contaminant removal • 1996 – Partitioning inner-well tracer tests to evaluate the mass of separate phase contaminant in the zone of interest • 1996 – Surfactant flood to increase the solubility of contaminants in water for enhanced removal efficiencies • 1996 – Installation of a pair of horizontal (directionally drilled) wells and innovative screen material • 1996 – Recirculation between horizontal wells with VOC treatment using iron filings in canisters designed to be installed in situ • 1996 – Photocatalytic destruction of VOCs in groundwater • 1997 – Ultraviolet light destruction of VOCs in groundwater using porous tubes • 1997 – In situ destruction of VOC contaminants using oxidant recirculation between horizontal wells • 1999 – Enhanced in situ VOC removal using steam injection • 1999 – In situ destruction of VOCs using hydrous pyrolysis oxidation • 1999 – Use of electrical resistivity tomography to monitor treatment effectiveness • 1999 – Installation of wells using rotosonic techniques to minimize waste generation • 2000 – Lance permeation of treatment chemicals (oxidants) to destroy VOC contaminants in situ • 2008 – Hydrogen peroxide injections • 2011 – X-701B Interim Remedial Measure (ex situ oxidant)
Quadrant III
X-740 • Installation of poplar trees at X-740 to in situ phytoremediate VOC contaminants
Quadrant IV
X-734 • Installation of poplar trees at X-734 to in situ phytoremediate VOC contaminants

VOC = volatile organic compound

Point 5

The community has expressed a strong preference for consolidating landfills and contaminated soil associated with plumes into an engineered landfill (Adjustment Factor 4(e)(iii)).

Under the community views adjustment factor, EPA and Ohio EPA have identified that the treatment standards can be adjusted (increased or decreased) based on "*The views of the affected local community on the treatment levels or methods in paragraph (E)(4)(d) of this rule as applied at the site, and, for treatment levels, the treatment methods necessary to achieve these levels.*" (*OAC* 3745-57-72(E)(4)(e)(iii)).

While the PORTS community has not yet formally expressed its opinion of the treatment standards or methods being proposed (a step that will occur during the review of the Proposed Plan, if Alternative 2 is the preferred alternative), other interactions have revealed that the community has strongly expressed a desire to have landfills inside of Perimeter Road and soil from groundwater contamination plumes excavated and consolidated into the potential OSDC.

Because of the availability of inexpensive clean fill, the use of contaminated soil and associated waste from select landfills as potential OSDC fill must remain cost effective. There are long-term cost benefits to using the contaminated soil as OSDC fill, as the reliance on long-term engineering and institutional controls across PORTS is reduced; however those cost benefits can be overcome by short-term costs if non-cost-effective treatment methods (such as thermal desorption or chemical oxidation technologies previously implemented at PORTS with high cost but very limited success) are required to be used based on preference or desire.

Therefore, adjustment factor *OAC* 3745-57-72(E)(4)(e)(iii) is an important consideration in PORTS' remedial approach. Consolidation of landfills inside Perimeter Road and obtainment of contaminated fill soil from groundwater contamination areas should support the community desire for potential reuse of the DOE property, following DOE cleanup. This is a factor DOE has considered in developing its proposed adjusted TCE treatment level for consideration by the Ohio EPA Director.

Point 6
Treatment beyond dewatering adds short-term risks to implementation with no commensurate or proportional additional protectiveness benefit (Adjustment Factor 4(e)(iv)).

EPA and Ohio EPA have identified an adjustment factor based on "*The short-term risks presented by the on-site treatment method necessary to achieve the levels or treatment methods in paragraph (E)(4)(d) of this rule*." (*OAC* 3745-57-72(E)(4)(e)(iv)).

Treatment technologies that would have to be considered beyond dewatering that would be required to meet the treatment standard calculated under *OAC* 3745-57-72(E)(4)(d) (90 percent reduction standard) to reduce the concentrations of TCE in the Minford clays typically include some form of heating. Low-temperature thermal treatment is one viable option. With appropriate engineering controls and health and safety considerations, this process should be able to be implemented safely. However, when dealing with heat and additional waste handling, there are increased risks and exposure to industrial, chemical, and radiological hazards. Any off-gases must be collected and treated to avoid inadvertent releases through the air. The chance of spills through additional handling exists as waste is transferred from storage areas to the treatment process and then to the disposal location. Also, the additional heavy equipment and machinery can put workers at risk, even under the best of circumstances.

If the additional treatment was providing additional increases in level of protectiveness or performance of the potential OSDC, then assumption of this risk may be considered worthwhile. However, in the case of pursuing additional treatment prior to disposal in a potential OSDC, there is no added benefit to make assumption of this risk acceptable; therefore, the additional short-term risks from the pursuit of treatment steps beyond dewatering, if they have no commensurate improvement in OSDC protectiveness or performance, are considered unacceptable.

Point 7
Less treatment is appropriate because of the additional protection offered by the engineering design of a potential OSDC (Adjustment Factor 4(e)(v)).

EPA and Ohio EPA provide the opportunity to adjust the treatment standard on a site-specific basis to require less treatment than would otherwise be required because of the protection offered by the engineering design of a CAMU. Five sets of circumstances were identified to use this adjustment factor. The second set of circumstances are most applicable for the potential OSDC, when cost-effective treatment has been used and the CAMU meets the liner and leachate collection requirements for new hazardous waste land disposal units under RCRA.

Under the adjustment factor provided in *OAC* 3745-57-72(E)(4)(e)(v)(b), the Director may adjust the treatment standards based on the long-term protection offered by the engineering design of a CAMU and related engineering controls. As discussed in the EPA CAMU regulation preamble, this adjustment factor reflects the concerns about the uncertainties of long-term containment; thus, when the treatment standards from 3745-57-72(E)(4)(d) have not been substantially met, this adjustment factor would require more robust engineering controls to reduce the potential for and consequences of unit failure. It would also require cost-effective treatment.

As discussed in the preamble to EPA's proposed amendments to the CAMU rule, "*… the concept of "cost-effective" treatment for the purpose of this adjustment factor E [v for OAC 3745-57-72(E)(4)(e)] means that the additional cost associated with increased treatment is proportionate to the increase in protection that the treatment would provide. EPA expects that assessments of cost-effectiveness will be made based on a reasonable review of the costs and the increased protection provided by treatment and on the best professional judgment of the decision maker.*" (65 FR 51106, August 22, 2000).

This adjustment factor requires a more rigorous approach to engineering design and related controls than the minimum State of Ohio and national design standards for CAMUs in that it requires compliance with the liner and leachate collection requirements for new hazardous waste land disposal units at 40 *CFR* 264.301(c) and (d). As discussed in the national regulation, the liner and leachate collection requirements for new hazardous waste landfills are well established and understood, and units constructed to meet the liner and leachate collection requirements for new hazardous waste landfills generally offer a high degree of protection over time (65 FR 51107, August 22, 2000). Because the engineering design and related engineering controls required by this provision are very robust, EPA did not limit this adjustment factor to just PHCs of very low mobility.

Because TCE at PORTS has a cost-effective treatment option of dewatering of free liquids for free-product removal, and because the potential OSDC has engineering design and related controls that exceed the minimum design standards for CAMUs (including liner and leachate collection requirements for new hazardous waste land disposal units under 40 *CFR* 264.301(c) and (d) [see Table 2]), the adjustment factor under 3745-57-72(E)(4)(e)(v)(b) is the most appropriate. Waste Disposition RI/FS Appendix J and the OSDC Intermediate Design Package provide more information about the design of the potential OSDC.

Dewatering of waste to remove free liquids, including pure organic solvents, would be the treatment method of choice at PORTS. Dewatering of waste to remove free liquids is required to meet other elements of the draft WAC of a potential OSDC and to remove free product that may impact liner performance. This process primarily removes free liquids that could compromise the structural stability or liner effectiveness of a potential OSDC. It also lessens any burden on a leachate collection and treatment system. Dewatering is therefore considered cost-effective. Any additional treatment does not provide any additional environmental protection because the engineering elements and siting geology (competent bedrock) are robust, protecting against contaminant migration. Through the final cap and institutional controls, protection of public health and the environment would continue to occur after closure of the potential OSDC. And once free product is removed from a waste stream, additional treatment will not provide more protection of the underlying liner.

DOE's Proposed Adjusted Standard for TCE

On the basis of the four adjustment factors described above, DOE has identified an adjusted standard for TCE. This standard only applies to waste streams where TCE is identified as a PHC. It is proposed as an adjusted standard for application to representative soil and waste material conditions after the initial treatment process (dewatering) is completed, as necessary. Demonstration of achievement of the standard during field implementation can be shown either through pre-excavation or post-excavation and/or treatment characterization.

Point 8
The proposed site-specific adjusted TCE treatment standard will be applied to unsaturated soil (or saturated soil after dewatering) and is protective of human health and the environment.

DOE is requesting, as a conservative measure, an adjusted treatment standard under *OAC* 3745-57-72(E)(4)(e) for TCE of 5,000 mg/kg for contaminated soils to be used as fill. As demonstrated in the Waste Disposition RI/FS, Alternative 2 will require substantial amounts of soil that will be used as fill. Fill is critical to the management of wastes in the OSDC/CAMU because it is used to structurally support D&D wastes and provide a buffer to protect the liner that contains leachate that will be generated. The use of PORTS borrow soil consisting of contaminated residual soils and aquifer materials has an added benefit of removing contaminated soils that would serve as source for continued groundwater contamination and impact future use of the site. Other future groundwater remediation alternatives would still offer containment of contaminated groundwater, but source areas containing TCE dense non-aqueous phase liquid (DNAPL) do not have to be removed to accomplish these goals. Therefore, use of residual soil as fill and, potentially, highly contaminated aquifer material, offers an opportunity to significantly enhance the scope of remediation and benefit the site for future use. If soils must be treated to a treatment standard of 500 mg/kg as demonstrated in Appendix E, significant constraints on the operation and management of the remedy may result. This appendix lists specific potential problems that can impact the ability to treat heavily contaminated soils in a timely manner. The concept of an adjusted treatment standard posed by EPA was designed just for cases such as PORTS where the extra cost and time for alternative treatments is also not justified, based on the capabilities of the engineering design. One aspect of the design is that the proposed adjusted treatment standard is still within a concentration range that has been found to have little degradation effect on the initial liner or the liner system. DOE is proposing an adjusted treatment standard on a site-wide basis because it has determined that PORTS sources of clay-rich soils are beneficial for Alternative 2. If a PORTS fill source of contaminated soils is not used, then an adjusted treatment standard will have no basis and the treatment standard will revert to the accepted treatment standard of 500 mg/kg.

During excavation, both saturated and unsaturated contaminated soils would be broken up by heavy excavation equipment to facilitate draining of liquid and removal of potential TCE free product. This process would prepare the contaminated soils for subsequent WAC characterization, transportation to, and placement in the OSDC. The adjusted treatment standard will serve as a "ceiling" limit whereby the representative TCE soil or waste concentrations cannot exceed the adjusted standard after cost-effective treatment, if needed, has occurred. This standard is one-third to one-half the EPA guidance level of 10,000 to 15,000 mg/kg in clay soil indicative of free product. It is mainly proposed out of excess caution to safeguard the OSDC liner materials from exposure to excessive remaining TCE free product potentially still trapped in certain soil types even through the initial excavation process and after field dewatering. If the representative concentrations exceed the ceiling limit, additional steps will be necessary prior to acceptance for disposal at the potential OSDC to meet the free liquid prohibition in the WAC.

Therefore, an adjusted standard of 5,000 mg/kg will also significantly benefit the environment by allowing for an increase of the amount of remediation that will occur at PORTS. Without an adjusted treatment standard, the movement of contaminated residual soil, and other contaminated fill to the CAMU would be more costly in terms of time and management costs and offer less improvement to the site because large areas of contamination may remain in place instead of being placed into a protective engineered landfill. The increased costs and time management concerns to treat volumes of highly contaminated soil is not justified because the adjusted standard is also based on protectiveness of the engineered liner system.

Appendix E also illustrates the potential impact dewatering may have on TCE-contaminated soil at PORTS. Dewatering to other ARAR-based restrictions will be required prior to any waste disposal to assure no free liquids are disposed in the OSDC and Ohio EPA has considered dewatering and DNAPL removal to be a cost-effective treatment for TCE removal in water saturated soils. Appendix E illustrates that some soil matrices (e.g., Gallia Formation sand and gravel) would dewater relatively easy, resulting in fairly low concentrations of TCE. However, those soil matrices (e.g., Minford Formation clay and silt) with high clay content are unlikely to have significant reduction in levels of TCE through dewatering. Contaminated Minford soils are desirable as fill material, but using it is also weighing heavily in the request for an adjusted treatment standard. The characteristics of clay-rich soils like those of the Minford Formation indicate that drainage of these soils to meet geotechnical and geochemical standards may require a significant time period or extensive post-generation processing. Because the logic of operations required to place building materials in the OSDC requires adequate volumes of fill to pack around building wastes, delays in disposal can result if fill is not available and impact the scope of remedial operations. In addition, after dewatering, the residual levels of TCE in soil are estimated to be, on the average, over 5,000 mg/kg, but could be as high as 15,000 mg/kg (see Figure E.4, Appendix E) in some of the most significant TCE source areas at PORTS with facilities that stored and/or used large quantity of TCE for many decades, such as Building X-720. Therefore, additional steps may be required in this area to achieve the proposed adjusted standard of 5,000 mg/kg following any required dewatering and processing for disposal.

If soil or waste exceeds the proposed adjusted standard (measured after soil has been prepared/blended with other material from the AOC to meet all other operational requirements of the potential OSDC), the contaminated soil or wastes would be segregated and further treated to reduce TCE concentrations to below 5,000 mg/kg or be shipped off Site for treatment and disposal. As an example, it is noted in Appendix E that residual soil data from underneath Building X-720 suggests that dewatered soils from this area of PORTS may still have TCE concentrations over 5,000 mg/kg. In this example case, if these soils have TCE concentrations over 5,000 mg/kg after necessary preparation or blending to meet other OSDC operational requirements, these contaminated soils would be segregated and further treated to meet the 5,000 mg/kg ceiling limit, or otherwise shipped off Site for treatment and disposal.

Under *OAC* 3745-57-72(E)(4)(e)(v)(*b*), the Director of Ohio EPA has the basis to approve this adjusted standard of dewatering and a ceiling limit of 5,000 mg/kg because cost-effective treatment has been used and the resulting condition is protective of the potential OSDC liner. As also required under *OAC* 3745-57-72(E)(4)(e)(v)(*b*), the potential OSDC liner system design exceeds the liner and leachate collection requirements for new land disposal units as required by paragraphs C and D of *OAC* 3745-57-03, which has been adopted as an ARAR for the potential OSDC under Alternative 2. The other adjustment factors discussed under Points 4, 5, and 6 provide further supporting bases for the Director of Ohio EPA to approve the proposed adjusted standard. The adjusted standard will allow implementation of the remedy in a timely and cost effective manner that is in keeping with scope of the remedial actions for a mega-site like PORTS. As discussed in Alternative 2 of the Waste Disposition RI/FS, more contamination will be removed if residual soils, along with other contaminated soils, are used as fill, which has a benefit of revitalizing larger areas of the site. By providing justification for the adjusted standard under several adjustment factors (Points 4, 5, 6, and 8), the proposed designation of the CAMU and the adoption of an adjusted standard meets the requirements of *OAC* 3745-57-72(E)(4).

The director may adjust the treatment level based on the long-term protection offered by the engineering design of the CAMU and related engineering controls where, after review of appropriate treatment technologies, the director determines that cost-effective treatment has been used, and the CAMU meets the liner and leachate collection requirements for new land disposal units at paragraphs (C) and (D) of rule 3745-57-03 of the Administrative Code, as appropriate. The adjusted level or method must be protective of human health and the environment.

FUTURE STORAGE AND/OR TREATMENT CAMU(S)

Storage and/or treatment CAMU(s) can also be used for temporary storage and/or treatment of wastes which would not remain after closure of the treatment, storage and disposal CAMU (the potential OSDC). It is likely that one or more temporary storage and/or treatment CAMU(s) may be established within the AOC during implementation of Alternative 2. The identification of such CAMU(s) would be presented in future regulatory design documents or remedial design submittals subject to approval/concurrence by Ohio EPA under the DFF&O, Consent Decree, or other applicable regulatory agreements with Ohio EPA.

RELATIONSHIP TO OTHER CLEANUP DECISIONS

Consistent with the DFF&O RI/FS statement of work (Attachment A of the DFF&O, Section 3.5.1), DOE has considered all anticipated waste streams to be generated under the DFF&O work activities and the potential waste streams outside of the DFF&O in the technical evaluation of the CAMU designations and the associated identification of PHCs and setting of treatment standards presented in this supplement to the Waste Disposition RI/FS. Although all anticipated waste streams have been considered in the technical CAMU evaluations, additional regulatory authorizations/approvals would be necessary to place those waste streams that originate outside of the DFF&O work activities into the CAMU.

If the future authorizations/approvals for the excavation and placement of waste streams that originate outside the DFF&O work activities in a potential OSDC occur, the identified PHC and adjusted standard presented in this supplement to the Waste Disposition RI/FS would serve as overarching WAC limits for all CAMU-eligible waste streams authorized for disposal in a potential OSDC, irrespective of their regulatory origin.

PUBLIC NOTICE OF CAMU DESIGNATION

Under *OAC* 3745-57-72(H), the Ohio EPA Director is required to provide public notice and a reasonable opportunity for public comment before final designation of the CAMU. If Alternative 2 is identified as the preferred alternative, Ohio EPA could use the Waste Disposition Proposed Plan as the means to provide public notice and seek public comments on the proposed CAMU designation. Following the receipt and review of public comments on the Proposed Plan, the Ohio EPA Director could provide his final designation of the CAMU, and any revisions necessary as a result of public comment, in the Waste Disposition ROD.

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EPA 1997, *Record of Decision/Statement of Basis Peter Kiewit Landfill.* U.S. Environmental Protection Agency, Region 5. Chicago, Illinois.

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APPENDIX A: AREA OF CONTAMINATION IDENTIFICATION

FIGURES

ACRONYMS

AOC	area of contamination
CAMU	Corrective Action Management Unit
DOE	U.S. Department of Energy
PORTS	Portsmouth Gaseous Diffusion Plant
RCRA	Resource Conservation and Recovery Act of 1976, as amended

Appendix A presents the known information about the widespread indicators of contamination (i.e., locations on Portsmouth Gaseous Diffusion Plant [PORTS] with constituent concentrations above background) and provides the rationale for identifying a formal Area of Contamination (AOC). This AOC is a fundamental component for the overall efficient cleanup of PORTS.

The AOC concept was discussed in detail in the preamble to the National Contingency Plan (55 Federal Register 8758-8760; March 8, 1990). In this discussion, the U.S. Environmental Protection Agency clarified that certain areas of generally-dispersed contamination can be called “areas of contamination” or “AOCs” and that movement of hazardous wastes within those areas would not be considered land disposal and would not trigger the Resource Conservation and Recovery Act of 1976, as amended (RCRA), land disposal restrictions.

PORTS has been extensively investigated over that past 25 years to characterize the soil (surface and subsurface, Figure A.1) and groundwater through invasive sampling and analysis. The results of this characterization have identified generally dispersed soil contamination across PORTS.

In light of the generally-dispersed contamination as depicted in Figure A.1 and in conjunction with the Corrective Action Management Unit (CAMU) designation, an AOC has been identified to facilitate the efficient removal and remedial activities discussed in the Site-wide Waste Disposition Evaluation Project Remedial Investigation/Feasibility Study report, should Alternative 2 be selected. The AOC has been limited to depict only the necessary footprint to allow the unencumbered movement of waste within the confines of the AOC during planned remedial activities and to ensure that the overall cleanup can be done in an efficient and cost effective manner.

Figure A.2 shows the AOC boundary and the locations where contamination has been identified.

In compliance with applicable or relevant and appropriate requirements, and as described in future design plans, the AOC will be utilized to: (1) remove free liquids in situ from CAMU-eligible waste, which is the first step in treatment to meet principal hazardous constituent treatment standards; (2) collect free liquids removed from CAMU-eligible and -ineligible wastes for treatment and disposal; (3) collect trichloroethene dense non-aqueous phase liquids for off-Site disposal; and (4) transport of wastes to treatment CAMU(s) and the disposal CAMU. Through extensive sampling, the U.S. Department of Energy (DOE) has defined the horizontal boundaries of the AOC at DOE’s Portsmouth reservation as depicted in Figure A.2. While the contiguous vertical depth of contamination within this area varies, by using this extensive sampling data, DOE will be able to navigate during the remediation to either ensure remedial activities comport with the AOC policy when working in contaminated media for purposes of RCRA compliance, or use other appropriate remedial regulatory tools, such as storage/treatment CAMUs as discussed in the document, when remedial activities are outside the scope of the AOC policy. Furthermore, while extensive sample data results have not been gathered from underneath buildings within the potential AOC, DOE believes that, at a minimum the Director should concur that these areas under the buildings would be within the general horizontal AOC presented. These buildings as they exist currently are encompassed by other areas of generally dispersed contamination and therefore fall within the scope of an AOC.

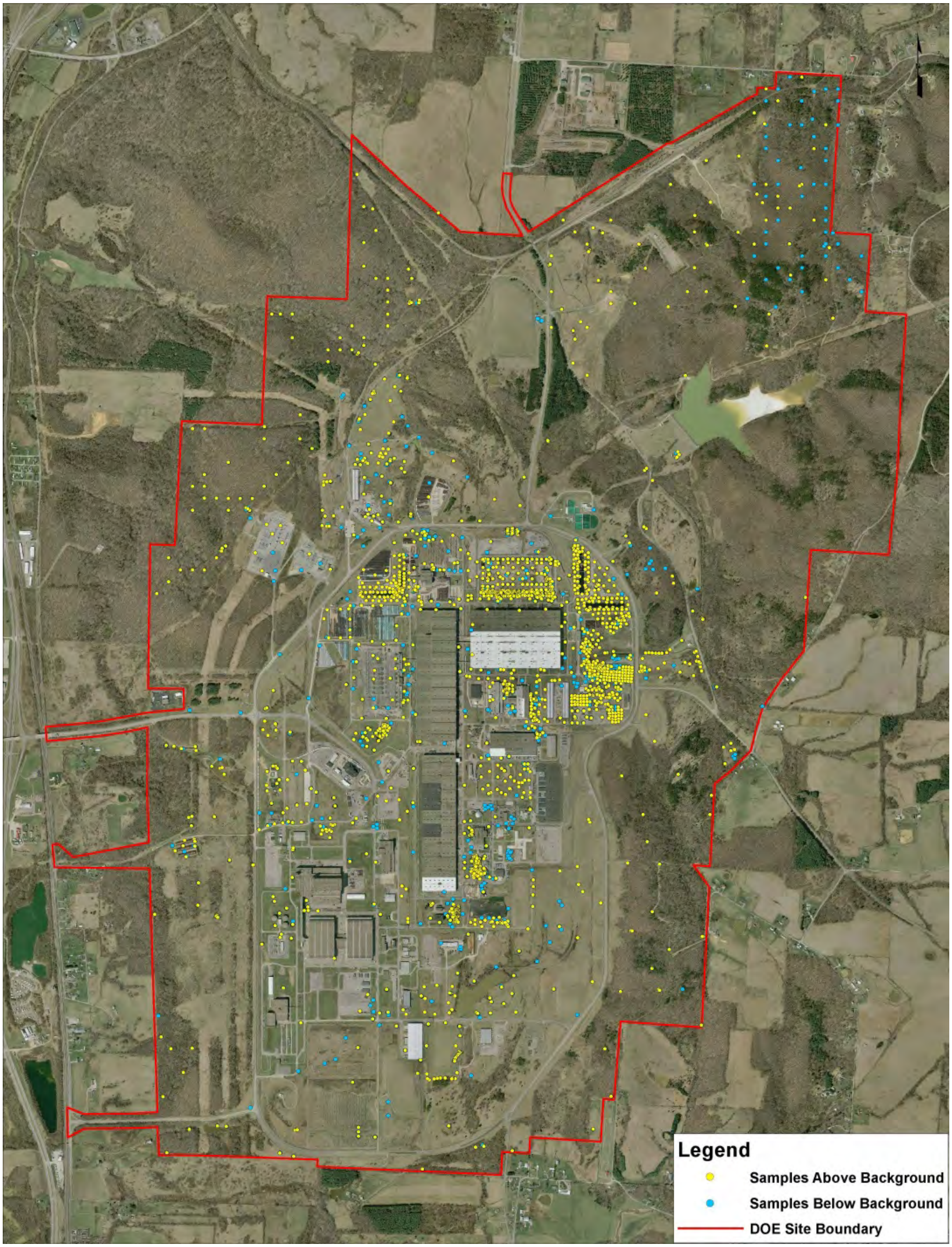

Figure A.1. PORTS Sample Locations – Above and Below Background

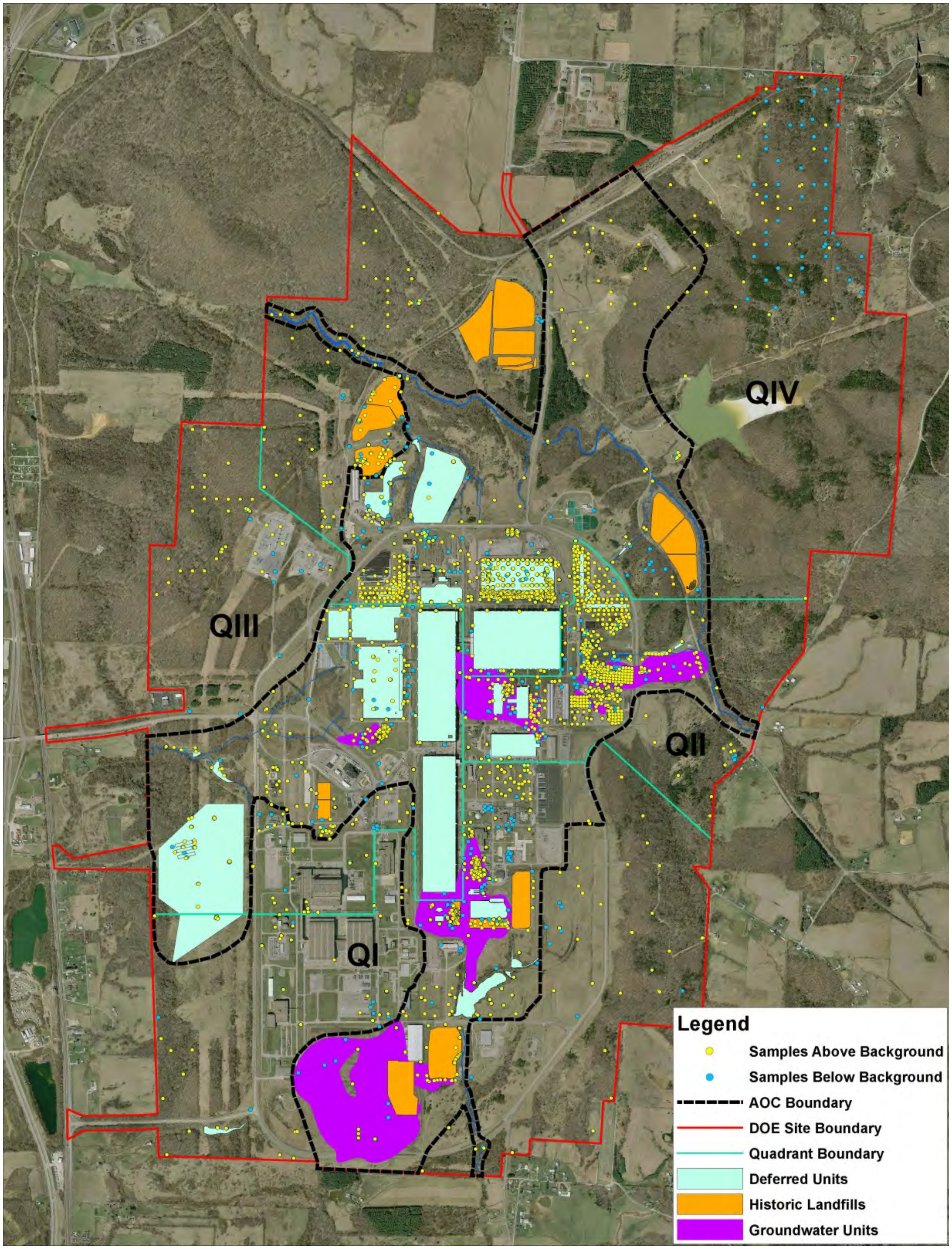

Figure A.2. Area of Contamination Boundary

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APPENDIX B: COMPARISON CROSSWALK OF *OAC* 3745-57-72 REQUIREMENTS TO DOE’S PROPOSED APPROACH FOR CAMU DESIGNATIONS

Appendix B is a crosswalk matrix of the *Ohio Administrative Code* 3745-57-72 Corrective Action Management Unit rule requirements alongside text that describes the U.S. Department of Energy's (DOE's) approach to complying with this rule. The crosswalk matrix is a line-by-line presentation of the rule with the corresponding proposed action that demonstrates DOE's approach addresses each and every aspect of the rule.

3745-57-72 Corrective Action Management Units (CAMUs)

RULE	DOE Approach
(A) To implement remedies under rule 3745-54-101 of the Administrative Code or Section 3008(h) of RCRA, or to implement remedies at a permitted facility that is not subject to rule 3745-54-101 of the Administrative Code, the director may designate an area at the facility as a corrective action management unit under the requirements in this rule. Corrective action management unit (CAMU) means an area within a facility that is used only for managing CAMU-eligible wastes for implementing corrective action or cleanup at the facility. A CAMU must be located within the contiguous property under the control of the owner or operator where the wastes to be managed in the CAMU originated. One or more CAMUs may be designated at a facility.	CAMUs designated at PORTS will be located within the contiguous property under the control of DOE. One disposal CAMU and one or more T/S CAMUs are requested for designation. The T/S/D CAMU will be adjacent to the AOC at PORTS. The T/S CAMU(s), as needed, will be located within the AOC, represented in Appendix A. The AOC will be utilized to: (1) remove free liquids from CAMU-eligible waste, which is the first step in treatment to meet PHC treatment standards; (2) remove free liquids from CAMU-ineligible wastes; (3) collect free liquids removed from CAMU-eligible and -ineligible wastes for treatment and disposal; (4) collection of TCE DNAPL for off-Site disposal; and (5) transport of wastes to treatment CAMU(s) and the disposal CAMU. The AOC will extend areally as depicted in Appendix A and within the area will extend from the surface of the contamination in the AOC to the full depth of contamination below the ground surface in the AOC.
(1) CAMU-eligible waste means:	--
(a) All non-hazardous and hazardous wastes, and all media (including ground water, surface water, soils, and sediments) and debris, that are managed for implementing cleanup. As-generated wastes (either hazardous or non-hazardous) from ongoing industrial operations at a site are not CAMU-eligible wastes.	Appendix C identifies the projected types and quantities of CAMU-eligible and -ineligible hazardous and non-hazardous wastes slated for on-Site disposal at PORTS, based on Waste Disposition and Process Buildings RI/FS information. All wastes are managed for implementing cleanup, and no as-generated wastes from ongoing industrial operations are envisioned.
(b) Wastes that would otherwise meet the description in paragraph (A)(1)(a) of this rule are not "CAMU-Eligible Wastes" where:	--
(i) The wastes are hazardous wastes found during cleanup in intact or substantially intact containers, tanks, or other non-land-based units found above ground, unless the wastes are first placed in the tanks, containers or non-land-based units as part of cleanup, or the containers or tanks are excavated during the course of cleanup; or	See Appendix C. Non-CAMU-eligible wastes have been identified In Appendix C, based on RI/FS information.
(ii) The director exercises the discretion in paragraph (A)(2) of this rule to prohibit the wastes from management in a CAMU.	Acknowledged. However, it is not expected that this discretion is necessary.
(c) Notwithstanding paragraph (A)(1)(a) of this rule, where appropriate, as-generated non-hazardous waste may be placed in a CAMU where such waste is being used to facilitate treatment or the performance of the CAMU.	Acknowledged. However, this type of waste is not expected -- Appendix C identifies the non-hazardous wastes that will be disposed in the potential OSDC (future references to the OSDC within this crosswalk without the preface of 'potential' recognize that until Alternative 2 is selected as the remedy, the OSDC is still a potential part of that remedy). All wastes are managed for implementing cleanup.
(2) The director may prohibit, where appropriate, the placement of waste in a CAMU where the director has or receives information that such wastes have not been managed in compliance with applicable land disposal treatment standards of Chapter 3745-270 of the Administrative Code, or applicable unit design requirements of Chapters 3745-54 to 3745-57 and 3745-205 of the Administrative Code, or applicable unit design requirements of Chapters 3745-65 to 3745-69 and 3745-256 of the Administrative Code, or that non-compliance with other applicable requirements of the hazardous waste rules likely contributed to the release of the waste.	Acknowledged. However, it is not expected that this prohibition will be necessary.
(3) Prohibition against placing liquids in CAMUs.	See (3)(a),(b),(c), and (d) below.

3745-57-72 Corrective Action Management Units (CAMUs) (Continued)

RULE	DOE Approach
(a) The placement of bulk or noncontainerized liquid hazardous waste or free liquids contained in hazardous waste (whether or not sorbents have been added) in any CAMU is prohibited except where placement of such wastes facilitates the remedy selected for the waste.	There will be free liquids associated with remediation of soil, including saturated soil. In addition, there will be rainwater and infiltration water in the remediation area which must be managed. The water (rainwater/infiltration water) from an open remediation/excavation is indistinguishable from the rainwater that will enter the OSDC. The remediation plan will require draining of these free liquids within the AOC at the active remediation area, so the contaminated water can be collected and treated in a wastewater treatment system. Encountered DNAPLs will be collected from the remediation/excavation and segregated from the waste stream being sent to the OSDC. If required, the excavated soil will then be transported to a T/S CAMU for treatment to meet PHC treatment requirements, or the soil will be transported to the disposal CAMU for disposal. It is possible that during transport of the excavated soil, some additional liquids may be freed from the soil matrix. Excavated/remediated soil may require blending to support operational requirements and will be placed in the disposal CAMU so long as the material can pass the Proctor test after compaction.
(b) The requirements in paragraph (C) of rule 3745-57-14 of the Administrative Code for placement of containers holding free liquids in landfills apply to placement in a CAMU except where placement facilitates the remedy selected for the waste.	The disposition (placement) of containers holding free liquids into the OSDC will not occur. The requirements in paragraph (C) of rule 3745-57-14 of the Administrative Code are listed as an ARAR and will be complied with.
(c) The placement of any liquid which is not a hazardous waste in a CAMU is prohibited unless such placement facilitates the remedy selected for the waste or a demonstration is made pursuant to paragraph (E) of rule 3745-57-14 of the Administrative Code.	The placement of liquids that are not hazardous wastes into a T/S or disposal CAMU will not occur. The requirements in paragraph (E) of rule 3745-57-14 of the Administrative Code are listed as an ARAR and will be complied with.
(d) The absence or presence of free liquids in either a containerized or a bulk waste must be determined in accordance with paragraph (B) of rule 3745-57-14 of the Administrative Code. Sorbents used to treat free liquids in CAMUs must meet the requirements of paragraph (D) of rule 3745-57-14 of the Administrative Code.	The presence of free liquids will be demonstrated through the “Paint Filters Liquids Test” (Method 9095B), and DOE will define the use of treatment including free-draining liquids/water and the use of absorbents, if appropriate, during remedial design. The DFF&O-required WAC Implementation Plan and OSDC Operations Plan will be the design documents utilized to present a compliant design plan meeting this requirement, for Ohio EPA review and approval/concurrence.
(4) Placement of CAMU-eligible wastes into or within a CAMU does not constitute land disposal of hazardous wastes.	Agreed.
(5) Consolidation or placement of CAMU-eligible wastes into or within a CAMU does not constitute creation of a unit subject to minimum technology requirements.	Agreed.
(B)	
(1) The director may designate a regulated unit [as described in paragraph (A)(2) of rule 3745-54-90 of the Administrative Code] as a CAMU, or may incorporate a regulated unit into a CAMU, if:	This provision is not applicable. The proposed disposal location will be in a clean, uncontaminated area and, not locating it at the site of or extending the boundaries of an existing regulated unit and treatment/storage CAMUs as needed, will not incorporate regulated units.
(a) The regulated unit is closed or closing, meaning it has begun the closure process under rule 3745-55-13 or 3745-66-13 of the Administrative Code; and	As above.
(b) Inclusion of the regulated unit will enhance implementation of effective, protective, and reliable remedial actions for the facility.	As above.
(2) The requirements of rules 3745-54-90 to 3745-54-101, 3745-55-10 to 3745-55-20, and 3745-55-40 to 3745-55-51 of the Administrative Code and the unit-specific requirements of Chapters 3745-54 to 3745-57, 3745-65 to 3745-69, 3745-205, and 3745-256 of the Administrative Code that applied to the regulated unit will continue to apply to that portion of the CAMU after incorporation into the CAMU.	As above.

3745-57-72 Corrective Action Management Units (CAMUs) (Continued)

RULE	DOE Approach
(C) The director will designate a CAMU that will be used for storage and/or treatment only in accordance with paragraph (F) of this rule. The director will designate all other CAMUs in accordance with the following:	
(1) The CAMU must facilitate the implementation of reliable, effective, protective, and cost-effective remedies;	See text in CAMU Designation section contained within the "SUPPLEMENT NO. 1 TO THE REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT FOR THE SITE-WIDE WASTE DISPOSITION EVALUATION PROJECT PROPOSED CORRECTIVE ACTION MANAGEMENT UNIT AND AREA OF CONTAMINATION DESIGNATIONS FOR ALTERNATIVE 2 AT THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO"
(2) Waste management activities associated with the CAMU must not create unacceptable risks to humans or to the environment resulting from exposure to hazardous wastes or hazardous constituents;	See text in CAMU Designation section contained within the "SUPPLEMENT NO. 1 TO THE REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT FOR THE SITE-WIDE WASTE DISPOSITION EVALUATION PROJECT PROPOSED CORRECTIVE ACTION MANAGEMENT UNIT AND AREA OF CONTAMINATION DESIGNATIONS FOR ALTERNATIVE 2 AT THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO"
(3) The CAMU must include uncontaminated areas of the facility, only if including such areas for the purpose of managing CAMU-eligible waste is more protective than management of such wastes at contaminated areas of the facility;	See text in CAMU Designation section contained within the "SUPPLEMENT NO. 1 TO THE REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT FOR THE SITE-WIDE WASTE DISPOSITION EVALUATION PROJECT PROPOSED CORRECTIVE ACTION MANAGEMENT UNIT AND AREA OF CONTAMINATION DESIGNATIONS FOR ALTERNATIVE 2 AT THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO"
(4) Areas within the CAMU, where wastes remain in place after closure of the CAMU, must be managed and contained so as to minimize future releases, to the extent practicable;	See text in CAMU Designation section contained within the "SUPPLEMENT NO. 1 TO THE REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT FOR THE SITE-WIDE WASTE DISPOSITION EVALUATION PROJECT PROPOSED CORRECTIVE ACTION MANAGEMENT UNIT AND AREA OF CONTAMINATION DESIGNATIONS FOR ALTERNATIVE 2 AT THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO"
(5) The CAMU must expedite the timing of remedial activity implementation, when appropriate and practicable;	See text in CAMU Designation section contained within the "SUPPLEMENT NO. 1 TO THE REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT FOR THE SITE-WIDE WASTE DISPOSITION EVALUATION PROJECT PROPOSED CORRECTIVE ACTION MANAGEMENT UNIT AND AREA OF CONTAMINATION DESIGNATIONS FOR ALTERNATIVE 2 AT THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO"
(6) The CAMU must enable the use, when appropriate, of treatment technologies (including innovative technologies) to enhance the long-term effectiveness of remedial actions by reducing the toxicity, mobility, or volume of wastes that will remain in place after closure of the CAMU; and	See text in CAMU Designation section contained within the "SUPPLEMENT NO. 1 TO THE REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT FOR THE SITE-WIDE WASTE DISPOSITION EVALUATION PROJECT PROPOSED CORRECTIVE ACTION MANAGEMENT UNIT AND AREA OF CONTAMINATION DESIGNATIONS FOR ALTERNATIVE 2 AT THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO"
(7) The CAMU must, to the extent practicable, minimize the land area of the facility upon which wastes will remain in place after closure of the CAMU.	See text in CAMU Designation section contained within the "SUPPLEMENT NO. 1 TO THE REMEDIAL INVESTIGATION AND FEASIBILITY STUDY REPORT FOR THE SITE-WIDE WASTE DISPOSITION EVALUATION PROJECT PROPOSED CORRECTIVE ACTION MANAGEMENT UNIT AND AREA OF CONTAMINATION DESIGNATIONS FOR ALTERNATIVE 2 AT THE PORTSMOUTH GASEOUS DIFFUSION PLANT, PIKETON, OHIO"
(D) The owner/operator must provide sufficient information to enable the director to designate a CAMU in accordance with the criteria in this rule. This must include, unless not reasonably available, information on:	
(1) The origin of the waste and how it was subsequently managed (including a description of the timing and circumstances surrounding the disposal and/or release);	Based on the RFIs under the Consent Decree conducted under Ohio EPA oversight, the CAMU-eligible waste (which is the source of the PHC in soil and groundwater) was generated during GDP operations during the 1950s, '60s, '70s, and early '80s when wastes were managed in unlined wastewater treatment ponds, were disposed in landfills with no engineered liners, and were not managed per current standards. The Consent Decree required multiple RCRA unit closures which were implemented pursuant to Ohio EPA-approved closure plans and closures under solid waste regulations, as well as implementation of corrective measures for other waste units.
(2) Whether the waste was listed or identified as hazardous at the time of disposal and/or release; and	Initial releases and disposal of CAMU-eligible wastes occurred prior to and after the effective date of RCRA rules; management of F-listed wastes did occur post-RCRA until implementation of RCRA closures approved by Ohio EPA pursuant to the Consent

3745-57-72 Corrective Action Management Units (CAMUs) (Continued)

RULE	DOE Approach
	Decree. Based on the RFIs under the Consent Decree conducted under Ohio EPA oversight, the CAMU-eligible waste (which is the source of the PHC in soil and groundwater) was generated during GDP operations during the 1950s, '60s, '70s, and early '80s when wastes were managed in unlined wastewater treatment ponds, were disposed in landfills with no engineered liners, and were not managed per current standards.
(3) Whether the disposal and/or release of the waste occurred before or after the land disposal requirements of Chapter 3745-270 of the Administrative Code were in effect for the waste listing or characteristic.	Initial releases & disposal occurred prior to and after the effective date of RCRA rules and before the LDRs of Chapter 3745-270 were in effect. Based on the RFIs under the Consent Decree conducted under Ohio EPA oversight, the CAMU-eligible waste (which is the source of the PHC in soil and groundwater) was generated during GDP operations during the 1950s, '60s, '70s, and early '80s when wastes were managed in unlined wastewater treatment ponds, were disposed in landfills with no engineered liners, and were not managed per current standards.
(E) The director will specify, in the permit or order, requirements for CAMUs to include the following:	
(1) The areal configuration of the CAMU.	The disposal CAMU (OSDC) will have an areal configuration that accommodates 12 potential cells to contain approximately 5 million cubic yards of waste (solid waste, construction/demolition debris, treated waste, soil, etc.). The design plans will be consistent with the Waste Disposition ROD and the specific design will be submitted in design plans for Ohio EPA concurrence. T/S CAMU configurations will be presented in the Integrated Remedial Design Plans (or the like) for remediation areas that are subject to approval/concurrence by Ohio EPA. These will comply with Section (F) below.
(2) Except as provided in paragraph (G) of this rule, requirements for CAMU-eligible waste management to include the specification of applicable design, operation, treatment and closure requirements in the hazardous waste rules.	The disposal CAMU (OSDC) will have an areal configuration that accommodates 12 potential cells to contain approximately 5 million cubic yards of waste (solid waste, construction/demolition debris, treated waste, soil, etc.). The design plans will be consistent with the Waste Disposition ROD and the specific design will be submitted in design plans for Ohio EPA concurrence. T/S CAMU configurations will be presented in the Integrated Remedial Design Plans (or the like) for remediation areas that are subject to approval/concurrence by Ohio EPA. These will comply with Section (F) below.
(3) Minimum design requirements. CAMUs, except as provided in paragraph (F) of this rule, into which wastes are placed must be designed in accordance with the following:	The disposal CAMU (OSDC) will have an areal configuration that accommodates 12 potential cells to contain approximately 5 million cubic yards of waste (solid waste, construction/demolition debris, treated waste, soil, etc.). The design plans will be consistent with the Waste Disposition ROD and the specific design will be submitted in design plans for Ohio EPA concurrence. T/S CAMU configurations will be presented in the Integrated Remedial Design Plans (or the like) for remediation areas that are subject to approval/concurrence by Ohio EPA. These will comply with Section (F) below.
(a) Unless the director approves alternate requirements under paragraph (E)(3)(b) of this rule, CAMUs that consist of new, replacement, or laterally expanded units must include a [1]composite liner and a leachate collection system that is designed and constructed to maintain [2]less than a thirty centimeter depth of leachate over the liner. For purposes of this rule, composite liner means a system [3]consisting of two components; the upper component must consist of a [4]minimum thirty mil flexible membrane liner, and the lower component must consist of [5]at least a two-foot layer of compacted soil with a [6]hydraulic conductivity of no more than 1×10^{-7} cm/sec. Flexible membrane liner components consisting of high density polyethylene must be [7]at least sixty mil thick. The flexible membrane liner component must be installed in [8]direct and uniform contact with the compacted soil component; *NOTE: the superscript brackets [ ] have been added for ease of comparison to the proposed design.*	The OSDC Liner system is a composite liner system[1] consisting of 5 components[3]. The components of the liner system consist of the following from bottom to top: a. **Compacted Clay Liner**: 3 ft of compacted clay[5] (hydraulic conductivity less than 1 x 10^{-7} cm/sec)[6], b. **Secondary Barrier Layer**: GCL, 80-mil-thick HDPE flexible membrane liner[8], and cushion geotextile, e. **Leak Detection System Drainage Layer**: 1 ft leak detection gravel, f. **Primary Barrier Layer**: GCL, 80-mil-thick flexible membrane liner, and cushion geotextile,[4,7] i. **Leachate Collection System Drainage Layer**: 1 ft of drainage gravel. Drainage and leak detection layers have a minimum permeability of 1 x 10^{-2} cm/sec and are designed to allow no more than 1 ft (30 cm) of head on the liner[2]. The liner surface has a minimum slope of 2% toward the leachate collection corridor and 1% within the leachate collection corridor which allows the leachate to exit the OSDC via gravity.
(b) Alternate requirements. The director may approve alternate requirements if:	See (E)(3)(a) above.

3745-57-72 Corrective Action Management Units (CAMUs) (Continued)

RULE	DOE Approach
(i) The director finds that alternate design and operating practices, together with location characteristics, will prevent the migration of any hazardous constituents into the ground water or surface water at least as effectively as the liner and leachate collection systems in paragraph (E)(3)(a) of this rule; or	See (E)(3)(a) above.
(ii) The CAMU is to be established in an area with existing significant levels of contamination, and the director finds that an alternative design, including a design that does not include a liner, would prevent migration from the unit that would exceed long-term remedial goals.	See (E)(3)(a) above.
(4) Minimum treatment requirements: Unless the wastes will be placed in a CAMU for storage and/or treatment only in accordance with paragraph (F) of this rule, CAMU-eligible wastes that, absent this rule, would be subject to the treatment requirements of Chapter 3745-270 of the Administrative Code, and that the director determines contain principal hazardous constituents must be treated to the standards specified in paragraph (E)(4)(c) of this rule.	See (E)(4)(d)(iii).
(a) Principal hazardous constituents are those constituents that the director determines pose a risk to human health and the environment substantially higher than the cleanup levels or goals at the site.	Acknowledged.
(i) In general, the director will designate as principal hazardous constituents:	Acknowledged; see below.
(a) Carcinogens that pose a potential direct risk from ingestion or inhalation at the site at or above 10^{-3}; and	The analysis indicates that TCE has met this criterion for designation as a PHC (see Appendix D). The existing data, all of which is part of the Administrative Record as data collected pursuant to Ohio EPA Consent Decree requirements and as data collected pursuant to requirements under the D&D DFF&O, has been evaluated and shows that only TCE is present in CAMU-eligible wastes at concentrations that would pose a $>10^{-3}$ ELCR or HQ of 10. An evaluation of the PORTS databases for other prominent carcinogenic COPCs has been performed against their respective threshold value and no other constituent has been detected above the threshold criteria. Therefore, TCE is recognized as the single PHC for the T/S/D CAMU. However, if during evaluation of data gained by additional routine characterization during the corrective action and remedial design/remedial action processes, a constituent is identified as a potential PHC, Ohio EPA will be notified to determine if conditions warrant the designation of an additional PHC.
(b) Non-carcinogens that pose a potential direct risk from ingestion or inhalation at the site an order of magnitude or greater over their reference dose.	An evaluation of the PORTS databases for non-carcinogenic COPCs has been performed against their respective threshold value and no constituent has been detected above the threshold criteria. However, if during evaluation of data gained by additional routine characterization during the corrective action and remedial design/remedial action processes, a constituent is identified as a potential PHC, Ohio EPA will be notified to determine if conditions warrant the designation of an additional PHC.
(ii) The director will also designate constituents as principal hazardous constituents, where appropriate, when risks to human health and the environment posed by the potential migration of constituents in wastes to ground water are substantially higher than cleanup levels or goals at the site; when making such a designation, the director may consider such factors as constituent concentrations, and fate and transport characteristics under site conditions.	Acknowledged. It is not anticipated that risks to human health and the environment posed by potential migration of constituents in wastes to groundwater will be substantially higher than cleanup levels or goals. TCE is proposed as the single PHC in soil. However, if during evaluation of data gained by additional routine characterization during the corrective action and remedial design/remedial action processes, a constituent is identified as a potential PHC, Ohio EPA will be notified to determine if conditions warrant the designation of an additional PHC.
(iii) The director may also designate other constituents as principal hazardous constituents that the director determines pose a risk to human health and the environment substantially higher than the cleanup levels or goals at the site.	Acknowledged. However, other constituents in soil have not been identified that meet this criterion. If during evaluation of data gained by additional routine characterization during the corrective action and remedial design/remedial action processes, a constituent is identified as a potential PHC, Ohio EPA will be notified to determine if conditions warrant the designation of an additional PHC.
(b) In determining which constituents are "principal hazardous constituents," the director will consider all constituents which, absent this rule, would be subject to the treatment requirements in Chapter 3745-270 of the Administrative Code.	Acknowledged. TCE is proposed to be the single PHC in soil as it is the only constituent that poses $>1E^{-3}$ ELCR or HQ of 10 and is the driver for all groundwater corrective action. If other PHCs are identified in the future, this section will be reevaluated and reviewed with Ohio EPA for applicability.

3745-57-72 Corrective Action Management Units (CAMUs) (Continued)

RULE	DOE Approach
(c) Waste that the director determines contains principal hazardous constituents must meet treatment standards determined in accordance with paragraph (E)(4)(d) or (E)(4)(e) of this rule.	Acknowledged. TCE is proposed to be the single PHC in soil.
d) Treatment standards for wastes placed in CAMUs.	See below.
(i) For non-metals, treatment must achieve ninety per cent reduction in total principal hazardous constituent concentrations, except as provided by paragraph (E)(4)(d)(iii) of this rule.	Acknowledged. However, due to site-specific circumstances with TCE as the single PHC, Section (E)(4)(e) is more appropriate and applicable. See (E)(4)(e)(iii) and (E)(4)(e)(v)(b). If other PHCs are identified in the future, this section will be reevaluated and reviewed with Ohio EPA for applicability.
(ii) For metals, treatment must achieve ninety per cent reduction in principal hazardous constituent concentrations as measured in leachate from the treated waste or media [tested according to the toxicity characteristic leaching procedure (TCLP)] or ninety per cent reduction in total constituent concentrations (when a metal removal treatment technology is used), except as provided by paragraph (E)(4)(d)(iii) of this rule.	Acknowledged. However, TCE is proposed as the single PHC in soil based on existing data. If other PHCs are identified in the future, this section will be reevaluated and reviewed with Ohio EPA for applicability.
(iii) When treatment of any principal hazardous constituent to a ninety per cent reduction standard would result in a concentration less than ten times the universal treatment standard for that constituent, treatment to achieve constituent concentrations less than ten times the universal treatment standard is not required. Universal treatment standards are identified in the table in rule 3745-270-48 of the Administrative Code.	Acknowledged.
(iv) For waste exhibiting the hazardous characteristic of ignitability, corrosivity or reactivity, the waste must also be treated to eliminate these characteristics.	Not applicable based on existing data. However, if additional data indicates the presence of other PHCs, this section will be reevaluated and reviewed with Ohio EPA for applicability.
(v) For debris, the debris must be treated in accordance with rule 3745-270-45 of the Administrative Code, or by methods or to levels established under paragraphs (E)(4)(d)(i) to (E)(4)(d)(iv) or paragraph (E)(4)(e) of this rule, whichever the director determines is appropriate.	Hazardous Waste and Universal Waste will be removed prior to demolition of facilities that would render the remainder of the facility as Non-Hazardous Solid Waste or Construction and Demolition Debris (as appropriate) for demolition. The subsequent disposal of the accumulated Universal Waste/Hazardous Waste needs to comply with the WAC (LDR) as it relates to the OSDC. Non-Hazardous Solid Waste and Construction and Demolition Debris are not addressed under this rule.
(vi) Alternatives to TCLP. For metal bearing wastes for which metals removal treatment is not used, the director may specify a leaching test other than the TCLP (U.S. EPA publication SW-846 method 1311) to measure treatment effectiveness, provided the director determines that an alternative leach testing protocol is appropriate for use, and that the alternative more accurately reflects conditions at the site that affect leaching.	Acknowledged.
(e) Adjusted standards. The director may adjust the treatment level or method in paragraph (E)(4)(d) of this rule to a higher or lower level, based on one or more of the following factors, as appropriate. The adjusted level or method must be protective of human health and the environment:	The design and construction of a potential OSDC (the requested disposal CAMU) will provide long-term protection to human health and the environment by containing the contamination inside a double-lined, capped, monitored disposal facility with leachate collection and treatment capabilities. The Intermediate Design Package of the OSDC is included in the Waste Disposition RI/FS and has been reviewed by Ohio EPA. Also see (E)(4)(e)(v)(b).
(i) The technical impracticability of treatment to the levels or by the methods in paragraph (E)(4)(d) of this rule;	DOE believes that, based on U.S. EPA guidance, treating contaminated fill further would be considered technically inappropriate under 3745-57-72(E)(4)(e)(i). Where, as here, if there is an option to leave some contaminated soils in place as opposed to a more aggressive remediation such as excavation, then it is considered technically inappropriate to require treatment when avoiding such treatment will nevertheless be protective and more cost-effective." (62 FR 64504, December 5, 1997)
(ii) The levels or methods in paragraph (E)(4)(d) of this rule would result in concentrations of principal hazardous constituents that are significantly above or below cleanup standards applicable to the site;	Acknowledged. If additional data indicates the presence of PHCs other than TCE, this section will be reevaluated and reviewed with Ohio EPA for applicability.

3745-57-72 Corrective Action Management Units (CAMUs) (Continued)

RULE	DOE Approach
(iii) The views of the affected local community on the treatment levels or methods in paragraph (E)(4)(d) of this rule as applied at the site, and, for treatment levels, the treatment methods necessary to achieve these levels;	The local community will have the opportunity to comment on the Waste Disposition Proposed Plan. The expectation of the local community is for DOE to complete D&D and environmental remediation at PORTS safely and expeditiously and return PORTS to potential reindustrialization. Even more importantly, the community is interested in having the landfills and groundwater plume soil excavated and disposed and, therefore, a cost-effective treatment for that waste is needed.
(iv) The short-term risks presented by the on-site treatment method necessary to achieve the levels or treatment methods in paragraph (E)(4)(d) of this rule;	Acknowledged. If additional data indicates the presence of PHCs other than TCE, this section will be reevaluated and reviewed with Ohio EPA for applicability.
(v) The long-term protection offered by the engineering design of the CAMU and related engineering controls:	See (E)(4)(e)(v)(*b*).
(a) Where the treatment standards in paragraph (E)(4)(d) of this rule are substantially met and the principal hazardous constituents in the waste or residuals are of very low mobility; or	Acknowledged. If additional data indicates the presence of PHCs other than TCE, this section will be reevaluated and reviewed with Ohio EPA for applicability.
(b) Where cost-effective treatment has been used and the CAMU meets the liner and leachate collection requirements for new land disposal units at paragraphs (C) and (D) of rule 3745-57-03 of the Administrative Code; or	See justification under Point 8 in the main text and Appendix E.
(c) Where, after review of appropriate treatment technologies, the director determines that cost-effective treatment is not reasonably available, and the CAMU meets the liner and leachate collection requirements for new land disposal units at paragraphs (C) and (D) of rule 3745-57-03 of the Administrative Code; or	Acknowledged. If additional data indicates the presence of PHCs other than TCE, this section will be reevaluated and reviewed with Ohio EPA for applicability.
(d) Where cost-effective treatment has been used and the principal hazardous constituents in the treated wastes are of very low mobility; or	Acknowledged. If additional data indicates the presence of PHCs other than TCE, this section will be reevaluated and reviewed with Ohio EPA for applicability.
(e) Where, after review of appropriate treatment technologies, the director determines that cost-effective treatment is not reasonably available, the principal hazardous constituents in the wastes are of very low mobility, and either the CAMU meets or exceeds the liner standards for new, replacement, or laterally expanded CAMUs in paragraphs (E)(3)(a) and (E)(3)(b) of this rule, or the CAMU provides substantially equivalent or greater protection.	Acknowledged. If additional data indicates the presence of PHCs other than TCE, this section will be reevaluated and reviewed with Ohio EPA for applicability.
(f) The treatment required by the treatment standards must be completed prior to, or within a reasonable time after, placement in the CAMU.	Treatment Standards will be met prior to or within a reasonable time after placement and as a requisite for placement/disposal in the OSDC.
(g) For the purpose of determining whether wastes placed in CAMUs have met site-specific treatment standards, the director may, as appropriate, specify a subset of the principal hazardous constituents in the waste as analytical surrogates for determining whether treatment standards have been met for other principal hazardous constituents. This specification will be based on the degree of difficulty of treatment and analysis of constituents with similar treatment properties.	Not needed based on TCE as single PHC. If other PHCs are identified in the future, this section will be re-evaluated.
(5) Except as provided in paragraph (F) of this rule, requirements for ground water monitoring and corrective action that are sufficient to:	The details of groundwater monitoring, which will comply with all ARARs (solid waste rule requirements and hazardous waste rule requirements), will be submitted as part of the OSDC Design Criteria, OSDC Monitoring Plan that will be submitted for approval/concurrence by Ohio EPA. In general, each cell in the OSDC will have monitoring wells that cover the underlying aquifer system formation by formation.
(a) Continue to detect and to characterize the nature, extent, concentration, direction, and movement of existing releases of hazardous constituents in ground water from sources located within the CAMU; and	OSDC Groundwater monitoring for each cell will consist of upgradient and downgradient wells installed in clusters or nested to monitor 3 different elevations: the Berea Formation, the 680 Sandstone layer (in the Cuyahoga Formation), and the 720 Sandstone layer (in the Cuyahoga Formation).

3745-57-72 Corrective Action Management Units (CAMUs) (Continued)

RULE	DOE Approach
(b) Detect and subsequently characterize releases of hazardous constituents to ground water that may occur from areas of the CAMU in which wastes will remain in place after closure of the CAMU; and	OSDC Groundwater monitoring will consist of upgradient and downgradient wells installed in clusters or nested to monitor 3 different elevations: the Berea Formation, the 680 Sandstone layer (in the Cuyahoga Formation), and the 720 Sandstone layer (in the Cuyahoga Formation).
(c) Require notification to the director and corrective action as necessary to protect human health and the environment for releases to ground water from the CAMU.	OSDC Groundwater monitoring plan will require Ohio EPA notification of any releases. The groundwater monitoring plan will state that a corrective action plan will be submitted to Ohio EPA for review/concurrence, as necessary, to ensure protection human health and the environment.
(6) Except as provided in paragraph (F) of this rule, closure and post-closure requirements:	The OSDC Closure Plan, which will comply with all ARARs, will be submitted for approval/concurrence by Ohio EPA. This Closure Plan will address these closure requirements for the area of the T/S/D CAMU (OSDC).
(a) Closure of corrective action management units must:	See (E)(6).
(i) Minimize the need for further maintenance; and	See (E)(6).
(ii) Control, minimize, or eliminate, to the extent necessary to protect human health and the environment, for areas where wastes remain in place, post-closure escape of hazardous wastes, hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products to the ground, to surface waters, or to the atmosphere.	See (E)(6).
(b) Requirements for closure of CAMUs must include the following, as appropriate and as deemed necessary by the director for a given CAMU:	Acknowledged.
(i) Requirements for excavation, removal, treatment, or containment of wastes; and	Acknowledged. Wastes will be contained within the OSDC. The leachate collection and removal system will allow leachate to drain from the OSDC. This leachate will be conveyed through double-walled pipes to the ILTS during construction and operation and the PLTS after closure.
(ii) Requirements for removal and decontamination of equipment, devices, and structures used in CAMU-eligible waste management activities within the CAMU.	Acknowledged. Equipment used during waste placement will be decontaminated at the end of their use.
(c) In establishing specific closure requirements for CAMUs under paragraph (E) of this rule, the director will consider the following factors:	See (E)(6).
(i) CAMU characteristics;	See (E)(6).
(ii) Volume of wastes which remain in place after closure;	See (E)(6).
(iii) Potential for releases from the CAMU;	See (E)(6).
(iv) Physical and chemical characteristics of the waste;	See (E)(6).
(v) Hydrogeological and other relevant environmental conditions at the facility which may influence the migration of any potential or actual releases; and	See (E)(6).
(vi) Potential for exposure of humans and environmental receptors if releases were to occur from the CAMU.	See (E)(6).

3745-57-72 Corrective Action Management Units (CAMUs) (Continued)

RULE	DOE Approach
(d) Cap requirements:	--
(i) At final closure of the CAMU, for areas in which wastes will remain after closure of the CAMU, with constituent concentrations at or above remedial levels or goals applicable to the site, the owner or operator must cover the CAMU with a final cover designed and constructed to meet the following performance criteria, except as provided in paragraph (E)(6)(d)(ii) of this rule:	The Final Cover system will consist of the following layers from bottom to top: a. Contouring layer, 2 ft compacted clay (max hydraulic conductivity less than 1 x 10^{-7} cm/sec), b. GCL, 80-mil-thick HDPE flexible membrane liner, cushion geotextile, c. 1 ft cover drainage layer, d. 3-ft-thick type D dumped rock fill for biointrusion barrier layer, e. 6 in. filter sand layer, f. 21 in. vegetative soil, and g. 6 in. topsoil with vegetation. This final cover system extends beyond the limits of waste to prevent intrusion of surface water and groundwater into the OSDC after closure. Final cover slopes are anticipated to be 20:1, 10:1, and 6:1 for ease of maintenance, and to maintain stability and minimize erosion.
(a) Provide long-term minimization of migration of liquids through the closed unit;	See (E)(6)(d)(i) above.
(b) Function with minimum maintenance;	See (E)(6)(d)(i) above.
(c) Promote drainage and minimize erosion or abrasion of the cover;	See (E)(6)(d)(i) above.
(d) Accommodate settling and subsidence so that the cover's integrity is maintained; and	See (E)(6)(d)(i) above.
(e) Have a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present.	The impermeable GML layer within the OSDC cap will provide equal initial permeability to the bottom liner system. Both systems rely on GML layers to provide practically impermeable barriers. The cap could also be repaired or replaced if necessary in the future, unlike the bottom liner system for which repair or replacement would not be practical or even possible. Therefore, the cap would be able to maintain longer term low permeability beyond the time frame expected for the bottom liner system.
(ii) The director may determine that modifications to paragraph (E)(6)(d)(i) of this rule are needed to facilitate treatment or the performance of the CAMU (e.g., to promote biodegradation).	See (E)(6)(d)(i)(*e*) above.
(e) Post-closure requirements as necessary to protect human health and the environment, to include, for areas where wastes will remain in place, monitoring and maintenance activities, and the frequency with which such activities must be performed to ensure the integrity of any cap, final cover, or other containment system.	See (E)(6)(d)(i) above. The OSDC Post Closure Care Plan will specify the requirements for monitoring and maintenance of the OSDC after closure to ensure the integrity of the final cover system. Monitoring and maintenance activities and their frequencies will be established in this plan.

3745-57-72 Corrective Action Management Units (CAMUs) (Continued)

RULE	DOE Approach
(F) CAMUs used for storage and/or treatment only are CAMUs in which wastes will not remain after closure. Such CAMUs must be designated in accordance with all of the requirements of this rule, except as follows.	
(1) CAMUs that are used for storage and/or treatment only and that operate in accordance with the time limits established in the staging pile regulations at paragraphs (D)(1)(c), (H), and (I) of rule 3745-57-74 of the Administrative Code are subject to the requirements for staging piles at paragraphs (D)(1)(a), (D)(1)(b), (D)(2), (E), (F), (J), and (K) of rule 3745-57-74 of the Administrative Code in lieu of the performance standards and requirements for CAMUs in paragraphs (C) and (E)(3) to (E)(6) of this rule.	Treatment/Storage CAMUs will be established as needed near remediation sites and use Staging Piles, which will be described in the Integrated Remedial Design Plans for those specific remediations subject to approval/concurrence by Ohio EPA, as appropriate. Those plans will describe the time limits intended for implementation of the remedy (3745-57-74 (D)(1)(c)) and the requirements of: (D)(1)(a) - facilitation of effective remedy ... (D)(1)(b) - design to prevent or minimize releases ... (D)(2) - establishment of design criteria ... (E) - Ignitable/Reactive prohibitions/criteria ... (F) - Incompatibility of wastes within staging piles ... (J) - Closure Requirements in previously contaminated areas ... (K) - Closure Requirements in previously uncontaminated areas ... Additionally, the OSDC design depicts a T/S CAMU, referenced as the IMTA used to stage/transfer impacted material to the OSDC (Disposal CAMU), where the design of the IMTA is included as part of the design packages submitted to Ohio EPA for their review and concurrence/approval, as appropriate. The design of the IMTA will comply with the requirements of paragraphs (D)(1)(a), (D)(1)(b), (D)(2), (E), (F), (J), and (K) of rule 3745-57-74 of the Administrative Code. However, the time limits for the IMTA must be adjusted to coincide with the operation of the T/S/D CAMU (OSDC); see (F)(2)(a) below.
(2) CAMUs that are used for storage and/or treatment only and that do not operate in accordance with the time limits established in the staging pile regulations at paragraphs (D)(1)(c), (H), and (I) of rule 3745-57-74 of the Administrative Code:	Acknowledged. See (a) below.
(a) Must operate in accordance with a time limit, established by the director, that is no longer than necessary to achieve a timely remedy selected for the waste, and	The OSDC design depicts a T/S CAMU used to stage/transfer impacted material to the OSDC (Disposal CAMU) during timeframes of the year when placement of waste within the OSDC is temporarily postponed due to freeze/thaw cycles in southern Ohio at which times OSDC operational requirements cannot be met. This area is the IMTA and will remain in operation for the duration that the OSDC (Disposal CAMU) is in operation, which is necessary to achieve a timely remedy for the waste.
(b) Are subject to the requirements for staging piles at paragraphs (D)(1)(a), (D)(1)(b), (D)(2), (E), (F), (J), and (K) of rule 3745-57-74 of the Administrative Code in lieu of the performance standards and requirements for CAMUs in paragraphs (C), (E)(4), and (E)(6) of this rule.	Acknowledged. See (F)(1) above.
(G) CAMUs into which wastes are placed where all wastes have constituent levels at or below remedial levels or goals applicable to the site do not have to comply with the requirements for liners at paragraph (E)(3)(a) of this rule, caps at paragraph (E)(6)(d) of this rule, ground water monitoring requirements at paragraph (E)(5) of this rule or, for treatment and/or storage-only CAMUs, the design standards at paragraph (F) of this rule.	Acknowledged.
(H) The director will provide public notice and a reasonable opportunity for public comment before designating a CAMU. Such notice must include the rationale for any proposed adjustments under paragraph (E)(4)(e) of this rule to the treatment standards in paragraph (E)(4)(d) of this rule.	CAMU will be included in the Waste Disposition Proposed Plan/ROD process and in the Deferred Units Preferred Plan/Decision Document process. Public Comment will be addressed.

3745-57-72 Corrective Action Management Units (CAMUs) (Continued)

RULE	DOE Approach
(I) Notwithstanding any other provision of this rule, the director may impose additional requirements as necessary to protect human health and the environment	Acknowledged.
(J) Incorporation of a CAMU into an existing permit must be approved by the director according to the procedures for permit modifications under rule 3745-50-51 of the Administrative	Not applicable.
(K) The designation of a CAMU does not change Ohio EPA's existing authority to address clean-up levels, media-specific points of compliance to be applied to remediation at a facility, or other remedy selection decisions.	Acknowledged.

AOC = area of contamination
ARAR = applicable or relevant and appropriate requirement
CAMU = Corrective Action Management Unit
COPC = chemical of potential concern
D&D = decontamination and decommissioning
DFF&O = *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DNAPL = dense non-aqueous phase liquids
DOE = U.S. Department of Energy
ELCR = excess lifetime cancer risk
FR = Federal Register
GCL = geosynthetic clay liner
GDP = gaseous diffusion plant
GML = geomembrane liner
HDPE = high density polyethylene
HQ = hazard quotient
ILTS = Interim Leachate Treatment System
IMTA = impacted material transfer area
LDR = land disposal restriction
Ohio EPA = Ohio Environmental Protection Agency
OSDC = on-Site disposal cell
PHC = principal hazardous constituent
PLTS = Permanent Leachate Treatment System
PORTS = Portsmouth Gaseous Diffusion Plant
RCRA = Resource Conservation and Recovery Act of 1976, as amended
RFI = RCRA Facility Investigation
RI/FS = Remedial Investigation/Feasibility Study
ROD = Record of Decision
TCE = trichloroethene
TCLP = Toxicity Characteristic Leaching Procedure
T/S = treatment/storage
T/S/D = treatment/storage/disposal
U.S. EPA = United States Environmental Protection Agency
WAC = waste acceptance criteria

APPENDIX C: IDENTIFICATION OF ANTICIPATED CAMU-ELIGIBLE WASTE STREAMS ASSOCIATED WITH THE PORTS CLEANUP

ACRONYMS

CAMU	Corrective Action Management Unit
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE	U.S. Department of Energy
PCB	polychlorinated biphenyl
PORTS	Portsmouth Gaseous Diffusion Plant
RAD	radiological
RCRA	Resource Conservation and Recovery Act of 1976, as amended
TSCA	Toxic Substances Control Act of 1976

Appendix C describes the U.S. Department of Energy's (DOE's) evaluation process to determine the Corrective Action Management Unit (CAMU) eligibility of materials generated at the Portsmouth Gaseous Diffusion Plant (PORTS) during overall cleanup. This appendix is a regulatory road map of all anticipated waste materials generated from both *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O) and non-DFF&O cleanup activities. The appendix organizes the origin of the anticipated waste streams into four major categories: building contents, the building structures, contaminated fill, and remaining contaminated environmental media. Within each category, specific waste sources are identified and each is identified with one of 12 different regulatory waste types (e.g., "Radiological (RAD) Free: [Resource Conservation and Recovery Act of 1976, as amended] RCRA hazardous", "RAD Contaminated: RCRA Non-Hazardous Construction Demolition Debris").

This road map is designed to be a quick reference and a summary of a very complex regulatory evaluation process conducted by DOE for all DFF&O and non-DFF&O anticipated waste streams.

Key:

The 4 Major Material Origin Categories:

1) Material Origin Category #1: **Building Contents**

2) Material Origin Category #2: **Building Structures**

3) Material Origin Category #3: **Contaminated Fill** from four PORTS contaminated sources (residual soil defined in the DFF&O; deferred unit soil/closure of the firing range; targeted plume soil; and targeted landfill excavation)

4) Material Origin Category #4: Additional Ohio Consent Decree **Contaminated Environmental Media** needing removal after fill needs are met

The 12 Major Regulatory Waste Types:

1) RAD Free: RCRA Hazardous (Listed or Characteristic) – CAMU Ineligible

2) RAD Free: RCRA Hazardous (Listed or Characteristic) – CAMU Eligible

3) RAD Free: RCRA Non Hazardous Toxic Substances Control Act of 1976 (TSCA) contaminated materials (polychlorinated biphenyl [PCB] wastes)

4) RAD Free: RCRA Non-Hazardous Construction Demolition Debris

5) RAD Free: RCRA Non-Hazardous Solid Wastes

6) RAD Contaminated: RCRA Hazardous (Listed or Characteristic) – CAMU Ineligible

7) RAD Contaminated: RCRA Hazardous (Listed or Characteristic) – CAMU Eligible

8) RAD Contaminated: RCRA Non-Hazardous TSCA contaminated materials (PCB wastes)

9) RAD Contaminated: RCRA Non-Hazardous Construction Demolition Debris

10) RAD Contaminated: RCRA Non-Hazardous Solid Wastes

11) Nuclear Products in Inventory

12) Non-Waste Materials Considered as Potential Recycle Materials

Note: All quantities are in cubic yards.

CAMU INELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
1. Building Contents								
1.1	RAD Free: RCRA Hazardous (Listed or Characteristic) And RAD Free: RCRA Non-Hazardous Solid Wastes (only the daily trash component)	As generated wastes: -RCRA Wastes in Containers (e.g., RCRA Storage or Satellite Accumulation Areas) and -RCRA Hazardous Lab Chemicals from on-Site laboratory operations, both generated during industrial operations, and -Solid waste generated as daily trash during industrial operations	0	354	Waste was/is generated during process operations and will be removed from the building in preparation for structure demolition.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released or disposed on Site, but sent to appropriate off-Site permitted disposal facilities.	N/A. There was no on-Site disposal or any release of this waste category. Waste is newly generated during D&D activities for on-Site disposal.	No
1.6	RAD Contaminated: RCRA Hazardous (Listed or Characteristic)	RAD contaminated containerized wastes and above-grade tanks and materials Incidental MLLW generated during operations of RCRA-permitted area	0	114	Waste was/is generated during process operations and will be removed from the building in preparation for structure demolition.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released or disposed on Site, but sent to appropriate off-Site permitted disposal facilities.	N/A. There was no on-Site disposal or any release of this waste category. Waste is newly generated during D&D activities for on-Site disposal.	No

CAMU INELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
2. Building Structures								
2.1	RAD Free: RCRA Hazardous (Listed or Characteristic)	None Anticipated	0	0	N/A	N/A	N/A	No
2.6	RAD Contaminated: RCRA Hazardous (Listed or Characteristic)	None Anticipated	0	0	N/A	N/A	N/A	No
3. Contaminated Fill								
3.1	RAD Free: RCRA Hazardous (Listed or Characteristic)	None Anticipated	0	0	N/A	N/A	N/A	No
3.6	RAD Contaminated: RCRA Hazardous (Listed or Characteristic)	None Anticipated	0	0	N/A	N/A	N/A	No

CAMU INELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
4. Contaminated Environmental Media								
4.1	RAD Free: RCRA Hazardous (Listed or Characteristic)	None Anticipated	0	0	N/A	N/A	N/A	No
4.6	RAD Contaminated: RCRA Hazardous (Listed or Characteristic)	None Anticipated	0	0	N/A	N/A	N/A	No

CAMU = Corrective Action Management Unit
D&D = decontamination and decommissioning
MLLW = mixed low-level (radioactive) waste
N/A = not applicable
RAD = radiological
RCRA = Resource Conservation and Recovery Act of 1976, as amended
RI/FS = Remedial Investigation/Feasibility Study

CAMU ELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
1. Building Contents								
1.2	RAD Free: RCRA Hazardous (Listed or Characteristic)	Universal Wastes. Lead Circuit Boards While the category is CAMU-eligible, DOE currently plans to manage all waste in this category for off-Site disposal at a permitted TSDF	0	The volume of this waste is included with the RAD Free: RCRA Hazardous in Waste Type 1.1 above.	Waste is generated during D&D activities in preparation for structure demolition.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released and is managed in compliance prior to disposal.	N/A. There is no on-Site disposal or any release of this waste category. Waste is newly generated during D&D activities for on- or off-Site disposal.	Yes
1.3	RAD Free: RCRA Non-Hazardous TSCA contaminated materials (PCB wastes)	None Anticipated	0	0	TBD	TBD	TBD	Yes
1.4	RAD Free: RCRA Non-Hazardous Construction Demolition Debris	None Anticipated	0	0	TBD	TBD	TBD	Yes

CAMU ELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
1. Building Contents (continued)								
1.5	RAD Free: RCRA Non-Hazardous Solid Wastes	Dry transformers, misc. equipment, unrecycled office furniture and cabinets	6,676	3,491	Waste is generated during D&D activities in preparation for structure demolition.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released on Site and is managed in compliance prior to on-Site disposal.	N/A. There was no on-Site disposal or any release of this waste category. Waste is newly generated during D&D activities for on-Site disposal.	Yes
1.7	RAD Contaminated: RCRA Hazardous (Listed or Characteristic)	PPE IDW and D&DDW This waste has not been quantified but will be an insignificant volume	0 (minimal)	0	Waste is generated during D&D activities in preparation for structure demolition.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released on Site and is managed in compliance prior to on-Site disposal.	N/A. There was no on-Site disposal or any release of this waste category. Waste is newly generated during D&D activities for on-Site disposal.	Yes
1.8	RAD Contaminated: RCRA Non-Hazardous TSCA contaminated materials (PCB wastes)	Empty PCB contaminated lube oil tanks, PCB collection system, and empty PCB transformers and IDW and D&DDW	14,335	4,460	Waste is generated during D&D activities in preparation for structure demolition.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released on Site and is managed in compliance prior to on-Site disposal.	N/A. There was no on-Site disposal or any release of this waste category. Waste is newly generated during D&D activities for on-Site disposal.	Yes

CAMU ELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
1. Building Contents (continued)								
1.9	RAD Contaminated: RCRA Non-Hazardous Construction Demolition Debris	None Anticipated	0	0	TBD	TBD	TBD	Yes
1.10	RAD Contaminated: RCRA Non-Hazardous Solid Wastes	Process equipment and piping, RAD contaminated items, transite/steel cell housing, material generated during removal and processing of components	362,662	74,547 (Note: this off-Site volume includes the DOE commitment to ship the compressors and converters from Building X-326 off Site for disposal.)	Waste is generated during D&D activities in preparation for structure demolition.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released on Site and is managed in compliance prior to on-Site disposal. This waste category includes non-hazardous waste.	N/A. There was no on-Site disposal or any release of this waste category. Waste is newly generated during D&D activities for on-Site disposal.	Yes
2. Building Structures								
2.2	RAD Free: RCRA Hazardous (Listed or Characteristic)	None Anticipated	0	0	TBD	TBD	TBD	Yes
2.3	RAD Free: RCRA Non-Hazardous TSCA contaminated materials (PCB wastes)	None Anticipated	0	0	TBD	TBD	TBD	Yes

CAMU ELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
2. Building Structures (continued)								
2.4	RAD Free: RCRA Non-Hazardous Construction Demolition Debris	Misc. concrete structures, slab/below-grade concrete, miscellaneous clean structures and buildings	17,474	14,546	Waste is generated during D&D activities as a part of structure demolition.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released on Site and is managed in compliance prior to on-Site disposal.	N/A. There was no on-Site disposal or any release of this waste category. Waste is newly generated during D&D activities for on-Site disposal.	Yes
2.5	RAD Free: RCRA Non-Hazardous Solid Wastes	None Anticipated	0	0	TBD	TBD	TBD	Yes
2.7	RAD Contaminated: RCRA Hazardous (Listed or Characteristic)	None Anticipated	0	0	TBD	TBD	TBD	Yes
2.8	RAD Contaminated: RCRA Non-Hazardous TSCA contaminated materials (PCB wastes)	Ductwork, PCB Spills/Stained Concrete	18,484	0	Waste is generated during D&D activities as a part of structure demolition.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released on Site and is managed in compliance prior to on-Site disposal.	N/A. There was no on-Site disposal or any release of this waste category. Waste is newly generated during D&D activities for on-Site disposal.	Yes

CAMU ELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
2. Building Structures (continued)								
2.9	RAD Contaminated: RCRA Non-Hazardous Construction Demolition Debris	Building structures, exterior transite, conduit, catwalks, ventilation systems, slab/below grade concrete, water lines, fire suppression systems	765,555	21,288	Waste is generated during D&D activities as a part of structure demolition.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released on Site and is managed in compliance prior to on-Site disposal.	N/A. There was no on-Site disposal or any release of this waste category. Waste is newly generated during D&D activities for on-Site disposal.	Yes
Note: During the demolition process, (similar to X-770, a completed project at PORTS) this stream may be commingled with the on-Site portion of the TSCA waste stream, changing volumes from Item 2.9 into Item 2.8 as the OSDC can accept TSCA-regulated waste. Segregation of these streams would be of no added benefit.								
2.10	RAD Contaminated: RCRA Non-Hazardous Solid Wastes	None Anticipated	0	0	TBD	TBD	TBD	Yes

CAMU ELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
3. Contaminated Fill								
3.2	RAD Free: RCRA Hazardous (Listed or Characteristic)	Lead-contaminated Soil from the Firing Range	13,000	1	Soil contamination in this category comes from a firing range which remains active as of August 2014. When deactivated, Corrective Action will be conducted to remediate soil contamination generating this waste. The soil contamination is not the result of disposal.	Soil contamination in this category comes from a firing range which remains active as of August 2014. When deactivated, Corrective Action will be conducted to remediate soil contamination. Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste is not released on Site and is managed in compliance prior to on-Site disposal.	N/A. There was no on-Site disposal or any release of this waste category. Waste is newly generated during Consent Decree Corrective Action activities for on-Site disposal.	Yes
3.3	RAD Free: RCRA Non-Hazardous TSCA contaminated materials (PCB wastes)	None Anticipated	0	0	TBD	TBD	TBD	Yes
3.4	RAD Free: RCRA Non-Hazardous Construction Demolition Debris	None Anticipated	0	0	TBD	TBD	TBD	Yes

CAMU ELIGIBLE

Item No.	Regulatory Waste Type	Examples	Estimated Quantities in RI/FS - On Site	Estimated Quantities in RI/FS - Off Site	3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release	3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?	3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?	3745-57-72(A)(1) - Is the Waste CAMU-Eligible?
3. Contaminated Fill (continued)								
3.5	RAD Free: RCRA Non-Hazardous Solid Wastes	None Anticipated	0	0	TBD	TBD	TBD	Yes
3.7	RAD Contaminated: RCRA Hazardous (Listed or Characteristic)	- Residual Soil from Utility/Below Grade Structures - TCE Contaminated Plume Soils - TCE Contaminated Deferred Unit Soils - TCE Contaminated Landfill non-soils - TCE Contaminated Landfill soils	53,303 1,494,230 710,000 223,000 345,000	0	Waste is generated during D&D activities for the associated structure demolition and other regulatory authorities coordinated with D&D activities for the associated structure, and during landfill actions.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste that has caused the contamination was released on Site prior to and shortly after RCRA rules in November 1980. Corrective Actions for all contamination has been implemented under the Consent Decree, but a final remedy for 7-Unit Groundwater Plume has not yet been selected by Ohio EPA. All waste generated in this category will be managed in compliance prior to on-Site disposal.	The contamination in this category was released on Site before the land disposal requirements of 3745-270 in December 1989.	Yes

CAMU ELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
3. Contaminated Fill (continued)								
3.8	RAD Contaminated: RCRA Non-Hazardous TSCA contaminated materials (PCB wastes)	None Anticipated	0	0	TBD	TBD	TBD	Yes
3.9	RAD Contaminated: RCRA Non-Hazardous Construction Demolition Debris	None Anticipated	0	0	TBD	TBD	TBD	Yes
3.10	RAD Contaminated: RCRA Non-Hazardous Solid Wastes	None Anticipated	0	0	TBD	TBD	TBD	Yes

CAMU ELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
4. Contaminated Environmental Media								
4.2	RAD Free: RCRA Hazardous (Listed or Characteristic)	TBD based on completion of the RFI/CMS	TBD	0	Waste is generated during Consent Decree Corrective Action. Waste that has caused the contamination in this category was released on Site prior to and shortly after RCRA rules in November 1980.	Waste is newly generated and evaluated at the time of generation to determine proper waste management requirements. Waste that has caused the contamination in this category was released on Site prior to and shortly after RCRA rules in November 1980. Corrective Actions have been implemented under the Consent Decree, but a final remedy for 7-Unit Groundwater Plume has not yet been selected by Ohio EPA. All waste generated in this category will be managed in compliance prior to on-Site disposal.	The contamination in this category was released on Site before the land disposal requirements of 3745-270 in December 1989.	Yes
4.3	RAD Free: RCRA Non-Hazardous TSCA contaminated materials (PCB wastes)	None Anticipated	0	0	TBD	TBD	TBD	Yes

CAMU ELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
4. Contaminated Environmental Media (continued)								
4.4	RAD Free: RCRA Non-Hazardous Construction Demolition Debris	None Anticipated	0	0	TBD	TBD	TBD	Yes
4.5	RAD Free: RCRA Non-Hazardous Solid Wastes	None Anticipated	0	0	TBD	TBD	TBD	Yes
4.7	RAD Contaminated: RCRA Hazardous (Listed or Characteristic)	TBD based on completion of the RFI/CMS	TBD	0	Waste is generated during Consent Decree Corrective Action. Waste that has caused the contamination in this category was released on Site prior to and shortly after RCRA rules in November 1980.	(see Note in 4.2)	The contamination in this category was released on Site before the land disposal requirements of 3745-270 in December 1989.	Yes
4.8	RAD Contaminated: RCRA Non-Hazardous TSCA contaminated materials (PCB wastes)	None Anticipated	0	0	TBD	TBD	TBD	Yes

CAMU ELIGIBLE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS - On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
4. Contaminated Environmental Media (continued)								
4.9	RAD Contaminated: RCRA Non-Hazardous Construction Demolition Debris	None Anticipated	0	0	TBD	TBD	TBD	Yes
4.10	RAD Contaminated: RCRA Non-Hazardous Solid Wastes	None Anticipated	0	0	TBD	TBD	TBD	Yes

CAMU = Corrective Action Management Unit
CMS = Corrective Measures Study
D&D = decontamination and decommissioning
D&DDW = D&D derived waste
DOE = U.S. Department of Energy
IDW = investigation derived waste
N/A = not applicable
Ohio EPA = Ohio Environmental Protection Agency
OSDC = on-Site disposal cell
PCB = polychlorinated biphenyl
PORTS = Portsmouth Gaseous Diffusion Plant
PPE = personnel protection equipment
RAD = radiological
RCRA = Resource Conservation and Recovery Act of 1976, as amended
RFI = RCRA Facility Investigation
RI/FS = Remedial Investigation/Feasibility Study
TBD = to be determined if waste is found during project execution
TCE = trichloroethene
TSCA = Toxic Substances Control Act of 1976
TSDF = transfer, storage, and disposal facility

NON WASTE								
Item No.	**Regulatory Waste Type**	**Examples**	**Estimated Quantities in RI/FS – On Site**	**Estimated Quantities in RI/FS - Off Site**	**3745-57-72(D)(1) - Description of Origin of Waste, and Description of Timing and Circumstances of Disposal/Release**	**3745-57-72(D)(2) – Was Waste Identified as Hazardous at the Time of Disposal/Release?**	**3745-57-72(D)(3) – Did Disposal/Release Occur Before or After Land Disposal Requirements of Chapter 3745-270?**	**3745-57-72(A)(1) - Is the Waste CAMU-Eligible?**
1. Building Contents								
1.11	Nuclear Products in Inventory	Containerized materials in storage.	0	0	N/A	N/A	N/A	N/A
1.12	Material available for Recycle	Dry type transformers, miscellaneous equipment, office equipment	0	55,000	N/A	N/A	N/A	N/A
2. Building Structures								
2.11	Nuclear Products in Inventory	None Anticipated	0	0	N/A	N/A	N/A	N/A
2.12	Material available for Recycle	Structural steel, copper wire, concrete	0	55,000	N/A	N/A	N/A	N/A
3. Contaminated Fill								
3.11	Nuclear Products in Inventory	None Anticipated	0	0	N/A	N/A	N/A	N/A
3.12	Material available for Recycle	None Anticipated	0	0	N/A	N/A	N/A	N/A
4. Contaminated Environmental Media								
4.11	Nuclear Products in Inventory	None Anticipated	0	0	N/A	N/A	N/A	N/A
4.12	Material available for Recycle	None Anticipated	0	0	N/A	N/A	N/A	N/A

CAMU = Corrective Action Management Unit
N/A = not applicable
RI/FS = Remedial Investigation/Feasibility Study

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APPENDIX D: IDENTIFICATION OF PRINCIPAL HAZARDOUS CONSTITUENTS

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CONTENTS

TABLES

FIGURES

ACRONYMS

COPC	chemicals of potential concern
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DOE	U.S. Department of Energy
ELCR	excess lifetime cancer risk
EPA	U.S. Environmental Protection Agency
HI	hazard index
Ohio EPA	Ohio Environmental Protection Agency
PHC	principal hazardous constituent
PORTS	Portsmouth Gaseous Diffusion Plant
RCRA	Resource Conservation and Recovery Act of 1976, as amended
TCE	trichloroethene

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D.1 INTRODUCTION

Appendix D presents the information to identify the chemicals of potential concern (COPCs) at the Portsmouth Gaseous Diffusion Plant (PORTS), develop a principal hazardous constituent (PHC) limit for each COPC based on a future exposure scenario for an outdoor worker, screen existing soil data against the calculated PHC limits to identify COPCs that exceed the PHC limit, and estimate the soil volumes associated with the COPCs that exceed the PHC limit. Information generated from this screening process will be used to evaluate Corrective Action Management Unit treatment strategies for the proposed waste disposal alternatives.

D.1.1 SELECTION OF COPCS

The COPCs for PORTS have been compiled and evaluated in the *Methods for Conducting Human Health Risk Assessments and Risk Evaluations at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (U.S. Department of Energy [DOE] 2013). COPCs in the risk document are based on chemicals used in historic PORTS operations and the known chemicals in soil and groundwater contamination areas; other COPCs may be added as the remediation process progresses. Calculation of the PHC threshold value was performed for those COPCs in the risk document that also appear in the Resource Conservation and Recovery Act of 1976, as amended (RCRA) D- and F-listed tables (Table D.1). Carcinogenic COPCs in Table D.1 are identified by italicized text.

Table D.1. COPCs in the PORTS Risk Document that Appear in the RCRA D- and F-listed Tables

Acetone	Dichloroethylene 1,2-cis-	Trichloroethylene
Benzene	Dichloroethylene, 1,2-trans-	Trichlorofluoromethane
Carbon Disulfide	*Dinitrotoluene 2,4-*	*Vinyl Chloride*
Carbon Tetrachloride	Endrin	Xylene
Chlorodane, alpha	*Heptachlor*	*Arsenic*
Chlorodane, gamma	*Heptachlor Epoxide*	Barium
Chlorobenzene	*Hexachlorobenzene*	Cadmium
Chloroform	*Hexachlorobutadiene*	Chromium(III)
Cresol, p-	*Lindane*	*Chromium(VI)*
Dichlorobenzene, 1,4-	Methoxychlor	Cyanide
Dichlorodifluoromethane	Methylene Chloride	Lead
Dichloroethane, 1,1-	*Nitrobenzene*	Mercury, Elemental
Dichloroethane, 1,2-	Tetracholorethylene	Mercury, Inorganic Salts
Dichloroethylene, 1,1-	Trichloroethane, 1,1,1-	Selenium
Dichloroethylene, 1,2-	Trichloroethane, 1,1,2-	Silver

D.1.2 EXPOSURE SCENARIO, PARAMETERS, AND LIMITS

The outdoor worker is the reasonable maximum exposure scenario for evaluating threats to human health from residual contaminant levels remaining in the soil after remedial actions because the future land use for PORTS is designated as industrial. Receptor exposure pathways applicable to soil media include ingestion of soil, inhalation of particulate suspended by wind, and dermal absorption. Exposure parameters for the outdoor worker (Table D.2) reflect the U.S. Environmental Protection Agency (EPA) 2014a recommended values. Chemical-specific slope factors, reference doses, absorption factors, and volatilization factors for the COPCs are provided in the PORTS risk document (DOE 2013).

Table D.2. Exposure Parameters for the Outdoor Worker Scenario

		Exposure Parameters	Value	Units
IRS	=	ingestion rate of soil	100	mg/day
EF	=	exposure frequency	225	days/yr
ED	=	exposure duration	25	yrs
ET	=	exposure time	8	hrs/day
BW	=	body weight	80	kg
AT_c	=	averaging time - cancer	25,550	days
AT_n	=	averaging time - noncancer	9,125	days
SA	=	skin surface available for contact	3,470	cm^2/day
AF	=	adherence factor	0.12	mg/cm^2
ABS	=	absorption factor	COC specific	unitless
PEF	=	particulate emission factor	1.24E+09	m^3/kg

PEF applies to a 0.5 acre exposure area

COC = contaminant of concern

For the PHC calculations (Section D.1.3), an excess lifetime cancer risk (ELCR) of 10^{-3} will be used for chemicals classified as carcinogens and a hazard index (HI) of 10 will be used for non-carcinogens. These proposed ELCR and HI limits for PHCs are defined in the Federal Register (Volume 65, #163, 22 August 2000, Part III, Section G, Paragraph e).

D.1.3 PHC THRESHOLD VALUES

Threshold values for the PHCs were calculated using the equations and chemical-specific slope factors, reference doses, absorption factors and volatilization factors provided in the PORTS risk document. The starting point is Appendix B of the risk document, where soil screening levels are tabulated for the COPCs identified in Table D.1 at an ELCR of 10^{-6} and HI of 0.1. For the COPCs in Table D.1, values from Table 2 of Appendix B of the PORTS risk document are listed in Table D.3. Using the EPA 2014a recommended exposure parameters for an outdoor worker (Table D.2), and equations and chemical-specific values in the PORTS risk methods document, the values in Table 2 of Appendix B of the PORTS risk document were updated to account for the EPA 2014a exposure parameters (Table D.3). PHC threshold values were calculated by multiplying the EPA 2014a updated values by 1,000 for carcinogens and by 100 for non-carcinogens. Calculated PHC values appear in the last two columns of Table D.3.

Final adjustments to the present COPC list and PHC threshold values in Table D.3 were made after reviewing screening results and removing COPCs that had no detects or those with a few detects that are orders-of-magnitude below the PHC limit; and after considering regulatory input from the Ohio Environmental Protection Agency (Ohio EPA).

Several notes apply to this short list of COPCs and PHC limits (Table D.4):

- Total chromium results for soil samples will be compared to the PHC limit for chromium (VI).
- Lead was added to the COPCs and the PHC limit is based on the EPA soil screening level of 800 mg/kg (EPA 2014b) for an industrial use scenario.
- The PHC limit for elemental mercury is the value recommended by Ohio EPA.

Table D.3. Derivation of PHC Limits for Ports COPCs – Outdoor Worker Exposure Scenario

All Values in mg/kg	DOE 2013 PORTS Risk Document[a]		EPA 2014 Exposure Values[b]		PHC Threshold Values[c]	
	Carcinogen ELCR = 10^{-6}	**Noncarcinogen HI = 0.1**	**Carcinogen ELCR = 10^{-6}**	**Noncarcinogen HI = 0.1**	**Carcinogen ELCR = 10^{-3}**	**Noncarcinogen HI = 10**
Acetone	---	7.49E+04	---	8.25E+04	---	1.00E+06
Arsenic	2.65E+00	---	3.34E+00	---	3.34E+03	---
Barium	---	2.11E+04	---	2.39E+04	---	1.00E+06
Benzene	7.33E+00	---	7.45E+00	---	7.45E+03	---
Cadmium	---	8.85E+01	---	1.09E+02	---	1.09E+04
Carbon Disulfide	---	5.11E+02	---	5.14E+02	---	5.14E+04
Carbon Tetrachloride	4.25E+00	---	4.29E+00	---	4.29E+03	---
Chlordane, alpha	7.19E+00	---	8.90E+00	---	8.90E+03	---
Chlordane, gamma	7.19E+00	---	8.90E+00	---	8.90E+03	---
Chlorobenzene	---	1.95E+02	---	1.97E+02	---	1.97E+04
Chloroform	2.09E+00	---	2.09E+00	---	2.09E+03	---
Chromium(III)	---	1.70E+05	---	1.95E+05	---	1.00E+06
Chromium(VI)	6.16E+00	---	7.01E+00	---	7.01E+03	---
Cresol, p-	---	6.84E+03	---	9.16E+03	---	9.16E+05
Cyanide	---	2.61E+00	---	2.63E+00	---	2.63E+02
Dichlorobenzene, 1,4-	1.72E+01	---	1.73E+01	---	1.73E+04	---
Dichlorodifluoromethane	---	5.49E+01	---	5.49E+01	---	5.49E+03
Dichloroethane, 1,1-	2.32E+01	---	2.34E+01	---	2.34E+04	---
Dichloroethane, 1,2-	3.01E+01	---	3.04E+00	---	3.04E+03	---
Dichloroethylene 1,2-cis-	---	2.27E+02	---	2.60E+02	---	2.60E+04
Dichloroethylene, 1,1-	---	1.49E+02	---	1.49E+02	---	1.49E+04
Dichloroethylene, 1,2-	---	1.02E+03	---	1.17E+03	---	1.17E+05
Dichloroethylene, 1,2-trans-	---	9.52E+01	---	9.56E+01	---	9.56E+03
Dinitrotoluene 2,4-	6.13E+00	---	8.23E+00	---	8.23E+03	---
Endrin	---	2.05E+01	---	2.75E+01	---	2.75E+03
Heptachlor	4.26E-01	---	5.70E-01	---	5.70E+02	---
Heptachlor Epoxide	2.10E-01	---	2.82E-01	---	2.82E+02	---
Hexachlorobenzene	1.20E+00	---	1.60E+00	---	1.60E+03	---
Hexachlorobutadiene	2.46E+01	---	3.29E+01	---	3.29E+04	---
Lead	---	---	---	---	---	---
Lindane	2.29E+00	---	2.83E+00	---	2.83E+03	---
Mercury, Elemental	---	---	---	---	---	---
Mercury, Inorganic Salts	---	3.41E+01	---	3.88E+01	---	3.88E+03
Methoxychlor	---	3.42E+02	---	4.58E+02	---	4.58E+04
Methylene Chloride	---	3.85E+02	---	4.14E+02	---	4.14E+04
Nitrobenzene	3.42E+01	---	3.41E+01	---	3.41E+04	---
Selenium	---	5.68E+02	---	6.49E+02	---	6.49E+04
Silver	---	5.68E+02	---	6.49E+02	---	6.49E+04
Tetrachloroethylene	---	5.77E+01	---	5.83E+01	---	5.83E+03
Trichloroethane, 1,1,1-	---	5.36E+03	---	5.39E+03	---	5.39E+05
Trichloroethane, 1,1,2-	---	9.56E-01	---	9.56E-01	---	9.56E+01
Trichloroethylene	---	2.80E+00	---	2.82E+00	---	2.82E+02

Table D.3. Derivation of PHC Limits for Ports COPCs – Outdoor Worker Exposure Scenario (Continued)

All Values in mg/kg	DOE 2013 PORTS Risk Document[a]		EPA 2014 Exposure Values[b]		PHC Threshold Values[c]	
	Carcinogen ELCR = 10^{-6}	Noncarcinogen HI = 0.1	Carcinogen ELCR = 10^{-6}	Noncarcinogen HI = 0.1	Carcinogen ELCR = 10^{-3}	Noncarcinogen HI = 10
Trichlorofluoromethane	---	4.76E+02	---	4.78E+02	---	4.78E+04
Vinyl Chloride	2.11E+00	---	2.24E+00	---	2.24E+03	---
Xylene	---	3.83E+02	---	3.84E+02	---	3.84E+04

[a] DOE 2013 values from Appendix B, Table 2 of DOE 2013.
[b] EPA 2014 values update DOE 2013 values using EPA 2014a revised exposure parameters for body weight (80 kg), skin surface area (3,470 cm^2) and soil adherence factor (0.12 mg/cm^2).
[c] PHC threshold values derived by multiplying EPA 2014a values by 1,000 for carcinogens and by 100 for non-carcinogens. For acetone, barium and chromium (III), the PHC calculation exceeded 1E+06 mg/kg (100 percent) and values were defaulted to 1E+06.

DOE = U.S. Department of Energy
ELCR = excess lifetime cancer risk
EPA = U.S. Environmental Protection Agency
HI = hazard index
PHC = principal hazardous constituent
PORTS = Portsmouth Gaseous Diffusion Plant

Table D.4. Short list of COPCs and PHC Limits for Soil at PORTS

Outdoor Worker SSLs (mg/kg)	**PHC Limit** ELCR = 10^{-3} HI = 10
COPC	
Arsenic	3,340
Chromium (total)	7,010
Chromium (VI)	7,010
Dichloroethylene, 1,1-	14,900
Dichloroethylene, 1,2-cis-	26,000
Dichloroethylene, 1,2-trans-	9,560
Lead	800
Mercury (inorganic salts)	3,880
Mercury (elemental)	497
Tetrachloroethylene	5,830
Trichloroethylene	282
Vinyl Chloride	2,240

Italicized text indicates PHC limit is for carcinogenic properties.

COPC = chemical of potential concern
ELCR = excess lifetime cancer risk
HI = Hazard Index
PHC = principal hazardous constituent
SSL = site screening level

D.2 PHC SCREENING PROCESS

D.2.1 SOIL DATA

D.2.1.1 Historical Soil Data Set

The historical soil data set is defined as data collected after January 1991 that is associated with a quality assurance sampling and analysis plan. This data set covers actions under the Consent Decree and *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation* *and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O) and has 152,937 results for the 45 COPCs listed in Table D.3. Information covered under the Consent Decree is shown simply to convey the entire snapshot of present soil sample results at PORTS. Locations for the reported results are shown on Figure D.1.

A comparison of the 152,937 results to the PHC limits in Table D.3 yielded the following metrics for each COPC: number of results, number of detected results, number above the PHC limit, percent above the PHC limit, minimum result, maximum result, PHC limit, and the ratio of maximum detect to PHC limit (Table D.5). Presently, trichloroethene (TCE) is the only COPC with soil results above its PHC limit (red dots on Figure D.1). As soil remediation activities progress, additional COPCs could be defined as PHCs.

D.2.1.2 Residual Soil Data Set

The residual soil data set (a subset of the historical soil data set) applies only to remedial actions covered under the DFF&O, and includes data collected after January 1991 that is associated with a quality assurance sampling and analysis plan. Sample locations for this data set are provided as shown on Figure D.2 and indicate that a portion of the TCE results that exceed the PHC limit are captured in the residual data set and the rest are within the X-701B plume area.

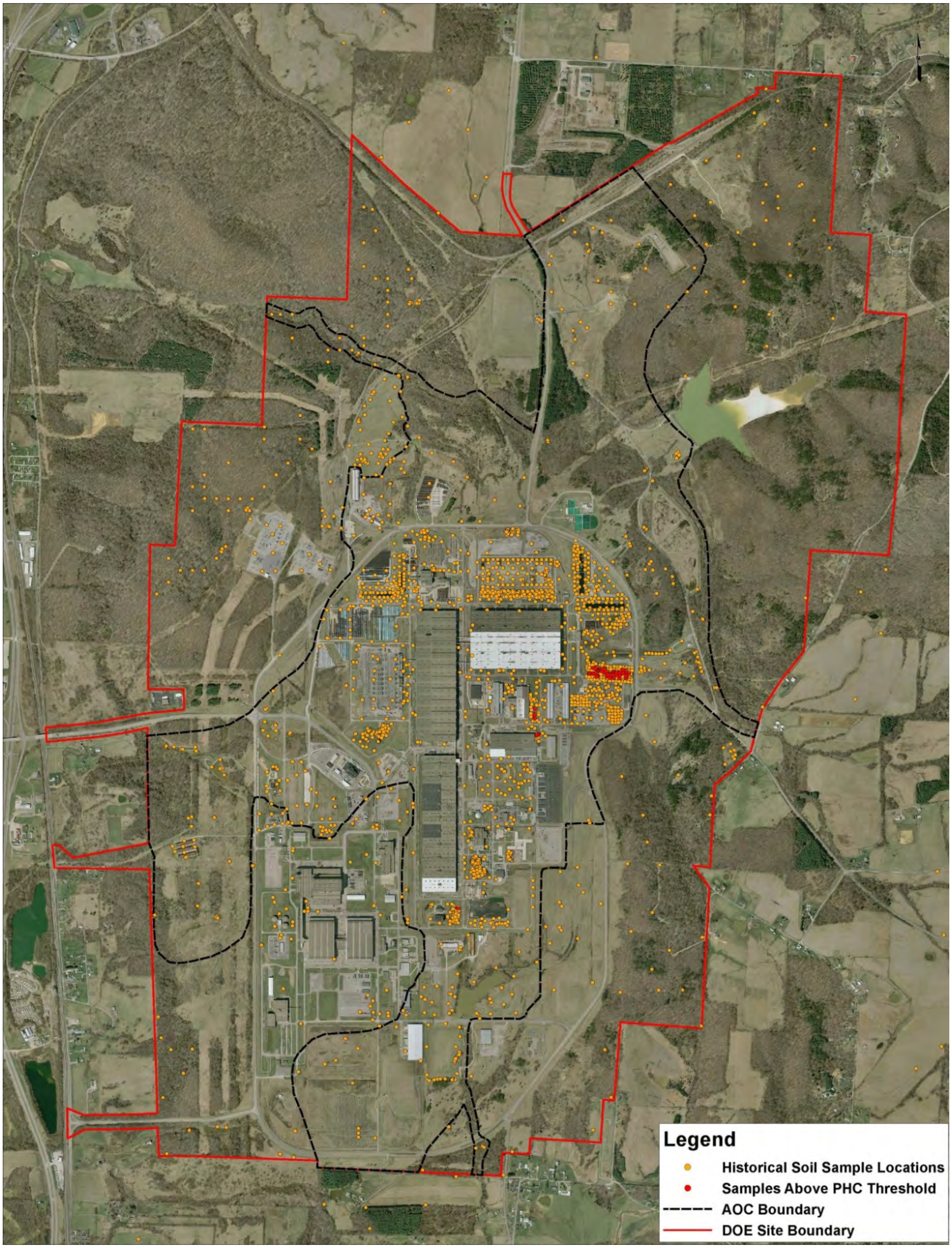

Figure D.1. Sample Locations for the Historical Soil Data Set

Table D.5. Results for Soil Screening of Historical Data Set against PHC Limits

COPC	Number of Results	Number of Detects	Number above PHC Limit	Percent above PHC Limit	Minimum Detection (mg/kg)	Maximum Detection (mg/kg)	PHC Limit (mg/kg)	Ratio of Maximum over PHC Limit
Acetone	4,505	1,796	0	0	1.86E-03	8.80E+02	1.00E+06	8.80E-04
Arsenic	4,907	4,772	0	0	6.60E-03	4.70E+02	3.34E+03	1.41E-01
Barium	4,794	4,774	0	0	2.90E+00	1.30E+03	1.00E+06	1.30E-03
Benzene	3,134	42	0	0	4.70E-04	1.90E+01	7.45E+03	2.55E-03
Cadmium	4,781	2,650	0	0	1.47E-02	4.94E+03	1.09E+04	4.52E-01
Carbon Disulfide	2,973	38	0	0	4.50E-04	1.70E+00	5.14E+04	3.31E-05
Carbon Tetrachloride	3,045	56	0	0	9.60E-04	7.89E-01	4.29E+03	1.84E-04
Chlordane, alpha	2,045	20	0	0	7.55E-05	2.70E-02	8.90E+03	3.03E-06
Chlordane, gamma	2,045	21	0	0	2.27E-04	8.20E-02	8.90E+03	9.21E-06
Chlorobenzene	3,061	20	0	0	2.00E-03	1.70E+01	1.97E+04	8.64E-04
Chloroform	3,113	94	0	0	4.60E-04	5.50E+00	2.09E+03	2.63E-03
Chromium (total)	5,455	5,424	0	0	1.20E+00	6.05E+03	1.00E+06	6.05E-03
Chromium (III)	884	863	0	0	2.29E+00	5.67E+01	1.00E+06	5.67E-05
Chromium (VI)	884	87	0	0	1.32E-01	2.30E+01	7.01E+03	3.28E-03
Cresol, p-	631	1	0	0	8.50E-01	8.50E-01	9.16E+05	9.28E-07
Cyanide	2,022	276	0	0	6.67E-02	2.71E+01	2.63E+02	1.03E-01
Dichlorobenzene, 1,4-	3,547	5	0	0	2.00E-03	3.80E-01	1.73E+04	2.20E-05
Dichlorodifluoromethane	1,049	0	0	0	--	--	5.49E+03	--
Dichloroethane, 1,1-	5,558	577	0	0	2.40E-04	9.73E+01	2.34E+04	4.16E-03
Dichloroethane, 1,2-	5,082	70	0	0	7.50E-04	1.00E+00	3.04E+03	3.29E-04
Dichloroethylene 1,2-cis-	5,172	915	0	0	2.42E-04	3.42E+02	2.60E+04	1.32E-02
Dichloroethylene, 1,1-	5,810	805	0	0	6.00E-04	2.40E+02	1.49E+04	1.61E-02
Dichloroethylene, 1,2-	1,221	456	0	0	1.00E-03	8.50E+01	1.17E+05	7.28E-04
Dichloroethylene, 1,2-trans-	4,776	212	0	0	4.20E-04	2.51E+00	9.56E+03	2.62E-04
Dinitrotoluene, 2,4-	2,393	0	0	0	--	--	8.23E+03	--
Endrin	2,192	6	0	0	1.70E-04	1.00E-01	2.75E+03	3.64E-05
Heptachlor	2,193	1	0	0	8.66E-05	8.66E-05	5.70E+02	1.52E-07
Heptachlor Epoxide	2,193	23	0	0	1.02E-04	4.72E-03	2.82E+02	1.67E-05
Hexachlorobenzene	2,444	0	0	0	--	--	1.60E+03	--
Hexachlorobutadiene	2,946	23	0	0	7.00E-04	6.30E-01	3.29E+04	1.92E-05
Lead	4,828	4,791	0	0	1.10E+00	4.50E+02	8.00E+02	5.63E-01
Lindane	2,193	2	0	0	8.81E-05	2.41E-04	2.83E+03	8.51E-08
Mercury, Elemental	4,767	2,790	0	0	2.90E-03	2.08E+02	4.97E+02	4.19E-01
Mercury, Inorganic Salts	4,767	2,790	0	0	2.90E-03	2.08E+02	3.88E+03	5.35E-02
Methoxychlor	2,193	5	0	0	8.08E-04	1.00E-01	4.58E+04	2.18E-06
Methylene Chloride	5,155	1,630	0	0	5.40E-04	6.00E+02	4.14E+04	1.45E-02
Nitrobenzene	2,393	2	0	0	1.60E+00	1.90E+00	3.41E+04	5.58E-05
Selenium	4,391	857	0	0	1.10E-01	9.50E+01	6.49E+04	1.46E-03
Silver	4,718	1,180	0	0	1.40E-02	1.10E+02	6.49E+04	1.70E-03
Tetrachloroethylene	4,836	377	0	0	5.00E-04	9.00E+01	5.83E+03	1.54E-02
Trichloroethane, 1,1,1-	3,742	802	0	0	5.40E-04	1.20E+04	5.39E+05	2.23E-02
Trichloroethane, 1,1,2-	3,050	237	0	0	5.40E-04	6.10E+00	9.56E+01	6.38E-02
Trichloroethylene	8,152	4,206	108	1.32	2.20E-04	1.10E+05	2.82E+02	3.90E+02
Trichlorofluoromethane	1,691	55	0	0	1.00E-03	7.89E-01	4.78E+04	1.65E-05
Vinyl Chloride	5,085	75	0	0	6.10E-04	1.70E+00	2.24E+03	7.59E-04
Xylene	888	58	0	0	6.60E-04	5.50E+01	3.84E+04	1.43E-03

COPC = chemical of potential concern PHC = principal hazardous constituent

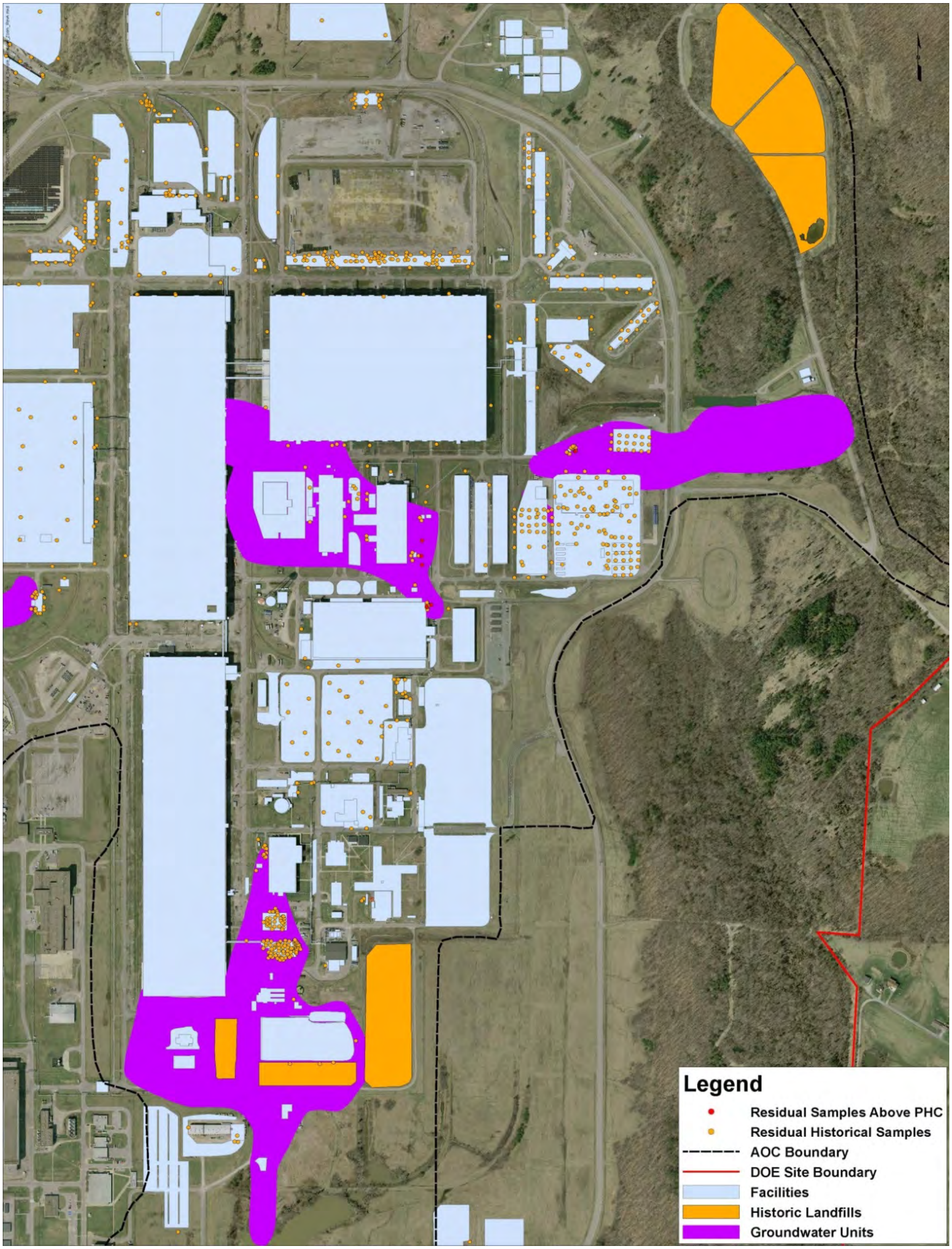

Figure D.2. Sample Locations for the Residual Soil Data Set

D.2.2 SCREENING RESULTS

D.2.2.1 Identified PHC

Table D.5 results show, at this point in the soil remediation process, that the only COPC to exceed its PHC limit is TCE with 108 of 8,125 results (1.33 percent) above the PHC limit of 282 mg/kg. The maximum TCE value (110,000 mg/kg) is 390 times greater than the PHC limit.

D.2.2.2 PHC Distribution and Estimated Soil Volume

Figure D.3 shows the distribution of the 108 soil samples that exceed the PHC limit for TCE and the corresponding soil volume associated with these samples (gold pattern, which is partially overlain by green and purple areas). Most of the samples are associated with 52 locations in the high-concentration zone of the X-701B TCE groundwater plume, and the remaining samples are tied to six locations in the TCE plume emanating from the northeast corner of Building X-720. The volume of soil impacted by TCE that exceeds the PHC limit is estimated using the surface area that circumscribes the data points and extending this area downward until the deepest sample point is captured (cookie-cutter approach). Soil volume estimates derived with the cookie-cutter approach (Figure D.3) will overestimate the actual volume of impacted soil because the extent of subsurface contamination is shaped like an inverted funnel.

Soil volumes that correspond to samples that exceed a TCE level of 500 and 5,000 mg/L are shown by the green and purple patterns (Figure D.3). Approximately one-half of the total PHC volume corresponds to samples that exceed 500 mg/kg. The estimated volume for samples that exceed 5,000 mg/kg is less than 1 percent of the PHC volume.

Figure D.3. Soil Volumes for TCE-contaminated Areas that Have Samples Greater than the PHC Limit

D.3 REFERENCES

DOE 2013, *Methods for Conducting Human Health Risk Assessments and Risk Evaluations at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio*, DOE/PPPO/03-0127&D7, U.S. Department of Energy, Piketon, OH, December.

EPA 2014a, Technical Review Workgroup Recommendations Regarding Gardening and Reducing Exposure to Lead-Contaminated Soils, OSWER 9200.2-142, U.S. Environmental Protection Agency.

EPA 2014b, *Human Health Evaluation Manual, Supplemental Guidance: Update of Standard Default Exposure Factors,* OSWER Directive 9200-1-120, U.S. Envrionmental Protection Agency, Feburary 6, 2014

APPENDIX E: ADJUSTED TREATMENT STANDARD

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CONTENTS

FIGURES

ACRONYMS

AOC	area of contamination
CAMU	Corrective Action Management Unit
D&D	decontamination and decommissioning
DFF&O	*The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto*
DNAPL	dense non-aqueous phase liquid
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
FRTR	Federal Remediation Technologies Roundtable
HDPE	high-density polyethylene
IRM	Interim Remedial Measure
OAC	*Ohio Administrative Code*
Ohio EPA	Ohio Environmental Protection Agency
OSDC	on-Site disposal cell
PHC	principal hazardous constituent
PORTS	Portsmouth Gaseous Diffusion Plant
RCRA	Resource Conservation and Recovery Act of 1976, as amended
RI/FS	Remedial Investigation/Feasibility Study
TCA	trichloroethane
TCE	trichloroethene
UTS	universal treatment standard
VOC	volatile organic compound

Appendix E develops the appropriate treatment standard for trichloroethene (TCE)-contaminated soil. TCE was identified in Appendix D as the sole principal hazardous constituent (PHC) requiring development of a Corrective Action Management Unit (CAMU) treatment standard.

The treatment standards required under *Ohio Administrative Code (OAC)* 3745-57-72 (E)(4)(d) or that can be justified under *OAC* 3745-57-72 (E)(4)(d) are determined in consideration of the site's geological data, on-Site disposal cell (OSDC) design, and previous Portsmouth Gaseous Diffusion Plant (PORTS) experience in TCE treatment, associated costs, and technical difficulties encountered during those treatment efforts. A recommendation is made based on the comparison of the results of the evaluations.

E.1 MINIMUM TREATMENT REQUIREMENTS

TCE-contaminated soils are expected to be generated during decontamination and decommissioning (D&D) or soil remediation. Unless TCE-contaminated soils can be placed in a CAMU, the soils would be subject to the treatment requirements of *OAC* 3745-270. In order for TCE-contaminated soils to be placed in a disposal CAMU designated by the Ohio Environmental Protection Agency (Ohio EPA) Director, PHCs must be treated to the standards specified in *OAC* 3745-57-72(E)(4)(d) or (E)(4)(e). Soil treatment could be implemented in situ during excavation in the area of contamination (AOC) or ex situ in a storage and/or treatment CAMU.

Based on the PORTS PHC screening results presented in Appendix D of this Site-wide Waste Disposition Evaluation Project (Waste Disposition) Remedial Investigation/Feasibility Study (RI/FS) Supplement, TCE is the only known contaminant in soil which exceeds a PHC screening value at PORTS. Most of the identified PHC screening value exceedances are located in the western portion of the X-701B TCE plume area as shown in Figure D.3. There are also two other locations, one under the X-720 and the other just east of the X-700 buildings, with TCE as a PHC in soil. Soils at these two locations must be excavated as an integral part of the remedial action of the below-grade building structures, sump, and associated utilities of X-720 and X-700 and are considered residual soil as defined in *The April 13, 2010 Director's Final Findings and Orders for Removal Action and Remedial Investigation and Feasibility Study and Remedial Design and Remedial Action, including the July 16, 2012 Modification thereto* (DFF&O). Any soil which must be excavated and is not residual soil as defined by the DFF&O will be under the regulatory authority of the Consent Decree or other authorities. The six locations exceeding TCE PHC conditions under the X-720 are located above the groundwater table.

The information below evaluates the treatment standards required for TCE in these soils for disposal in the potential OSDC, if selected and designated as a CAMU in compliance with *OAC* 3745-57-72.

E.1.1 *OAC* 3745-270-48 STANDARD

The universal treatment standard (UTS) for TCE-contaminated nonwastewater wastes, as specified in *OAC* 3745-270-48, is 6.0 mg/kg, measured by an analysis of grab samples. This standard is not applicable to CAMU-eligible soils to be generated and placed in the potential OSDC during D&D and soil remediation at PORTS under Alternative 2 of the Waste Disposition RI/FS report, if the OSDC is designated as a CAMU by the Ohio EPA director.

E.1.2 *OAC* 3745-57-72(E)(4)(d) CAMU TREATMENT STANDARD

Under (E)(4)(d), treatment must achieve 90 percent reduction in total PHC concentrations but not lower than 10 times the UTS (i.e., 60 mg/kg for TCE-contaminated soil).

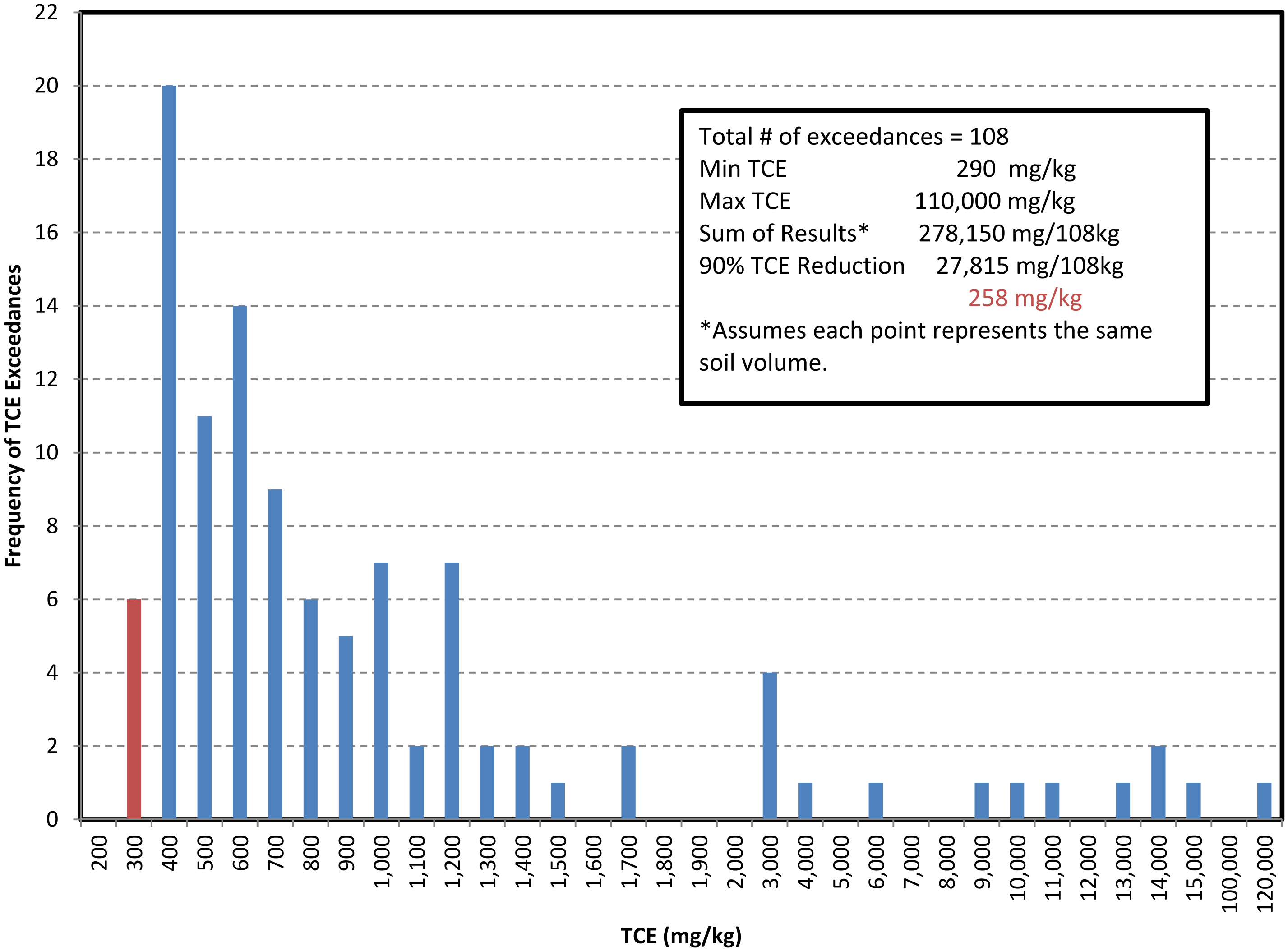
Figure E.1 shows a histogram of all 108 TCE soil data above the PHC threshold value of 282 mg/kg (as described in Appendix D). Figures E.2, E.3, and E.4 show histograms of the TCE soil data under X-720/X-700 (11 data points) (U.S. Department of Energy [DOE)] 2001, DOE 2010), in X-701B (96 data points) plume area, and in X-720 alone (six data points), respectively, above the PHC threshold value of 282 mg/kg. (Data in the bottom of the X-701B impoundment was collected by Geraghty & Miller and Science Applications International Corporation and documented in an internal document that presented concentrations of TCE in soils from the bottom of the pond to the top of Sunbury Shale. The objective of the sampling was to identify any zones of dense non-aqueous phase liquid (DNAPL) pockets in the vertical sequence within the pond boundary.) A single data point is located near X-231A/B, which is not included in the above-mentioned statistics, except in Figure E.1.

To achieve 90 percent reduction in total PHC concentrations, a treatment target range of about 250 to 700 mg/kg would be required. This is based on the assumption that each result greater than the PHC threshold is associated with an equal volume of soil. The treatment standard, as applied on a regulatory unit basis, would only vary within a limited range of treatment values. However, using these unit specific standards in relation to disposal into the CAMU doesn’t have technical merit based on the small differences in toxicity reduction between units. For cases such as PORTS, the U.S. Environmental Protection Agency (EPA) anticipated that selecting a site-wide alternative treatment standard using the zone of reasonable treatment values (See 28556 Federal Register / Vol. 63, No. 100 / Tuesday, May 26, 1998 / Rules and Regulations and Amendments to the Corrective Action Management Unit Rule, 65 FR 51080, Tuesday, August 22, 2000) is sufficient for demonstrating treatment. Therefore, collectively, the 10th percentile rank is approximately 500 mg/kg, resulting in a site-wide treatment target of about 500 mg/kg, which would be required to achieve 90 percent reduction in PHC concentrations.

Based on the information presented above, it is logical to assume that regardless of the future regulatory decisions and authorizations for DFF&O residual soil or Consent Decree soil at PORTS, if excavated, a treatment target close to 500 mg/kg for TCE-contaminated soil would be required to satisfy the 90 percent reduction in PHC concentrations under *OAC* 3745-57-72(E)(4)(d) prior to disposal in the potential OSDC, if selected and designated as a CAMU. Under this scenario, a total of 29,000 cy of soil would need to be treated, as shown in Figure D.3. However, DOE has concluded, as described in more detail below, that it is not cost effective to achieve this treatment target at PORTS to support placement of D&D wastes in the potential OSDC. DOE believes an adjusted standard under (E)(4)(e) is appropriate based upon the following analysis.

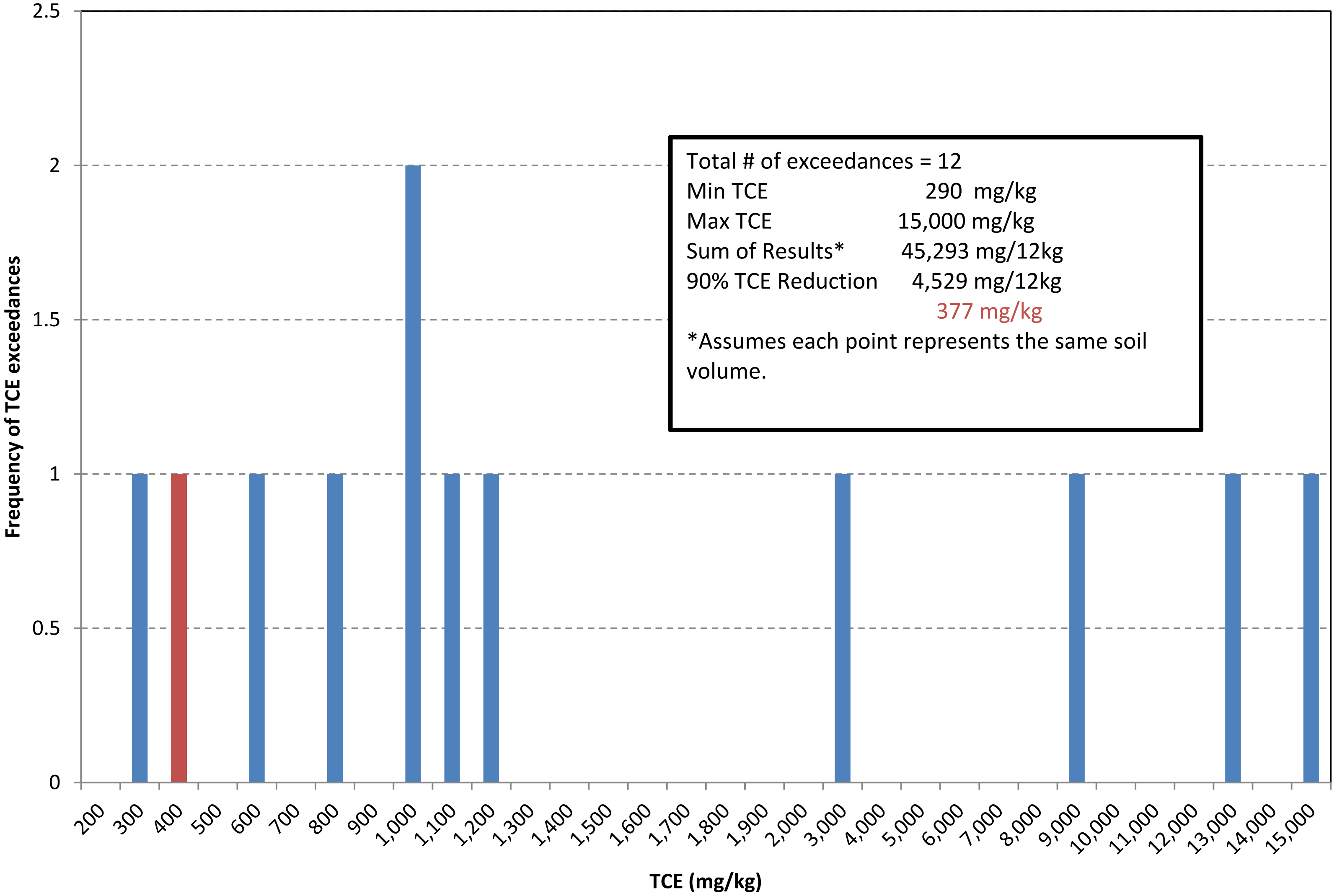
OAC 3745-57-72(E)(4)(d) Treatment Standards Technical Feasibility and Cost Evaluation

Due to the well-known geological characteristics of Minford clay such as very fine grain, low effective porosity, low permeability, high plastic index, and high water holding capacity, large scale treatment of TCE-contaminated Minford clay soils at PORTS, either in situ or ex situ, to reduce concentrations from well over 5,000 mg/kg (e.g., 15,000 mg/kg measured in vadose zone under X-720) down to 500 mg/kg of TCE at the pace necessary to support D&D waste placement in the potential OSDC may not be feasible. This section reviews the lessons learned from previous soil remediation efforts involving treatment of TCE-contaminated soils at PORTS and other sites and demonstrates that efforts by DOE to meet the *OAC* 3745-57-72 (E)(4)(d) treatment standards are not technically feasible or economically reasonable.



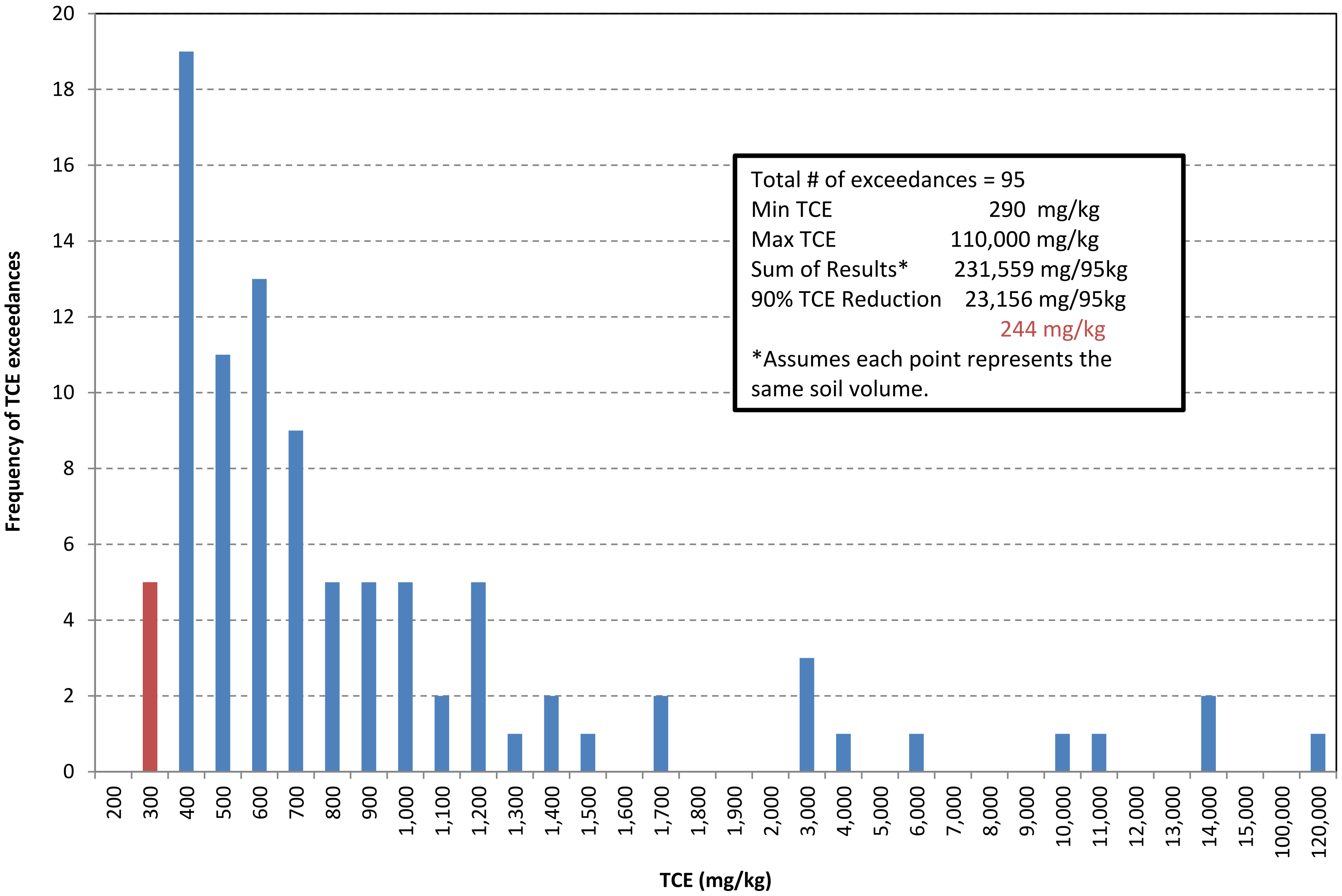
Total # of exceedances = 108
Min TCE 290 mg/kg
Max TCE 110,000 mg/kg
Sum of Results* 278,150 mg/108kg
90% TCE Reduction 27,815 mg/108kg
258 mg/kg
*Assumes each point represents the same soil volume.

Figure E.1. Histogram of Site-wide TCE PHC Threshold Exceedances



Total # of exceedances = 12
Min TCE 290 mg/kg
Max TCE 15,000 mg/kg
Sum of Results* 45,293 mg/12kg
90% TCE Reduction 4,529 mg/12kg
377 mg/kg
*Assumes each point represents the same soil volume.

Figure E.2. Histogram of Residual Soils X-720/X-700/X-701E TCE PHC Threshold Exceedances



Total # of exceedances = 95

Min TCE	290 mg/kg
Max TCE	110,000 mg/kg
Sum of Results*	231,559 mg/95kg
90% TCE Reduction	23,156 mg/95kg
	244 mg/kg

*Assumes each point represents the same soil volume.

Figure E.3. Histogram of X-701B TCE PHC Threshold Exceedances

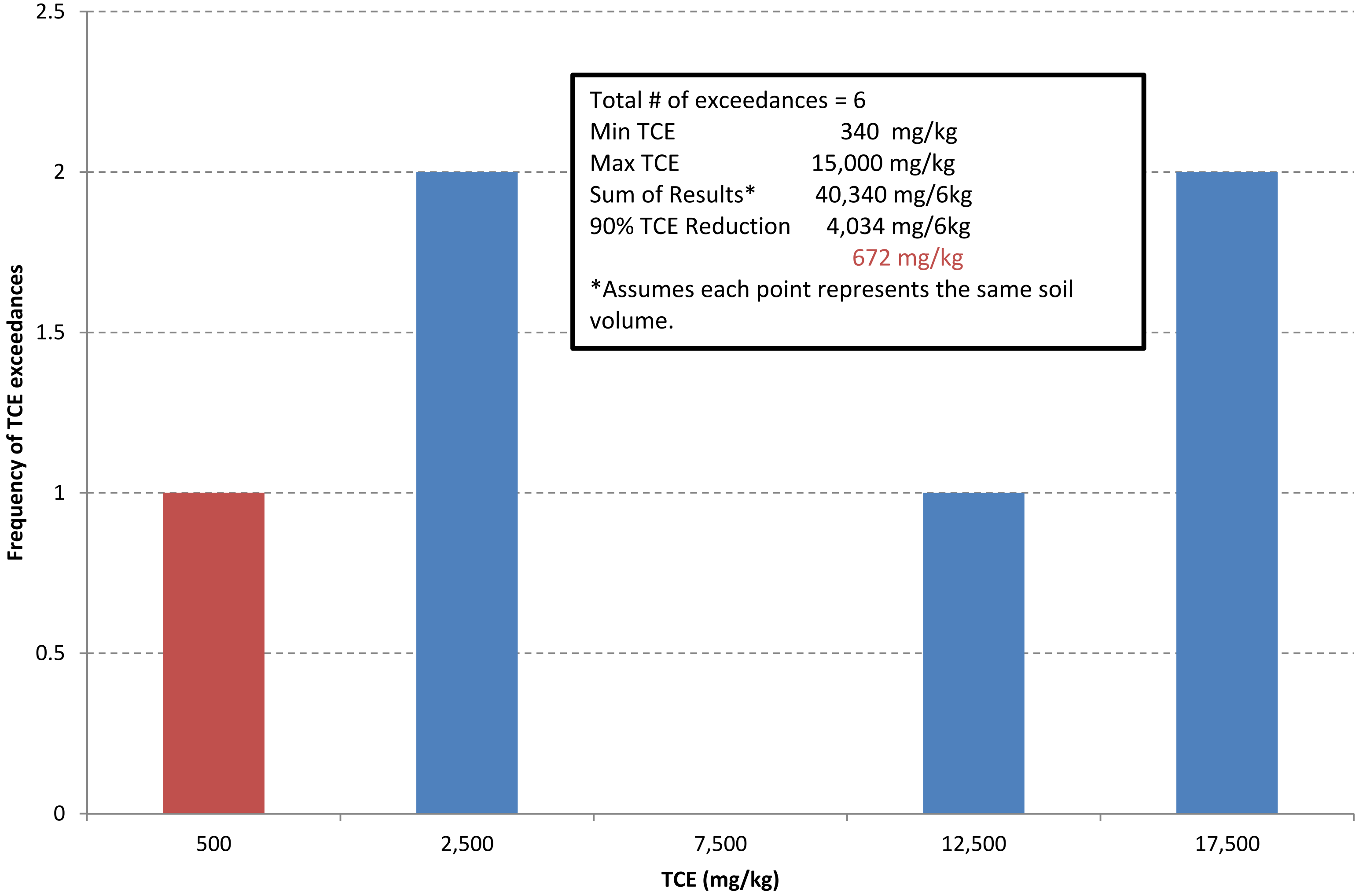


Figure E.4. Histogram of X-720 TCE PHC Threshold Exceedances

E.1.3 TECHNOLOGIES AND EFFECTIVENESS

The Federal Remediation Technologies Roundtable (FRTR) was formed to build a collaborative atmosphere among federal agencies involved in hazardous waste site cleanup. The FRTR brings together federal cleanup program managers and other remediation community representatives to:

- Share information and learn about technology-related efforts of mutual interest
- Discuss future directions of the national site remediation programs and their impact on the technology market
- Interact with similar state and private industry technology development programs
- Form partnerships to pursue subjects of mutual interest.

FRTR members/agencies include the EPA, DOE, U.S. Department of Defense, U.S. Department of the Interior, and National Aeronautics and Space Administration.

The FRTR has identified several ex situ soil treatment technologies as viable candidates for treating contaminated soils at Federal sites. The main advantage of ex situ treatment is that it generally requires shorter time periods than in situ treatment, and there is more certainty about the uniformity of treatment because of the ability to homogenize, screen, and continuously mix the soil. Ex situ treatment, however, requires excavation of soils, leading to increased costs and engineering for equipment, possible permitting, material handling and worker protection measures.

The FRTR identified ex situ soil treatment technologies include: thermal desorption, oxidation/reduction, and gravity separation. DOE has experience with each of these technologies at PORTS, attempted historically, without success, for the treatment of contaminated soils. As presented below, there are limitations and implementation issues associated with each of these technologies that need to be considered.

Enhanced Soil Mixing With Thermal Desorption & Oxidation/Reduction

Beginning in 1992, Enhanced Soil Mixing was conducted at the X-231B to evaluate the technical and cost effectiveness of using this technology for the removal of volatile organic compounds (VOCs). The results are summarized in *Remediation Case Studies: Soil Vapor Extraction and Other In Situ Technologies* (EPA 542-R-97-009), *In Situ Enhanced Soil Mixing* (DOE/EM-0289), and *In Situ Treatment of Contaminated Clay Soils* (ERP-TI/92-359). Although the technology demonstration was conducted in situ, the results are applicable to ex situ treatment of similar soil horizons.

X-231B was used from 1976 to 1983 for treatment and disposal of waste oils and degreasing solvents, and these contributed to contamination of soil and shallow groundwater with VOCs. Thirteen VOCs were identified in the soil, including TCE, trichloroethane (TCA), 1,2-dichloroethylene, and methylene chloride, at concentrations ranging from several hundred to several thousand µg/kg. The site consists of relatively low permeability soils with elevated clay content.

The following four technologies were demonstrated at X-231B: vapor extraction with ambient air stripping, vapor extraction with hot air stripping, hydrogen peroxide injection, and grout injection for solidification/stabilization. Three demonstration soil columns were completed for each of the four technologies. The 12 soil columns were each 10 ft in diameter and 15 ft deep. One additional column was treated by hot air stripping to a depth of 22 ft, and a second additional column was used for a tracer study.

Soil mixing with hot air (thermal) stripping was selected as the remedial option for the site, and cleanup and closure was completed in 1994. 628 soil columns at a depth of 22 ft were treated during remediation.

Unfortunately, the cost and schedule impacts for all of these technologies were high, and as a result, they have not been considered effective for future full-scale soil treatment at DOE sites. The estimated treatment efficiency, production rate, and full scale unit cost for remediation ranged from a rate between 15 to 45 cy/hr with a cost range of $45 to $60/cy.

Enhanced Gravity Separation – Vadose Zone Soils

The X-701B was constructed with the plant and used as an unlined 200-ft by 50-ft retention basin for the neutralization and settling of metal-bearing waste water, solvent-contaminated solutions, and acidic wastewater. Most of the waste discharged to the pond originated at the X-700 Chemical Cleaning Facility and the X-705 Decontamination Building. Wastes received by the holding pond included nitric acid and chromic acid. Also discharged to the pond were TCE and TCA, both of which were typically co-contaminated with technetium and uranium. The pond was in use from 1954 until 1988.

An X-701B Interim Remedial Measure (IRM) was initiated in 2009 and completed in 2011. The purpose of the project was to perform mixed oxidant treatment of TCE-contaminated soils within the large, high concentration groundwater plume that originated from X-701B. The results of the IRM are summarized in *Completion Report for the X-701B Solid Waste Management Unit Interim Remedial Measure – Oxidant Mixing at the Portsmouth Gaseous Diffusion Plant, Piketon, Ohio* (DOE 2011).

During the IRM, the targeted soils for treatment were super-saturated and overlaid by non-Resource Conservation and Recovery Act of 1976, as amended (RCRA)-regulated vadose zone soils composed of Minford silt and clay and approximately 10 ft to 12 ft in depth. Like X-231B, these soils have a relatively low permeability and elevated clay content. Dewatering of the vadose zone soils is discussed in this section, and dewatering of the targeted saturated soils is discussed in the section below.

In order to proceed with the desired treatment, the vadose zone soils were removed and stored at a nearby location and allowed to gravity dewater in preparation for replacement following completion of the IRM. The area of treatment for the IRM was approximately 4.75 acres, and the vadose zone soils totaled approximately 76,710 cy. These soils were above the water table of the plume, and so were not super-saturated except for the portion of the layer which was in direct interface with the water table. The properties of these soils caused them to be significantly above optimum moisture for replacement and compaction. Consideration was given to this over-wet condition when stockpiling the soils at the storage location, and a location was selected which provided positive drainage to allow the soils to naturally release free liquid via gravity. Additionally, the surface of the stockpile was ripped with a bulldozer as weather conditions permitted to allow exposure to the sun and wind for drying. The pile was always resealed at the end of the day shift to prevent resaturation from precipitation.

When the IRM had progressed to a point in the spring of 2011 where the vadose zone soils could be replaced over the oxidant treated soils, it was apparent that gravity drainage had been successful in removing the free liquids from the stockpiled soils. The outer limits of the stockpile were partially dry, while the inner portions of the pile were still above optimum moisture content, which required drying techniques to be implemented for the purposes of this remedy. Additionally, a wet spring complicated drying efforts. Initially, the soils were spread in 6-in. to 8-in. lifts on the placement area, and processing of the material was begun using a rotary tiller. The results of this method were unsatisfactory due to the limited speed and size of the tiller, which didn’t allow adequate drying prior to resealing at the end of shift. The tiller was then used in combination with a bulldozer windrowing the material to expose more surfaces to the air. This process yielded better results, but additional speed of processing was needed to keep the project on schedule.

An agricultural tractor and disc were brought in to more quickly turn the soil in support of the bulldozer. This was done on both the placed soil lift and the surface of the stockpile, which provided two simultaneous drying platforms. The result was that although treatment costs increased, efficiency was greatly enhanced, enabling the project to move forward between periods of wet weather.

Therefore, it was demonstrated by this IRM that free liquids can be drained from Minford soils in the vadose zone using gravity separation. However, achievement of optimum moisture content for placement purposes requires enhanced gravity separation with the application of extensive soil mixing/drying techniques. Although the unit cost for this treatment was not tracked, it was accomplished over approximately a 2-month period, primarily with equipment already at the worksite, and with approximately 800 man-hours of additional labor.

Enhanced Gravity Separation – Saturated Zone Soils

The excavation and treatment of targeted contaminated soils within the X-701B IRM was conducted on a cell-by-cell basis with a total of 81 cells. A combination of open excavation with laid-back slopes and shoring panels was used to remove, treat, and replace the saturated soils in each cell which were a mixture of Minford and Gallia. Within each cell, excavation of the soils progressed with removal of the top 10 ft of non-regulated soils as addressed in the previous section, followed by the middle soils (approximately 20 ft) which were excavated and spread out on the contaminated land surface within the treatment zone for gravity drainage and treatment.

The bottom 1 to 2 ft of the Gallia sand and gravel and the top of the Sunbury shale in each cell were then tilled in place with a tilling/cutting attachment mounted on the end of a long-reach excavator. After approximately 10 to 20 minutes of tilling, Modified Fenton's Reagent was slowly applied to the soils for approximately an additional 1 to 2 hours while the tilling was continued. To achieve the desired results, the tilling and treatment process was repeated several times for some cells.

Following the tilling and treatment process, each cell was backfilled with the middle soils that had been previously excavated as described above. Prior to backfilling, the middle soils were processed with a rotary tiller/cutting attachment, and simultaneously mixed with granular sodium persulfate and hydrated lime. The application of hydrated lime was sometimes repeated multiple times in order to dry the soil to a point where placement was possible. In some cases, extensive tilling was required prior to placement.

In general, gravity drainage of the middle soils within the treatment area was successful in removing free liquids; however, the middle saturated soils remained well above optimum moisture content, and often remained well above optimum moisture content after extensive and costly measures had been taken to process them.

The targeted saturated soils for the IRM totaled approximately 167,500 cy, and the IRM took approximately 17 months to complete. The unit cost for treatment of the saturated soils was not tracked; however, the overall cost of the entire X-701B IRM was on the order of $50 million. It has been estimated that overall, the drying and treatment of the saturated zone soils was roughly an order of magnitude more costly and time consuming than the vadose zone soils. The total cost for treatment of all IRM soils (vadose zone and saturated) was approximately $205/cy in unescalated dollars.

E.1.4 EXPERIENCE AT PIKE SANITATION LANDFILL

Experience with the Minford soil at Pike Sanitation Landfill has shown that it tends to hold together very well. It is difficult to reduce the moisture from within the soil matrix as it is "sticky" in nature. The key to removing the moisture is repeated working of the soil to create as large of a surface area as possible to expedite the evaporation of moisture from the soil. This information was provided by Ohio EPA technical staff overseeing operation of the facility and some of PORTS technical staff members' actual working experience at the facility.

E.1.5 POTENTIAL COST AND DURATION TO ACHIEVE (E)(4)(D) STANDARD FOR TCE

Based on the historical costs with escalation (i.e., up to $250/cy) and production rates (i.e., 15 to 20 cy/hour) from previous soil treatment efforts at PORTS, it is expected that it may take at least $5 million and 60 weeks to achieve the 500 mg/kg target for 29,000 cy of TCE-contaminated soil with concentrations above 500 mg/kg (See Figure D.3). This cost and schedule duration would be in addition to the normal cost and duration for excavating and handling the soil.

None of the previous efforts at X-701B actually recovered TCE-free product, which is expected to be located in the weathered Sunbury shale. Any future efforts will need to more thoroughly locate, recover, and dispose of this significant continuous source of groundwater contamination. Additional cost would be required to treat excavated Sunbury shale to 500 mg/kg from concentrations in soil of more than 10,000 mg/kg.

Based on the experience with these technologies at PORTS, and considering the additional cost and schedule impacts, use of these technologies is not considered feasible to support using the contaminated fill in the OSDC. The acquisition of soil for fill must reasonably match the generation of D&D waste to be placed in the potential OSDC. The production rate of fill soil with treatment of TCE to achieve 500 mg/kg will be far below the rate required to support active D&D waste placement rate in the potential OSDC.

A storage and treatment CAMU would likely also need to be constructed with double liner and leachate collection system in compliance with *OAC* 3745-57-72(F) to treat the TCE-contaminated soil from X-720 and X-700 in order to separate the treatment operation from the D&D activities. This will require double or triple handling of the excavated soil. The more significant radiological contaminations in X-720 and X-700 areas may increase the unit cost by a factor of two to accommodate additional radiological protections for workers conducting the treatment. The production rate will also be further reduced.

Overall, the cost to achieve the (E)(4)(d) standard for TCE PHC soils at PORTS is likely to be up to an extra $10 million, along with an additional hotel load cost and 2 years of effort. With that comes the added short-term risk to the worker, as described in the main text of this Supplement. This standard, if implemented, will significantly delay the D&D schedule by taking away funding from D&D or OSDC construction activities for expensive soil treatments. Even with additional funding it may not support the D&D schedule. For example, soil will not be available from the X-701B plume area in time to support initial X-326 D&D waste placement in the OSDC, which is the first process building planned to be demolished at PORTS. Therefore DOE may be forced to use clean fill to place X-326 D&D wastes in the OSDC in order to keep D&D activities on track, if this standard is imposed.

E.2 *OAC* 3745-57-72(E)(4)(e) ADJUSTED STANDARD

The *OAC* 3745-57-72(E)(4)(e) allows considerations of specific factors and benefits to justify adjusted standards that are practical, more timely, less risk to workers, protective in the disposal CAMU, and cost-effective. This section presents detailed soil geological characteristics at PORTS and provides technical justifications to a proposed adjusted standard for TCE PHC soils identified in Appendix D.

E.2.1 PHYSICAL CHARACTERISTICS OF SOIL WITH PHC

Prior to the Pleistocene glaciations, the Teays River and its tributaries were the dominant drainage systems in Ohio. The Teays River flowed southeast to northwest passing approximately 3 miles north of the location now occupied by PORTS. The Portsmouth River, a tributary of the Teays River, flowed north across the plant site location between bluffs of Cuyahoga shale. The Portsmouth River downcut through the Cuyahoga and into the Sunbury (shale) and Berea (sandstone) Formations and deposited fluvial silty sands and gravels of the Gallia member of the Teays Formation. About 1 million years ago, a glacier advancing from the north blocked the northwestward flow of the Teays River that resulted in the creation of Lake Tight, which filled the valleys of the Teays River and its tributaries, including the Portsmouth River. Lacustrine silt and clay (Minford member of the Teays Formation), indicative of low-energy conditions, were deposited on the lake bottom overlaying the meandering stream deposits of the Gallia. As a result the unconsolidated sediments of the Teays Formation are divided into two members: the Minford clay and silt and the Gallia sand and gravel.

E.2.1.1 Minford Clay and Silt

The basal 10 to 15 ft of the Minford commonly consist of relatively clean silt, perhaps reflecting shallow lake levels and reworked sediment or possibly Portsmouth River over-bank deposits. Above this silt layer lays a series of laminated clays that may represent sediments deposited as the glacial Lake Tight grew deeper and more extensive. The Minford averages 20 to 30 ft in thickness at the PORTS facility. The upper clay unit averages 16 ft in thickness, is reddish-brown, silty, and plastic, and contains traces of sand in some locations. The lower silt unit averages 7 ft in thickness, is yellow-brown, semi-plastic, and contains varying amounts of clay and very fine sand. A former study (Law Engineering 1978) estimated the silt content in the Minford as a whole at approximately 33 percent. Based on data presented in this study, the following observations were noted:

- The Minford overall consists of about 67 percent clay and 33 percent silt.
- Minford soils have an in situ moisture range of 3 to 12 percent above optimum moisture content.
- In general, clay soils have an affinity to produce capillary action (i.e., tend to absorb moisture) up to the liquid limit. The in situ moisture content of Minford soils range from 1.6 to 36 percent below their liquid limits with an average of 15.4 percent below. Therefore, Minford soils will not readily release water.

The dry bulk density of most soils varies within the range of 1.1 to 1.6 g/cm^3 (Hillel 1980). Based on PORTS geology, the Minford could be described as a clay loam or silty clay loam. The typical dry density value for clay loam and silt loam soil types is 1.28 g/cm^3 (Linsley et al. 1982; Poffijn 1988). The typical total porosity ranges for clays are 0.40 to 0.70 (Freeze and Cherry 1979) and 0.34 to 0.57 with an arithmetic mean of 0.42 (McWorter and Sunada 1977), whereas the total porosity of silts ranges from 0.34/0.35 to 0.50/0.51 (Freeze and Cherry 1979; McWorter and Sunada 1977) with an arithmetic mean of 0.45. In naturally porous systems such as subsurface soil, where the flow of water is caused by the composition of capillary, molecular, and gravitational forces, the effective porosity can be approximated by the specific yield, or drainage porosity, which is defined as the ratio of the volume of water drained by gravity from a saturated representative sample of the soil to the total volume of the sample. The effective porosity of clays ranges from 0.01 to 0.18 with an arithmetic mean of 0.06, whereas the effective porosity of silts ranges from 0.01 to 0.39 with an arithmetic mean of 0.20 (McWorter and Sunada 1977).

Using the representative values for dry density, total porosity, and effective porosity of clays and silts, the theoretical moisture content by weight for the Minford at 100 percent saturation (i.e., all void space filled with water) ranges from 24.7 to 27.3 percent ($M\%_{SATWT}$). Based on 1,205 data points across PORTS, including background, the average moisture content by weight of the Minford vadose zone (0 to 10 ft below ground surface [bgs]) is 16.4 percent ($M\%_{AVGMinford}$). Therefore, on average, the Minford is at 60.1 to 66.4 percent (pore) saturation. Assuming that all available water within the effective porosity zone (clays = 0.06) is drained while maintaining the clay-bound pore zone at full hydration, the resultant "dry/drained" moisture content ($M\%_{DRYWT}$) would be 22.0 to 24.5 percent with a (pore) saturation level of 88.9 to 89.9 percent. At this effective porosity (0.06), the Minford vadose zone would already be considered "dry" and nearly impossible to dewater in a short duration by gravitational means alone. If an effective porosity of 0.20 (for silts) is considered, the "dry/drained" moisture content would range from 14.7 to 17.2 percent and the saturation level would be 59.4 to 63.2 percent.

Where there are pockets of clean silt, the free liquid will be able to drain out. However, the addition of relatively small amounts of clay will reduce the ability of the clayey silts to drain. Again, little to no benefit would be realized by gravitational draining of the Minford vadose zone at an average moisture content ($M\%_{AVGMinford}$) of 16.4 percent.

In addition to the relatively high moisture content (i.e., close to 60 to 66 percent saturation) in Minford clay in the vadose zone and difficulties in previous soil treatment efforts, the high TCE PHC concentrations measured under X-720 building (Figure E.5) above the groundwater table further demonstrate that Minford clay does not release moisture and associated contaminations by gravity drain effectively. Significant amounts of TCE stay in the vadose zone clay even long after the sources of TCE were removed from inside the X-720.

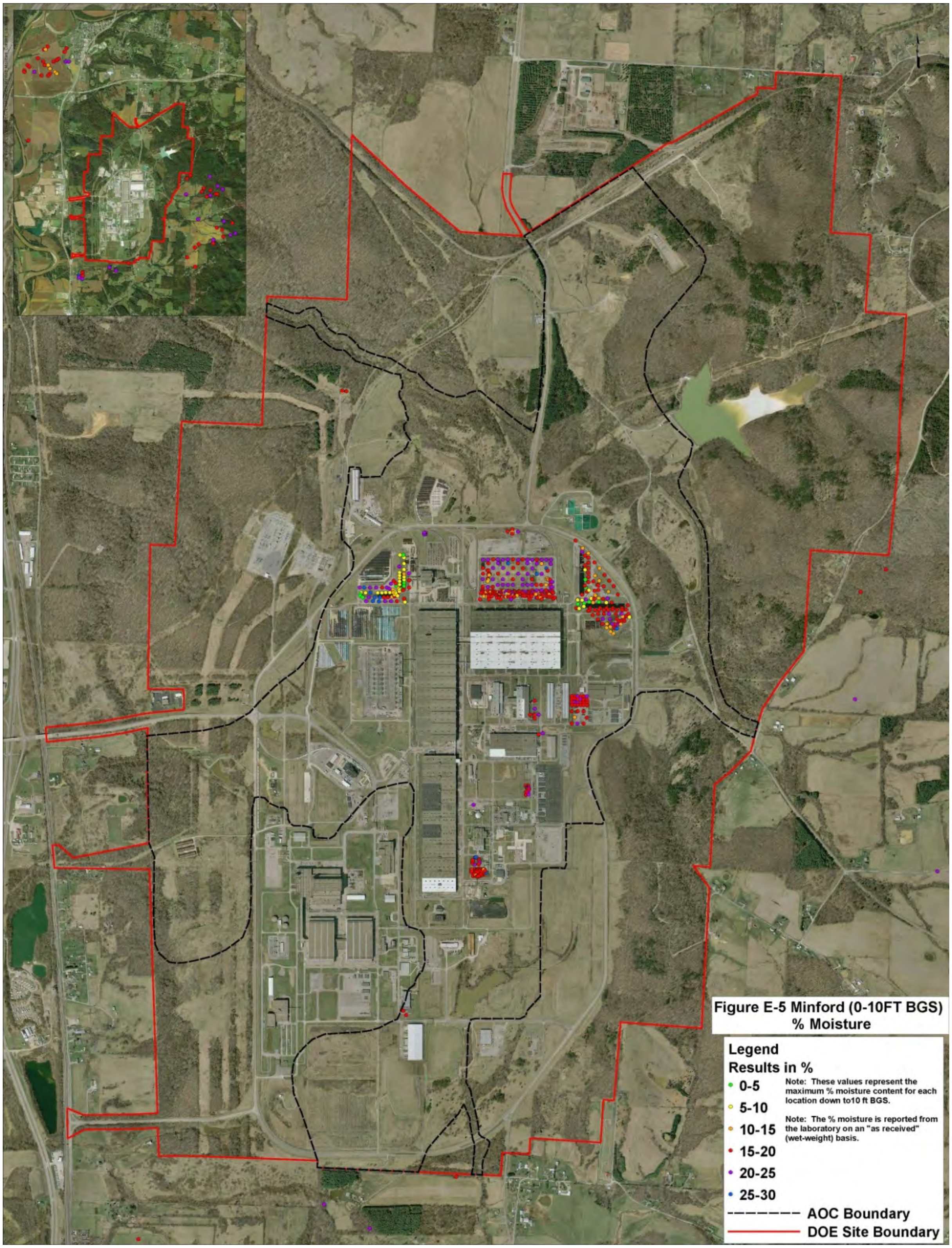


Figure E.5. Minford Percent Moisture at 0 to 10 ft below ground surface

E.2.1.2 Gallia Sand and Gravel

The Gallia averages 3 to 4 ft in thickness at PORTS and is characterized by poorly sorted, silty, clayey medium to coarse sand or gravel with the primary constituent varying between sand and gravel. A former study (Law Engineering 1978) indicated that the Gallia had an average clay content of 30 percent. The combination of post-Gallia erosion and modern stream deposition over already variable Gallia thickness has resulted in irregular thicknesses across the site.

Based on site geology, the Gallia could be described as a clay loam to loam to sandy clay loam. The typical dry density values for these soil types are 1.28 g/cm^3, 1.36 g/cm^3, and 1.44 g/cm^3 (sandy loam), respectively (Linsley et al. 1982; Poffijn 1988). In general, total porosity values for unconsolidated materials lie in the range of 0.25 to 0.70. Coarse-textured soils such as gravel and sand tend to have a lower total porosity than fine-textured soils such as silts and clays. As a comparison, the typical total porosity ranges for (coarse) sand are 0.25 to 0.50 (Freeze and Cherry 1979) and 0.31 to 0.46 with an arithmetic mean of 0.39 (McWorter and Sunada 1977), whereas the total porosity of clays are 0.40 to 0.70 (Freeze and Cherry 1979) and 0.34 to 0.57 with an arithmetic mean of 0.42 (McWorter and Sunada 1977). Soil analysis of a sample from PORTS (proposed X-737 site) of the Gallia member indicated the porosity at 37.9 percent (Ogden Environmental and Energy Services 1994). The typical effective porosity of (coarse) sand ranges from 0.18 to 0.43 with an arithmetic mean of 0.30, whereas the effective porosity of silts ranges from 0.01 to 0.39 with an arithmetic mean of 0.20. An effective porosity of 0.30 is normally used to characterize hydrogeological properties of the Gallia at PORTS.

Using the site-specific Gallia values for dry density and effective porosity and representative values for total porosity of various soil types, the theoretical moisture content by weight for the Gallia at 100 percent saturation (i.e., all void space filled with water) ranges from 20.8 to 24.7 percent ($M\%_{SATWT}$). Based on 237 data points for the Gallia, the average moisture content by weight of the Gallia is 17.6 percent ($M\%_{AVGGallia}$). Therefore, on average, the Gallia is approximately at 71.2 to 84.5 percent (pore) saturation. Assuming that all available water within the effective porosity zone (Gallia = 0.30) is drained, the resultant “dry/drained” moisture content ($M\%_{DRYWT}$) would be 5.2 to 8.6 percent with a (pore) saturation level of 25.0 to 34.7 percent. If an effective porosity of 0.20 (for silts) is considered, the “dry/drained” moisture content would range from 11.1 to 14.7 percent and the saturation level would be 53.1 to 59.4 percent. Therefore, some benefit could be realized by gravitational draining of the Gallia zone at an average moisture content ($M\%_{AVGGallia}$) of 17.6 percent.

E.2.2 PROPOSED ADJUSTED STANDARD

Considering the observed physical characteristics of known soil with TCE PHC or potential soil with TCE as a PHC, the estimated efforts required and short-term impacts and/or risks to workers to achieve (E)(4)(d) standard site wide, and the robust OSDC design (see the Intermediate Design Package), an adjusted treatment standard under (E)(4)(e) for TCE PHC in soil at PORTS is justified, if contaminated soil is to be excavated, field dewatered, and then used as engineered fill in the potential OSDC. Alternative 2 will require substantial amounts of soil that will be used as fill material. Fill material is critical to the management of wastes in the potential OSDC because it is used to structurally support D&D wastes and provide a buffer to protect the liner that contains leachate that will be generated. On-site borrow soil consisting of contaminated residual soils andaquifer materials has an added benefit of remediating contaminated soils that would serve as source for continued groundwater contamination and impact future use of the site. Other alternatives would still offer containment of contaminated groundwater but source areas containing TCE DNAPL do not have to be removed to accomplish these goals. Therefore the use of residual soil as fill and, potentially, highly contaminated aquifer material, offers an opportunity to significantly enhance the scope of remediation and benefit the site for future use.

However, this comes at a cost in time and money, if soils must be treated to the treatment standard of 500 mg/kg as demonstrated in Appendix E.

An adjusted standard for TCE PHC soil of: (1) excavating, field dewatering to no free liquid, and (2) limiting the remaining representative TCE concentration to less than 5,000 mg/kg is proposed. This adjusted standard satisfies multiple factors listed in *OAC* 3745-57-72(E)(4)(e) to be considered by the Ohio EPA Director. If approved, this adjusted standard would ensure that the contaminated fill option for the potential OSDC under the Alternative 2 could be implemented safely and cost effectively.

In order to achieve the proposed adjusted treatment standard, temporary storage and treatment CAMUs under *OAC* 3745-57-72 (C) and (F) may need to be constructed close to major excavation sites for conducting additional dewatering or other treatment operations, if sufficient dewatering could not be achieved at the excavation sites or the remaining TCE concentrations are higher than 5,000 mg/kg for certain soil types. As demonstrated in subsequent sections in this appendix, these soils will mainly consist of the high-clay content Minford Formation. Gravity drainage of these soils can occur, but may take years to reach the water content that is adequate to be used as fill. However, the treatment and storage CAMU operation will consolidate soils with varying properties including clay and water content. The act of consolidation has a beneficial effect of treating soils by mixing and also breaking the soils apart to facilitate better drainage and capture of contaminated water and potentially DNAPL. Other treatment technologies can be attempted if characterization of these consolidated soils proves that the treatment was ineffective. These technologies if necessary will be identified in future area-specific design documents for excavation and corresponding requests for designation of treatment and storage CAMUs. Therefore, soil may also be further treated in these CAMUs to lower remaining TCE concentrations to below 5,000 mg/kg or be packaged for off-Site shipment, if necessary. Currently, DOE does not plan to stage or treat bulk contaminated soil at the Impacted Material Transfer Area (IMTA) by the potential OSDC, although it will also be constructed and designated as a CAMU for staging primarily D&D waste as explained on Page 18 of the main text.

E.2.2.1 TCE Levels Protective of Geomembrane Liners

The proposed 5,000 mg/kg ceiling concentration is only about one third to one half of theoretical conditions indicating presence of TCE free product in Minford type of clay soils. Consequently, the treatment of residual soils, and other contaminated soils, will assure that no DNAPL is placed in the potential OSDC. Therefore by applying this limit as a safeguard would ensure that the liner materials will not be exposed to excessive TCE free product if the volume of TCE contaminated soil that is anticipated is used as engineered fill in the potential OSDC.

E.2.2.2 Dewatering To No Free Liquid and Separation of TCE-Free Product

At a minimum for saturated soils, soils containing TCE PHC will need to be dewatered to remove free liquid like any other material prior to placement or disposal in the potential OSDC. TCE-free product must be separated from the collected free liquid and properly handled and disposed of off Site. If the soils do not have free liquid, there would be no need for dewatering. However, by breaking up the in situ soil structure, the excavation process will facilitate reduction of moisture content, free up potentially trapped TCE free product from both saturated and unsaturated soils, and prepare the excavated soils for characterization, transportation to, and subsequent placement in the potential OSDC. DOE is contemplating that by consolidating and potentially amending contaminated unsaturated soils treatment will also be affected. This is necessary because of the geotechnical requirements for moisture content that is necessary for placement in the potential OSDC.

In accordance with *OAC* 3745-57-72(A)(3)(a), the placement of bulk or non-containerized liquid hazardous waste or free liquids contained in hazardous waste (whether or not sorbents have been added) in any CAMU is prohibited except where placement of such wastes facilitates the remedy selected for the waste. The dewatering effort will be conducted first in situ during excavation by gravity drain. Sufficient run on controls will be implemented around the excavation areas. Groundwater may also be pumped around the deeper excavation areas to lower groundwater table during the full duration of excavation. Water that is collected during these activities will be treated in one of the existing groundwater treatment facilities that are designed to handle TCE. If necessary, soil dewatered in the AOC may require additional treatment in a storage and treatment CAMU near the excavation site.

TCE concentrations in Gallia soil may be reduced to some degree by gravity drain, if no TCE-free product is present at the location. Significant reduction of TCE concentrations in Gallia soil could be expected, if free product is present initially at the location. Reduction of TCE concentrations in excavated Minford clay from vadose zone is not expected. As shown in Figure D.3, about 450 cy of soil may still have TCE concentrations over 5,000 mg/kg (the level considered conservatively protective of the liner) after dewatering. After excavation and dewatering, the remaining levels of TCE in Minford clay soil are estimated to be, on the average, over 5,000 mg/kg, but could be as high as 15,000 mg/kg (see Figure E.4) in some of the most significant TCE source areas at PORTS, primarily those areas associated with facilities that stored and/or used large quantity of TCE for many decades such as Building X-720. Therefore, additional steps may be required in these areas to achieve the proposed ceiling of 5,000 mg/kg following any required field dewatering and a best-effort to separate TCE-free product from the excavated soil. These steps may include additional treatment or shipping the soil off Site for disposal.

Additional soil with concentrations over 5,000 mg/kg may need to be excavated from the top weathered portion of the Sunbury formation underlying the Gallia soil in the X-701B area, where significant amount of TCE-free product may be present. It is DOE's desire to remove as much TCE-free product from this formation as practical during soil excavation, in order to shorten remaining groundwater remediation durations after soil excavation in this area. Therefore, dewatering and additional treatment of the excavated Sunbury shale would also likely be required.

E.2.2.3 Regulatory Justifications

The following section is a summary of the regulatory justifications that are presented in the main text of this Supplement. The proposed adjusted standard for TCE PHC soil of (1) excavating, dewatering soil to no free liquid and (2) a ceiling limit for representative TCE concentration of 5,000 mg/kg satisfies multiple factors listed in *OAC* 3745-57-72(E)(4)(e) to be considered by Ohio EPA Director. Most importantly, the proposed adjusted standard is more protective of human health and the environment than the (E)(4)(d) standard because a shorter remedial duration and a more complete soil remediation can be accomplished in parallel with the D&D activities at PORTS.

a) Support D&D and waste placement (E)(4)(e)(i)

As pointed out in Section E.1.5 of this appendix, the (E)(4)(d) standard is impractical to support the D&D waste placement in the potential OSDC due to the required treatment duration and associated high cost. Implementation of the proposed adjusted standard, on the other hand, will be able to support the D&D project at PORTS with normal soil excavation equipment and processes used in large-scale soil remediation without significant delays.

b) Reduced short-term risk to workers (E)(4)(e)(iv)

This adjusted standard will result in no extra chemical or radiological exposures experienced by the field workers as opposed to the lengthy soil treatment processes necessary to achieve the standard under

(E)(4)(d). The proposed adjusted standard under (E)(4)(e) will only require soil excavation, dewatering, characterization, and transportation activities normally conducted in a large scale soil remediation. Only a manageable amount of contaminated soil may require further treatment and/or be disposed of off Site.

c) Accelerated cleanup and protective end state (E)(4)(e)(iii)

The estimated volume of contaminated soil that may require additional thermal and/or chemical treatment is reduced from 29,000 cy to 450 cy or less. The savings in cost and time are very significant (i.e., close to $10 million and 2 years). The savings will be used to accelerate more D&D activities and shorten the overall project duration at PORTS. That will better protect the workers, the public, and the environment from potential short-term impacts. This is consistent with the views of the affected local community toward an accelerated cleanup to achieve a protective end state and reuse of the land at PORTS.

d) OSDC protectiveness (E)(4)(e)(v)(*b*)

If selected, the OSDC will provide long-term protection by constructing the CAMU at a location with the best geological conditions at PORTS and will exceed all regulatory engineering design requirements, including double liners and leachate collection requirements for a normal RCRA hazardous waste landfill. Waste acceptance criteria-compliant D&D wastes and fill will be placed in a very controlled manner to ensure long-term stability of the entire waste layer and the final cover system. The OSDC is required to be protective for 1,000 years by the DFF&O.

Applying the 5,000 mg/kg ceiling limit after dewatering as an adjusted treatment standard for TCE contaminated soil in all three major TCE PHC areas in the zone of reasonable treatment values (see Figure D.3), instead of the treatment standard of 500 mg/kg will reduce the amount of soil potentially needing further treatment to a more manageable quantity. This will facilitate a more thorough soil remediation of remaining TCE source areas in groundwater plumes at PORTS. Consequently, the groundwater remediation will be significantly accelerated as a result of removal of all significant TCE sources and DNAPL. This adjusted treatment standard will also allow the pace of soil characterization, excavation, and processing from these areas to keep up with the expected building waste placement rate in the potential OSDC by reducing the time required for characterization and treatment of TCE PHC soil. Following the proposed adjusted treatment standard, the contaminated soil could be processed, placed, and contained within the robust OSDC and safely isolated from the environment.

E.3 SUMMARY

The requirements of *OAC* 3745-57-72 were followed to propose an adjusted treatment standard for TCE PHC contaminated soils to be excavated during D&D and soil remediation at PORTS as identified in Appendix D. After evaluating all the available soil data and the limitations associated with historical soil treatment efforts collected or conducted in the last 20 plus years at PORTS, a protective and cost-effective adjusted standard under (E)(4)(e) is proposed. When all factors are considered, and after cost-effective treatment (i.e., excavation and dewatering), the soil waste will be placed in a disposal CAMU that is protective of human health and the environment.

The proposed adjusted standard for TCE PHC contaminated soil, considered as an option for engineered fill in the potential OSDC under Alternative 2, of: (1) excavating, dewatering to no free liquid, and (2) a ceiling limit for remaining representative TCE concentration of 5,000 mg/kg satisfies multiple factors listed in *OAC* 3745-57-72(E)(4)(e) to be considered by the Ohio EPA Director. The proposed adjusted standard is protective of the public and the environment under the *OAC* 3745-57-72(E)(4)(d) standard. As an added benefit, it will support an accelerated overall cleanup mission at PORTS. This conclusion is valid for both the residual soils and soils produced under other regulatory authorities with TCE as a PHC because the determining factors are the robustness of the potential OSDC design and physical properties of the Minford clay soil, both of which are independent of the label of residual soil versus other soils.

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